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EDITORIAL NOTICE

Beginning with this batch of *Minor Planet Circulars*, and in an effort to simplify the presentation of orbital elements, the single-apparition orbits, whether computed with consideration of perturbations or not, have been moved from their former place following the cometary orbits to the end of the orbit section and are now combined with the improved multiple-opposition orbits that do not involve additional identifications. Improved orbits of already-numbered minor planets are now also given in this section. This means that even the short-arc single-opposition orbits will now be given with greater precision than hitherto. Considered in terms of individual orbital elements, this precision is clearly not warranted. By utilizing this higher precision, however, those who have their own software for computing ephemerides will be able to reproduce the ephemerides provided by the Minor Planet Center (notably in the Computer Service).

The Minor Planet Center is inserting into its files, without republication in these *Circulars*, 5900 observations of numbered minor planets obtained by the Hipparcos satellite and extracted from the CD-ROM set of Hipparcos data (M. Perryman *et al.*, 1997).

ERRATA

MPC	Line	
6060	12	For Luznice read Lužnice
11635	9	For Luznice read Lužnice
17465	24	For Boubin read Boubín
23136	3	For Lomnický Štít read Lomnický Štít
23656	22	For Lomnický Štít read Lomnický Štít
25190	-27	For Boubin read Boubín
27733	-48	For Zdenekhorský read Zdeněkhorský
28816	34	For Zdenekhorský read Zdeněkhorský
30428	18	For National Astronomical Observatory, Mitaka, Tokyo 181, Japan read Communications Research Laboratory, Hirai 893-1, Kashima, Ibaraki-Ken, 314 Japan
30428	19	For [davidas@cc.nao.ac.jp] read [david@crl.go.jp]
30429	22	For July 3 0 read July 3-30

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 30309. The longitudes λ are measured in degrees eastward from Greenwich, and the parallax constants $\rho \cos \phi'$ and $\rho \sin \phi'$ are the product of the geocentric distance (in earth equatorial radii) and the cosine and sine, respectively, of the geocentric latitude.

Obs.	λ	$\rho \cos \phi'$	$\rho \sin \phi'$	
140	3.6294	0.69945	+0.71241	Augerolles
141	7.3672	0.65646	+0.75189	Hottviller
248	0.0000	0.00000	0.00000	Hipparcos
727	262.5389	0.81394	+0.57910	Zeno Observatory, Edmond
734	263.9986	0.77943	+0.62449	Farpoint Observatory, Eskridge
761	277.6456	0.88138	+0.47083	Zephyrhills
951	358.2983	0.6220	+0.7804	Highworth
952	359.7583	0.7787	+0.6253	Marxuquera

CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	N Obs.
1997 PK ₂	1997 08	09.98264	22 19 20.92	-05 19 57.2	<i>MPC</i> 30353	1 611
(310)	1950 02	19.01274	10 24 00.26	+04 33 54.6	<i>MPC</i> 487	2 022
(489)	1950 02	19.01274	10 19 46.08	+04 58 01.1	<i>MPC</i> 487	2 022

Note 1: time changed. 2: time corrected by -1 hour.

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Obs.
1983 WJ	1996 06	18.29090	17 19 23.44	-21 53 12.6	<i>MPC</i> 27820	689
(948)	1931 01	14.89587	06 28 26.25	+36 13 29.5	<i>MPC</i> 4322	012

IDENTIFICATION CHANGES

Continuation to *MPC* 30309.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	Obs.
1951 YX ₂	* 1951 12	22.1431	04 29 04.9	+18 54 32	1951 XY	16.6	711

1975 LL ₁	*	1975 06 13.11954	16 07 31.68	-39 47 55.0	(1050)	808
1975 LL ₁		1975 06 13.16594	16 07 28.97	-39 47 31.1	(1050)	808
1977 RL ₂₀	*	1977 09 09.85803	22 02 19.25	-03 54 34.7	1977 QV ₄	17.0 095
1978 UO ₈	*	1978 10 29.35451	02 45 13.53	+15 04 21.7	1978 US ₃	675
1980 BO ₆	*	1980 01 21.87568	09 03 26.63	+16 25 20.6	1980 BK	046
1980 BO ₆		1980 01 21.88980	09 03 25.88	+16 25 27.8	1980 BK	046
1982 WP	*	1982 11 20.73139	03 38 14.34	+44 23 43.9	1982 VQ ₂	17.5 381
1985 YP ₂	*	1985 12 17.44514	07 29 52.16	+18 21 23.1	1985 XK ₂	675
1985 YP ₂		1985 12 17.46597	07 29 51.41	+18 21 23.1	1985 XK ₂	675
1986 RW ₁₇	*	1986 09 06.90472	22 55 25.81	+00 54 24.0	1986 QO ₅	16.0 V 095
1986 RX ₁₇	*	1986 09 06.90472	22 55 39.52	+00 32 41.5	1986 QP ₅	16.0 V 095
1989 EK ₁₂	*	1989 03 04.69412	10 40 21.61	+03 02 01.0	1989 EG ₅	413
1989 EL ₁₂	*	1989 03 04.69412	10 40 23.85	+02 59 07.4	1989 EJ ₅	413
1992 YV ₅	*	1992 12 22.68229	05 59 11.20	+29 47 24.3	1992 YG	16.5 885
1992 YV ₅		1992 12 22.69479	05 59 10.36	+29 47 24.6	1992 YG	885
1993 QU ₁₀	*	1993 08 17.00139	23 02 15.71	-06 08 34.0	1993 PQ ₇	010
1995 WK ₄₃	*	1995 11 25.56597	04 06 43.60	+16 08 00.3	1995 WZ ₅	16.8 399
1995 WK ₄₃		1995 11 25.58021	04 06 42.62	+16 07 57.0	1995 WZ ₅	399
1996 FN ₂₃	*	1996 03 27.29097	14 37 30.03	-13 28 42.0	1996 FU ₂₂	809
1996 FN ₂₃		1996 03 27.30278	14 37 29.60	-13 28 41.0	1996 FU ₂₂	809
1996 FN ₂₃		1996 03 27.31458	14 37 29.19	-13 28 38.8	1996 FU ₂₂	809
1996 FO ₂₃	*	1996 03 27.29097	14 37 39.44	-13 29 23.7	1996 FR ₂₂	809
1996 FO ₂₃		1996 03 27.30278	14 37 39.06	-13 29 22.3	1996 FR ₂₂	809
1996 FO ₂₃		1996 03 27.31458	14 37 38.79	-13 29 21.4	1996 FR ₂₂	809
1996 HV ₂₆	*	1996 04 21.35417	15 15 08.92	-17 12 06.9	1996 HR ₂₃	809
1996 HV ₂₆		1996 04 21.36736	15 15 08.08	-17 12 07.1	1996 HR ₂₃	809
1996 HV ₂₆		1996 04 21.38056	15 15 07.49	-17 12 08.7	1996 HR ₂₃	809
1997 PP ₅	*	1997 08 10.31153	22 01 08.34	-15 16 06.9	1997 PH ₂	684
1997 PP ₅		1997 08 10.32718	22 01 07.65	-15 16 12.6	1997 PH ₂	684
1997 PP ₅		1997 08 10.34868	22 01 06.76	-15 16 18.7	1997 PH ₂	18.3 R 684

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

045	Vienna.	0.36-m astrograph + CCD.	Observers M. Ploner and P. Jackson.
046	Kleť.	0.57-m $f/5.2$ reflector + CCD.	Observers J. Tichá, M. Tichý and Z. Moravec.
108	Montelupo.	0.30-m $f/5.7$ Schmidt-Cassegrain + CCD.	Observers M. Tombelli and G. Forti.
118	Modra.	0.6-m $f/5.5$ reflector + CCD.	Observers A. Galád, P. Kolény, L. Kornoš, A. Pravda and P. Zigo.
249	SOHO.	SOHO-LASCO coronagraphs C3 and C2.	Observers D. A. Biesecker, B. McCarty, K. Schenk and C. St. Cyr. Reduction by G. V. Williams.
360	Kuma Kogen.	0.60-m $f/6.0$ Ritchey-Chrétien + CCD.	Observer A. Nakamura.
367	Yatsuka.	0.26-m $f/6.0$ reflector + CCD.	Observer H. Abe.
402	Dynic Astronomical Observatory.	0.60-m $f/4.0$ reflector + CCD.	Observer A. Sugie.
422	Loomberah.	0.25-m $f/4.1$ reflector + CCD.	Observer G. J. Garradd.
557	Ondřejov.	0.65-m $f/3.6$ reflector + CCD.	Observers P. Pravec and L. Šarounová.
587	Sormano.	0.5-m reflector + CCD.	Observers M. Cavagna and F. Manca.

605	Marl.	0.2-m $f/10$ Schmidt-Cassegrain + CCD.	Observer E. Jung.
616	Brno.	0.4-m $f/4.4$ reflector + CCD.	Observer D. Hanžl. Measured by F. Hroch.
628	Mülheim-Ruhr.	0.2-m Schmidt-Cassegrain + CCD.	Observer A. Martin.
629	Szeged.	0.28-m Schmidt-Cassegrain + CCD.	Observers L. Kiss and K. Sárneczky.
658	Dominion Astrophysical Observatory.	1.82-m Plaskett telescope + CCD.	Observer D. D. Balam.
675	Palomar.	1.2-m Oschin Schmidt and 5-m reflector + CCD.	Observers J. Mueller, P. Weissman, B. Buratti and E. Lynch. Measured by B. A. Skiff, P. Weissman and B. Gebhardt.
691	Kitt Peak.	0.91-m Spacewatch telescope.	Observers T. Gehrels, J. V. Scotti and J. Montani.
762	Lake Leelanau.	0.3-m $f/3.3$ reflector + CCD.	Observer R. Elliott.
844	Los Molinos.	0.35-m reflector + CCD.	Observers N. Sosa, O. Mendez, V. Motta and J. C. Tulic.
861	Barão Geraldo.	0.20-m $f/6.3$ Schmidt-Cassegrain + CCD.	Observer P. R. Holvorcem.
867	Saji Observatory.	1.03-m $f/4.8$ reflector + CCD.	Observers M. Yamanishi, A. Miyamoto, M. Aimoto and T. Oribe.
897	YGCO Chiyoda Observatory.	0.25-m $f/6.0$ reflector + CCD.	Observer T. Kojima.
900	Moriyama.	0.25-m $f/6.3$ reflector + CCD.	Observer Y. Ikari.
954	Teide Observatory.	0.82-m $f/11.3$ reflector + CCD.	Observers J. Licandro and R. Casas. Measured by R. Casas.
967	Greens Norton.	0.21-m $f/4.4$ reflector + CCD.	Observer R. J. Neville.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N	Obs.
C/1989 W1 (Aarseth-Brewington)							
C/1989 W1	1989 09 01.15278		17 52 57.15	+71 42 06.2	17.0 T	1	675
C/1989 W1	1989 09 01.18403		17 52 46.96	+71 41 30.5			675
C/1995 O1 (Hale-Bopp)							
C/1995 O1	1997 03 07.83351		22 04 47.09	+38 24 09.2			897
C/1995 O1	1997 03 08.83898		22 12 01.73	+39 07 07.1			897
C/1995 O1	1997 03 08.84426		22 12 04.09	+39 07 20.2			897
C/1995 O1	1997 03 11.83300		22 35 07.73	+41 07 45.6			897
C/1995 O1	1997 03 12.83719		22 43 23.71	+41 45 10.8			897
C/1995 O1	1997 03 16.81043		23 18 30.60	+43 52 19.6			897
C/1995 O1	1997 03 24.40707		00 33 15.08	+45 49 22.3			897
C/1995 O1	1997 03 24.82819		00 37 31.54	+45 50 11.3			897
C/1995 O1	1997 04 11.40981		03 09 23.41	+39 01 19.8			897
C/1995 O1	1997 08 12.78055		07 32 26.07	-17 25 04.2	11.9 N		422
C/1995 O1	1997 08 12.78160		07 32 26.19	-17 25 05.3	11.8 N		422
C/1995 O1	1997 08 12.78265		07 32 26.23	-17 25 06.8	12.0 N		422
C/1995 O1	1997 08 12.78735		07 32 26.53	-17 25 13.4	11.7 N		422
C/1995 O1	1997 08 13.79559		07 33 27.47	-17 48 27.1	11.3 N		422
C/1995 O1	1997 08 13.79615		07 33 27.53	-17 48 28.3	11.4 N		422
C/1995 O1	1997 08 13.79670		07 33 27.57	-17 48 28.9	11.5 N		422
C/1995 O1	1997 08 14.78616		07 34 26.82	-18 11 19.8	11.3 N		422
C/1995 O1	1997 08 14.78684		07 34 26.85	-18 11 20.6	11.5 N		422
C/1995 O1	1997 08 14.78751		07 34 26.90	-18 11 21.7	11.4 N		422
C/1995 O1	1997 08 15.77970		07 35 25.78	-18 34 20.0	11.6 N		422

1997 SEPT.16

M.P.C. 30495

C/1995 O1	1997 08 15.78037	07 35 25.83	-18 34 21.1	11.6 N	422
C/1995 O1	1997 08 15.78103	07 35 25.84	-18 34 22.0	11.7 N	422
C/1995 O1	1997 08 15.78389	07 35 26.03	-18 34 26.0	11.8 N	422
C/1995 O1	1997 09 06.38546	07 54 15.66	-27 10 26.4		844
C/1995 O1	1997 09 06.38919	07 54 15.82	-27 10 31.7		844
C/1995 O1	1997 09 10.36556	07 57 07.14	-28 48 42.7		844
C/1995 O1	1997 09 10.36630	07 57 07.16	-28 48 43.6		844
C/1995 O1	1997 09 10.36769	07 57 07.21	-28 48 45.9		844

C/1996 J1 (Evans-Drinkwater)

C/1996 J1-B	1997 07 31.04587	03 02 31.88	+37 42 53.3	16.8 T	629
C/1996 J1-B	1997 07 31.04988	03 02 32.12	+37 42 54.3		629
C/1996 J1-B	1997 07 31.05274	03 02 32.22	+37 42 55.1	16.8 T	629
C/1996 J1-B	1997 08 02.31274	03 04 05.44	+37 57 04.4	16.3 T	861
C/1996 J1-B	1997 08 02.31896	03 04 05.72	+37 57 06.0	16.2 T	861
C/1996 J1-B	1997 08 02.32396	03 04 05.86	+37 57 07.9	16.2 T	861
C/1996 J1-B	1997 08 08.04198	03 07 33.15	+38 31 15.7	15.7 T	616
C/1996 J1-B	1997 08 08.04680	03 07 33.18	+38 31 17.4		616
C/1996 J1-B	1997 08 08.05232	03 07 33.38	+38 31 19.7		616
C/1996 J1-A	1997 08 11.72319	03 09 12.14	+38 52 05.7	15.9 T	402
C/1996 J1-B	1997 08 11.72319	03 09 23.93	+38 52 07.2	15.1 T	402
C/1996 J1-A	1997 08 11.72667	03 09 12.28	+38 52 06.8		402
C/1996 J1-B	1997 08 11.72667	03 09 24.01	+38 52 08.4		402
C/1996 J1-A	1997 08 11.73014	03 09 12.35	+38 52 07.6		402
C/1996 J1-B	1997 08 11.73014	03 09 24.09	+38 52 09.4		402
C/1996 J1-A	1997 08 13.09036	03 09 48.48	+38 59 35.3	17.1 T	118
C/1996 J1-B	1997 08 13.09036	03 10 00.33	+38 59 37.9	15.8 T	118
C/1996 J1-A	1997 08 13.09453	03 09 48.51	+38 59 36.2		118
C/1996 J1-B	1997 08 13.09453	03 10 00.41	+38 59 39.4		118
C/1996 J1-A	1997 08 13.09730	03 09 48.61	+38 59 37.4		118
C/1996 J1-B	1997 08 13.09730	03 10 00.48	+38 59 40.1		118
C/1996 J1-B	1997 08 16.07500	03 11 11.00	+39 15 32.6	15.5 T	118
C/1996 J1-B	1997 08 16.78288	03 11 25.98	+39 19 14.4	15.6 T	367
C/1996 J1-B	1997 08 16.78497	03 11 25.96	+39 19 15.2		367
C/1996 J1-B	1997 08 16.78705	03 11 26.04	+39 19 16.4		367
C/1996 J1-A	1997 08 19.99369	03 12 12.65	+39 35 24.9	17.2 T	2 118
C/1996 J1-B	1997 08 19.99369	03 12 25.02	+39 35 27.2		118
C/1996 J1-B	1997 08 20.00449	03 12 25.17	+39 35 30.1		118
C/1996 J1-B	1997 08 21.02397	03 12 40.88	+39 40 29.4		118
C/1996 J1-B	1997 08 21.03286	03 12 41.02	+39 40 31.7	15.5 T	118
C/1996 J1-A	1997 08 21.98944	03 12 41.76	+39 45 07.5		2 118
C/1996 J1-B	1997 08 21.98944	03 12 54.34	+39 45 09.0		118
C/1996 J1-B	1997 08 21.99702	03 12 54.44	+39 45 11.4		118
C/1996 J1-A	1997 08 22.00064	03 12 41.87	+39 45 10.9	17.4 T	2 118
C/1996 J1-B	1997 08 22.00064	03 12 54.47	+39 45 12.4	15.6 T	118
C/1996 J1-B	1997 08 23.78014	03 13 15.61	+39 53 34.5	15.1 T	900
C/1996 J1-B	1997 08 23.79989	03 13 15.80	+39 53 40.0		900
C/1996 J1-A	1997 08 25.05006	03 13 15.02	+39 59 20.2		118
C/1996 J1-B	1997 08 25.05006	03 13 27.96	+39 59 22.1		118
C/1996 J1-A	1997 08 25.05720	03 13 15.10	+39 59 23.1	17.1 T	118
C/1996 J1-B	1997 08 25.05720	03 13 28.02	+39 59 24.0		118
C/1996 J1-B	1997 08 25.06060	03 13 28.03	+39 59 25.0	15.6 T	118
C/1996 J1-B	1997 08 27.09251	03 13 42.68	+40 08 25.6	16.4 T	629

C/1996 J1-B	1997 08 27.09858	03 13 42.68	+40 08 26.6	16.5 T	629
C/1996 J1-B	1997 08 27.11229	03 13 42.81	+40 08 29.7	16.6 T	629
C/1996 J1-B	1997 08 28.10476	03 13 47.72	+40 12 45.9	15.9 T	118
C/1996 J1-B	1997 08 28.11176	03 13 47.74	+40 12 47.8	15.8 T	118
C/1996 J1-B	1997 08 28.70662	03 13 50.12	+40 15 18.6		867
C/1996 J1-A	1997 08 28.71218	03 13 36.85	+40 15 18.9		867
C/1996 J1-B	1997 08 28.71218	03 13 50.14	+40 15 20.3		867
C/1996 J1-A	1997 08 28.71993	03 13 36.87	+40 15 20.8		867
C/1996 J1-B	1997 08 28.71993	03 13 50.14	+40 15 22.2	14.9 T	867
C/1996 J1-A	1997 08 28.77118	03 13 37.00	+40 15 34.0	17.7 T	360
C/1996 J1-B	1997 08 28.77118	03 13 50.24	+40 15 35.2	14.9 T	360
C/1996 J1-A	1997 08 28.77639	03 13 37.00	+40 15 35.3		360
C/1996 J1-B	1997 08 28.77639	03 13 50.24	+40 15 36.5		360
C/1996 J1-A	1997 08 31.07002	03 13 40.16	+40 24 54.6		557
C/1996 J1-A	1997 08 31.09490	03 13 40.15	+40 25 00.7		557
C/1996 J1-B	1997 08 31.09490	03 13 53.60	+40 25 02.5		557
C/1996 J1-A	1997 08 31.11024	03 13 40.11	+40 25 05.0	17.2 T	557
C/1996 J1-B	1997 08 31.11024	03 13 53.58	+40 25 06.1	15 T	557
C/1996 J1-A	1997 09 03.98112	03 13 27.30	+40 39 39.3		2 118
C/1996 J1-B	1997 09 03.98112	03 13 41.04	+40 39 40.4		118
C/1996 J1-A	1997 09 03.98508	03 13 27.22	+40 39 39.6		2 118
C/1996 J1-A	1997 09 03.99204	03 13 27.23	+40 39 41.6	17.6 T	2 118
C/1996 J1-B	1997 09 03.99204	03 13 40.99	+40 39 43.1		118
C/1996 J1-B	1997 09 04.00435	03 13 40.88	+40 39 45.6	15.5 T	118
C/1996 J1-B	1997 09 04.71646	03 13 36.04	+40 42 17.0	15.2 T	900
C/1996 J1-B	1997 09 04.73606	03 13 35.86	+40 42 21.3		900
C/1996 J1-B	1997 09 05.95660	03 13 25.89	+40 46 29.6		118
C/1996 J1-B	1997 09 05.96767	03 13 25.76	+40 46 31.8		118
C/1996 J1-B	1997 09 05.97223	03 13 25.72	+40 46 32.9	15.3 T	118
C/1996 J1-B	1997 09 08.02067	03 13 03.66	+40 53 10.6		118
C/1996 J1-A	1997 09 08.02659	03 12 49.47	+40 53 09.6		118
C/1996 J1-B	1997 09 08.02659	03 13 03.58	+40 53 11.3		118
C/1996 J1-A	1997 09 08.03370	03 12 49.34	+40 53 10.8		118
C/1996 J1-B	1997 09 08.03370	03 13 03.46	+40 53 12.9		118
C/1996 J1-A	1997 09 08.04061	03 12 49.28	+40 53 12.3	16.6 T	118
C/1996 J1-B	1997 09 08.04061	03 13 03.39	+40 53 14.1	14.9 T	118
C/1996 J1-A	1997 09 09.80809	03 12 24.90	+40 58 31.5	16.7 T	402
C/1996 J1-B	1997 09 09.80809	03 12 39.16	+40 58 33.9	15.0 T	402
C/1996 J1-A	1997 09 09.81106	03 12 24.84	+40 58 32.4		402
C/1996 J1-B	1997 09 09.81106	03 12 39.12	+40 58 34.5		402
C/1996 J1-A	1997 09 09.81404	03 12 24.76	+40 58 32.5		402
C/1996 J1-B	1997 09 09.81404	03 12 39.07	+40 58 35.0		402
C/1996 J1-A	1997 09 10.74358	03 12 10.25	+41 01 11.1	17.8 T	360
C/1996 J1-B	1997 09 10.74358	03 12 24.61	+41 01 13.4	15.1 T	360
C/1996 J1-A	1997 09 10.74861	03 12 10.13	+41 01 11.7		360
C/1996 J1-B	1997 09 10.74861	03 12 24.52	+41 01 14.3		360
C/1996 J1-B	1997 09 11.11635	03 12 18.35	+41 02 14.6		118
C/1996 J1-A	1997 09 11.11933	03 12 03.90	+41 02 13.3		118
C/1996 J1-A	1997 09 11.12251	03 12 03.87	+41 02 13.4	17.2 T	118
C/1996 J1-B	1997 09 11.12251	03 12 18.23	+41 02 15.8	15.4 T	118
C/1996 J1-A	1997 09 11.12839	03 12 03.81	+41 02 14.4		118
C/1996 J1-B	1997 09 11.12839	03 12 18.12	+41 02 16.4		118

C/1996 J1-B	1997 09 12.07624	03 12 01.48	+41 04 48.8	16.3 T	046
C/1996 J1-B	1997 09 12.08089	03 12 01.41	+41 04 49.3		046
C/1996 J1-B	1997 09 12.08409	03 12 01.32	+41 04 50.1		046

C/1996 O1 (SOHO)

C/1996 O1	1996 07 21.41953	07 50 06.9	+18 17 38		249
Geocentric position (AU)	-0.00105787	-0.01003456	-0.00396556		
C/1996 O1	1996 07 21.45043	07 50 33.1	+18 20 39		249
Geocentric position (AU)	-0.00106203	-0.01003251	-0.00396568		
C/1996 O1	1996 07 21.48120	07 51 00.2	+18 24 59		249
Geocentric position (AU)	-0.00106536	-0.01003087	-0.00396577		
C/1996 O1	1996 07 21.51714	07 51 32.3	+18 29 33		249
Geocentric position (AU)	-0.00106952	-0.01002881	-0.00396590		
C/1996 O1	1996 07 21.54287	07 51 54.6	+18 32 36		249
Geocentric position (AU)	-0.00107285	-0.01002717	-0.00396599		
C/1996 O1	1996 07 21.70449	07 54 30.6	+18 54 03		249
Geocentric position (AU)	-0.00109203	-0.01001765	-0.00396653		
C/1996 O1	1996 07 21.74316	07 55 09.8	+18 59 04		249
Geocentric position (AU)	-0.00109704	-0.01001515	-0.00396666		
C/1996 O1	1996 07 21.83309	07 56 48.1	+19 12 44		249
Geocentric position (AU)	-0.00110791	-0.01000973	-0.00396695		
C/1996 O1	1996 07 21.85883	07 57 22.4	+19 16 06		249
Geocentric position (AU)	-0.00111125	-0.01000806	-0.00396704		

C/1996 O2 (SOHO)

C/1996 O2	1996 07 23.19580	07 51 27.0	+17 16 28		249
Geocentric position (AU)	-0.00127325	-0.00992505	-0.00397046		
C/1996 O2	1996 07 23.22675	07 51 47.9	+17 19 04		249
Geocentric position (AU)	-0.00127751	-0.00992282	-0.00397053		
C/1996 O2	1996 07 23.26288	07 52 20.2	+17 21 07		249
Geocentric position (AU)	-0.00128177	-0.00992059	-0.00397060		
C/1996 O2	1996 07 23.28867	07 52 35.5	+17 25 10		249
Geocentric position (AU)	-0.00128517	-0.00991880	-0.00397065		
C/1996 O2	1996 07 23.35552	07 53 21.7	+17 30 56		249
Geocentric position (AU)	-0.00129285	-0.00991477	-0.00397076		
C/1996 O2	1996 07 23.38895	07 53 49.5	+17 33 36		249
Geocentric position (AU)	-0.00129711	-0.00991253	-0.00397082		
C/1996 O2	1996 07 23.45194	07 54 39.6	+17 40 46		249
Geocentric position (AU)	-0.00130479	-0.00990849	-0.00397093		
C/1996 O2	1996 07 23.49061	07 55 11.1	+17 44 36		249
Geocentric position (AU)	-0.00130992	-0.00990578	-0.00397100		
C/1996 O2	1996 07 23.52152	07 55 33.3	+17 46 42		249
Geocentric position (AU)	-0.00131333	-0.00990398	-0.00397105		
C/1996 O2	1996 07 23.55058	07 55 59.8	+17 50 23		249
Geocentric position (AU)	-0.00131675	-0.00990217	-0.00397110		
C/1996 O2	1996 07 23.88316	08 01 00.4	+18 26 32		249
Geocentric position (AU)	-0.00135787	-0.00988034	-0.00397159		
C/1996 O2	1996 07 23.90896	08 01 28.6	+18 29 32		249
Geocentric position (AU)	-0.00136131	-0.00987851	-0.00397163		
C/1996 O2	1996 07 24.00178	08 03 06.0	+18 40 50		249
Geocentric position (AU)	-0.00137248	-0.00987254	-0.00397175		
C/1996 O2	1996 07 24.07101	08 04 27.2	+18 51 34		249
Geocentric position (AU)	-0.00138109	-0.00986793	-0.00397183		

C/1996 O2	1996 07 24.10177	08 05 05.7	+18 54 49		249
Geocentric position (AU)	-0.00138539	-0.00986563	-0.00397187		
C/1996 O2	1996 07 24.13265	08 05 44.2	+18 59 36		249
Geocentric position (AU)	-0.00138884	-0.00986378	-0.00397190		
C/1996 O2	1996 07 24.16352	08 06 30.2	+19 04 23		249
Geocentric position (AU)	-0.00139314	-0.00986146	-0.00397194		
C/1996 O2	1996 07 24.19956	08 07 18.7	+19 13 23		249
Geocentric position (AU)	-0.00139745	-0.00985915	-0.00397198		

C/1996 O3 (SOHO)

C/1996 O3	1996 07 25.12059	08 02 07.1	+17 32 48		249
Geocentric position (AU)	-0.00151200	-0.00979694	-0.00397261		
C/1996 O3	1996 07 25.15159	08 02 35.1	+17 34 37		249
Geocentric position (AU)	-0.00151637	-0.00979454	-0.00397262		
C/1996 O3	1996 07 25.18253	08 03 00.1	+17 37 57		249
Geocentric position (AU)	-0.00151987	-0.00979262	-0.00397262		
C/1996 O3	1996 07 25.21348	08 03 30.8	+17 41 04		249
Geocentric position (AU)	-0.00152424	-0.00979022	-0.00397263		
C/1996 O3	1996 07 25.24951	08 03 58.8	+17 44 49		249
Geocentric position (AU)	-0.00152862	-0.00978782	-0.00397264		
C/1996 O3	1996 07 25.27532	08 04 21.8	+17 47 15		249
Geocentric position (AU)	-0.00153212	-0.00978589	-0.00397264		
C/1996 O3	1996 07 25.34205	08 05 26.4	+17 55 30		249
Geocentric position (AU)	-0.00154000	-0.00978155	-0.00397265		
C/1996 O3	1996 07 25.37541	08 05 57.1	+17 58 17		249
Geocentric position (AU)	-0.00154438	-0.00977914	-0.00397266		

C/1996 O4 (SOHO)

C/1996 O4	1996 07 27.03131	08 05 59.4	+16 28 23		249
Geocentric position (AU)	-0.00175677	-0.00966062	-0.00397165		
C/1996 O4	1996 07 27.07355	08 06 30.0	+16 32 28		249
Geocentric position (AU)	-0.00176218	-0.00965756	-0.00397159		
C/1996 O4	1996 07 27.11968	08 07 08.5	+16 36 46		249
Geocentric position (AU)	-0.00176760	-0.00965451	-0.00397153		
C/1996 O4	1996 07 27.15632	08 07 39.2	+16 40 04		249
Geocentric position (AU)	-0.00177301	-0.00965145	-0.00397148		
C/1996 O4	1996 07 27.62216	08 14 29.0	+17 25 31		249
Geocentric position (AU)	-0.00183383	-0.00961703	-0.00397072		
C/1996 O4	1996 07 27.63339	08 14 40.0	+17 26 50		249
Geocentric position (AU)	-0.00183474	-0.00961651	-0.00397071		
C/1996 O4	1996 07 27.66325	08 15 15.1	+17 30 25		249
Geocentric position (AU)	-0.00183930	-0.00961392	-0.00397065		
C/1996 O4	1996 07 27.81318	08 17 57.2	+17 48 36		249
Geocentric position (AU)	-0.00185849	-0.00960303	-0.00397037		
C/1996 O4	1996 07 27.83899	08 18 28.2	+17 52 11		249
Geocentric position (AU)	-0.00186215	-0.00960095	-0.00397031		
C/1996 O4	1996 07 27.93958	08 20 33.2	+18 05 27		249
Geocentric position (AU)	-0.00187499	-0.00959365	-0.00397011		
C/1996 O4	1996 07 27.97343	08 21 21.5	+18 10 19		249
Geocentric position (AU)	-0.00187958	-0.00959104	-0.00397004		
C/1996 O4	1996 07 28.00837	08 22 11.1	+18 15 57		249
Geocentric position (AU)	-0.00188417	-0.00958843	-0.00396996		

C/1996 P2 (Russell-Watson)						
C/1996 P2	1997 08 26.76817	03 49 26.46	-07 15 24.5	18.7 T	402	
C/1996 P2	1997 08 26.77164	03 49 26.48	-07 15 24.7		402	
C/1996 P2	1997 08 26.77512	03 49 26.51	-07 15 25.6		402	
C/1996 P2	1997 08 31.77238	03 49 42.91	-07 31 13.9	18.6 T	360	
C/1996 P2	1997 08 31.78418	03 49 42.91	-07 31 16.0		360	
C/1996 P2	1997 08 31.79234	03 49 42.93	-07 31 17.7		360	

C/1997 A1 (NEAT)						
C/1997 A1	1997 08 25.79030	06 59 19.32	+47 34 23.0		867	
C/1997 A1	1997 08 25.80315	06 59 19.33	+47 34 31.7	18.2 T	867	
C/1997 A1	1997 09 02.04640	06 58 41.05	+49 01 15.5		118	
C/1997 A1	1997 09 02.05520	06 58 40.95	+49 01 22.5		118	
C/1997 A1	1997 09 02.06355	06 58 40.85	+49 01 28.3	18.0 T	118	
C/1997 A1	1997 09 02.78544	06 58 32.98	+49 10 40.9		867	
C/1997 A1	1997 09 02.79343	06 58 32.88	+49 10 46.6	18.1 T	867	
C/1997 A1	1997 09 04.04138	06 58 17.24	+49 26 52.5		2 118	
C/1997 A1	1997 09 04.04556	06 58 17.23	+49 26 56.4		2 118	
C/1997 A1	1997 09 04.05089	06 58 17.07	+49 27 00.8	17.5 T	2 118	

P/1997 B1 (Kobayashi)						
P/1997 B1	1997 03 24.56830	09 37 54.83	+09 04 17.0	17.5 T	897	
P/1997 B1	1997 04 10.57528	09 44 24.47	+06 31 06.1		897	
P/1997 B1	1997 04 10.59606	09 44 25.21	+06 30 54.4		897	

C/1997 D1 (Mueller)						
C/1997 D1	1997 04 10.62424	09 37 21.60	+52 48 44.7		897	
C/1997 D1	1997 04 10.63299	09 37 19.94	+52 48 38.5		897	
C/1997 D1	1997 04 10.64594	09 37 17.51	+52 48 30.6	14.1 T	897	
C/1997 D1	1997 04 23.55352	09 03 30.52	+50 03 33.8	13.3 T	897	
C/1997 D1	1997 04 23.56869	09 03 28.43	+50 03 20.6		897	
C/1997 D1	1997 04 23.59216	09 03 25.52	+50 03 00.2		897	
C/1997 D1	1997 05 01.91525	08 48 09.41	+48 00 54.0	13.9 T	967	
C/1997 D1	1997 05 01.92318	08 48 08.67	+48 00 48.3	13.9 T	967	
C/1997 D1	1997 05 01.92831	08 48 08.18	+48 00 43.1	14.2 T	967	
C/1997 D1	1997 05 02.94465	08 46 34.50	+47 45 32.2	14.1 T	967	
C/1997 D1	1997 05 02.96091	08 46 33.05	+47 45 17.3	14.0 T	967	
C/1997 D1	1997 05 02.96953	08 46 32.30	+47 45 10.4	14.0 T	967	
C/1997 D1	1997 06 06.48589	08 20 20.05	+39 39 19.6	14.3 T	897	
C/1997 D1	1997 06 06.49022	08 20 20.06	+39 39 15.5		897	
C/1997 D1	1997 09 04.11715	08 27 29.19	+24 09 20.8		118	
C/1997 D1	1997 09 04.12251	08 27 29.17	+24 09 17.4		118	
C/1997 D1	1997 09 04.12530	08 27 29.16	+24 09 16.0	14.5 T	118	
C/1997 D1	1997 09 06.12336	08 27 20.24	+23 49 15.9		118	
C/1997 D1	1997 09 06.12929	08 27 20.21	+23 49 12.2		118	
C/1997 D1	1997 09 06.13229	08 27 20.21	+23 49 10.7	13.6 T	118	

C/1997 G2 (Montani)						
C/1997 G2	1997 06 06.60616	15 07 42.79	-12 34 56.5	18.0 T	897	
C/1997 G2	1997 06 06.62094	15 07 41.92	-12 35 02.0		897	

C/1997 J1 (Mueller)						
C/1997 J1	1997 06 06.53512	09 21 02.65	+60 19 18.6	12.7 T	897	
C/1997 J1	1997 06 06.53972	09 21 02.43	+60 19 11.3		897	
C/1997 J1	1997 08 25.10317	09 27 33.72	+40 38 07.2		118	

C/1997 J1	1997 08 25.10656	09 27 33.76	+40 38 05.5		118	
C/1997 J1	1997 08 25.10991	09 27 33.84	+40 38 04.1	14.5 T	118	
C/1997 J1	1997 09 04.09588	09 29 32.54	+39 24 33.1		118	
C/1997 J1	1997 09 04.10152	09 29 32.61	+39 24 31.0		118	
C/1997 J1	1997 09 04.10772	09 29 32.68	+39 24 28.8	14.6 T	118	

C/1997 J2 (Meunier-Dupouy)						
C/1997 J2	1997 05 18.51547	10 48 10.57	+73 21 52.6	12.8 T	897	
C/1997 J2	1997 05 18.52013	10 48 10.50	+73 21 52.0		897	
C/1997 J2	1997 06 06.56171	10 51 07.78	+72 05 44.9		897	
C/1997 J2	1997 06 06.56911	10 51 07.93	+72 05 43.0	12.7 T	897	
C/1997 J2	1997 06 06.58727	10 51 08.51	+72 05 37.5		897	
C/1997 J2	1997 08 03.17980	12 17 15.70	+67 31 45.7		762	
C/1997 J2	1997 08 03.18845	12 17 16.74	+67 31 42.7		762	
C/1997 J2	1997 08 08.81954	12 30 12.65	+67 01 55.9		616	
C/1997 J2	1997 08 08.82906	12 30 13.84	+67 01 53.6		616	
C/1997 J2	1997 08 08.84067	12 30 15.48	+67 01 49.4		616	
C/1997 J2	1997 08 08.88003	12 30 20.71	+67 01 37.9		954	
C/1997 J2	1997 08 08.88934	12 30 22.06	+67 01 34.6		954	
C/1997 J2	1997 08 08.89834	12 30 23.29	+67 01 32.1		954	
C/1997 J2	1997 08 10.85603	12 35 02.22	+66 50 52.9	13.2 T	605	
C/1997 J2	1997 08 10.87214	12 35 04.63	+66 50 47.7	13.2 T	605	
C/1997 J2	1997 08 12.82270	12 39 46.83	+66 40 05.5	13.7 T	118	
C/1997 J2	1997 08 12.82440	12 39 47.27	+66 40 05.2		046	
C/1997 J2	1997 08 12.82668	12 39 47.57	+66 40 04.8		046	
C/1997 J2	1997 08 12.82880	12 39 47.90	+66 40 03.9		046	
C/1997 J2	1997 08 12.83241	12 39 48.26	+66 40 02.5		118	
C/1997 J2	1997 08 13.82692	12 42 14.13	+66 34 31.0		118	
C/1997 J2	1997 08 13.83919	12 42 15.84	+66 34 27.0	14.3 T	118	
C/1997 J2	1997 08 13.86066	12 42 19.04	+66 34 19.3		118	
C/1997 J2	1997 08 17.47311	12 51 18.27	+66 13 51.5	12.0 T	367	
C/1997 J2	1997 08 17.47483	12 51 18.53	+66 13 51.2		367	
C/1997 J2	1997 08 17.47656	12 51 18.70	+66 13 50.7		367	
C/1997 J2	1997 08 18.47205	12 53 49.55	+66 08 07.8	12.6 T	367	
C/1997 J2	1997 08 18.47379	12 53 49.84	+66 08 07.2		367	
C/1997 J2	1997 08 18.47552	12 53 50.05	+66 08 07.1		367	
C/1997 J2	1997 08 19.11671	12 55 28.12	+66 04 22.6		762	
C/1997 J2	1997 08 19.12351	12 55 29.05	+66 04 20.0		762	
C/1997 J2	1997 08 20.45245	12 58 53.50	+65 56 33.1	12.5 T	402	
C/1997 J2	1997 08 20.45454	12 58 53.81	+65 56 32.3		402	
C/1997 J2	1997 08 20.45662	12 58 54.15	+65 56 31.6		402	
C/1997 J2	1997 08 20.98211	13 00 15.55	+65 53 22.2		118	
C/1997 J2	1997 08 20.98906	13 00 16.62	+65 53 19.8	12.5 T	118	
C/1997 J2	1997 08 22.45208	13 04 04.63	+65 44 38.9		360	
C/1997 J2	1997 08 22.45556	13 04 05.17	+65 44 37.6		360	
C/1997 J2	1997 08 23.85811	13 07 45.93	+65 36 07.3	12.0 T	628	
C/1997 J2	1997 08 23.87895	13 07 49.23	+65 35 59.4	12.0 T	628	
C/1997 J2	1997 08 23.89978	13 07 52.49	+65 35 50.9	12.1 T	628	
C/1997 J2	1997 08 23.92061	13 07 55.71	+65 35 43.8	12.0 T	628	
C/1997 J2	1997 08 24.46181	13 09 21.61	+65 32 26.9	12.6 T	360	
C/1997 J2	1997 08 24.46493	13 09 22.12	+65 32 25.7		360	
C/1997 J2	1997 08 24.46541	13 09 22.22	+65 32 26.4	12.4 T	900	
C/1997 J2	1997 08 24.48045	13 09 24.53	+65 32 20.5		900	

C/1997 J2	1997 08 24.49223	13 09 26.40	+65 32 15.1	12.0 T	402
C/1997 J2	1997 08 24.49501	13 09 26.86	+65 32 14.1		402
C/1997 J2	1997 08 24.49779	13 09 27.29	+65 32 13.1		402
C/1997 J2	1997 08 24.83797	13 10 21.31	+65 30 08.0	12.8 T	628
C/1997 J2	1997 08 24.85117	13 10 23.22	+65 30 02.1	12.9 T	628
C/1997 J2	1997 08 24.86436	13 10 25.66	+65 29 58.1	12.7 T	628
C/1997 J2	1997 08 24.86992	13 10 26.45	+65 29 56.3	12.6 T	628
C/1997 J2	1997 08 27.46059	13 17 22.54	+65 13 46.0	12.2 T	367
C/1997 J2	1997 08 27.46198	13 17 22.69	+65 13 45.4		367
C/1997 J2	1997 08 27.46342	13 17 22.93	+65 13 45.0		367
C/1997 J2	1997 08 29.90720	13 24 01.57	+64 58 03.4	12.6 T	628
C/1997 J2	1997 08 29.92942	13 24 05.15	+64 57 55.1	12.8 T	628
C/1997 J2	1997 08 29.95928	13 24 10.14	+64 57 43.8	12.8 T	628
C/1997 J2	1997 08 31.82387	13 29 18.46	+64 45 30.8	13.0 T	628
C/1997 J2	1997 08 31.84053	13 29 21.19	+64 45 23.8	13.2 T	628
C/1997 J2	1997 08 31.88775	13 29 29.00	+64 45 04.5	13.4 T	628
C/1997 J2	1997 08 31.91970	13 29 34.40	+64 44 51.5	13.2 T	628
C/1997 J2	1997 09 03.95399	13 38 02.45	+64 24 23.5		3 118
C/1997 J2	1997 09 03.96052	13 38 03.48	+64 24 21.1		3 118
C/1997 J2	1997 09 03.96650	13 38 04.50	+64 24 18.7	13.4 T	3 118
C/1997 J2	1997 09 04.44892	13 39 27.00	+64 21 01.5	12.8 T	402
C/1997 J2	1997 09 04.45101	13 39 27.32	+64 21 00.3		402
C/1997 J2	1997 09 04.45309	13 39 27.68	+64 20 59.6		402
C/1997 J2	1997 09 04.83087	13 40 31.86	+64 18 22.0		118
C/1997 J2	1997 09 04.83949	13 40 33.30	+64 18 18.0		118
C/1997 J2	1997 09 06.84262	13 46 15.37	+64 04 15.3	12.2 T	628
C/1997 J2	1997 09 06.87525	13 46 21.00	+64 04 01.5	12.4 T	628
C/1997 J2	1997 09 06.90095	13 46 25.39	+64 03 50.4	12.6 T	628
C/1997 J2	1997 09 07.85530	13 49 09.67	+63 57 02.5		118
C/1997 J2	1997 09 07.86091	13 49 10.66	+63 56 59.8	12.9 T	118
C/1997 J2	1997 09 08.44531	13 50 51.53	+63 52 48.6	12.4 T	367
C/1997 J2	1997 09 08.44705	13 50 51.82	+63 52 47.8		367
C/1997 J2	1997 09 08.44878	13 50 52.17	+63 52 47.0		367
C/1997 J2	1997 09 08.45052	13 50 52.46	+63 52 46.3		367
C/1997 J2	1997 09 08.78131	13 51 49.85	+63 50 22.1	14.4 T	118
C/1997 J2	1997 09 08.79147	13 51 51.63	+63 50 18.2	14.0 T	118
C/1997 J2	1997 09 08.81762	13 51 56.01	+63 50 05.7	12.3 T	628
C/1997 J2	1997 09 08.83359	13 51 58.82	+63 49 58.8	12.1 T	628
C/1997 J2	1997 09 08.85303	13 52 02.16	+63 49 49.7	12.0 T	628
C/1997 J2	1997 09 10.85373	13 57 50.40	+63 35 07.3	12.8 T	628
C/1997 J2	1997 09 10.87387	13 57 53.90	+63 34 58.4	12.6 T	628
C/1997 J2	1997 09 10.89609	13 57 57.89	+63 34 48.1	12.5 T	628
C/1997 J2	1997 09 12.76683	14 03 26.37	+63 20 45.2		118
C/1997 J2	1997 09 12.76875	14 03 26.63	+63 20 44.3		118

C/1997 L1 (Xinglong)

C/1997 L1	1997 08 22.46441	15 21 41.90	+00 21 27.6		360
C/1997 L1	1997 08 24.47465	15 22 21.81	+00 24 47.1	17.9 T	360
C/1997 L1	1997 08 24.48316	15 22 21.97	+00 24 48.3		360
C/1997 L1	1997 08 25.46389	15 22 42.30	+00 26 20.7	18.1 T	402
C/1997 L1	1997 08 25.46667	15 22 42.28	+00 26 21.3		402
C/1997 L1	1997 08 25.46944	15 22 42.37	+00 26 21.4		402
C/1997 L1	1997 09 04.46304	15 26 38.29	+00 40 05.2	18.9 T	402

C/1997 L1	1997 09 04.46652	15 26 38.43	+00 40 03.7		402
C/1997 L1	1997 09 04.46999	15 26 38.61	+00 40 04.3		402

C/1997 O1 (Tilbrook)

C/1997 O1	1997 08 02.01106	12 40 26.24	-10 48 59.9		861
C/1997 O1	1997 08 02.01795	12 40 26.99	-10 48 44.1		861
C/1997 O1	1997 08 12.43949	12 57 36.58	-05 06 54.9	13.1 T	402
C/1997 O1	1997 08 12.44083	12 57 36.66	-05 06 52.2		402
C/1997 O1	1997 08 12.44339	12 57 36.86	-05 06 48.2		402
C/1997 O1	1997 08 12.44730	12 57 37.30	-05 06 36.8		422
C/1997 O1	1997 08 12.44813	12 57 37.38	-05 06 35.3		422
C/1997 O1	1997 08 20.44182	13 09 02.56	-01 47 24.1		402
C/1997 O1	1997 08 20.44311	13 09 02.74	-01 47 22.2		402
C/1997 O1	1997 08 20.44450	13 09 02.81	-01 47 21.7		402
C/1997 O1	1997 08 24.44920	13 14 24.03	-00 22 15.4	12.3 T	402
C/1997 O1	1997 08 24.45059	13 14 24.05	-00 22 13.8		402
C/1997 O1	1997 08 24.45139	13 14 24.17	-00 22 12.5		360
C/1997 O1	1997 08 24.45198	13 14 24.27	-00 22 11.8		402
C/1997 O1	1997 08 24.45486	13 14 24.41	-00 22 08.8		360
C/1997 O1	1997 08 24.45694	13 14 24.60	-00 22 06.0		360
C/1997 O1	1997 08 25.45225	13 15 42.65	-00 02 12.8	13.7 T	402
C/1997 O1	1997 08 25.45363	13 15 42.74	-00 02 11.1		402
C/1997 O1	1997 08 25.45502	13 15 42.84	-00 02 09.4		402
C/1997 O1	1997 08 26.79346	13 17 26.92	+00 23 50.8		046
C/1997 O1	1997 08 26.79655	13 17 27.11	+00 23 53.5		046
C/1997 O1	1997 08 26.79773	13 17 27.19	+00 23 55.9		046
C/1997 O1	1997 08 26.79876	13 17 27.28	+00 23 56.4		046
C/1997 O1	1997 08 27.44359	13 18 16.98	+00 36 13.1		367
C/1997 O1	1997 08 27.44635	13 18 17.24	+00 36 15.6		367
C/1997 O1	1997 08 27.44914	13 18 17.45	+00 36 18.8		367
C/1997 O1	1997 08 27.45035	13 18 17.48	+00 36 20.1	12.2 T	360
C/1997 O1	1997 08 27.45243	13 18 17.68	+00 36 22.3		360
C/1997 O1	1997 08 27.45556	13 18 17.90	+00 36 25.7		360
C/1997 O1	1997 08 29.38928	13 20 45.59	+01 12 11.6	16.3 N 4	422
C/1997 O1	1997 08 29.39057	13 20 45.72	+01 12 12.9	16.4 N 4	422
C/1997 O1	1997 09 01.80310	13 25 02.16	+02 11 34.2		587
C/1997 O1	1997 09 01.80414	13 25 02.19	+02 11 34.1		587
C/1997 O1	1997 09 01.80507	13 25 02.22	+02 11 35.6		587
C/1997 O1	1997 09 02.42676	13 25 48.30	+02 22 03.1	13.2 T	402
C/1997 O1	1997 09 02.42884	13 25 48.43	+02 22 04.5		402
C/1997 O1	1997 09 02.43420	13 25 48.83	+02 22 08.1		402
C/1997 O1	1997 09 04.43545	13 28 16.23	+02 54 46.2	13.0 T	402
C/1997 O1	1997 09 04.43684	13 28 16.31	+02 54 48.5		402
C/1997 O1	1997 09 04.43823	13 28 16.41	+02 54 48.9		402

C/1997 P2 (Spacewatch)

C/1997 P2	1997 08 12.24372	21 40 04.76	-06 37 47.8	18.6 T	691
C/1997 P2	1997 08 12.26467	21 40 04.28	-06 37 45.0	19.0 T	691
C/1997 P2	1997 08 12.28579	21 40 03.67	-06 37 44.7	19.0 T	691
C/1997 P2	1997 08 13.33624	21 39 36.76	-06 36 39.3		658
C/1997 P2	1997 08 13.35463	21 39 36.28	-06 36 37.1		658
C/1997 P2	1997 08 13.36181	21 39 36.08	-06 36 36.8		658
C/1997 P2	1997 08 13.91872	21 39 21.79	-06 36 03.4		557

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C/1997 P2	1997 08 13.92189	21 39 21.73	-06 36 03.5		557
C/1997 P2	1997 08 13.94134	21 39 21.22	-06 36 02.0	18.7 T	557
C/1997 P2	1997 08 13.97203	21 39 20.37	-06 35 59.1	18.8 T	046
C/1997 P2	1997 08 13.97407	21 39 20.30	-06 35 59.5		046
C/1997 P2	1997 08 13.97853	21 39 20.17	-06 35 58.8		046
C/1997 P2	1997 08 13.98238	21 39 20.16	-06 35 58.6		046
C/1997 P2	1997 08 13.99083	21 39 19.96	-06 35 57.4	18.8 T	2 118
C/1997 P2	1997 08 14.00556	21 39 19.48	-06 35 57.4		2 118
C/1997 P2	1997 08 14.35472	21 39 10.56	-06 35 37.6		658
C/1997 P2	1997 08 14.36322	21 39 10.31	-06 35 37.1		658
C/1997 P2	1997 08 14.37449	21 39 10.01	-06 35 35.9		658
C/1997 P2	1997 08 15.33679	21 38 45.22	-06 34 40.0		658
C/1997 P2	1997 08 15.34522	21 38 45.13	-06 34 38.9		658
C/1997 P2	1997 08 15.35017	21 38 44.88	-06 34 39.4		658
C/1997 P2	1997 08 16.42869	21 38 16.96	-06 33 38.7		658
C/1997 P2	1997 08 16.43883	21 38 16.83	-06 33 39.2		658
C/1997 P2	1997 08 16.44385	21 38 16.76	-06 33 38.5		658
C/1997 P2	1997 08 22.86732	21 35 33.01	-06 28 29.4		2 118
C/1997 P2	1997 08 22.87416	21 35 32.90	-06 28 28.6		2 118
C/1997 P2	1997 08 22.88282	21 35 32.65	-06 28 28.7	19.0 T	2 118
C/1997 P2	1997 08 24.61744	21 34 49.45	-06 27 17.8	18.7 T	402
C/1997 P2	1997 08 24.62091	21 34 49.35	-06 27 17.8		402
C/1997 P2	1997 08 24.62439	21 34 49.29	-06 27 17.8		402
C/1997 P2	1997 08 25.58131	21 34 25.78	-06 26 39.3	19.2 T	402
C/1997 P2	1997 08 25.59669	21 34 25.36	-06 26 38.9		402
C/1997 P2	1997 08 25.60016	21 34 25.28	-06 26 39.7		402
C/1997 P2	1997 08 25.60855	21 34 25.13	-06 26 37.6		402
C/1997 P2	1997 08 25.61204	21 34 24.89	-06 26 38.6		402
C/1997 P2	1997 08 26.61424	21 34 00.59	-06 26 00.4	18.9 T	360
C/1997 P2	1997 08 26.62865	21 34 00.26	-06 25 59.9		360
C/1997 P2	1997 08 26.63733	21 34 00.01	-06 25 59.3		360
C/1997 P2	1997 08 26.68358	21 33 58.85	-06 25 58.0	19.0 T	402
C/1997 P2	1997 08 26.68774	21 33 58.77	-06 25 58.6		402
C/1997 P2	1997 08 26.69191	21 33 58.68	-06 25 56.1		402
C/1997 P2	1997 08 26.91352	21 33 53.35	-06 25 50.3	19.2 T	046
C/1997 P2	1997 08 26.91645	21 33 53.30	-06 25 50.5		046
C/1997 P2	1997 08 26.92590	21 33 53.07	-06 25 50.5		046
C/1997 P2	1997 08 27.54080	21 33 38.38	-06 25 26.3	19.1 T	402
C/1997 P2	1997 08 27.55191	21 33 38.09	-06 25 26.0		402
C/1997 P2	1997 08 27.57126	21 33 37.55	-06 25 26.2		402
C/1997 P2	1997 08 27.59948	21 33 36.89	-06 25 25.0	18.7 T	360
C/1997 P2	1997 08 27.60625	21 33 36.71	-06 25 24.9		360
C/1997 P2	1997 08 27.61389	21 33 36.49	-06 25 24.2		360
C/1997 P2	1997 08 27.63683	21 33 35.97	-06 25 23.0	19.8 T	867
C/1997 P2	1997 08 27.64551	21 33 35.74	-06 25 22.3		867
C/1997 P2	1997 08 27.65523	21 33 35.45	-06 25 22.3		867
C/1997 P2	1997 08 27.67259	21 33 35.08	-06 25 21.3		867
C/1997 P2	1997 08 27.92564	21 33 29.07	-06 25 13.9	19.4 T	046
C/1997 P2	1997 08 27.92840	21 33 29.05	-06 25 12.5		046
C/1997 P2	1997 08 27.93153	21 33 28.91	-06 25 13.3		046
C/1997 P2	1997 08 27.93804	21 33 28.80	-06 25 12.8		046
C/1997 P2	1997 08 28.60938	21 33 12.93	-06 24 48.9	18.7 T	360

C/1997 P2	1997 08 28.61701	21 33 12.72	-06 24 48.8		360
C/1997 P2	1997 08 28.62188	21 33 12.61	-06 24 48.3		360
C/1997 P2	1997 08 28.66472	21 33 11.51	-06 24 47.1	19.5 T	402
C/1997 P2	1997 08 28.67028	21 33 11.38	-06 24 46.9		402
C/1997 P2	1997 08 28.67583	21 33 11.22	-06 24 46.3		402
C/1997 P2	1997 08 30.93326	21 32 19.02	-06 23 31.3	19.2 T	046
C/1997 P2	1997 08 30.93523	21 32 19.00	-06 23 31.5		046
C/1997 P2	1997 09 01.91568	21 31 34.80	-06 22 29.5	19.5 T	046
C/1997 P2	1997 09 01.91779	21 31 34.68	-06 22 28.8		046
C/1997 P2	1997 09 01.92034	21 31 34.65	-06 22 28.4		046
C/1997 P2	1997 09 01.92321	21 31 34.45	-06 22 28.3		046
C/1997 P2	1997 09 04.52576	21 30 38.94	-06 21 11.8	19.6 T	402
C/1997 P2	1997 09 04.53132	21 30 38.85	-06 21 09.9		402
C/1997 P2	1997 09 04.54243	21 30 38.57	-06 21 09.0		402
C/1997 P2	1997 09 04.61510	21 30 37.07	-06 21 07.0	18.7 T	360
C/1997 P2	1997 09 04.62083	21 30 36.96	-06 21 07.6		360
C/1997 P2	1997 09 04.63438	21 30 36.62	-06 21 05.9		360
C/1997 P2	1997 09 10.32541	21 28 47.49	-06 18 22.2		658
C/1997 P2	1997 09 10.33365	21 28 47.36	-06 18 21.8		658
C/1997 P2	1997 09 10.33947	21 28 47.21	-06 18 21.2		658

C/1997 Q1 (SOHO)

C/1997 Q1	1997 08 31.39891	10 15 08.6	+07 15 47		249
Geocentric position (AU)	-0.00781780	-0.00282725	-0.00202664		
C/1997 Q1	1997 08 31.41841	10 15 26.8	+07 17 21		249
Geocentric position (AU)	-0.00782031	-0.00282168	-0.00202428		
C/1997 Q1	1997 08 31.44207	10 16 04.0	+07 17 48		249
Geocentric position (AU)	-0.00782365	-0.00281425	-0.00202113		
C/1997 Q1	1997 08 31.47241	10 16 39.4	+07 18 47		249
Geocentric position (AU)	-0.00782699	-0.00280682	-0.00201798		
C/1997 Q1	1997 08 31.49311	10 17 00.0	+07 19 49		249
Geocentric position (AU)	-0.00782949	-0.00280125	-0.00201562		
C/1997 Q1	1997 08 31.52853	10 17 45.2	+07 21 04		249
Geocentric position (AU)	-0.00783365	-0.00279196	-0.00201168		
C/1997 Q1	1997 08 31.57506	10 18 47.9	+07 23 55		249
Geocentric position (AU)	-0.00783946	-0.00277894	-0.00200615		
C/1997 Q1	1997 08 31.61395	10 19 32.9	+07 24 35		249
Geocentric position (AU)	-0.00784360	-0.00276964	-0.00200220		
C/1997 Q1	1997 08 31.64522	10 20 21.4	+07 27 33		249
Geocentric position (AU)	-0.00784773	-0.00276033	-0.00199825		
C/1997 Q1	1997 08 31.66832	10 20 44.3	+07 29 04		249
Geocentric position (AU)	-0.00785020	-0.00275475	-0.00199587		
C/1997 Q1	1997 08 31.70562	10 21 38.2	+07 30 25		249
Geocentric position (AU)	-0.00785513	-0.00274357	-0.00199112		
C/1997 Q1	1997 08 31.75700	10 22 47.3	+07 32 46		249
Geocentric position (AU)	-0.00786087	-0.00273053	-0.00198557		
C/1997 Q1	1997 08 31.78897	10 23 31.3	+07 34 43		249
Geocentric position (AU)	-0.00786496	-0.00272121	-0.00198161		
C/1997 Q1	1997 08 31.81796	10 24 11.9	+07 36 39		249
Geocentric position (AU)	-0.00786822	-0.00271375	-0.00197843		
C/1997 Q1	1997 08 31.83762	10 24 43.0	+07 37 53		249
Geocentric position (AU)	-0.00787066	-0.00270815	-0.00197605		

C/1997 Q1	1997 08 31.85534	10 25 05.9	+07 38 31	249
Geocentric position (AU)	-0.00787229	-0.00270442	-0.00197446	
C/1997 Q1	1997 08 31.90856	10 26 28.4	+07 41 46	249
Geocentric position (AU)	-0.00787878	-0.00268949	-0.00196809	
C/1997 Q1	1997 08 31.93756	10 27 08.2	+07 43 04	249
Geocentric position (AU)	-0.00788201	-0.00268202	-0.00196491	
C/1997 Q2 (SOHO)				
C/1997 Q2	1997 08 22.77089	09 39 18.2	+09 52 19	249
Geocentric position (AU)	-0.00653799	-0.00496393	-0.00288416	
C/1997 Q2	1997 08 22.84670	09 40 32.0	+09 54 59	249
Geocentric position (AU)	-0.00655086	-0.00494676	-0.00287770	
C/1997 Q2	1997 08 22.90763	09 41 33.8	+09 58 02	249
Geocentric position (AU)	-0.00656137	-0.00493268	-0.00287240	
C/1997 Q2	1997 08 22.95317	09 42 19.0	+10 00 01	249
Geocentric position (AU)	-0.00656838	-0.00492329	-0.00286886	
C/1997 Q2	1997 08 22.98270	09 42 52.9	+10 00 51	249
Geocentric position (AU)	-0.00657421	-0.00491545	-0.00286590	
C/1997 Q2	1997 08 23.02888	09 43 42.7	+10 03 42	249
Geocentric position (AU)	-0.00658120	-0.00490603	-0.00286235	
C/1997 Q2	1997 08 23.06659	09 44 23.4	+10 05 19	249
Geocentric position (AU)	-0.00658819	-0.00489661	-0.00285879	
C/1997 Q2	1997 08 23.11471	09 45 18.6	+10 07 28	249
Geocentric position (AU)	-0.00659634	-0.00488560	-0.00285463	
C/1997 Q2	1997 08 23.17787	09 46 30.7	+10 11 53	249
Geocentric position (AU)	-0.00660680	-0.00487143	-0.00284927	
C/1997 Q2	1997 08 23.21216	09 47 05.4	+10 12 38	249
Geocentric position (AU)	-0.00661261	-0.00486355	-0.00284629	
C/1997 Q2	1997 08 23.26796	09 48 11.7	+10 16 07	249
Geocentric position (AU)	-0.00662190	-0.00485092	-0.00284150	
C/1997 Q2	1997 08 23.32565	09 49 17.2	+10 18 52	249
Geocentric position (AU)	-0.00663117	-0.00483828	-0.00283671	
C/1997 Q2	1997 08 23.37506	09 50 17.4	+10 21 27	249
Geocentric position (AU)	-0.00663928	-0.00482720	-0.00283250	
C/1997 Q2	1997 08 23.43164	09 51 29.5	+10 25 16	249
Geocentric position (AU)	-0.00664854	-0.00481452	-0.00282769	
C/1997 Q2	1997 08 23.52446	09 53 29.5	+10 30 16	249
Geocentric position (AU)	-0.00666472	-0.00479229	-0.00281924	
C/1997 Q2	1997 08 23.57575	09 54 37.2	+10 32 43	249
Geocentric position (AU)	-0.00667279	-0.00478116	-0.00281500	
C/1997 Q2	1997 08 23.62090	09 55 41.4	+10 36 18	249
Geocentric position (AU)	-0.00667971	-0.00477161	-0.00281136	
C/1997 Q2	1997 08 23.69625	09 57 32.1	+10 41 09	249
Geocentric position (AU)	-0.00669237	-0.00475407	-0.00280467	
C/1997 Q2	1997 08 23.77089	09 59 28.6	+10 46 32	249
Geocentric position (AU)	-0.00670502	-0.00473649	-0.00279796	
C/1997 Q2	1997 08 23.82847	10 01 05.1	+10 50 26	249
Geocentric position (AU)	-0.00671420	-0.00472369	-0.00279306	
C/1997 Q2	1997 08 23.86359	10 02 03.4	+10 53 29	249
Geocentric position (AU)	-0.00671994	-0.00471568	-0.00279000	
C/1997 Q2	1997 08 23.91517	10 03 44.3	+10 57 11	249
Geocentric position (AU)	-0.00672910	-0.00470285	-0.00278509	

C/1997 Q2	1997 08 23.93006	10 04 04.4	+10 55 40	249
Geocentric position (AU)	-0.00673139	-0.00469964	-0.00278386	
C/1997 Q2	1997 08 23.94034	10 04 25.9	+10 56 47	249
Geocentric position (AU)	-0.00673254	-0.00469803	-0.00278324	
C/1997 Q2	1997 08 23.96147	10 05 23.0	+11 01 54	249
Geocentric position (AU)	-0.00673597	-0.00469321	-0.00278139	
C/1997 Q2	1997 08 23.96936	10 05 29.8	+10 59 41	249
Geocentric position (AU)	-0.00673826	-0.00469000	-0.00278016	
C/1997 Q2	1997 08 23.98211	10 06 11.4	+11 03 37	249
Geocentric position (AU)	-0.00673940	-0.00468839	-0.00277955	
C/1997 Q2	1997 08 23.99346	10 06 24.6	+11 01 49	249
Geocentric position (AU)	-0.00674169	-0.00468518	-0.00277831	
C/1997 Q2	1997 08 24.00771	10 07 01.6	+11 03 21	249
Geocentric position (AU)	-0.00674397	-0.00468196	-0.00277708	
C/1997 Q2	1997 08 24.01881	10 07 32.2	+11 04 32	249
Geocentric position (AU)	-0.00674626	-0.00467874	-0.00277585	
C/1997 Q2	1997 08 24.03565	10 08 16.8	+11 06 19	249
Geocentric position (AU)	-0.00674854	-0.00467552	-0.00277461	

29P/Schwassmann-Wachmann 1

29P	1997 03 09.53958	12 00 21.40	-09 08 33.7	897
29P	1997 03 31.73215	11 50 44.46	-08 19 20.0	897
29P	1997 04 10.68409	11 46 45.95	-07 54 12.2	897
29P	1997 04 12.61495	11 46 03.17	-07 49 21.7	14.5 T 897
29P	1997 04 12.61744	11 46 03.09	-07 49 22.3	897
29P	1997 04 24.53969	11 42 12.28	-07 20 40.1	14.3 T 897
29P	1997 04 24.55010	11 42 12.10	-07 20 38.8	897
29P	1997 05 09.56600	11 39 00.98	-06 50 42.9	897
29P	1997 06 06.49698	11 38 49.16	-06 24 52.4	897
29P	1997 06 06.50875	11 38 49.22	-06 24 52.2	12.7 T 897

43P/Wolf-Harrington

43P	1997 08 16.79440	05 49 50.92	+28 20 59.0	13.2 T 367
43P	1997 08 16.79613	05 49 51.23	+28 20 58.3	367
43P	1997 08 16.79787	05 49 51.58	+28 20 57.9	367
43P	1997 08 22.06807	06 06 24.29	+27 39 04.4	118
43P	1997 08 22.07279	06 06 25.16	+27 39 01.8	118
43P	1997 08 22.07972	06 06 26.43	+27 38 58.4	13.3 T 118
43P	1997 08 26.11310	06 18 58.78	+27 00 58.0	118
43P	1997 08 26.11574	06 18 59.23	+27 00 56.4	14.3 T 118
43P	1997 08 28.80747	06 27 17.11	+26 32 42.3	13.4 T 360
43P	1997 08 28.80990	06 27 17.52	+26 32 40.8	360
43P	1997 09 02.80729	06 42 29.87	+25 34 22.0	867
43P	1997 09 02.80938	06 42 30.23	+25 34 20.4	867
43P	1997 09 04.13052	06 46 28.59	+25 17 38.2	118
43P	1997 09 04.13411	06 46 29.23	+25 17 35.4	118
43P	1997 09 04.13708	06 46 29.77	+25 17 33.2	13.5 T 118
43P	1997 09 06.09660	06 52 21.05	+24 51 51.3	118
43P	1997 09 06.10381	06 52 22.33	+24 51 45.3	118
43P	1997 09 06.10907	06 52 23.25	+24 51 41.1	12.5 T 118
43P	1997 09 08.12433	06 58 21.27	+24 24 04.2	118
43P	1997 09 08.12902	06 58 22.11	+24 24 00.2	13.0 T 118

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43P	1997 09 10.79722	07 06 11.06	+23 45 40.1	13.5 T	360
43P	1997 09 10.80729	07 06 12.81	+23 45 31.2		360

46P/Wirtanen

46P	1996 06 15.41237	22 14 02.87	-22 35 07.1	20.9 T	675
46P	1996 06 15.42728	22 14 03.12	-22 35 10.8	21.4 T	675
46P	1996 06 15.44270	22 14 03.37	-22 35 14.7	21.2 T	675
46P	1996 06 15.46312	22 14 03.70	-22 35 19.8	21.0 T	675
46P	1996 06 15.47873	22 14 03.96	-22 35 23.8	21.0 T	675
46P	1996 06 16.40722	22 14 19.80	-22 39 15.7	21.2 T	675
46P	1996 06 16.42255	22 14 20.05	-22 39 19.7	21.2 T	675
46P	1996 06 16.43951	22 14 20.30	-22 39 24.1	21.2 T	675
46P	1996 06 17.41345	22 14 35.68	-22 43 37.0	21.0 T	675
46P	1996 06 17.43127	22 14 35.93	-22 43 41.8	21.3 T	675
46P	1996 06 17.44892	22 14 36.18	-22 43 46.7	20.9 T	675
46P	1996 06 17.46704	22 14 36.43	-22 43 51.5	21.1 T	675
46P	1997 04 23.44131	05 21 55.39	+28 42 55.4		897
46P	1997 04 23.44733	05 21 57.22	+28 42 59.1		897
46P	1997 04 23.44959	05 21 57.82	+28 43 00.8		897
46P	1997 04 30.89655	05 57 15.48	+29 47 43.0	13.3 T	967
46P	1997 04 30.89936	05 57 15.74	+29 47 44.4	13.3 T	967
46P	1997 05 01.87234	06 01 50.23	+29 53 28.6	12.7 T	967
46P	1997 05 01.87521	06 01 50.86	+29 53 29.9	12.9 T	967
46P	1997 05 01.88080	06 01 52.75	+29 53 31.8	12.6 T	967
46P	1997 05 01.88385	06 01 53.31	+29 53 32.1	12.6 T	967
46P	1997 05 18.46679	07 16 41.35	+30 03 07.0	12.5 T	897
46P	1997 05 18.47027	07 16 42.09	+30 03 05.1		897
46P	1997 05 28.47999	07 57 46.42	+29 01 40.6		897

48P/Johnson

48P	1997 06 06.69012	19 42 39.74	-14 57 32.2	16.9 T	897
48P	1997 07 24.60730	19 16 51.37	-20 44 41.5		867
48P	1997 07 24.61182	19 16 51.18	-20 44 44.3		867
48P	1997 07 24.61564	19 16 51.01	-20 44 46.0	15.5 T	867
48P	1997 08 20.85384	19 05 34.56	-24 18 49.8		2 118
48P	1997 08 20.86164	19 05 34.48	-24 18 52.9	16.0 T	2 118
48P	1997 08 21.84922	19 05 31.66	-24 25 15.6		118
48P	1997 08 21.85357	19 05 31.67	-24 25 17.0		118
48P	1997 08 21.85929	19 05 31.64	-24 25 19.4	15.7 T	118
48P	1997 08 24.85523	19 05 34.12	-24 44 00.4		118
48P	1997 08 24.86105	19 05 34.13	-24 44 02.2		118
48P	1997 08 24.86505	19 05 34.16	-24 44 03.8	16.0 T	118
48P	1997 08 27.50226	19 05 50.18	-24 59 35.2	15.2 T	360
48P	1997 08 27.50677	19 05 50.20	-24 59 37.0		360

49P/Arend-Rigaux

49P	1997 08 27.62899	22 18 07.43	-24 14 37.5	19.5 T	360
49P	1997 08 27.63420	22 18 07.14	-24 14 40.3		360
49P	1997 08 27.63958	22 18 06.88	-24 14 43.4		360

65P/Gunn

65P	1997 08 11.69775	01 00 24.34	-07 17 22.5	15.7 T	900
65P	1997 08 11.71745	01 00 24.23	-07 17 26.3		900
65P	1997 08 12.02293	01 00 21.97	-07 18 27.5	16.0 T	046

65P	1997 08 12.02500	01 00 21.93	-07 18 27.8		046
65P	1997 08 12.02810	01 00 21.91	-07 18 28.4		046
65P	1997 08 15.09194	00 59 52.88	-07 29 04.9		118
65P	1997 08 15.09539	00 59 52.83	-07 29 05.9		118
65P	1997 08 15.09747	00 59 52.82	-07 29 06.2	16.9 T	118
65P	1997 08 23.01079	00 57 45.91	-07 59 48.7		118
65P	1997 08 23.01891	00 57 45.72	-07 59 50.9		118
65P	1997 08 23.02659	00 57 45.56	-07 59 52.7	16.6 T	118
65P	1997 08 25.00271	00 57 02.15	-08 08 08.4		5 118
65P	1997 08 25.00884	00 57 02.00	-08 08 10.5		5 118
65P	1997 08 25.01484	00 57 01.85	-08 08 11.7	16.4 T	5 118
65P	1997 08 26.69340	00 56 22.06	-08 15 23.4	15.2 T	360
65P	1997 08 26.69722	00 56 21.96	-08 15 24.5		360
65P	1997 08 28.67674	00 55 30.67	-08 24 02.3	15.3 T	360
65P	1997 08 28.68125	00 55 30.56	-08 24 03.5		360
65P	1997 08 31.09963	00 54 22.13	-08 34 48.1		557
65P	1997 08 31.10799	00 54 21.86	-08 34 50.2	15.5 T	557
65P	1997 09 04.66145	00 51 57.50	-08 55 20.8	15.4 T	900
65P	1997 09 04.68106	00 51 56.85	-08 55 26.0		900
65P	1997 09 09.71968	00 48 55.50	-09 18 10.4	15.4 T	900
65P	1997 09 09.73298	00 48 54.98	-09 18 13.1		900
65P	1997 09 10.69789	00 48 18.06	-09 22 32.4	14.7 T	402
65P	1997 09 10.70088	00 48 17.94	-09 22 33.0		402
65P	1997 09 10.70387	00 48 17.82	-09 22 33.6		402
65P	1997 09 12.05400	00 47 25.01	-09 28 32.9	14.3 T	046
65P	1997 09 12.05538	00 47 24.94	-09 28 33.3	16.4 N	046
65P	1997 09 12.05659	00 47 24.87	-09 28 33.5		046

74P/Smirnova-Chernykh

74P	1997 08 09.08747	01 28 40.76	+01 51 15.5		954
74P	1997 08 09.13519	01 28 40.81	+01 51 12.7		954
74P	1997 08 15.15015	01 28 34.57	+01 43 33.9		954
74P	1997 08 15.16693	01 28 34.52	+01 43 32.5		954
74P	1997 08 26.74021	01 27 00.67	+01 21 40.6	18.7 T	402
74P	1997 08 26.74368	01 27 00.64	+01 21 40.0		402
74P	1997 08 26.74715	01 27 00.55	+01 21 39.1		402

78P/Gehrels 2

78P	1997 08 14.08792	04 51 51.70	+20 56 08.9		616
78P	1997 08 14.09303	04 51 52.42	+20 56 10.1		616
78P	1997 08 14.09476	04 51 52.49	+20 56 10.5		616
78P	1997 08 21.07754	05 06 58.60	+20 57 47.2		118
78P	1997 08 21.08368	05 06 59.39	+20 57 47.3	12.6 T	118
78P	1997 08 22.03473	05 09 00.71	+20 57 27.9		118
78P	1997 08 22.04197	05 09 01.65	+20 57 27.7	12.7 T	118
78P	1997 08 23.06446	05 11 11.38	+20 57 00.0		118
78P	1997 08 23.06678	05 11 11.68	+20 56 59.8		118
78P	1997 08 23.07138	05 11 12.25	+20 56 59.7	12.4 T	118
78P	1997 08 27.10538	05 19 37.54	+20 53 40.9	14.0 T	118
78P	1997 08 27.10814	05 19 37.87	+20 53 40.5		118
78P	1997 08 28.80139	05 23 06.84	+20 51 37.8	12.5 T	360
78P	1997 08 28.80382	05 23 07.12	+20 51 37.7		360
78P	1997 09 02.07554	05 31 44.00	+20 44 43.6		118

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1997 SEPT.16

78P	1997 09 02.08203	05 31 44.78	+20 44 43.1	13.2 T	118	103P	1997 08 10.93860	18 51 46.12	+02 06 23.5	17.4 T	605
78P	1997 09 02.79977	05 33 10.11	+20 43 21.3		867	103P	1997 08 10.95029	18 51 45.31	+02 06 22.8	17.1 T	605
78P	1997 09 02.80243	05 33 10.44	+20 43 21.2		867	103P	1997 08 11.59648	18 51 01.03	+02 03 58.4	16.6 T	402
78P	1997 09 04.80191	05 37 06.01	+20 39 09.4	13.1 T	900	103P	1997 08 11.59857	18 51 00.91	+02 03 57.9		402
78P	1997 09 04.81105	05 37 07.04	+20 39 07.6		900	103P	1997 08 11.60065	18 51 00.73	+02 03 57.5		402
78P	1997 09 06.06416	05 39 33.00	+20 36 13.2		118	103P	1997 08 11.92366	18 50 39.01	+02 02 41.8		118
78P	1997 09 06.07675	05 39 34.46	+20 36 11.7		118	103P	1997 08 11.92640	18 50 38.80	+02 02 41.0	18.2 T	118
78P	1997 09 06.08436	05 39 35.33	+20 36 10.6	13.2 T	118	103P	1997 08 11.92941	18 50 38.60	+02 02 40.1		118
78P	1997 09 07.50492	05 42 18.85	+20 32 40.5		658	103P	1997 08 20.90892	18 41 48.72	+01 18 37.1		118
78P	1997 09 07.50810	05 42 19.24	+20 32 39.8		658	103P	1997 08 20.91641	18 41 48.34	+01 18 34.1		118
78P	1997 09 07.51256	05 42 19.73	+20 32 39.4		658	103P	1997 08 20.91998	18 41 48.14	+01 18 33.0	16.7 T	118
78P	1997 09 08.09834	05 43 26.71	+20 31 07.9		118	103P	1997 08 22.92475	18 40 12.62	+01 06 26.0		118
78P	1997 09 08.10385	05 43 27.35	+20 31 07.5		118	103P	1997 08 22.92699	18 40 12.50	+01 06 25.4		118
78P	1997 09 08.10869	05 43 27.87	+20 31 06.4	12.9 T	118	103P	1997 08 22.93178	18 40 12.27	+01 06 23.5	16.6 T	118
78P	1997 09 10.77847	05 48 28.72	+20 23 40.9	12.6 T	360	103P	1997 08 23.87288	18 39 30.82	+01 00 26.7	16.7 T	108
78P	1997 09 10.78125	05 48 29.02	+20 23 40.5		360	103P	1997 08 23.87902	18 39 30.42	+01 00 26.0		5 118
81P/Wild 2						103P	1997 08 23.88480	18 39 30.17	+01 00 23.9	17.0 T	5 118
81P	1997 03 24.51243	08 03 35.50	+21 58 03.8		897	103P	1997 08 23.90818	18 39 29.17	+01 00 13.7		108
81P	1997 03 24.56098	08 03 39.02	+21 58 00.7		897	103P	1997 08 24.51066	18 39 03.75	+00 56 22.2	16.3 T	900
81P	1997 04 10.94861	08 31 02.01	+21 11 41.1	10.8 T	967	103P	1997 08 24.51832	18 39 03.38	+00 56 19.0		900
81P	1997 04 10.95382	08 31 02.54	+21 11 40.3	10.8 T	967	103P	1997 08 24.52726	18 39 02.93	+00 56 15.9	15.9 T	360
81P	1997 04 10.95810	08 31 03.05	+21 11 39.1	10.8 T	967	103P	1997 08 24.53038	18 39 02.79	+00 56 14.6		360
81P	1997 04 10.96319	08 31 03.56	+21 11 36.8	10.8 T	967	103P	1997 08 26.99530	18 37 27.39	+00 39 42.4	17.4 T	118
81P	1997 04 10.96562	08 31 03.83	+21 11 36.8	10.8 T	967	103P	1997 08 26.99877	18 37 27.31	+00 39 40.8		118
81P	1997 04 30.93051	09 13 10.31	+18 59 22.1	11.3 T	967	103P	1997 09 05.84497	18 33 44.11	-00 34 27.6		4 118
81P	1997 04 30.93449	09 13 10.87	+18 59 20.2	11.5 T	967	103P	1997 09 05.85170	18 33 44.04	-00 34 31.0		5 118
81P	1997 04 30.94031	09 13 11.63	+18 59 16.9	11.4 T	967	104P/Kowal 2					
81P	1997 05 27.47502	10 18 05.99	+13 58 27.1		897	104P	1997 08 11.65815	22 54 48.93	+19 29 43.2	15.7 T	402
81P	1997 05 27.48323	10 18 07.27	+13 58 20.1		897	104P	1997 08 11.66043	22 54 48.81	+19 29 43.6		402
81P	1997 08 24.45487	13 56 01.50	-08 57 37.7	13.7 T	402	104P	1997 08 11.66271	22 54 48.76	+19 29 44.4		402
81P	1997 08 24.45627	13 56 01.67	-08 57 38.5		402	104P	1997 08 14.99879	22 52 46.08	+19 44 43.4		118
81P	1997 08 24.45766	13 56 01.85	-08 57 39.8		402	104P	1997 08 15.00295	22 52 45.89	+19 44 43.9	16.5 T	118
81P	1997 08 27.45260	14 02 57.12	-09 37 39.9		367	104P	1997 08 15.01168	22 52 45.56	+19 44 46.1		118
81P	1997 08 27.45550	14 02 57.50	-09 37 42.5		367	104P	1997 08 17.58324	22 51 00.35	+19 54 19.9	15.8 T	402
81P	1997 08 27.45851	14 02 57.94	-09 37 44.8		367	104P	1997 08 17.58602	22 51 00.23	+19 54 20.3		402
94P/Russell 4						104P	1997 08 19.92569	22 49 16.54	+20 01 22.9		118
94P	1997 04 10.65521	12 02 02.26	+10 10 39.6	15.9 T	897	104P	1997 08 19.93611	22 49 16.09	+20 01 24.4		118
94P	1997 04 10.67207	12 02 01.79	+10 10 38.6		897	104P	1997 08 21.93494	22 47 41.70	+20 06 08.1		118
100P/Hartley 1						104P	1997 08 21.94492	22 47 41.21	+20 06 09.3	16.0 T	118
100P	1997 03 31.74374	13 34 34.97	+16 46 58.0	15.0 T	897	104P	1997 08 22.94661	22 46 52.13	+20 08 04.4		118
100P	1997 03 31.77111	13 34 32.77	+16 46 40.1		897	104P	1997 08 22.95218	22 46 51.84	+20 08 04.9		118
100P	1997 04 24.59014	13 01 05.11	+10 15 08.3		897	104P	1997 08 22.96097	22 46 51.40	+20 08 06.0	15.8 T	118
100P	1997 04 24.59633	13 01 04.63	+10 15 01.1		897	104P	1997 08 23.92762	22 46 02.94	+20 09 38.5		108
100P	1997 05 09.63515	12 45 08.96	+04 27 26.9		897	104P	1997 08 23.93296	22 46 02.69	+20 09 39.3		108
100P	1997 05 09.64373	12 45 08.42	+04 27 14.5	14.6 T	897	104P	1997 08 23.94172	22 46 02.21	+20 09 40.1	16.4 T	108
100P	1997 05 27.57060	12 37 57.74	-02 50 34.5		897	104P	1997 08 24.68537	22 45 23.89	+20 10 37.8	14.9 T	402
103P/Hartley 2						104P	1997 08 24.68884	22 45 23.72	+20 10 38.7		402
103P	1997 07 24.57327	19 14 11.26	+02 28 54.9	17.0 T	867	104P	1997 08 24.69231	22 45 23.53	+20 10 38.9		402
103P	1997 07 24.57848	19 14 10.81	+02 28 55.1		867	104P	1997 08 24.93118	22 45 11.33	+20 10 53.6		118
103P	1997 07 24.58890	19 14 09.98	+02 28 56.1		867	104P	1997 08 24.93640	22 45 11.03	+20 10 54.1		118
						104P	1997 08 24.94370	22 45 10.64	+20 10 54.5	15.6 T	118
						104P	1997 08 25.89772	22 44 20.62	+20 11 48.0		118

1997 SEPT.16

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104P	1997 08 25.90277	22 44 20.34	+20 11 48.4	15.7 T	118	116P	1997 08 11.63200	19 07 37.05	-27 47 25.7		402
104P	1997 08 26.65816	22 43 39.94	+20 12 20.2	15.3 T	360	116P	1997 08 11.63409	19 07 36.98	-27 47 26.2		402
104P	1997 08 26.66111	22 43 39.76	+20 12 20.3		360	116P	1997 08 27.49392	19 02 58.10	-27 31 09.4	14.6 T	360
104P	1997 08 27.08034	22 43 16.92	+20 12 29.3	16.1 T	118	116P	1997 08 27.49757	19 02 58.07	-27 31 09.3		360
104P	1997 08 27.08416	22 43 16.70	+20 12 29.1		118	117P/Helin-Roman-Alu 1					
104P	1997 08 27.86365	22 42 34.53	+20 12 41.0	16.1 T	118	117P	1997 08 11.64817	20 40 14.42	-29 36 12.9	17.0 T	402
104P	1997 08 27.86858	22 42 34.23	+20 12 40.9	16.1 T	118	117P	1997 08 11.65027	20 40 14.36	-29 36 13.3		402
104P	1997 08 28.66111	22 41 50.26	+20 12 42.1	15.4 T	360	117P	1997 08 11.65235	20 40 14.29	-29 36 13.7		402
104P	1997 08 28.66424	22 41 50.07	+20 12 42.1		360	117P	1997 08 25.61887	20 32 25.56	-30 00 03.8	16.8 T	402
104P	1997 08 28.66958	22 41 49.73	+20 12 41.4	14.6 T	867	117P	1997 08 25.62095	20 32 25.57	-30 00 04.2		402
104P	1997 08 28.67676	22 41 49.29	+20 12 41.0		867	117P	1997 08 25.62344	20 32 25.46	-30 00 04.7		402
104P	1997 08 31.82131	22 38 50.23	+20 10 22.5	16.1 T	118	117P	1997 08 25.62344	20 32 25.46	-30 00 04.7		402
104P	1997 08 31.83108	22 38 49.65	+20 10 21.7		118	117P	1997 08 28.58509	20 31 04.38	-30 02 27.4	17.0 T	867
104P	1997 08 31.99278	22 38 40.01	+20 10 09.0	15.9 T	605	117P	1997 08 28.59134	20 31 04.23	-30 02 27.4		867
104P	1997 08 31.99743	22 38 39.72	+20 10 08.7	15.6 T	605	117P	1997 09 04.53309	20 28 25.69	-30 04 18.3	16.5 T	900
104P	1997 09 01.00885	22 38 39.04	+20 10 07.5	15.4 T	605	117P	1997 09 04.56083	20 28 24.86	-30 04 18.8		900
104P	1997 09 01.01764	22 38 38.48	+20 10 07.3	15.5 T	605	121P/Shoemaker-Holt 2					
104P	1997 09 01.94377	22 37 44.28	+20 08 43.7		118	121P	1997 05 27.51716	10 39 03.68	+27 08 04.1	16.7 T	897
104P	1997 09 01.94852	22 37 43.98	+20 08 43.5	15.4 T	118	121P	1997 05 27.54503	10 39 05.00	+27 07 49.3		897
104P	1997 09 03.91378	22 35 47.03	+20 04 42.8		118	122P/de Vico					
104P	1997 09 03.92179	22 35 46.53	+20 04 41.6		118	122P	1995 10 12.15660	11 28 37.49	+24 37 20.8		045
104P	1997 09 03.92668	22 35 46.22	+20 04 40.7		118	122P	1995 10 12.15903	11 28 38.77	+24 37 28.5		045
104P	1997 09 03.93060	22 35 45.98	+20 04 40.2	15.2 T	118	122P	1995 10 12.16215	11 28 40.39	+24 37 41.1		045
104P	1997 09 04.97950	22 34 42.62	+20 01 56.6		118	122P	1995 10 12.16632	11 28 42.48	+24 37 54.6		045
104P	1997 09 04.98585	22 34 42.22	+20 01 55.7	15.0 T	118	122P	1995 10 13.15625	11 37 43.69	+25 32 59.1		045
104P	1997 09 05.80067	22 33 53.17	+19 59 31.5		118	122P	1995 10 13.16780	11 37 50.01	+25 33 33.7		045
104P	1997 09 05.80797	22 33 52.72	+19 59 30.3		118	122P	1995 10 13.16917	11 37 50.71	+25 33 39.1		045
104P	1997 09 05.81714	22 33 52.14	+19 59 28.7		118	122P	1995 10 13.16917	11 37 50.71	+25 33 39.1		045
104P	1997 09 06.97088	22 32 41.51	+19 55 40.4	15.5 T	605	122P	1995 10 13.17276	11 37 52.74	+25 33 53.1		045
104P	1997 09 06.98211	22 32 40.88	+19 55 39.5	15.3 T	605	122P	1995 10 22.16597	13 04 03.31	+30 56 31.8		045
104P	1997 09 06.98757	22 32 40.46	+19 55 36.7	15.6 T	605	122P	1995 10 23.16042	13 13 26.03	+31 11 53.4		045
104P	1997 09 07.90478	22 31 44.46	+19 52 14.7		118	122P	1995 10 24.16458	13 22 45.62	+31 23 37.4		045
104P	1997 09 07.91317	22 31 43.94	+19 52 12.8	14.4 T	118	122P	1995 10 24.16771	13 22 47.56	+31 23 35.9		045
104P	1997 09 09.55625	22 30 03.18	+19 45 26.0	15.1 T	360	122P	1995 10 25.16736	13 31 54.13	+31 31 45.4		045
104P	1997 09 09.55903	22 30 03.00	+19 45 25.2		360	128P/Shoemaker-Holt 1					
104P	1997 09 10.23610	22 29 21.41	+19 42 18.0		658	128P-B	1997 08 28.78229	04 17 58.38	+20 21 19.8	17.4 T	360
104P	1997 09 10.24281	22 29 21.01	+19 42 16.2		658	128P-B	1997 08 28.78663	04 17 58.60	+20 21 20.0		360
104P	1997 09 10.89255	22 28 41.11	+19 39 09.1	15.2 T	046	128P-B	1997 09 02.01267	04 21 40.28	+20 24 43.8	5	118
104P	1997 09 10.89385	22 28 40.99	+19 39 08.8		046	128P-B	1997 09 02.02390	04 21 40.85	+20 24 44.3	5	118
104P	1997 09 10.89516	22 28 40.92	+19 39 08.0		046	128P-B	1997 09 02.02939	04 21 41.13	+20 24 44.6	17.5 T	5 118
104P	1997 09 10.98366	22 28 35.29	+19 38 42.0	15.9 T	118	128P-B	1997 09 04.07312	04 23 22.51	+20 25 57.7		118
104P	1997 09 10.98788	22 28 35.04	+19 38 40.9		118	128P-B	1997 09 04.08310	04 23 22.99	+20 25 58.0	16.8 T	118
104P	1997 09 10.99060	22 28 34.83	+19 38 39.7		118	128P-B	1997 09 06.00773	04 24 54.83	+20 26 52.8		118
104P	1997 09 12.83174	22 26 42.53	+19 28 57.6		046	128P-B	1997 09 06.02108	04 24 55.44	+20 26 53.2		118
104P	1997 09 12.83494	22 26 42.35	+19 28 56.4		046	128P-B	1997 09 06.03186	04 24 55.93	+20 26 53.8	16.7 T	118
104P	1997 09 12.83708	22 26 42.21	+19 28 55.6		046	128P-B	1997 09 08.05609	04 26 28.48	+20 27 36.2		118
116P/Wild 4						128P-B	1997 09 08.06309	04 26 28.80	+20 27 36.4		118
116P	1997 06 06.75730	19 59 06.92	-25 59 48.7	15.8 T	897	128P-B	1997 09 08.07248	04 26 29.23	+20 27 36.8	16.5 T	118
116P	1997 06 06.76374	19 59 06.87	-25 59 49.8		897	128P-B	1997 09 10.75990	04 28 25.79	+20 28 10.0	17.0 T	360
116P	1997 07 24.62119	19 19 46.84	-27 47 02.5		867	128P-B	1997 09 10.76424	04 28 25.96	+20 28 10.1		360
116P	1997 07 24.62536	19 19 46.63	-27 47 02.4		867	128P-B	1997 09 12.07973	04 29 20.22	+20 28 15.5		118
116P	1997 08 11.62992	19 07 37.12	-27 47 26.1	15.7 T	402	128P-B	1997 09 12.08399	04 29 20.37	+20 28 15.5	17.1 T	118

128P-B	1997 09 12.08770	04 29 20.54	+20 28 15.4	118
128P-B	1997 09 13.07517	04 30 00.09	+20 28 15.2	046
128P-B	1997 09 13.07731	04 30 00.20	+20 28 16.0	046
128P-B	1997 09 13.08576	04 30 00.49	+20 28 16.3	046

131P/Mueller 2

131P	1997 08 11.69412	01 27 00.20	+14 25 04.3	18.6 T	402
131P	1997 08 11.69690	01 27 00.29	+14 25 05.2		402
131P	1997 08 11.69968	01 27 00.35	+14 25 04.9		402
131P	1997 08 25.76600	01 33 20.20	+14 47 06.1	18.1 T	867
131P	1997 08 25.77225	01 33 20.34	+14 47 05.9		867
131P	1997 08 25.77850	01 33 20.42	+14 47 06.2		867
131P	1997 08 26.75365	01 33 36.95	+14 47 23.6	18.7 T	360
131P	1997 08 26.77656	01 33 37.30	+14 47 22.9		360
131P	1997 08 27.65913	01 33 51.18	+14 47 28.8	18.3 T	402
131P	1997 08 27.66469	01 33 51.27	+14 47 29.5		402
131P	1997 08 27.67024	01 33 51.36	+14 47 29.6		402
131P	1997 08 28.69236	01 34 05.84	+14 47 26.6	18.6 T	360
131P	1997 08 28.69722	01 34 05.88	+14 47 27.0		360
131P	1997 09 01.95991	01 34 50.10	+14 45 04.1		5 118
131P	1997 09 01.99400	01 34 50.26	+14 45 02.6		5 118
131P	1997 09 02.00042	01 34 50.33	+14 45 02.4	18.3 T	5 118
131P	1997 09 10.64965	01 34 58.04	+14 29 33.9	18.4 T	360
131P	1997 09 10.65712	01 34 58.03	+14 29 32.5		360

132P/Helin-Roman-Alu 2

132P	1997 08 11.70372	01 39 51.33	+10 08 38.2	17.7 T	402
132P	1997 08 11.70649	01 39 51.43	+10 08 38.8		402
132P	1997 08 11.70927	01 39 51.68	+10 08 39.3		402
132P	1997 08 27.68400	01 56 56.38	+10 37 17.6	17.5 T	402
132P	1997 08 27.68956	01 56 56.64	+10 37 17.7		402
132P	1997 08 27.69512	01 56 56.95	+10 37 17.8		402
132P	1997 08 28.74479	01 57 54.06	+10 37 32.6	17.9 T	360
132P	1997 08 28.74931	01 57 54.30	+10 37 32.5		360
132P	1997 08 31.09693	01 59 56.91	+10 37 13.6		557
132P	1997 08 31.10596	01 59 57.32	+10 37 13.4	17.8 T	557
132P	1997 09 02.75558	02 02 06.84	+10 35 36.3		867
132P	1997 09 02.76252	02 02 07.14	+10 35 35.8	16.8 T	867
132P	1997 09 09.64898	02 06 56.48	+10 24 38.0	16.8 T	867
132P	1997 09 09.65558	02 06 56.70	+10 24 37.0		867
132P	1997 09 09.66704	02 06 57.15	+10 24 35.7		867
132P	1997 09 10.69757	02 07 34.14	+10 22 07.2	17.6 T	360
132P	1997 09 10.70208	02 07 34.30	+10 22 06.8		360

Note 1: prediscvery image; very weak image, position uncertain. 2: poor image.
 3: near edge of film. 4: involved with star. 5: poor distribution of reference stars.

OBSERVATIONS OF MINOR PLANETS

The observations are listed separately for each observatory code. Alphabetic note codes shown with some of the observations are defined according to the scheme below. Numeric codes are defined in the headings for the individual observatories.

A earlier approximate position inferior
 a sense of motion ambiguous
 B black or dark plate
 b bad seeing
 C correction to earlier position
 c crowded star field
 D declination uncertain
 d diffuse image
 E at or near edge of plate
 F faint image
 f involved with emulsion or plate flaw
 G poor guiding
 g no guiding
 I involved with star
 i inkdot measured
 J J2000.0 rereduction of previously-reported position
 M measurement difficult
 N near edge of plate, measurement uncertain
 O image out of focus
 o plate measured in one direction only
 P position uncertain
 p poor image
 R right ascension uncertain
 r poor distribution of reference stars
 S poor sky
 s streaked image
 T time uncertain
 t trailed image
 U uncertain image
 u unconfirmed image
 V very faint image
 W weak image
 w weak solution

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.
--------	------	----	-----------------	-----------------	------	--------

010 Caussols

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

C. Pollas, Observatoire de la Côte d'Azur, Avenue Copernic, F-06130 Grasse, France [pollas@ocar01.obs-azur.fr]

Observers C. Pollas, D. Albanese

Measurer E. W. Elst

0.9-m Schmidt telescope

1992 VS	* 1992 11 02.97465	02 09 17.39	+11 51 31.4	19.2	010
1992 VS	1992 11 02.98507	02 09 16.77	+11 51 28.8		010
1992 VS	1992 11 02.99618	02 09 16.27	+11 51 25.5		010
1993 PQ ₃	1993 08 18.97361	21 21 44.78	-11 21 49.9		4 010
1993 PQ ₃	1993 08 18.98542	21 21 44.10	-11 21 55.2		4 010
1993 PQ ₃	1993 08 18.99595	21 21 43.58	-11 21 59.6		4 010
1993 PQ ₆	1993 08 16.99097	22 50 07.66	-06 53 01.9		010
1993 PQ ₆	1993 08 17.01189	22 50 06.82	-06 53 14.1		010
1993 QU ₁₀	1993 09 18.96389	22 36 28.24	-09 11 56.2	18.6	010

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1993 QU ₁₀	1993 09 18.97431	22 36 27.75	-09 11 58.8		010
1993 QU ₁₀	1993 09 18.98623	22 36 27.32	-09 12 01.7		010
1993 TF ₄₈	* 1993 10 15.95625	00 33 52.11	-01 44 14.8	18.7	010
1993 TF ₄₈	1993 10 15.96667	00 33 51.70	-01 44 17.5		010
1993 TF ₄₈	1993 10 15.97743	00 33 51.14	-01 44 20.7		010

012 Uccle

T. Pauwels, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels,
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Observers E. Elst, T. Pauwels

Measurer T. Pauwels

0.85-m *f*/2.5 Schmidt + CCD

GSC 1.2

(7815)	1997 07 08.94163	16 41 48.47	+00 49 51.0	18.1 V	012
(7815)	1997 07 08.95557	16 41 48.18	+00 49 49.2	18.3 V	012
(7815)	1997 07 08.96955	16 41 47.88	+00 49 46.7	18.6 V	012
(7815)	1997 07 08.98542	16 41 47.58	+00 49 43.8	18.3 V	012

033 Tautenburg

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

1.3-m Schmidt telescope

PPM

1985 VK	1992 03 30.94931	12 36 58.19	+07 20 53.2		033
1985 VK	1992 03 31.02500	12 36 54.33	+07 21 13.7	18.2	033
1985 VK	1992 04 03.97847	12 33 41.99	+07 38 33.1		033
1985 VK	1992 04 30.85660	12 16 02.36	+08 35 56.8		033
1985 VK	1992 04 30.90035	12 16 01.11	+08 35 56.6	18.7	033
1985 VK	1992 05 04.90590	12 14 24.00	+08 34 30.2		033
1990 TW ₁₂	1992 03 30.94931	12 39 22.67	+07 43 56.2		033
1990 TW ₁₂	1992 03 31.02500	12 39 18.21	+07 44 06.0	18.7	033
1990 TW ₁₂	1992 04 03.97847	12 35 32.53	+07 51 16.2		033
1990 TW ₁₂	1992 04 30.85660	12 14 45.24	+07 40 59.5		033
1990 TW ₁₂	1992 04 30.90035	12 14 43.71	+07 40 53.6	19.3	033
1990 TW ₁₂	1992 05 04.90590	12 12 46.44	+07 30 11.8		V 033
1992 FZ ₃	* 1992 03 30.94931	12 36 38.16	+08 47 49.5		033
1992 FZ ₃	1992 03 31.02500	12 36 33.63	+08 48 16.8	17.8	033
1992 FZ ₃	1992 04 03.97847	12 32 48.30	+09 10 38.4		033
1992 FA ₄	* 1992 03 30.94931	12 37 35.17	+07 48 02.7		033
1992 FA ₄	1992 03 31.02500	12 37 30.73	+07 48 22.0	18.4	033
1992 FA ₄	1992 04 03.97847	12 33 46.97	+08 03 41.6		033
1992 FB ₄	* 1992 03 30.94931	12 37 51.63	+09 08 58.0		033
1992 FB ₄	1992 03 31.02500	12 37 47.36	+09 09 27.9	18.6	033
1992 FC ₄	* 1992 03 30.94931	12 39 59.99	+08 29 08.5		033
1992 FC ₄	1992 03 31.02500	12 39 55.69	+08 29 28.8	18.3	033
1992 FC ₄	1992 04 03.97847	12 36 21.81	+08 45 52.7		033
1992 FD ₄	* 1992 03 30.94931	12 40 19.64	+06 31 41.8		033
1992 FD ₄	1992 03 31.02500	12 40 15.35	+06 31 46.2	19.0	033
1992 FD ₄	1992 04 03.97847	12 36 44.86	+06 34 08.3		033
1992 FE ₄	* 1992 03 30.94931	12 42 23.81	+06 57 48.6		033
1992 FE ₄	1992 03 31.02500	12 42 18.45	+06 57 46.7	18.8	033
1992 FE ₄	1992 04 03.97847	12 37 48.20	+06 54 16.9		033
1992 FF ₄	* 1992 03 30.94931	12 42 43.03	+08 51 50.8		033

1992 FF ₄	1992 03 31.02500	12 42 39.59	+08 52 18.7	18.2	033
1992 FF ₄	1992 04 03.97847	12 39 47.11	+09 16 11.1		033
1992 FG ₄	* 1992 03 30.94931	12 43 55.50	+08 08 37.6		033
1992 FG ₄	1992 03 31.02500	12 43 51.22	+08 08 55.0	18.9	033
1992 FG ₄	1992 04 03.97847	12 40 15.94	+08 22 49.1		033
1992 FH ₄	* 1992 03 30.94931	12 45 50.97	+08 37 02.2		033
1992 FH ₄	1992 03 31.02500	12 45 46.61	+08 37 25.3	18.5	033
1992 FH ₄	1992 04 03.97847	12 42 07.86	+08 56 23.7		E 033
1992 HF ₇	* 1992 04 30.85660	12 09 23.89	+07 39 31.7		033
1992 HF ₇	1992 04 30.90035	12 09 22.60	+07 39 26.7	18.8	033
1992 HF ₇	1992 05 04.90590	12 07 46.42	+07 31 15.0		033
1992 HG ₇	* 1992 04 30.85660	12 09 32.09	+06 29 09.0		033
1992 HG ₇	1992 04 30.90035	12 09 31.33	+06 29 08.5	19.1	033
1992 HG ₇	1992 05 04.90590	12 08 42.11	+06 27 07.0		033
1992 HH ₇	* 1992 04 30.85660	12 16 04.59	+07 11 44.6		033
1992 HH ₇	1992 04 30.90035	12 16 03.73	+07 11 44.9	19.4	033
1992 HH ₇	1992 05 04.90590	12 15 06.20	+07 11 55.1		033
1993 VN ₈	* 1993 11 12.94444	04 07 24.17	+20 19 01.3	18.9	033
1993 VN ₈	1993 11 12.99028	04 07 21.02	+20 18 59.6		033
1994 RK ₂₉	* 1994 09 09.89340	22 06 21.71	-02 34 28.2	18.0	033
1994 RK ₂₉	1994 09 09.93160	22 06 19.32	-02 34 39.8		033
1994 TK ₁₇	* 1994 10 10.82396	21 54 34.66	-04 41 11.7	18.6	033
1994 TK ₁₇	1994 10 10.87708	21 54 35.07	-04 41 24.7		033
1994 YV ₁	1992 03 30.94931	12 43 13.39	+08 30 38.6		033
1994 YV ₁	1992 03 31.02500	12 43 08.70	+08 30 57.6	18.0	033
1994 YV ₁	1992 04 03.97847	12 39 12.85	+08 46 13.0		033
1994 YV ₁	1992 04 30.85660	12 18 32.09	+08 56 42.1		033
1994 YV ₁	1992 04 30.90035	12 18 30.76	+08 56 34.8	19.0	033
1994 YV ₁	1992 05 04.90590	12 16 56.50	+08 43 50.9		033
1995 BD ₁	1995 02 22.89722	08 50 19.17	+22 31 30.0	18.5	033
1995 BD ₁	1995 02 22.93889	08 50 17.07	+22 31 38.8		033
1995 DA ₁₄	* 1995 02 22.89722	08 50 14.10	+23 11 16.4	18.6	033
1995 DA ₁₄	1995 02 22.93889	08 50 11.95	+23 11 21.1		033
(304)	1992 03 30.94931	12 35 55.76	+08 43 34.7		033
(304)	1992 03 31.02500	12 35 51.75	+08 44 20.2	14.7	033
(304)	1992 04 03.97847	12 32 29.99	+09 22 45.2		E 033
(330)	1992 04 30.85660	12 11 35.15	+07 08 03.1		033
(330)	1992 04 30.90035	12 11 33.92	+07 08 08.2	18.5	033
(330)	1992 05 04.90590	12 09 56.17	+07 13 46.5		033
(475)	1992 04 30.85660	12 21 05.31	+08 29 46.5		033
(475)	1992 04 30.90035	12 21 03.45	+08 29 43.2	18.1	033
(475)	1992 05 04.90590	12 18 23.03	+08 23 26.7		033
(3641)	1992 03 30.94931	12 37 27.35	+06 17 37.7		033
(3641)	1992 03 31.02500	12 37 23.21	+06 17 45.9	17.4	033
(3641)	1992 04 03.97847	12 33 54.31	+06 23 56.4		033
(3641)	1992 04 30.85660	12 13 49.43	+06 18 43.2		033
(3641)	1992 04 30.90035	12 13 47.92	+06 18 38.3	17.9	033
(3641)	1992 05 04.90590	12 11 45.43	+06 09 59.2		033
(3855)	1992 03 30.94931	12 35 39.53	+07 58 07.0		033
(3855)	1992 03 31.02500	12 35 34.92	+07 58 37.2	17.6	033
(3855)	1992 04 03.97847	12 31 42.45	+08 23 17.0		033
(5160)	1992 03 30.94931	12 40 31.62	+08 42 33.7		033

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(5160)	1992 03 31.02500	12 40 27.48	+08 43 07.9	17.5	033
(5160)	1992 04 03.97847	12 36 59.47	+09 11 57.4		033
(6331)	1992 03 30.94931	12 39 26.60	+07 31 49.9		033
(6331)	1992 03 31.02500	12 39 22.36	+07 32 23.5	18.1	033
(6331)	1992 04 03.97847	12 35 47.23	+08 00 56.7		033
(7001)	1992 04 30.85660	12 16 32.49	+06 12 04.5		033
(7001)	1992 04 30.90035	12 16 31.31	+06 12 10.2	18.6	033
(7001)	1992 05 04.90590	12 15 08.32	+06 19 07.1		033

046 Kleť

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

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

Measurer M. Tichý

0.57-m reflector + CCD

GSC

1979 US	1997 08 26.07824	23 38 43.49	-04 54 45.1	17.6 V	046
1979 US	1997 08 26.08606	23 38 43.16	-04 54 46.4		046
1979 US	1997 08 26.09749	23 38 42.67	-04 54 48.6		046
1979 US	1997 08 26.97436	23 38 06.64	-04 57 41.1	17.6 V	046
1979 US	1997 08 26.97666	23 38 06.54	-04 57 41.4		046
1979 US	1997 08 26.97979	23 38 06.40	-04 57 42.3		046
1980 SM	1997 08 26.06378	23 17 59.44	-04 15 27.8	16.8 V	046
1980 SM	1997 08 26.06924	23 17 59.15	-04 15 27.4		046
1980 SM	1997 08 26.07270	23 17 58.97	-04 15 27.2		046
1980 SM	1997 08 27.01980	23 17 09.78	-04 14 28.5	16.6 V	046
1980 SM	1997 08 27.02247	23 17 09.64	-04 14 28.3		046
1980 SM	1997 08 27.02531	23 17 09.48	-04 14 28.2		046
1982 DC ₂	1997 08 24.00755	23 13 37.93	-04 30 49.6	18.3 V	046
1982 DC ₂	1997 08 24.02512	23 13 36.99	-04 30 56.9		046
1982 DC ₂	1997 08 24.02802	23 13 36.90	-04 30 57.7		046
1982 DC ₂	1997 08 25.06088	23 12 45.87	-04 38 16.8	18.6 V	046
1982 DC ₂	1997 08 25.06360	23 12 45.76	-04 38 17.7		046
1982 DC ₂	1997 08 25.06647	23 12 45.61	-04 38 19.3		046
1982 EE	1997 08 22.01164	22 29 11.43	-19 43 45.0	16.5 V	046
1982 EE	1997 08 22.01538	22 29 11.23	-19 43 46.7		046
1982 EE	1997 08 22.01744	22 29 11.12	-19 43 47.7		046
1982 EE	1997 08 23.01387	22 28 22.55	-19 50 59.8	16.6 V	046
1982 EE	1997 08 23.01699	22 28 22.39	-19 51 01.1		046
1982 EE	1997 08 23.01972	22 28 22.25	-19 51 02.3		046
1982 EE	1997 09 10.87351	22 13 15.20	-21 44 22.0	17.4 V	046
1982 EE	1997 09 10.87572	22 13 15.08	-21 44 22.9		046
1982 EE	1997 09 10.87766	22 13 15.02	-21 44 23.4		046
1984 SB ₁	1997 08 14.95782	22 24 15.87	-16 15 46.3		046
1984 SB ₁	1997 08 14.96218	22 24 15.60	-16 15 46.2		046
1984 SB ₁	1997 08 14.96515	22 24 15.42	-16 15 46.2		046
1984 SB ₁	1997 08 21.97067	22 17 16.93	-16 13 22.8	16.4 V	046
1984 SB ₁	1997 08 21.97333	22 17 16.77	-16 13 22.8		046
1984 SB ₁	1997 08 21.97567	22 17 16.62	-16 13 22.6		046
1984 SB ₁	1997 08 22.99082	22 16 14.11	-16 12 41.5	16.4 V	046
1984 SB ₁	1997 08 22.99580	22 16 13.79	-16 12 41.4		046
1984 SB ₁	1997 08 23.00124	22 16 13.45	-16 12 41.0		046

1984 SB ₁	1997 09 10.82469	21 58 46.54	-15 36 29.5	15.9 R	046
1984 SB ₁	1997 09 10.82701	21 58 46.42	-15 36 29.5		046
1984 SB ₁	1997 09 10.82953	21 58 46.30	-15 36 28.8		046
1985 UY	1997 09 08.86477	21 58 35.78	-06 20 03.7		046
1985 UY	1997 09 08.86693	21 58 35.67	-06 20 04.7	17.2 V	046
1985 UY	1997 09 08.86935	21 58 35.59	-06 20 05.5		046
1985 UY	1997 09 10.81171	21 57 30.11	-06 32 08.0		046
1985 UY	1997 09 10.81559	21 57 29.99	-06 32 09.5		046
1985 UY	1997 09 10.81825	21 57 29.90	-06 32 10.3	17.3 V	046
1986 XF ₅	1997 08 12.04495	01 21 39.08	+09 02 45.4	18.1 V	046
1986 XF ₅	1997 08 12.04699	01 21 39.16	+09 02 45.8		046
1986 XF ₅	1997 08 12.05196	01 21 39.36	+09 02 46.7		046
1986 XF ₅	1997 08 13.07624	01 22 21.53	+09 05 56.0	17.9 V	046
1986 XF ₅	1997 08 13.08068	01 22 21.71	+09 05 56.8		046
1986 XF ₅	1997 08 13.08366	01 22 21.82	+09 05 57.2		046
1987 VR	1997 08 22.02361	22 35 36.41	+02 55 11.7	17.0 V	046
1987 VR	1997 08 22.02593	22 35 36.32	+02 55 10.8		046
1987 VR	1997 08 22.02789	22 35 36.25	+02 55 10.5		046
1987 VR	1997 08 23.03139	22 34 54.65	+02 50 21.1	17.3 V	046
1987 VR	1997 08 23.03336	22 34 54.56	+02 50 20.5		046
1987 VR	1997 08 23.03584	22 34 54.45	+02 50 19.6		046
1987 VR	1997 09 10.83712	22 21 42.24	+01 00 31.3	17.3 V	046
1987 VR	1997 09 10.84388	22 21 41.96	+01 00 28.7		046
1987 VR	1997 09 10.84679	22 21 41.84	+01 00 27.5		046
1987 VR	1997 09 11.95220	22 20 57.98	+00 53 15.4		046
1987 VR	1997 09 11.95506	22 20 57.86	+00 53 14.1	17.6 V	046
1987 VR	1997 09 11.95704	22 20 57.77	+00 53 13.3		046
1993 PB	1997 08 27.99581	23 37 17.45	+50 07 07.6	19.4 V	046
1993 PB	1997 08 27.99939	23 37 16.92	+50 07 11.2		046
1993 PB	1997 08 28.00572	23 37 15.96	+50 07 17.3		046
1993 PB	1997 09 01.03800	23 27 09.27	+51 08 10.3	19.4 V	046
1993 PB	1997 09 01.04288	23 27 08.50	+51 08 13.9		046
1993 PB	1997 09 01.04699	23 27 07.90	+51 08 17.7		046
1993 UC	1997 08 11.03824	03 33 40.81	+02 39 21.2		046
1993 UC	1997 08 11.04238	03 33 41.43	+02 39 19.0	18.4 V	046
1993 UC	1997 08 11.04913	03 33 42.45	+02 39 16.5		046
1993 UC	1997 08 12.07398	03 36 15.63	+02 31 37.4	18.6 V	046
1993 UC	1997 08 12.07532	03 36 15.82	+02 31 36.1		046
1993 UC	1997 08 12.07970	03 36 16.52	+02 31 34.5		046
1993 UC	1997 09 13.09495	05 12 20.23	-05 03 51.0	17.8 V	046
1993 UC	1997 09 13.09631	05 12 20.50	-05 03 53.4		046
1993 UC	1997 09 13.10066	05 12 21.44	-05 03 58.2		046
1994 TF ₂	1997 09 13.03802	02 41 28.01	+04 23 09.5	17.8 R	046
1994 TF ₂	1997 09 13.03941	02 41 28.09	+04 23 03.5		046
1994 TF ₂	1997 09 13.04071	02 41 28.10	+04 22 58.2		046
1995 EC	1997 08 22.03603	22 37 37.34	-11 31 17.2		046
1995 EC	1997 08 22.03821	22 37 37.23	-11 31 17.4		046
1995 EC	1997 08 22.04035	22 37 37.13	-11 31 18.7		046
1995 EC	1997 08 23.04747	22 36 53.37	-11 35 36.8	17.4 V	046
1995 EC	1997 08 23.04983	22 36 53.23	-11 35 37.3		046
1995 EC	1997 08 23.05234	22 36 53.08	-11 35 37.8		046
1995 EC	1997 09 10.85178	22 23 15.20	-12 50 46.1	17.0 R	046

1997 SEPT.16

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1995 EC	1997 09 10.85391	22 23 15.12	-12 50 46.5		046	1997 PN	1997 08 26.83699	19 55 59.58	+07 09 31.4		046
1995 EC	1997 09 10.85595	22 23 15.02	-12 50 47.0		046	1997 PN	1997 08 26.84316	19 55 59.39	+07 09 48.0		046
1996 DV ₂	1997 08 12.05596	01 41 32.51	+08 00 25.3	17.5 V	046	1997 PO	1997 08 11.87528	20 12 10.44	-15 02 11.6	17.3 V	046
1996 DV ₂	1997 08 12.05793	01 41 32.58	+08 00 25.4		046	1997 PO	1997 08 11.87648	20 12 10.44	-15 02 13.9		046
1996 DV ₂	1997 08 12.06022	01 41 32.69	+08 00 25.6		046	1997 PO	1997 08 11.87843	20 12 10.41	-15 02 17.3		046
1996 DV ₂	1997 08 13.09196	01 42 14.17	+08 01 13.5	17.4 V	046	1997 PO	1997 08 11.88008	20 12 10.40	-15 02 20.6		046
1996 DV ₂	1997 08 13.09581	01 42 14.31	+08 01 13.7		046	1997 PO	1997 08 24.87719	20 12 35.43	-21 08 34.9	18.5 V	046
1996 DV ₂	1997 08 13.09910	01 42 14.44	+08 01 13.7		046	1997 PO	1997 08 24.87921	20 12 35.50	-21 08 38.5		046
1996 HP ₁	1997 08 24.92588	21 32 13.15	-00 31 35.1	19.3 V	046	1997 PO	1997 08 24.88527	20 12 35.56	-21 08 47.3		046
1996 HP ₁	1997 08 24.93140	21 32 12.88	-00 31 37.4		046	1997 PO	1997 08 25.89479	20 12 50.32	-21 33 57.9	18.5 V	046
1996 HP ₁	1997 08 24.93772	21 32 12.57	-00 31 40.2		046	1997 PO	1997 08 25.89700	20 12 50.37	-21 34 01.6		046
1996 HP ₁	1997 08 25.98984	21 31 23.98	-00 39 26.2	19.3 V	046	1997 PO	1997 08 25.89978	20 12 50.39	-21 34 05.3		046
1996 HP ₁	1997 08 25.99271	21 31 23.81	-00 39 28.0		046	1997 PC ₁	1997 08 26.10045	23 38 49.55	-04 47 07.8	18.1 V	046
1996 HP ₁	1997 08 25.99553	21 31 23.71	-00 39 29.3		046	1997 PC ₁	1997 08 26.10248	23 38 49.49	-04 47 08.3		046
1996 LA	1997 08 14.86627	20 42 41.57	-06 49 03.4		046	1997 PC ₁	1997 08 26.10492	23 38 49.42	-04 47 09.2		046
1996 LA	1997 08 14.87433	20 42 41.21	-06 49 05.1		046	1997 PC ₁	1997 08 26.10795	23 38 49.25	-04 47 10.1		046
1996 LA	1997 08 14.87844	20 42 41.04	-06 49 05.7		046	1997 PC ₁	1997 08 26.98372	23 38 15.50	-04 50 59.7	18.5 V	046
1996 LA	1997 08 24.90929	20 36 07.86	-07 28 57.4	18.1 V	046	1997 PC ₁	1997 08 26.98884	23 38 15.28	-04 51 00.6		046
1996 LA	1997 08 24.91124	20 36 07.80	-07 28 57.8		046	1997 PC ₁	1997 08 26.99178	23 38 15.15	-04 51 01.6		046
1996 LA	1997 08 24.91317	20 36 07.73	-07 28 58.4		046	1997 PX ₁	1997 08 09.96126	22 37 31.63	-18 06 04.3	17.6 V	046
1996 LA	1997 08 25.96986	20 35 30.66	-07 33 15.8	18.2 V	046	1997 PX ₁	1997 08 09.96543	22 37 31.39	-18 06 06.3		046
1996 LA	1997 08 25.97242	20 35 30.59	-07 33 16.5		046	1997 PX ₁	1997 08 09.96959	22 37 31.21	-18 06 07.8		046
1996 LA	1997 08 25.98413	20 35 30.17	-07 33 18.8		046	1997 PX ₁	1997 08 10.89878	22 36 48.53	-18 13 38.7	17.7 V	046
1997 MD ₁₀	1997 08 24.84080	17 19 50.01	+01 13 20.1	19.8 V	046	1997 PX ₁	1997 08 10.90274	22 36 48.37	-18 13 40.8		046
1997 MD ₁₀	1997 08 24.84491	17 19 49.92	+01 13 26.2		046	1997 PX ₁	1997 08 10.90561	22 36 48.23	-18 13 41.8		046
1997 MD ₁₀	1997 08 24.84744	17 19 49.80	+01 13 29.8		046	1997 PX ₁	1997 08 11.94311	22 35 59.13	-18 22 04.3	17.5 V	046
1997 MD ₁₀	1997 08 25.81640	17 19 22.45	+01 36 48.1	19.7 V	046	1997 PX ₁	1997 08 11.94551	22 35 58.99	-18 22 05.5		046
1997 MD ₁₀	1997 08 25.82117	17 19 22.28	+01 36 54.3		046	1997 PX ₁	1997 08 11.94833	22 35 58.86	-18 22 07.1		046
1997 MD ₁₀	1997 08 25.82405	17 19 22.25	+01 36 58.3		046	1997 PX ₁	1997 08 12.99074	22 35 08.33	-18 30 29.5	17.4 V	046
1997 NV	1997 08 21.82873	19 10 10.57	-16 28 03.6	17.9 V	046	1997 PX ₁	1997 08 12.99295	22 35 08.21	-18 30 30.7		046
1997 NV	1997 08 24.82058	19 09 32.57	-16 28 42.3	17.8 V	046	1997 PX ₁	1997 08 12.99529	22 35 08.10	-18 30 32.0		046
1997 NV	1997 08 24.82897	19 09 32.45	-16 28 42.5		046	1997 PX ₁	1997 08 13.95190	22 34 20.94	-18 38 11.3	17.4 V	046
1997 NV	1997 08 26.80885	19 09 17.73	-16 29 05.9	17.4 V	046	1997 PX ₁	1997 08 13.95385	22 34 20.86	-18 38 12.1		046
1997 NV	1997 08 26.81553	19 09 17.68	-16 29 05.8		046	1997 PX ₁	1997 08 13.95624	22 34 20.73	-18 38 13.4		046
1997 NV	1997 08 26.82425	19 09 17.58	-16 29 05.8		046	1997 PX ₁	1997 08 14.97146	22 33 29.62	-18 46 17.7		046
1997 NP ₁₀	1997 08 11.90244	21 25 30.14	+02 10 47.8	19.4 V	046	1997 PX ₁	1997 08 14.97340	22 33 29.50	-18 46 18.6		046
1997 NP ₁₀	1997 08 11.90764	21 25 30.25	+02 10 47.3		046	1997 PX ₁	1997 08 14.97541	22 33 29.40	-18 46 19.5		046
1997 NP ₁₀	1997 08 11.91119	21 25 30.29	+02 10 47.7		046	1997 PX ₁	1997 08 22.00361	22 27 14.97	-19 39 53.3	16.6 V	046
1997 NP ₁₀	1997 08 30.94455	21 34 14.72	+00 55 31.0	19.7 V	046	1997 PX ₁	1997 08 22.00559	22 27 14.83	-19 39 53.9		046
1997 NP ₁₀	1997 08 30.95698	21 34 15.16	+00 55 24.6		046	1997 PX ₁	1997 08 22.00834	22 27 14.67	-19 39 54.9		046
1997 NP ₁₀	1997 08 30.95958	21 34 15.24	+00 55 24.5		046	1997 PX ₁	1997 08 23.00468	22 26 19.67	-19 47 03.9	17.0 V	046
1997 NP ₁₀	1997 08 31.90058	21 34 52.25	+00 48 29.7	19.7 V	046	1997 PX ₁	1997 08 23.00706	22 26 19.53	-19 47 04.8		046
1997 NP ₁₀	1997 08 31.90296	21 34 52.34	+00 48 28.1		046	1997 PX ₁	1997 08 23.00913	22 26 19.42	-19 47 05.7		046
1997 NP ₁₀	1997 08 31.90802	21 34 52.48	+00 48 25.9		046	1997 PX ₁	1997 08 27.94341	22 21 45.25	-20 20 13.5	17.4 V	046
1997 PN	1997 08 11.86307	20 08 23.73	-07 45 35.7		046	1997 PX ₁	1997 08 27.94584	22 21 45.11	-20 20 14.6		046
1997 PN	1997 08 11.86471	20 08 23.53	-07 45 27.5		046	1997 PX ₁	1997 08 27.94786	22 21 45.00	-20 20 15.3		046
1997 PN	1997 08 11.86701	20 08 23.39	-07 45 17.4		046	1997 PX ₁	1997 09 08.87449	22 11 23.22	-21 20 20.3	17.5 V	046
1997 PN	1997 08 11.86897	20 08 23.21	-07 45 08.2		046	1997 PX ₁	1997 09 08.87877	22 11 23.00	-21 20 21.0		046
1997 PN	1997 08 24.85874	19 56 40.88	+05 41 09.4	18.5 V	046	1997 PX ₁	1997 09 08.88446	22 11 22.72	-21 20 22.4		046
1997 PN	1997 08 24.86660	19 56 40.59	+05 41 32.0		046	1997 PY ₁	1997 08 09.98418	23 28 22.04	-04 52 50.1	19.1 V	046
1997 PN	1997 08 24.87127	19 56 40.48	+05 41 45.0		046	1997 PY ₁	1997 08 09.98649	23 28 21.98	-04 52 50.8		046
1997 PN	1997 08 26.83541	19 55 59.63	+07 09 27.2	18.8 V	046	1997 PY ₁	1997 08 09.98851	23 28 21.88	-04 52 50.9		046

1997 PY ₁	1997 08 10.93321	23 27 50.27	-04 53 21.9	19.1 V	046	1997 PR ₂	1997 08 31.98539	23 11 58.85	-07 12 20.4		046
1997 PY ₁	1997 08 10.93527	23 27 50.19	-04 53 21.5		046	1997 PR ₂	1997 09 11.06058	23 02 54.67	-08 24 16.6	16.6 R	046
1997 PY ₁	1997 08 11.95234	23 27 14.86	-04 53 58.9	18.9 V	046	1997 PR ₂	1997 09 11.06301	23 02 54.55	-08 24 17.6		046
1997 PY ₁	1997 08 11.95685	23 27 14.63	-04 53 58.9		046	1997 PR ₂	1997 09 11.06520	23 02 54.42	-08 24 18.5		046
1997 PY ₁	1997 08 11.95943	23 27 14.58	-04 53 58.7		046	1997 PS ₂	* 1997 08 11.98929	23 14 46.87	-12 56 29.2	19.2 V	046
1997 PY ₁	1997 08 13.05126	23 26 35.22	-04 54 46.0	18.5 V	046	1997 PS ₂	1997 08 11.99164	23 14 46.83	-12 56 30.9		046
1997 PY ₁	1997 08 13.05534	23 26 35.05	-04 54 46.3		046	1997 PS ₂	1997 08 11.99459	23 14 46.76	-12 56 32.9		046
1997 PY ₁	1997 08 13.05781	23 26 34.97	-04 54 46.7		046	1997 PS ₂	1997 08 11.99677	23 14 46.67	-12 56 34.1		046
1997 PY ₁	1997 08 14.05862	23 25 57.85	-04 55 35.7	18.5 V	046	1997 PS ₂	1997 08 13.01201	23 14 24.45	-13 06 27.2	18.8 V	046
1997 PY ₁	1997 08 14.06073	23 25 57.77	-04 55 35.4		046	1997 PS ₂	1997 08 13.01455	23 14 24.38	-13 06 28.6		046
1997 PY ₁	1997 08 14.06267	23 25 57.64	-04 55 36.0		046	1997 PS ₂	1997 08 13.01721	23 14 24.29	-13 06 30.2		046
1997 PY ₁	1997 08 25.09998	23 18 03.54	-05 09 37.1	18.5 V	046	1997 PS ₂	1997 08 13.01946	23 14 24.27	-13 06 31.4		046
1997 PY ₁	1997 08 25.10484	23 18 03.29	-05 09 38.0		046	1997 PS ₂	1997 08 14.02928	23 14 00.73	-13 16 26.4	19.0 V	046
1997 PY ₁	1997 08 25.10744	23 18 03.20	-05 09 38.2		046	1997 PS ₂	1997 08 14.03200	23 14 00.68	-13 16 28.1		046
1997 PY ₁	1997 08 26.05285	23 17 18.03	-05 11 11.7	18.4 V	046	1997 PS ₂	1997 08 14.03655	23 14 00.57	-13 16 31.0		046
1997 PY ₁	1997 08 26.05603	23 17 17.82	-05 11 12.3		046	1997 PS ₂	1997 08 23.99344	23 09 00.24	-14 57 04.5	18.7 V	046
1997 PY ₁	1997 08 26.05808	23 17 17.71	-05 11 12.6		046	1997 PS ₂	1997 08 23.99940	23 09 00.10	-14 57 07.9		046
1997 PY ₁	1997 08 31.99188	23 12 22.37	-05 21 52.6	18.6 V	046	1997 PS ₂	1997 08 24.00235	23 08 59.94	-14 57 10.1		046
1997 PY ₁	1997 08 31.99750	23 12 22.05	-05 21 53.3		046	1997 PS ₂	1997 08 25.02796	23 08 23.05	-15 07 32.1	18.8 V	046
1997 PY ₁	1997 09 01.00177	23 12 21.83	-05 21 54.1		046	1997 PS ₂	1997 08 25.03248	23 08 22.87	-15 07 35.0		046
1997 PY ₁	1997 09 01.00464	23 12 21.68	-05 21 54.2		046	1997 PS ₂	1997 08 25.03508	23 08 22.72	-15 07 36.3		046
1997 PY ₁	1997 09 03.06201	23 10 35.87	-05 25 50.6		046	1997 PS ₂	1997 08 26.03500	23 07 45.85	-15 17 41.7	18.9 V	046
1997 PY ₁	1997 09 03.06679	23 10 35.62	-05 25 51.1		046	1997 PS ₂	1997 08 26.03733	23 07 45.80	-15 17 43.8		046
1997 PY ₁	1997 09 03.07122	23 10 35.36	-05 25 51.7		046	1997 PS ₂	1997 08 26.04939	23 07 45.31	-15 17 50.6		046
1997 PY ₁	1997 09 11.07509	23 03 39.36	-05 41 28.0	17.8 R	046	1997 PS ₂	1997 08 31.95117	23 03 54.77	-16 15 51.9	18.7 V	046
1997 PY ₁	1997 09 11.07765	23 03 39.22	-05 41 28.0		046	1997 PS ₂	1997 08 31.95755	23 03 54.51	-16 15 55.8		046
1997 PY ₁	1997 09 11.07975	23 03 39.08	-05 41 28.3		046	1997 PS ₂	1997 08 31.96047	23 03 54.37	-16 15 57.5		046
1997 PR ₂	* 1997 08 10.92731	23 27 35.03	-04 53 01.2	18.0 V	046	1997 PS ₂	1997 09 01.99662	23 03 12.12	-16 25 45.7	19.4 V	046
1997 PR ₂	1997 08 10.93321	23 27 34.84	-04 53 02.9		046	1997 PS ₂	1997 09 02.00179	23 03 11.88	-16 25 48.7		046
1997 PR ₂	1997 08 10.93527	23 27 34.76	-04 53 03.4		046	1997 PS ₂	1997 09 02.00468	23 03 11.78	-16 25 50.1		046
1997 PR ₂	1997 08 10.93766	23 27 34.68	-04 53 04.4		046	1997 PS ₂	1997 09 03.01976	23 02 30.21	-16 35 18.1	19.0 V	046
1997 PR ₂	1997 08 11.95234	23 27 02.24	-04 58 34.9	18.1 V	046	1997 PS ₂	1997 09 03.02200	23 02 30.13	-16 35 19.3		046
1997 PR ₂	1997 08 11.95434	23 27 02.17	-04 58 35.8		046	1997 PS ₂	1997 09 11.02880	22 57 02.90	-17 43 46.9	17.8 R	046
1997 PR ₂	1997 08 11.95685	23 27 02.09	-04 58 36.8		046	1997 PS ₂	1997 09 11.03344	22 57 02.71	-17 43 48.7		046
1997 PR ₂	1997 08 11.95943	23 27 01.98	-04 58 37.6		046	1997 PT ₂	* 1997 08 12.00138	23 15 04.63	-12 49 11.4	19.2 V	046
1997 PR ₂	1997 08 13.04049	23 26 25.54	-05 04 41.8	17.5 V	046	1997 PT ₂	1997 08 12.00331	23 15 04.54	-12 49 12.4		046
1997 PR ₂	1997 08 13.04322	23 26 25.43	-05 04 42.6		046	1997 PT ₂	1997 08 12.00553	23 15 04.43	-12 49 12.9		046
1997 PR ₂	1997 08 13.04735	23 26 25.28	-05 04 43.8		046	1997 PT ₂	1997 08 12.00946	23 15 04.31	-12 49 13.2		046
1997 PR ₂	1997 08 14.04039	23 25 50.36	-05 10 27.3	17.6 V	046	1997 PT ₂	1997 08 13.03035	23 14 28.95	-12 52 39.4	19.0 V	046
1997 PR ₂	1997 08 14.04927	23 25 50.02	-05 10 30.4		046	1997 PT ₂	1997 08 13.03289	23 14 28.84	-12 52 39.6		046
1997 PR ₂	1997 08 14.05600	23 25 49.79	-05 10 32.7		046	1997 PT ₂	1997 08 13.03529	23 14 28.76	-12 52 40.1		046
1997 PR ₂	1997 08 14.99220	23 25 15.64	-05 16 04.5		046	1997 PT ₂	1997 08 13.03755	23 14 28.69	-12 52 41.0		046
1997 PR ₂	1997 08 15.00072	23 25 15.30	-05 16 08.0		046	1997 PT ₂	1997 08 14.02020	23 13 53.28	-12 56 02.5	19.0 V	046
1997 PR ₂	1997 08 15.01241	23 25 14.87	-05 16 12.2		046	1997 PT ₂	1997 08 14.02443	23 13 53.14	-12 56 03.1		046
1997 PR ₂	1997 08 23.07155	23 19 31.94	-06 08 27.6	17.3 V	046	1997 PT ₂	1997 08 14.02657	23 13 53.03	-12 56 04.3		046
1997 PR ₂	1997 08 23.07557	23 19 31.75	-06 08 29.2		046	1997 PT ₂	1997 08 15.06924	23 13 13.68	-12 59 41.3		046
1997 PR ₂	1997 08 23.07825	23 19 31.60	-06 08 30.2		046	1997 PT ₂	1997 08 15.07166	23 13 13.64	-12 59 41.3		046
1997 PR ₂	1997 08 25.08683	23 17 54.77	-06 22 32.4	17.4 V	046	1997 PT ₂	1997 08 15.07398	23 13 13.48	-12 59 41.5		046
1997 PR ₂	1997 08 25.09358	23 17 54.42	-06 22 35.3		046	1997 PT ₂	1997 08 23.96964	23 06 41.82	-13 31 31.5	18.4 V	046
1997 PR ₂	1997 08 25.09582	23 17 54.31	-06 22 36.4		046	1997 PT ₂	1997 08 23.97606	23 06 41.45	-13 31 33.1		046
1997 PR ₂	1997 08 31.97861	23 11 59.22	-07 12 17.5	17.3 V	046	1997 PT ₂	1997 08 23.98079	23 06 41.17	-13 31 33.5		046
1997 PR ₂	1997 08 31.98194	23 11 59.02	-07 12 18.9		046	1997 PT ₂	1997 08 24.99302	23 05 51.16	-13 35 08.9	18.4 V	046

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1997 PT ₂	1997 08 24.99916	23 05 50.89	-13 35 10.5		046	1997 PE ₃	1997 08 23.10000	23 38 12.30	-00 41 53.8		046
1997 PT ₂	1997 08 25.00200	23 05 50.66	-13 35 12.0		046	1997 PE ₃	1997 08 25.11155	23 36 36.91	-00 45 41.9	18.5 V	046
1997 PT ₂	1997 08 30.96382	23 00 41.42	-13 55 19.1	18.6 V	046	1997 PE ₃	1997 08 25.11395	23 36 36.76	-00 45 43.1		046
1997 PT ₂	1997 08 30.96655	23 00 41.32	-13 55 20.5		046	1997 PE ₃	1997 08 25.11595	23 36 36.69	-00 45 43.5		046
1997 PT ₂	1997 08 30.96936	23 00 41.13	-13 55 20.8		046	1997 PE ₃	1997 08 25.94127	23 35 56.78	-00 47 23.7	18.8 V	046
1997 PT ₂	1997 09 10.90755	22 50 57.01	-14 23 26.3	17.7 R	046	1997 PE ₃	1997 08 25.94420	23 35 56.64	-00 47 24.1		046
1997 PT ₂	1997 09 10.91270	22 50 56.72	-14 23 26.6		046	1997 PE ₃	1997 08 25.94678	23 35 56.53	-00 47 24.7		046
1997 PT ₂	1997 09 10.91529	22 50 56.61	-14 23 27.0		046	1997 PE ₃	1997 08 27.04456	23 35 02.12	-00 49 44.1	18.8 V	046
1997 PU ₂	* 1997 08 12.83722	20 43 27.92	-07 03 42.4	17.6 V	046	1997 PE ₃	1997 08 27.04663	23 35 02.01	-00 49 44.1		046
1997 PU ₂	1997 08 12.83935	20 43 27.79	-07 03 43.8		046	1997 PE ₃	1997 08 27.04936	23 35 01.88	-00 49 44.4		046
1997 PU ₂	1997 08 12.84140	20 43 27.69	-07 03 45.4		046	1997 PE ₃	1997 08 28.05233	23 34 11.63	-00 51 57.5	19.1 V	046
1997 PU ₂	1997 08 12.84409	20 43 27.56	-07 03 47.7		046	1997 PE ₃	1997 08 28.05455	23 34 11.51	-00 51 58.2		046
1997 PU ₂	1997 08 12.86270	20 43 26.52	-07 04 01.7		046	1997 PE ₃	1997 08 28.06699	23 34 10.89	-00 51 59.9		046
1997 PU ₂	1997 08 13.85448	20 42 34.11	-07 17 05.6	17.6 V	046	1997 PE ₃	1997 09 11.08230	23 21 36.83	-01 29 43.5	17.8 R	046
1997 PU ₂	1997 08 13.85660	20 42 33.97	-07 17 07.9		046	1997 PE ₃	1997 09 11.08432	23 21 36.71	-01 29 44.0		046
1997 PU ₂	1997 08 13.85884	20 42 33.81	-07 17 09.3		046	1997 PE ₃	1997 09 11.08663	23 21 36.57	-01 29 44.5		046
1997 PU ₂	1997 08 13.86340	20 42 33.61	-07 17 13.1		046	1997 PN ₃	1997 08 26.07824	23 38 49.57	-04 54 17.3	18.8 V	046
1997 PU ₂	1997 08 14.83512	20 41 42.83	-07 30 02.6	17.5 V	046	1997 PN ₃	1997 08 26.08286	23 38 49.35	-04 54 17.9		046
1997 PU ₂	1997 08 14.85543	20 41 41.83	-07 30 18.8		046	1997 PN ₃	1997 08 26.09036	23 38 49.02	-04 54 20.4		046
1997 PU ₂	1997 08 14.86296	20 41 41.44	-07 30 24.2		046	1997 PN ₃	1997 08 26.09749	23 38 48.76	-04 54 22.1		046
1997 PU ₂	1997 08 21.81190	20 36 01.27	-09 01 56.2	18.4 V	046	1997 PN ₃	1997 08 26.97436	23 38 13.57	-04 57 49.0	19.1 V	046
1997 PU ₂	1997 08 21.81572	20 36 01.10	-09 01 59.3		046	1997 PN ₃	1997 08 26.97666	23 38 13.49	-04 57 50.4		046
1997 PU ₂	1997 08 21.82234	20 36 00.79	-09 02 04.1		046	1997 PN ₃	1997 08 26.97979	23 38 13.32	-04 57 50.7		046
1997 PU ₂	1997 08 22.94980	20 35 09.84	-09 16 46.1	18.3 V	046	1997 PK ₄	* 1997 08 13.86973	21 38 55.85	-06 35 55.0	18.5 V	046
1997 PU ₂	1997 08 22.95183	20 35 09.78	-09 16 47.1		046	1997 PK ₄	1997 08 13.88382	21 38 55.03	-06 35 58.1		046
1997 PU ₂	1997 08 22.95427	20 35 09.66	-09 16 49.4		046	1997 PK ₄	1997 08 13.89490	21 38 54.46	-06 36 00.7		046
1997 PU ₂	1997 08 26.88213	20 32 24.67	-10 07 21.5	18.6 V	046	1997 PK ₄	1997 08 13.97203	21 38 49.89	-06 36 16.0	19.1 V	046
1997 PU ₂	1997 08 26.88463	20 32 24.53	-10 07 23.6		046	1997 PK ₄	1997 08 13.97631	21 38 49.64	-06 36 16.4		046
1997 PU ₂	1997 08 26.88806	20 32 24.40	-10 07 26.0		046	1997 PK ₄	1997 08 13.98238	21 38 49.31	-06 36 18.0		046
1997 PU ₂	1997 08 31.85053	20 29 24.74	-11 09 14.0	18.7 V	046	1997 PK ₄	1997 08 15.01677	21 37 50.50	-06 39 48.6	18.8 V	046
1997 PU ₂	1997 08 31.86542	20 29 24.24	-11 09 24.9		046	1997 PK ₄	1997 08 15.01882	21 37 50.33	-06 39 49.4		046
1997 PU ₂	1997 08 31.86772	20 29 24.15	-11 09 26.4		046	1997 PK ₄	1997 08 15.02087	21 37 50.28	-06 39 50.3		046
1997 PU ₂	1997 09 08.81814	20 25 53.43	-12 41 53.3	18.6 V	046	1997 PK ₄	1997 08 21.94882	21 31 19.57	-07 04 59.5	18.4 V	046
1997 PU ₂	1997 09 08.82237	20 25 53.37	-12 41 57.5		046	1997 PK ₄	1997 08 21.95109	21 31 19.38	-07 05 00.1		046
1997 PU ₂	1997 09 08.82563	20 25 53.27	-12 41 59.2		046	1997 PK ₄	1997 08 21.95707	21 31 19.07	-07 05 01.3		046
1997 PU ₂	1997 09 09.82944	20 25 33.99	-12 52 59.4	18.6 V	S 046	1997 PK ₄	1997 08 21.96113	21 31 18.87	-07 05 02.0		046
1997 PU ₂	1997 09 09.83373	20 25 33.82	-12 53 02.7		S 046	1997 PK ₄	1997 08 22.96564	21 30 23.19	-07 08 51.6	18.6 V	046
1997 PE ₃	* 1997 08 13.06073	23 45 07.54	-00 29 06.4	19.2 V	046	1997 PK ₄	1997 08 22.96858	21 30 23.03	-07 08 53.0		046
1997 PE ₃	1997 08 13.06287	23 45 07.51	-00 29 06.3		046	1997 PK ₄	1997 08 22.97312	21 30 22.79	-07 08 53.9		046
1997 PE ₃	1997 08 13.06497	23 45 07.41	-00 29 06.1		046	1997 PK ₄	1997 08 24.91734	21 28 36.54	-07 16 24.5	19.4 V	F 046
1997 PE ₃	1997 08 13.06691	23 45 07.34	-00 29 06.0		046	1997 PK ₄	1997 08 24.91987	21 28 36.41	-07 16 25.3		F 046
1997 PE ₃	1997 08 13.06964	23 45 07.25	-00 29 07.1		046	1997 PK ₄	1997 08 24.96891	21 28 33.65	-07 16 36.4	18.7 V	046
1997 PE ₃	1997 08 14.07054	23 44 30.87	-00 29 52.9	19.0 V	046	1997 PK ₄	1997 08 24.97116	21 28 33.57	-07 16 37.5		046
1997 PE ₃	1997 08 14.07256	23 44 30.77	-00 29 52.8		046	1997 PK ₄	1997 08 24.97330	21 28 33.45	-07 16 37.3		046
1997 PE ₃	1997 08 14.07450	23 44 30.72	-00 29 52.6		046	1997 PK ₄	1997 08 25.04573	21 28 29.41	-07 16 54.3		046
1997 PE ₃	1997 08 14.07690	23 44 30.60	-00 29 52.9		046	1997 PK ₄	1997 08 25.92500	21 27 42.22	-07 20 19.9	19.2 V	046
1997 PE ₃	1997 08 14.07969	23 44 30.50	-00 29 53.0		046	1997 PK ₄	1997 08 25.92727	21 27 42.12	-07 20 20.9		046
1997 PE ₃	1997 08 15.04676	23 43 54.24	-00 30 44.4	18.6 V	046	1997 PK ₄	1997 08 26.90274	21 26 50.27	-07 24 09.5	19.4 V	046
1997 PE ₃	1997 08 15.04911	23 43 54.15	-00 30 44.6		046	1997 PK ₄	1997 08 26.90505	21 26 50.10	-07 24 10.1		046
1997 PE ₃	1997 08 15.05131	23 43 54.06	-00 30 44.8		046	1997 PK ₄	1997 08 26.90705	21 26 50.02	-07 24 10.6		046
1997 PE ₃	1997 08 23.08896	23 38 12.80	-00 41 51.6		046	1997 PK ₄	1997 08 30.87608	21 23 26.06	-07 39 46.4	19.3 V	046
1997 PE ₃	1997 08 23.09711	23 38 12.40	-00 41 52.8		046	1997 PK ₄	1997 08 30.87854	21 23 25.96	-07 39 46.6		046

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1997 PK ₄	1997 08 30.88284	21 23 25.73	-07 39 47.6		046	1997 QF	1997 08 24.97985	23 06 08.26	-13 46 41.4	17.7 V	046
1997 PK ₄	1997 09 10.92169	21 15 24.36	-08 21 35.1	19.4 V	046	1997 QF	1997 08 24.98182	23 06 08.18	-13 46 42.3		046
1997 PK ₄	1997 09 10.92571	21 15 24.21	-08 21 36.0		046	1997 QF	1997 08 24.98443	23 06 08.07	-13 46 44.1		046
1997 PK ₄	1997 09 10.92845	21 15 24.14	-08 21 37.1		046	1997 QF	1997 08 24.98765	23 06 07.91	-13 46 45.7		046
1997 PL ₄	* 1997 08 14.04039	23 25 29.41	-05 10 13.5		046	1997 QK	* 1997 08 24.95200	21 34 22.98	-06 28 00.4	17.4 V	046
1997 PL ₄	1997 08 14.04927	23 25 29.03	-05 10 14.2	18.4 V	046	1997 QK	1997 08 24.95448	21 34 22.85	-06 28 00.6		046
1997 PL ₄	1997 08 14.05126	23 25 28.91	-05 10 14.3		046	1997 QK	1997 08 24.95722	21 34 22.71	-06 28 00.9		046
1997 PL ₄	1997 08 14.05318	23 25 28.81	-05 10 15.0		046	1997 QK	1997 08 24.96010	21 34 22.57	-06 28 01.1		046
1997 PL ₄	1997 08 14.05600	23 25 28.67	-05 10 15.5		046	1997 QK	1997 08 24.96344	21 34 22.41	-06 28 01.2		046
1997 PL ₄	1997 08 15.00510	23 24 46.29	-05 11 46.6		046	1997 QK	1997 08 25.84659	21 33 39.35	-06 29 05.1	17.4 V	046
1997 PL ₄	1997 08 15.00927	23 24 46.12	-05 11 47.6		046	1997 QK	1997 08 25.85075	21 33 39.13	-06 29 05.2		046
1997 PL ₄	1997 08 15.01241	23 24 46.00	-05 11 47.5		046	1997 QK	1997 08 25.85356	21 33 38.97	-06 29 05.5		046
1997 PL ₄	1997 08 23.05836	23 17 58.12	-05 28 25.8	18.0 V	046	1997 QL	* 1997 08 24.91734	21 28 30.96	-07 14 41.5	19.1 V	046
1997 PL ₄	1997 08 23.06256	23 17 57.82	-05 28 26.2		046	1997 QL	1997 08 24.92181	21 28 30.71	-07 14 43.2		046
1997 PL ₄	1997 08 23.06789	23 17 57.51	-05 28 27.1		046	1997 QL	1997 08 24.96891	21 28 28.25	-07 14 49.4		046
1997 PL ₄	1997 08 24.04247	23 17 03.08	-05 30 51.4	18.7 V	F 046	1997 QL	1997 08 24.97330	21 28 28.01	-07 14 49.8		046
1997 PL ₄	1997 08 24.05014	23 17 02.65	-05 30 52.6		F 046	1997 QL	1997 08 25.04573	21 28 24.23	-07 15 00.1		046
1997 PL ₄	1997 08 24.05330	23 17 02.43	-05 30 53.1		046	1997 QL	1997 08 25.05600	21 28 23.70	-07 15 01.2		046
1997 PL ₄	1997 08 25.07635	23 16 04.15	-05 33 29.4	18.6 V	046	1997 QL	1997 08 25.92500	21 27 39.61	-07 17 03.6	19.0 V	046
1997 PL ₄	1997 08 25.07977	23 16 03.98	-05 33 30.4		046	1997 QL	1997 08 25.92727	21 27 39.53	-07 17 04.1		046
1997 PL ₄	1997 08 25.08194	23 16 03.83	-05 33 30.4		046	1997 QL	1997 08 25.93510	21 27 39.06	-07 17 05.2		046
1997 PL ₄	1997 08 28.03720	23 13 10.71	-05 41 24.5	18.7 V	046	1997 QM	* 1997 08 25.11155	23 36 32.85	-00 44 12.2	18.0 V	046
1997 PL ₄	1997 08 28.04038	23 13 10.51	-05 41 25.0		046	1997 QM	1997 08 25.11395	23 36 32.80	-00 44 14.5		046
1997 PL ₄	1997 08 28.04499	23 13 10.22	-05 41 25.4		046	1997 QM	1997 08 25.11595	23 36 32.70	-00 44 15.1		046
1997 PL ₄	1997 08 31.96410	23 09 11.48	-05 52 33.3	18.0 V	046	1997 QM	1997 08 25.11848	23 36 32.60	-00 44 16.4		046
1997 PL ₄	1997 08 31.96668	23 09 11.31	-05 52 33.6		046	1997 QM	1997 08 25.94127	23 36 03.48	-00 52 37.0	18.0 V	046
1997 PL ₄	1997 08 31.97253	23 09 10.92	-05 52 34.4		046	1997 QM	1997 08 25.94420	23 36 03.35	-00 52 38.6		046
1997 PL ₄	1997 09 11.05288	22 58 39.77	-06 22 02.2	18.4 V	046	1997 QM	1997 08 25.94678	23 36 03.25	-00 52 40.5		046
1997 PL ₄	1997 09 11.05484	22 58 39.63	-06 22 02.5		046	1997 QT	* 1997 08 27.04456	23 35 06.96	-00 49 42.3	19.0 V	046
1997 PL ₄	1997 09 11.05709	22 58 39.53	-06 22 02.5		046	1997 QT	1997 08 27.04663	23 35 06.83	-00 49 43.0		046
1997 QB	* 1997 08 21.88140	21 35 44.49	-06 29 40.0	18.5 V	046	1997 QT	1997 08 27.04936	23 35 06.74	-00 49 44.5		046
1997 QB	1997 08 21.89176	21 35 43.96	-06 29 42.4		046	1997 QT	1997 08 28.05233	23 34 28.77	-00 57 14.6	19.2 V	046
1997 QB	1997 08 21.90182	21 35 43.39	-06 29 44.9		046	1997 QT	1997 08 28.05455	23 34 28.64	-00 57 15.1		046
1997 QB	1997 08 21.90389	21 35 43.23	-06 29 44.9		046	1997 QT	1997 08 28.06699	23 34 28.18	-00 57 20.0		046
1997 QB	1997 08 21.90601	21 35 43.16	-06 29 45.3		046	1997 QB ₁	* 1997 08 28.01795	23 04 04.65	-14 12 39.5	19.5 V	046
1997 QB	1997 08 22.90200	21 34 51.25	-06 33 24.4	18.7 V	046	1997 QB ₁	1997 08 28.02354	23 04 04.38	-14 12 40.9		046
1997 QB	1997 08 22.90535	21 34 51.04	-06 33 25.9		046	1997 QB ₁	1997 08 28.02693	23 04 04.17	-14 12 42.5		046
1997 QB	1997 08 22.91160	21 34 50.71	-06 33 26.2		046	1997 QB ₁	1997 08 28.03197	23 04 03.87	-14 12 44.4		046
1997 QB	1997 08 22.92626	21 34 49.90	-06 33 29.9		046	1997 QB ₁	1997 08 30.97345	23 01 13.91	-14 30 41.7	18.9 V	046
1997 QD	* 1997 08 22.94980	20 34 32.99	-09 23 29.8	17.5 V	046	1997 QB ₁	1997 08 30.98001	23 01 13.56	-14 30 44.1		046
1997 QD	1997 08 22.95427	20 34 32.81	-09 23 28.2		046	1997 QB ₁	1997 08 30.98274	23 01 13.45	-14 30 44.9		046
1997 QD	1997 08 22.97662	20 34 31.93	-09 23 19.7		046	1997 QB ₁	1997 08 30.99861	23 01 12.51	-14 30 50.1		046
1997 QD	1997 08 22.97873	20 34 31.83	-09 23 18.7		046	1997 QB ₁	1997 08 31.00169	23 01 12.30	-14 30 51.9		046
1997 QD	1997 08 22.98428	20 34 31.60	-09 23 16.6		046	1997 QL ₁	* 1997 08 30.88708	21 23 30.10	-07 26 56.2	19.5 V	046
1997 QD	1997 08 23.89998	20 33 58.09	-09 17 34.6	17.5 V	046	1997 QL ₁	1997 08 30.88977	21 23 30.04	-07 26 57.1		046
1997 QD	1997 08 23.90252	20 33 57.98	-09 17 33.9		046	1997 QL ₁	1997 08 30.89284	21 23 29.90	-07 26 59.1		046
1997 QD	1997 08 23.90454	20 33 57.91	-09 17 33.1		046	1997 QL ₁	1997 08 30.89859	21 23 29.63	-07 27 00.8		046
1997 QF	* 1997 08 23.96964	23 06 48.55	-13 36 50.4	17.4 V	046	1997 QL ₁	1997 08 31.87391	21 22 51.63	-07 33 53.3	19.5 V	046
1997 QF	1997 08 23.97163	23 06 48.44	-13 36 51.5		046	1997 QL ₁	1997 08 31.87993	21 22 51.36	-07 33 55.5		046
1997 QF	1997 08 23.97606	23 06 48.26	-13 36 54.0		046	1997 QL ₁	1997 08 31.88289	21 22 51.26	-07 33 56.3		046
1997 QF	1997 08 23.97875	23 06 48.14	-13 36 56.0		046	1997 QM ₁	* 1997 08 31.01617	23 01 26.45	-14 40 37.7	18.9 V	046
1997 QF	1997 08 23.98079	23 06 48.07	-13 36 56.8		046	1997 QM ₁	1997 08 31.01897	23 01 26.34	-14 40 38.6		046

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1997 QM ₁	1997 08 31.02093	23 01 26.13	-14 40 39.0		046	1997 RC	1997 09 02.04015	03 49 16.61	+18 34 17.1	18.7 V	046
1997 QM ₁	1997 08 31.02381	23 01 25.99	-14 40 39.9		046	1997 RC	1997 09 02.04420	03 49 16.74	+18 34 17.5		046
1997 QM ₁	1997 08 31.91984	23 00 32.30	-14 43 51.1	19.0 V	046	1997 RC	1997 09 02.05090	03 49 16.98	+18 34 18.2		046
1997 QM ₁	1997 08 31.92201	23 00 32.13	-14 43 52.0		046	1997 RT	1997 09 02.80170	00 43 42.59	+28 23 48.0	16.3 V	046
1997 QM ₁	1997 08 31.92400	23 00 32.09	-14 43 53.0		046	1997 RT	1997 09 02.80299	00 43 42.93	+28 23 53.6		046
1997 QM ₁	1997 08 31.92770	23 00 31.85	-14 43 53.2		046	1997 RT	1997 09 02.80458	00 43 43.33	+28 24 00.6		046
1997 QP ₂	1997 08 31.84166	21 52 03.07	-05 03 53.6	18.0 V	046	1997 RT	1997 09 02.80616	00 43 43.70	+28 24 06.7		046
1997 QP ₂	1997 08 31.84455	21 52 02.62	-05 03 49.3		046	1997 RT	1997 09 02.80938	00 43 44.47	+28 24 20.7		046
1997 QP ₂	1997 08 31.84647	21 52 02.34	-05 03 46.3		046	1997 RT	1997 09 05.87484	00 55 19.20	+31 27 01.0		046
1997 QP ₂	1997 09 01.81757	21 49 38.73	-04 39 26.0	18.4 V	046	1997 RT	1997 09 05.87672	00 55 19.53	+31 27 07.9	16.8 V	046
1997 QP ₂	1997 09 01.82028	21 49 38.26	-04 39 21.3		046	1997 RT	1997 09 05.87801	00 55 19.77	+31 27 12.5		046
1997 QP ₂	1997 09 01.82264	21 49 37.92	-04 39 17.6		046	1997 RT	1997 09 05.88014	00 55 20.18	+31 27 18.9		046
1997 QP ₂	1997 09 01.83244	21 49 36.48	-04 39 03.7		046	1997 RT	1997 09 11.13088	01 10 19.05	+35 02 26.0	17.1 V	046
1997 QP ₂	1997 09 02.05569	21 49 02.91	-04 33 29.7	18.1 V	046	1997 RT	1997 09 11.13213	01 10 19.20	+35 02 28.2		046
1997 QP ₂	1997 09 02.05708	21 49 02.72	-04 33 27.3		046	1997 RT	1997 09 11.13404	01 10 19.43	+35 02 31.5		046
1997 QP ₂	1997 09 02.06350	21 49 01.74	-04 33 17.8		046	1997 RU	* 1997 09 01.91568	21 31 21.77	-06 22 44.7	19.7 V	046
1997 QS ₂	* 1997 08 31.95117	23 03 31.48	-16 19 12.3	18.8 V	046	1997 RU	1997 09 01.91779	21 31 21.76	-06 22 45.8		046
1997 QS ₂	1997 08 31.95439	23 03 31.32	-16 19 13.4		046	1997 RU	1997 09 01.92034	21 31 21.64	-06 22 47.5		046
1997 QS ₂	1997 08 31.95755	23 03 31.19	-16 19 14.2		046	1997 RU	1997 09 01.92321	21 31 21.53	-06 22 50.0		046
1997 QS ₂	1997 08 31.96047	23 03 31.04	-16 19 15.4		046	1997 RU	1997 09 02.90745	21 30 49.51	-06 34 05.7	19.7 V	046
1997 QS ₂	1997 09 01.99662	23 02 43.84	-16 24 18.1	18.9 V	046	1997 RU	1997 09 02.90950	21 30 49.45	-06 34 07.3		046
1997 QS ₂	1997 09 01.99919	23 02 43.74	-16 24 18.9		046	1997 RU	1997 09 02.91264	21 30 49.33	-06 34 08.8		046
1997 QS ₂	1997 09 02.00179	23 02 43.61	-16 24 19.7		046	1997 RU	1997 09 02.91655	21 30 49.17	-06 34 11.7		046
1997 QS ₂	1997 09 02.00468	23 02 43.47	-16 24 20.4		046	1997 RU	1997 09 02.91910	21 30 49.06	-06 34 13.9		046
1997 QT ₂	* 1997 08 31.95117	23 03 39.54	-16 16 53.6	19.3 V	046	1997 RV	* 1997 09 01.92683	21 21 51.36	-07 41 15.6	19.7 V	046
1997 QT ₂	1997 08 31.95439	23 03 39.30	-16 16 53.1		046	1997 RV	1997 09 01.92931	21 21 51.19	-07 41 14.2		046
1997 QT ₂	1997 08 31.95755	23 03 39.09	-16 16 52.4		046	1997 RV	1997 09 01.93198	21 21 50.97	-07 41 12.6		046
1997 QT ₂	1997 08 31.96047	23 03 38.88	-16 16 51.7		046	1997 RV	1997 09 02.93659	21 20 33.03	-07 30 57.3	19.6 V	046
1997 QT ₂	1997 09 01.98214	23 02 29.46	-16 12 31.0	19.3 V	046	1997 RV	1997 09 02.93948	21 20 32.82	-07 30 55.2		046
1997 QT ₂	1997 09 01.99259	23 02 28.76	-16 12 27.5		046	1997 RV	1997 09 02.94216	21 20 32.60	-07 30 53.6		046
1997 QT ₂	1997 09 02.00752	23 02 27.62	-16 12 24.6		046	1997 RW	* 1997 09 01.95506	22 59 39.16	-14 40 53.9	19.5 V	046
1997 QU ₂	* 1997 08 31.99188	23 12 58.92	-05 19 16.5	19.0 V	046	1997 RW	1997 09 01.95900	22 59 38.97	-14 40 55.9		046
1997 QU ₂	1997 08 31.99750	23 12 58.57	-05 19 16.4		046	1997 RW	1997 09 01.96203	22 59 38.85	-14 40 57.8		046
1997 QU ₂	1997 09 01.00177	23 12 58.33	-05 19 16.0		046	1997 RW	1997 09 01.96429	22 59 38.70	-14 40 58.4		046
1997 QU ₂	1997 09 01.00464	23 12 58.16	-05 19 16.3		046	1997 RW	1997 09 02.99513	22 58 51.08	-14 50 52.6	19.3 V	046
1997 QU ₂	1997 09 02.01906	23 12 01.85	-05 19 18.5	18.9 V	046	1997 RW	1997 09 02.99777	22 58 50.82	-14 50 53.8		046
1997 QU ₂	1997 09 02.02108	23 12 01.71	-05 19 18.8		046	1997 RW	1997 09 03.00481	22 58 50.51	-14 50 58.9		046
1997 QU ₂	1997 09 02.02413	23 12 01.55	-05 19 18.9		046	1997 RW	1997 09 03.00756	22 58 50.40	-14 50 58.8		046
1997 RA	1997 09 01.94361	21 53 10.34	-24 16 03.8	18.1 V	046	1997 RD ₁	1997 09 03.86598	21 34 04.56	-04 25 15.0		046
1997 RA	1997 09 01.94700	21 53 10.20	-24 16 03.6		046	1997 RD ₁	1997 09 03.87523	21 34 04.63	-04 25 28.2		046
1997 RA	1997 09 01.94959	21 53 10.13	-24 16 03.4		046	1997 RD ₁	1997 09 03.87762	21 34 04.70	-04 25 32.1		046
1997 RB	* 1997 09 01.06905	23 31 45.55	-01 54 40.1	18.8 V	046	1997 RD ₁	1997 09 03.88231	21 34 04.71	-04 25 37.9		046
1997 RB	1997 09 01.07347	23 31 45.30	-01 54 40.5		046	1997 RD ₁	1997 09 03.88552	21 34 04.69	-04 25 42.7		046
1997 RB	1997 09 01.07550	23 31 45.22	-01 54 40.8		046	1997 RD ₁	1997 09 05.81977	21 34 37.78	-05 10 04.5		046
1997 RB	1997 09 01.07937	23 31 45.00	-01 54 41.1		046	1997 RD ₁	1997 09 05.82178	21 34 37.81	-05 10 06.4	16.8 V	046
1997 RB	1997 09 02.02881	23 30 59.03	-01 55 55.5	18.9 V	046	1997 RD ₁	1997 09 05.82380	21 34 37.83	-05 10 09.4		046
1997 RB	1997 09 02.03145	23 30 58.87	-01 55 55.4		046	1997 RD ₁	1997 09 05.82591	21 34 37.86	-05 10 12.2		046
1997 RB	1997 09 02.03368	23 30 58.79	-01 55 55.6		046	1997 RD ₁	1997 09 05.82869	21 34 37.94	-05 10 15.8		046
1997 RC	* 1997 09 01.09876	03 48 41.95	+18 32 15.5	18.9 V	046	1997 RD ₁	1997 09 05.83076	21 34 37.98	-05 10 18.6		046
1997 RC	1997 09 01.10087	03 48 42.04	+18 32 16.0		046	1997 RD ₁	1997 09 08.77541	21 35 40.11	-06 16 40.0	16.9 V	046
1997 RC	1997 09 01.10543	03 48 42.19	+18 32 16.2		046	1997 RD ₁	1997 09 08.77676	21 35 40.15	-06 16 42.9		046
1997 RC	1997 09 01.10866	03 48 42.28	+18 32 17.5		046	1997 RD ₁	1997 09 08.78272	21 35 40.26	-06 16 50.1		046

1997 RD ₁	1997 09 10.86352	21 36 32.96	-07 02 34.6	16.1 R	046	6039 P-L	1997 08 03.84544	20 50 42.47	-06 17 54.3		046
1997 RD ₁	1997 09 10.86550	21 36 33.00	-07 02 37.2		046	6039 P-L	1997 08 07.97600	20 47 23.64	-06 37 45.0	17.6 V	046
1997 RD ₁	1997 09 10.86784	21 36 33.07	-07 02 40.2		046	6039 P-L	1997 08 07.97809	20 47 23.55	-06 37 45.7		046
1997 RD ₁	1997 09 12.89383	21 37 32.15	-07 46 02.8	16.6 V	046	6039 P-L	1997 08 07.98008	20 47 23.46	-06 37 46.0		046
1997 RD ₁	1997 09 12.89522	21 37 32.18	-07 46 04.7		046	6039 P-L	1997 08 09.94853	20 45 49.61	-06 47 40.5	17.7 V	046
1997 RD ₁	1997 09 12.89677	21 37 32.21	-07 46 06.4		046	6039 P-L	1997 08 09.95236	20 45 49.42	-06 47 41.6		046
1997 RD ₁	1997 09 12.89855	21 37 32.27	-07 46 09.0		046	6039 P-L	1997 08 09.95477	20 45 49.30	-06 47 42.4		046
1997 RK ₇	* 1997 09 10.83712	22 21 59.77	+01 00 05.2	16.3 V	046	6039 P-L	1997 08 12.83722	20 43 33.81	-07 02 38.8	17.4 V	046
1997 RK ₇	1997 09 10.83911	22 21 59.66	+01 00 05.3		046	6039 P-L	1997 08 12.84409	20 43 33.47	-07 02 41.0		046
1997 RK ₇	1997 09 10.84388	22 21 59.42	+01 00 05.3		046	6039 P-L	1997 08 12.86270	20 43 32.59	-07 02 47.0		046
1997 RK ₇	1997 09 10.84679	22 21 59.27	+01 00 05.4		046	6570 P-L	1997 09 02.11770	03 46 52.33	+18 25 32.4	18.1 V	046
1997 RK ₇	1997 09 11.95220	22 21 06.47	+01 00 08.0	16.4 V	046	6570 P-L	1997 09 02.11975	03 46 52.51	+18 25 32.7		046
1997 RK ₇	1997 09 11.95383	22 21 06.39	+01 00 07.9		046	6570 P-L	1997 09 02.12437	03 46 52.85	+18 25 33.8		046
1997 RK ₇	1997 09 11.95506	22 21 06.33	+01 00 07.9		046	6570 P-L	1997 09 03.10152	03 48 14.72	+18 28 06.9	18.0 V	046
1997 RK ₇	1997 09 11.95704	22 21 06.24	+01 00 08.0		046	6570 P-L	1997 09 03.10591	03 48 15.05	+18 28 07.3		046
1997 RL ₇	* 1997 09 10.90755	22 50 57.38	-14 28 09.9	17.2 R	046	6570 P-L	1997 09 03.11359	03 48 15.68	+18 28 09.0		046
1997 RL ₇	1997 09 10.91022	22 50 57.20	-14 28 09.0		046	(668)	1997 08 22.02361	22 35 24.75	+02 56 09.4	14.9 V	046
1997 RL ₇	1997 09 10.91270	22 50 57.03	-14 28 08.9		046	(668)	1997 08 22.02593	22 35 24.66	+02 56 08.7		046
1997 RL ₇	1997 09 10.91529	22 50 56.84	-14 28 08.1		046	(668)	1997 08 22.02789	22 35 24.58	+02 56 08.0		046
1997 RL ₇	1997 09 11.95968	22 49 48.92	-14 24 25.8		046	(668)	1997 08 23.03139	22 34 44.95	+02 50 40.3	14.8 V	046
1997 RL ₇	1997 09 11.96122	22 49 48.81	-14 24 25.5		046	(668)	1997 08 23.03584	22 34 44.77	+02 50 38.8		046
1997 RL ₇	1997 09 11.96352	22 49 48.67	-14 24 24.8	18.0 V	046	(668)	1997 08 23.04176	22 34 44.52	+02 50 36.9		046
1997 RL ₇	1997 09 11.96562	22 49 48.52	-14 24 24.4		046	(1094)	1997 08 12.96097	22 26 30.67	-09 50 14.5	16.0 V	046
1997 RM ₇	* 1997 09 10.95951	21 21 08.35	-07 48 55.3	19.5 V	046	(1094)	1997 08 12.96517	22 26 30.49	-09 50 16.7		046
1997 RM ₇	1997 09 10.96359	21 21 08.21	-07 48 57.2		046	(1094)	1997 08 12.96744	22 26 30.38	-09 50 18.0		046
1997 RM ₇	1997 09 10.96556	21 21 08.17	-07 48 58.5		046	(1094)	1997 08 13.94314	22 25 47.73	-09 59 26.2	16.1 V	046
1997 RM ₇	1997 09 10.96806	21 21 08.07	-07 48 59.7		046	(1094)	1997 08 13.94569	22 25 47.61	-09 59 27.6		046
1997 RM ₇	1997 09 11.97230	21 20 41.98	-07 57 14.7		046	(1094)	1997 08 13.94802	22 25 47.51	-09 59 28.9		046
1997 RM ₇	1997 09 11.97422	21 20 41.93	-07 57 15.8		046	(1943)	1997 08 11.92435	21 46 50.48	+17 12 46.4	15.3 V	046
1997 RM ₇	1997 09 11.97939	21 20 41.82	-07 57 18.2	19.5 V	046	(1943)	1997 08 11.92644	21 46 50.27	+17 12 45.2		046
1997 RN ₇	* 1997 09 11.03964	23 27 09.97	-01 59 21.7		046	(1943)	1997 08 11.92870	21 46 50.03	+17 12 43.9		046
1997 RN ₇	1997 09 11.04162	23 27 09.89	-01 59 22.9	19.1 R	046	(1943)	1997 09 08.89485	21 14 37.33	+09 49 24.2	16.0 V	046
1997 RN ₇	1997 09 11.04394	23 27 09.78	-01 59 24.7		046	(1943)	1997 09 08.89696	21 14 37.26	+09 49 21.9		046
1997 RN ₇	1997 09 11.04837	23 27 09.61	-01 59 27.1		046	(1943)	1997 09 08.89897	21 14 37.19	+09 49 19.8		046
1997 RN ₇	1997 09 11.98463	23 26 31.41	-02 09 06.3	18.8 R	046	(1980)	1997 08 11.83464	17 24 22.71	+48 54 14.5	14.5 V	046
1997 RN ₇	1997 09 11.98848	23 26 31.27	-02 09 09.2		046	(1980)	1997 08 11.83612	17 24 22.62	+48 54 15.8		046
1997 RN ₇	1997 09 11.99319	23 26 31.08	-02 09 11.6		046	(1980)	1997 08 11.83789	17 24 22.50	+48 54 17.4		046
1997 RN ₇	1997 09 11.99564	23 26 30.94	-02 09 13.6		046	(1980)	1997 09 12.79120	17 23 53.19	+54 49 26.8	14.1 R	046
1997 RD ₈	* 1997 09 11.98657	23 26 37.71	-02 04 43.0	18.9 R	046	(1980)	1997 09 12.79286	17 23 53.28	+54 49 27.6		046
1997 RD ₈	1997 09 11.98848	23 26 37.57	-02 04 44.0		046	(1980)	1997 09 12.79582	17 23 53.44	+54 49 29.3		046
1997 RD ₈	1997 09 11.99319	23 26 37.32	-02 04 46.5		046	(2100)	1997 08 12.06512	01 44 21.16	+23 26 59.6	16.3 V	046
1997 RD ₈	1997 09 11.99564	23 26 37.14	-02 04 47.6		046	(2100)	1997 08 12.06716	01 44 21.20	+23 26 57.7		046
1997 RD ₈	1997 09 12.98647	23 25 39.05	-02 11 37.1	18.9 V	046	(2100)	1997 08 12.06944	01 44 21.24	+23 26 55.6		046
1997 RD ₈	1997 09 12.98912	23 25 38.96	-02 11 38.1		046	(2100)	1997 09 12.05889	01 19 07.18	+02 27 18.2	13.4 R	046
1997 RD ₈	1997 09 12.99126	23 25 38.84	-02 11 39.4		046	(2100)	1997 09 12.06034	01 19 06.94	+02 27 11.2		046
1997 RD ₈	1997 09 12.99808	23 25 38.41	-02 11 41.6		046	(2100)	1997 09 12.06120	01 19 06.80	+02 27 06.8		046
1997 RD ₈	1997 09 13.00174	23 25 38.19	-02 11 43.0		046	(2100)	1997 09 12.06299	01 19 06.49	+02 26 58.0		046
6039 P-L	1997 08 02.00010	20 52 10.98	-06 09 30.7	17.8 V	046	(2390)	1997 08 31.06115	23 15 25.26	+01 44 20.5	15.4 V	046
6039 P-L	1997 08 02.00485	20 52 10.80	-06 09 32.1		046	(2390)	1997 08 31.06399	23 15 25.09	+01 44 20.6		046
6039 P-L	1997 08 02.00932	20 52 10.56	-06 09 33.4		046	(2390)	1997 08 31.06703	23 15 24.89	+01 44 20.7		046
6039 P-L	1997 08 03.83950	20 50 42.76	-06 17 52.8	17.5 V	046	(2390)	1997 09 01.00785	23 14 30.64	+01 44 52.6	15.6 V	046
6039 P-L	1997 08 03.84194	20 50 42.64	-06 17 53.5		046	(2390)	1997 09 01.01090	23 14 30.45	+01 44 52.8		046

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(2390)	1997 09 01.01362	23 14 30.29	+01 44 52.8		046	(4112)	1997 08 12.87176	20 55 11.64	-00 54 05.3		046
(2966)	1997 08 12.97932	23 06 11.92	-10 10 12.8	17.2 V	046	(4112)	1997 08 13.90032	20 54 29.45	-01 02 00.1	16.1 V	046
(2966)	1997 08 12.98197	23 06 11.81	-10 10 13.7		046	(4112)	1997 08 13.90425	20 54 29.29	-01 02 01.9		046
(2966)	1997 08 12.98454	23 06 11.68	-10 10 14.4		046	(4112)	1997 08 13.90675	20 54 29.19	-01 02 03.0		046
(2966)	1997 08 14.00846	23 05 26.00	-10 15 18.8	17.1 V	046	(4146)	1997 08 13.06073	23 45 09.31	-00 32 41.1	18.1 V	046
(2966)	1997 08 14.01243	23 05 25.81	-10 15 20.1		046	(4146)	1997 08 13.06497	23 45 09.19	-00 32 42.2		046
(2966)	1997 08 14.01589	23 05 25.65	-10 15 21.2		046	(4146)	1997 08 13.06964	23 45 09.06	-00 32 43.5		046
(3066)	1997 08 16.83075	16 29 52.77	-02 57 26.6	16.8 R	046	(4146)	1997 08 14.08326	23 44 41.56	-00 37 27.5	18.6 V	046
(3066)	1997 08 16.83227	16 29 52.82	-02 57 28.7		046	(4146)	1997 08 14.08756	23 44 41.46	-00 37 28.5		046
(3066)	1997 08 16.83523	16 29 52.89	-02 57 30.3		046	(4146)	1997 08 14.09000	23 44 41.38	-00 37 29.4		046
(3066)	1997 08 21.84552	16 33 01.68	-03 38 48.6	16.9 V	046	(4146)	1997 08 27.07106	23 36 42.76	-01 54 04.8	17.8 V	046
(3066)	1997 08 21.84817	16 33 01.79	-03 38 50.0		046	(4146)	1997 08 27.07616	23 36 42.53	-01 54 07.0		046
(3066)	1997 08 21.85112	16 33 01.91	-03 38 51.3		046	(4146)	1997 08 27.08005	23 36 42.34	-01 54 08.7		046
(3102)	1997 08 12.08370	04 25 33.99	+17 02 34.9		046	(4146)	1997 08 28.08698	23 35 56.39	-02 01 11.4	17.8 V	046
(3102)	1997 08 12.08498	04 25 34.14	+17 02 33.6	18.2 V	046	(4146)	1997 08 28.09005	23 35 56.24	-02 01 12.9		046
(3102)	1997 08 12.08830	04 25 34.66	+17 02 34.7		046	(4146)	1997 08 28.09333	23 35 56.09	-02 01 14.3		046
(3102)	1997 08 12.09502	04 25 35.66	+17 02 33.9		046	(4671)	1997 08 12.93644	22 50 09.07	-10 20 34.1	16.5 V	046
(3102)	1997 08 13.10341	04 28 06.45	+17 01 28.8	17.8 V	046	(4671)	1997 08 12.94054	22 50 08.86	-10 20 34.7		046
(3102)	1997 08 13.10477	04 28 06.74	+17 01 28.3		046	(4671)	1997 08 12.94581	22 50 08.60	-10 20 35.5		046
(3102)	1997 08 13.10598	04 28 06.85	+17 01 28.6		046	(4671)	1997 08 13.98990	22 49 17.34	-10 23 22.0	16.6 V	046
(3361)	1997 09 12.95752	00 15 00.14	+04 12 00.3	17.8 R	046	(4671)	1997 08 13.99228	22 49 17.21	-10 23 22.4		046
(3361)	1997 09 12.96172	00 14 59.71	+04 11 56.8		046	(4671)	1997 08 13.99420	22 49 17.11	-10 23 22.7		046
(3361)	1997 09 12.96551	00 14 59.28	+04 11 53.1		046	(4801)	1997 08 12.91792	22 37 54.18	-12 16 45.2	17.3 V	046
(3558)	1997 09 11.05288	22 58 28.61	-06 22 48.9	15.9 V	046	(4801)	1997 08 12.92106	22 37 54.07	-12 16 46.1		046
(3558)	1997 09 11.05484	22 58 28.47	-06 22 48.7		046	(4801)	1997 08 12.92351	22 37 53.93	-12 16 46.8		046
(3558)	1997 09 11.05709	22 58 28.32	-06 22 48.7		046	(4801)	1997 08 13.96286	22 37 06.30	-12 21 58.5	17.5 V	046
(3750)	1997 08 12.97080	23 01 46.16	-15 32 02.1	17.0 V	046	(4801)	1997 08 13.96513	22 37 06.19	-12 21 59.1		046
(3750)	1997 08 12.97355	23 01 46.06	-15 32 02.6		046	(4801)	1997 08 13.96723	22 37 06.08	-12 21 59.8		046
(3750)	1997 08 12.97589	23 01 45.96	-15 32 03.1		046	(5143)	1997 08 11.93262	22 14 04.71	-05 56 57.9	17.4 V	046
(3750)	1997 08 13.99969	23 01 01.94	-15 35 05.1	17.4 V	046	(5143)	1997 08 11.93580	22 14 04.34	-05 56 59.6		046
(3750)	1997 08 14.00183	23 01 01.84	-15 35 05.5		046	(5143)	1997 08 11.93800	22 14 04.08	-05 57 00.4		046
(3750)	1997 08 14.00406	23 01 01.74	-15 35 05.8		046	(5327)	1997 08 12.88039	20 58 46.45	-16 37 40.9	17.0 V	046
(3978)	1997 09 01.02175	23 25 27.96	+15 05 58.3	15.9 V	046	(5327)	1997 08 12.88248	20 58 46.35	-16 37 42.2		046
(3978)	1997 09 01.02453	23 25 27.84	+15 05 57.7		046	(5327)	1997 08 12.88450	20 58 46.23	-16 37 43.4		046
(3978)	1997 09 01.02942	23 25 27.62	+15 05 56.7		046	(5327)	1997 08 13.91372	20 57 51.35	-16 46 54.4	16.8 V	046
(3978)	1997 09 02.07910	23 24 42.38	+15 02 08.2	15.9 V	046	(5327)	1997 08 13.91759	20 57 51.14	-16 46 56.6		046
(3978)	1997 09 02.08223	23 24 42.25	+15 02 07.5		046	(5327)	1997 08 13.92043	20 57 50.97	-16 46 58.1		046
(3978)	1997 09 02.08443	23 24 42.15	+15 02 07.0		046	(5751)	1997 09 13.05591	04 24 04.78	-00 11 39.5	18.0 R	046
(3987)	1997 09 01.11184	03 46 01.20	+18 26 47.1	16.6 V	046	(5751)	1997 09 13.05767	04 24 04.89	-00 11 39.9		046
(3987)	1997 09 01.11436	03 46 01.31	+18 26 47.7		046	(5751)	1997 09 13.06425	04 24 05.31	-00 11 42.1		046
(3987)	1997 09 01.11940	03 46 01.53	+18 26 48.7		046	(5786)	1997 09 13.02433	01 09 51.53	-10 45 29.4	18.2 R	046
(3987)	1997 09 02.11770	03 46 46.15	+18 30 16.4	16.8 V	046	(5786)	1997 09 13.02610	01 09 51.32	-10 45 32.3		046
(3987)	1997 09 02.11975	03 46 46.24	+18 30 16.8		046	(5786)	1997 09 13.02963	01 09 50.89	-10 45 39.0		046
(3987)	1997 09 02.12437	03 46 46.44	+18 30 17.8		046	(5803)	1997 08 12.89890	22 02 23.95	-17 58 56.0	15.0 V	046
(4090)	1997 08 28.12153	00 46 43.84	+07 24 00.2	16.2 V	046	(5803)	1997 08 12.90319	22 02 23.79	-17 59 00.0		046
(4090)	1997 08 28.12388	00 46 43.77	+07 23 59.8		046	(5803)	1997 08 12.90587	22 02 23.68	-17 59 02.7		046
(4090)	1997 08 28.12659	00 46 43.68	+07 23 59.5		046	(5803)	1997 08 13.92663	22 01 46.42	-18 15 41.9	15.6 V	046
(4090)	1997 09 01.08576	00 44 34.21	+07 12 53.5	16.3 V	046	(5803)	1997 08 13.92876	22 01 46.34	-18 15 44.0		046
(4090)	1997 09 01.08792	00 44 34.13	+07 12 53.1		046	(5803)	1997 08 13.93108	22 01 46.25	-18 15 46.3		046
(4090)	1997 09 01.09073	00 44 34.02	+07 12 52.5		046	(6126)	1997 08 12.90977	22 15 40.19	-15 33 53.3	16.4 V	046
(4112)	1997 08 12.86686	20 55 11.85	-00 54 03.1	16.1 V	046	(6126)	1997 08 12.91181	22 15 40.06	-15 33 53.9		046
(4112)	1997 08 12.86910	20 55 11.76	-00 54 04.1		046	(6126)	1997 08 12.91373	22 15 39.95	-15 33 54.4		046

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(6126)	1997 08 13.93473	22 14 40.74	-15 38 58.1	16.4 V	046
(6126)	1997 08 13.93744	22 14 40.59	-15 38 59.0		046
(6126)	1997 08 13.93970	22 14 40.44	-15 38 59.6		046

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Observers O. Kovo, O. Shemmer, A. Retter

Measurer E. O. Ofek

1.0-m $f/7$ reflector + CCD

GSC

1997 NU	1997 08 02.73043	15 14 21.12	-05 27 36.7	18.7 V	097
1997 NU	1997 08 02.73772	15 14 21.56	-05 27 39.2	17.8 V	097
1997 NU	1997 08 08.72288	15 19 28.13	-06 30 50.5	16.0 R	097
1997 NU	1997 08 08.73573	15 19 28.81	-06 30 58.7	16.0 R	097

098 Asiago Observatory, Cima Ekar

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Observer U. Munari

Measurers M. Tombelli, G. Forti

0.67-m $f/3.2$ Schmidt

1994 WL	1994 12 03.94167	04 21 35.82	+24 11 49.7	17.5 V	098
1994 WL	1994 12 03.96251	04 21 34.17	+24 11 48.1		098
1995 DZ ₁₃	* 1995 02 24.97197	10 17 07.37	+10 19 15.5	18.5 V	098
1995 DZ ₁₃	1995 02 24.99280	10 17 06.14	+10 19 20.2		098

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

0.40-m $f/5$ reflector + CCD

GSC

1994 BT	1997 08 15.12017	03 46 39.05	+24 52 02.7	19.4 V	104
1994 BT	1997 08 15.12870	03 46 39.67	+24 52 06.4		104
1994 UC ₂	1997 08 09.95822	20 55 15.39	-08 40 32.8		104
1994 UC ₂	1997 08 09.96725	20 55 14.84	-08 40 35.0		104
1996 CN ₇	1997 09 01.94224	21 30 16.80	-18 12 23.6	17.2 V	104
1996 CN ₇	1997 09 01.96134	21 30 15.94	-18 12 26.8		104
1996 CW ₇	1997 09 01.98924	01 40 20.88	+01 40 29.7	17.9 V	104
1996 CW ₇	1997 09 02.02309	01 40 20.37	+01 40 17.1		104
1996 CV ₈	1997 08 31.95766	23 16 47.68	-12 12 10.3	16.3 V	104
1996 CV ₈	1997 08 31.96308	23 16 47.36	-12 12 11.6		104
1996 CV ₈	1997 09 01.96539	23 15 47.28	-12 17 01.5	16.2 V	104
1996 CV ₈	1997 09 01.97690	23 15 46.54	-12 17 04.6		104
1996 CK ₉	1997 08 09.93862	20 54 49.02	-13 12 11.3		104
1996 CK ₉	1997 08 09.95411	20 54 48.26	-13 12 19.6		104
1996 CK ₉	1997 08 09.96319	20 54 47.79	-13 12 24.8		104
1996 CK ₉	1997 08 14.92465	20 50 55.40	-13 57 27.0	16.2 V	104
1996 CK ₉	1997 08 14.95183	20 50 54.06	-13 57 42.1		104
1996 DP	1997 08 09.94411	20 51 09.92	-17 36 56.8		104
1996 DP	1997 08 09.95610	20 51 09.30	-17 37 00.2		104

1996 DP	1997 08 09.96530	20 51 08.80	-17 37 02.5		104
1997 NJ ₁₀	1997 08 24.02812	20 49 25.28	-08 21 15.7	17.4 V	104
1997 NK ₁₀	1997 08 24.02062	20 43 42.35	-04 15 15.6	17.9 V	104
1997 NK ₁₀	1997 08 24.02979	20 43 41.93	-04 15 21.8	18.0 V	104
1997 NM ₁₀	1997 08 09.91395	19 30 04.80	-12 49 58.2		104
1997 NM ₁₀	1997 08 09.91794	19 30 04.68	-12 49 56.2		104
1997 NM ₁₀	1997 08 09.92130	19 30 04.50	-12 49 55.2		104
1997 NM ₁₀	1997 08 09.92685	19 30 04.30	-12 49 53.4		104
1997 NM ₁₀	1997 08 10.91979	19 29 24.24	-12 44 40.8		104
1997 NM ₁₀	1997 08 10.92431	19 29 24.06	-12 44 39.3		104
1997 NM ₁₀	1997 08 10.92882	19 29 23.86	-12 44 38.1		104
1997 NM ₁₀	1997 08 22.91528	19 24 11.76	-11 49 18.9	18.3 V	104
1997 NM ₁₀	1997 08 22.91979	19 24 11.71	-11 49 18.0		104
1997 NM ₁₀	1997 08 22.92396	19 24 11.69	-11 49 17.0		104
1997 NM ₁₀	1997 08 22.92813	19 24 11.63	-11 49 16.0		104
1997 NM ₁₀	1997 08 22.93764	19 24 11.51	-11 49 13.8		104
1997 OB ₁	1997 08 10.94873	20 55 14.22	-12 34 57.8		104
1997 OB ₁	1997 08 10.95764	20 55 13.83	-12 35 01.6		104
1997 OB ₁	1997 08 10.96765	20 55 13.36	-12 35 06.5		104
1997 OB ₁	1997 08 31.92523	20 44 27.35	-14 58 20.5	18.8 V	104
1997 OB ₁	1997 08 31.93375	20 44 27.20	-14 58 24.2		104
1997 OB ₁	1997 08 31.94592	20 44 26.97	-14 58 28.0		104
1997 OC ₁	1997 08 14.99750	20 50 22.99	-13 11 15.8	17.6 V	104
1997 OC ₁	1997 08 15.02164	20 50 21.85	-13 11 22.4		104
1997 OC ₁	1997 08 24.02292	20 43 26.70	-14 08 55.7	17.7 V	104
1997 OC ₁	1997 08 24.03324	20 43 26.30	-14 08 59.8		104
1997 OE ₂	1997 08 13.86632	21 13 13.92	-14 38 24.2		104
1997 OE ₂	1997 08 13.87014	21 13 13.70	-14 38 26.0		104
1997 OE ₂	1997 08 13.87396	21 13 13.48	-14 38 27.7		104
1997 PH ₄	1997 08 15.03583	21 37 45.52	-07 14 12.0	18.5 V	104
1997 PH ₄	1997 08 15.03958	21 37 45.30	-07 14 16.4		104
1997 PH ₄	1997 08 15.04329	21 37 45.11	-07 14 21.5		104
1997 PH ₄	1997 08 15.04653	21 37 44.89	-07 14 27.3		104
1997 PO ₄	* 1997 08 13.94623	23 02 48.85	-04 59 07.3	18.0 V	104
1997 PO ₄	1997 08 13.95747	23 02 48.33	-04 59 07.8		104
1997 PO ₄	1997 08 13.96840	23 02 47.96	-04 59 08.0		104
1997 PO ₄	1997 08 13.98396	23 02 47.48	-04 59 08.4		104
1997 PO ₄	1997 08 15.10819	23 02 08.72	-04 59 55.0		104
1997 PO ₄	1997 08 15.13588	23 02 07.64	-04 59 57.2		104
1997 PP ₄	* 1997 08 13.95029	23 03 23.79	-05 06 30.9	17.5 V	104
1997 PP ₄	1997 08 13.96169	23 03 23.38	-05 06 35.0		104
1997 PP ₄	1997 08 13.97124	23 03 23.03	-05 06 38.2		104
1997 PP ₄	1997 08 15.10933	23 02 45.95	-05 15 00.8		104
1997 PP ₄	1997 08 15.14106	23 02 44.92	-05 15 13.3		104
1997 PP ₄	1997 08 15.93752	23 02 18.34	-05 21 13.8	17.5 V	104
1997 PP ₄	1997 08 16.02685	23 02 14.99	-05 21 53.9		104
1997 PP ₄	1997 08 22.95272	22 57 44.58	-06 18 57.5	17.2 V	104
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1997 PP ₄	1997 08 22.98148	22 57 43.32	-06 19 12.6		104
1997 PQ ₄	* 1997 08 13.95382	23 03 29.62	-05 35 11.6	17.3 V	104
1997 PQ ₄	1997 08 13.95544	23 03 29.60	-05 35 13.0		104
1997 PQ ₄	1997 08 13.96499	23 03 29.38	-05 35 18.2		104

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1997 PQ ₄	1997 08 13.96661	23 03 29.35	-05 35 19.5		104
1997 PQ ₄	1997 08 13.97442	23 03 29.16	-05 35 23.7		104
1997 PQ ₄	1997 08 13.97604	23 03 29.13	-05 35 25.2		104
1997 PQ ₄	1997 08 15.11051	23 03 03.12	-05 46 37.3		104
1997 PQ ₄	1997 08 15.13962	23 03 02.45	-05 46 54.7		104
1997 PQ ₄	1997 08 15.14279	23 03 02.28	-05 46 58.1		104
1997 PQ ₄	1997 08 22.95692	22 59 16.80	-07 11 36.8	17.0 V	104
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1997 RX	1997 09 01.02361	22 43 48.25	-04 44 44.3		104
1997 RX	1997 09 01.96824	22 42 58.50	-04 50 11.6	17.7 V	104
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1997 RY	* 1997 09 01.00625	22 44 11.22	-03 28 58.8	17.6 V	104
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1997 RZ	* 1997 09 01.00884	22 42 35.73	-03 38 20.0	17.5 V	104
1997 RZ	1997 09 01.03174	22 42 34.48	-03 38 24.4		104
1997 RZ	1997 09 01.97206	22 41 46.90	-03 42 00.1	17.3 V	104
1997 RZ	1997 09 01.98438	22 41 46.34	-03 42 01.4		104
(6269)	1997 08 14.99750	20 50 46.46	-13 10 04.1	16.6 V	104
(6269)	1997 08 15.02164	20 50 45.27	-13 10 15.5		104

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GSC

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1997 OU ₂	1997 08 12.98235	20 54 28.46	-12 31 57.0	17.1 R	106
1997 OU ₂	1997 08 22.83580	20 48 41.50	-14 32 10.8	17.4 R	106
1997 OU ₂	1997 08 22.86463	20 48 40.58	-14 32 31.2	17.4 R	106
1997 OU ₂	1997 08 30.86816	20 45 39.96	-16 02 14.0	17.7 R	106
1997 OU ₂	1997 08 30.88527	20 45 39.64	-16 02 25.0	17.7 R	106
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1997 OU ₂	1997 09 03.88194	20 44 55.09	-16 42 43.1	17.7 R	106
1997 OU ₂	1997 09 08.82682	20 44 47.36	-17 27 33.9	17.9 R	106
1997 OU ₂	1997 09 08.84965	20 44 47.37	-17 27 45.8	17.9 R	106
1997 PC ₄	* 1997 08 04.95538	21 29 39.31	-09 56 13.6	17.4 R	106
1997 PC ₄	1997 08 04.98848	21 29 37.86	-09 56 27.7	17.4 R	106
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1997 PC ₄	1997 08 12.98956	21 23 59.64	-10 56 29.5	17.1 R	106
1997 PC ₄	1997 08 22.83885	21 17 21.58	-12 13 05.8	17.2 R	106
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1997 PC ₄	1997 09 03.84089	21 11 21.10	-13 38 29.7	17.5 R	106
1997 PC ₄	1997 09 03.87300	21 11 20.34	-13 38 42.2	17.5 R	106
1997 PC ₄	1997 09 08.83064	21 09 55.21	-14 08 35.3	17.7 R	106
1997 PC ₄	1997 09 08.86104	21 09 54.74	-14 08 45.7	17.7 R	106

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GSC

1997 QP ₂	1997 09 02.84980	21 47 08.22	-04 13 44.2		108
1997 QP ₂	1997 09 02.85810	21 47 07.07	-04 13 33.4	18.2 V	108
1997 RA	1997 09 02.91354	21 52 39.53	-24 14 43.4		108
1997 RA	1997 09 02.92164	21 52 39.29	-24 14 41.3		108
1997 RA	1997 09 02.92859	21 52 39.04	-24 14 39.5	18.0 V	108
1997 RT	1997 09 08.00185	01 02 03.30	+33 07 15.6		108
1997 RT	1997 09 08.00353	01 02 03.68	+33 07 19.2		108
1997 RT	1997 09 08.00503	01 02 03.76	+33 07 22.4	16.6 V	108
1997 RX	1997 09 02.94005	22 42 07.22	-04 55 49.8		108
1997 RX	1997 09 02.94421	22 42 07.00	-04 55 53.6		108
1997 RX	1997 09 02.94936	22 42 06.67	-04 55 53.5	18.1 V	108
1997 RX	1997 09 07.96101	22 37 41.87	-05 25 35.0		108
1997 RX	1997 09 07.96777	22 37 41.43	-05 25 38.6		108
1997 RX	1997 09 08.01352	22 37 39.02	-05 25 54.6		108
1997 RZ	1997 09 02.88995	22 41 00.59	-03 45 30.3		108
1997 RZ	1997 09 02.90214	22 41 00.06	-03 45 33.0		108
1997 RD ₁	1997 09 04.88590	21 34 21.07	-04 48 41.2		108
1997 RD ₁	1997 09 04.89154	21 34 21.01	-04 48 47.4	16.5 V	108
1997 RD ₁	1997 09 07.85325	21 35 18.98	-05 56 03.0		108
1997 RD ₁	1997 09 07.87326	21 35 19.27	-05 56 31.1		108
1997 RM ₁	1997 09 04.84676	20 26 28.91	-26 11 27.4	16.5 V	108
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1997 RM ₁	1997 09 04.85874	20 26 29.31	-26 11 20.8		108
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1997 RV ₆	1997 09 07.96777	22 37 23.94	-05 29 17.1	18.0 V	108
1997 RV ₆	1997 09 08.01352	22 37 20.86	-05 29 22.6		108
1997 RV ₆	1997 09 09.90952	22 35 26.16	-05 34 21.1		108
1997 RV ₆	1997 09 09.91980	22 35 25.56	-05 34 21.6		108
1997 RV ₆	1997 09 09.93214	22 35 24.91	-05 34 22.3		108
(1943)	1997 08 23.88001	21 29 06.81	+14 33 58.6		108
(1943)	1997 08 23.88339	21 29 06.46	+14 33 56.1	16.0 V	108
(1943)	1997 08 23.89876	21 29 05.21	+14 33 40.3		108

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(5)	1997 08 13.89194	22 11 44.36	-12 01 19.3	11.6 R	117
(5)	1997 08 13.97609	22 11 40.21	-12 01 49.5	11.8 R	117
(5)	1997 08 16.88581	22 09 16.69	-12 19 29.8	10.9 R	117
(5)	1997 08 16.89213	22 09 16.36	-12 19 33.1	11.3 R	117
(5)	1997 08 25.86678	22 01 42.22	-13 14 01.7	11.7 R	117
(5)	1997 08 25.93104	22 01 38.92	-13 14 24.7	11.6 R	117
(19)	1997 08 13.92165	22 18 58.87	-07 45 18.8	11.0 R	117
(19)	1997 08 13.98003	22 18 55.93	-07 45 34.9	11.0 R	117
(19)	1997 08 16.89987	22 16 31.19	-07 59 38.8	9.9 R	117
(19)	1997 08 16.94426	22 16 28.71	-07 59 51.0	11.6 R	117
(19)	1997 08 25.89197	22 08 36.35	-08 47 05.8	10.9 R	117

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1993 FL ₆	1997 08 22.05634	23 42 33.49	-05 31 13.6		118	1997 PN	1997 08 13.98171	20 05 32.45	-05 05 23.4		118
1993 FL ₆	1997 08 23.04125	23 41 51.05	-05 37 07.9		118	1997 PO	1997 08 12.93745	20 12 01.77	-15 34 33.1	17.8 R	118
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1993 FL ₆	1997 08 24.07105	23 41 05.11	-05 43 25.8		118	1997 PO	1997 08 12.94381	20 12 01.70	-15 34 44.5		118
1993 FL ₆	1997 08 24.07477	23 41 04.89	-05 43 27.2	17.9 R	118	1997 PO	1997 08 13.96230	20 11 55.11	-16 05 26.7		118
1994 QC	1997 08 11.89426	17 54 39.80	+07 28 30.2	18.5 R	118	1997 PO	1997 08 13.96436	20 11 55.10	-16 05 30.4	18.3 R	118
1994 QC	1997 08 11.90110	17 54 40.53	+07 28 08.9		118	1997 PO	1997 08 13.96780	20 11 55.08	-16 05 36.5		118
1994 QC	1997 08 12.88079	17 56 30.16	+06 37 19.7		p 118	1997 PM ₁	1997 09 01.87039	21 45 11.84	-17 09 24.4		118
1994 QC	1997 08 12.88569	17 56 30.73	+06 37 03.6		118	1997 PM ₁	1997 09 01.87380	21 45 11.72	-17 09 25.7		118
1996 HO	1997 08 20.94108	22 35 01.04	-15 58 04.5		118	1997 PM ₁	1997 09 01.88369	21 45 11.30	-17 09 28.3	18.8 R	118
1996 HO	1997 08 22.01734	22 34 06.37	-16 07 50.2	18.0 R	118	1997 PM ₁	1997 09 02.86498	21 44 32.31	-17 13 44.3		118
1996 HO	1997 08 22.02058	22 34 06.26	-16 07 52.3		118	1997 PM ₁	1997 09 02.87146	21 44 32.05	-17 13 46.4	18.5 R	118
1996 HO	1997 08 25.03074	22 31 30.38	-16 34 55.3		r 118	1997 PM ₁	1997 09 02.87466	21 44 31.94	-17 13 47.2		118
1996 HO	1997 08 25.03766	22 31 30.03	-16 34 59.1	17.9 R	r 118	1997 PZ ₁	1997 08 11.99219	21 40 53.65	-12 44 48.0		118
1996 HO	1997 09 04.96429	22 21 51.99	-18 06 14.0	18.4 R	118	1997 PZ ₁	1997 08 11.99652	21 40 53.47	-12 44 49.1	18.3 R	118
1996 HO	1997 09 04.96602	22 21 51.84	-18 06 14.8		118	1997 PZ ₁	1997 08 12.00374	21 40 53.11	-12 44 51.5		118
1996 HO	1997 09 04.96770	22 21 51.79	-18 06 15.5		118	1997 PZ ₁	1997 08 12.96936	21 40 08.31	-12 49 39.7		118
1996 HO	1997 09 07.97751	22 19 18.24	-18 28 22.0		r 118	1997 PZ ₁	1997 08 12.97214	21 40 08.21	-12 49 40.6		118
1996 HO	1997 09 07.97964	22 19 18.10	-18 28 23.6	18.3 R	r 118	1997 PZ ₁	1997 08 12.97574	21 40 08.02	-12 49 41.6	18.7 R	118
1997 LY ₄	1997 08 11.96618	19 37 56.68	+07 25 01.0	16.6 R	118	1997 PZ ₁	1997 08 14.04946	21 39 17.89	-12 55 03.6		118
1997 LY ₄	1997 08 11.97270	19 37 56.78	+07 25 01.8		118	1997 PZ ₁	1997 08 14.05256	21 39 17.74	-12 55 04.5		118
1997 LY ₄	1997 08 11.97825	19 37 56.86	+07 25 02.3		118	1997 PZ ₁	1997 08 14.06292	21 39 17.25	-12 55 07.6	18.2 R	118
1997 LY ₄	1997 08 13.92142	19 38 41.57	+07 27 42.9		118	1997 PZ ₁	1997 08 19.90422	21 34 44.98	-13 24 19.9		118
1997 LY ₄	1997 08 13.92837	19 38 41.68	+07 27 43.1		118	1997 PZ ₁	1997 08 19.91170	21 34 44.59	-13 24 22.0		118
1997 LY ₄	1997 08 13.93244	19 38 41.75	+07 27 43.9	16.5 R	118	1997 PZ ₁	1997 08 20.88251	21 33 59.65	-13 29 10.6		118
1997 LY ₄	1997 08 15.91190	19 39 36.95	+07 28 19.7		118	1997 PZ ₁	1997 08 21.89017	21 33 13.32	-13 34 07.7		118
1997 LY ₄	1997 08 15.91687	19 39 37.08	+07 28 19.8		118	1997 PZ ₁	1997 08 21.89703	21 33 13.02	-13 34 10.2		118
1997 LY ₄	1997 08 15.92035	19 39 37.16	+07 28 19.7		118	1997 PZ ₁	1997 08 26.96585	21 29 25.69	-13 58 37.4	18.5 R	118
1997 LY ₄	1997 09 08.84873	20 03 18.53	+05 39 32.2	17.0 R	118	1997 PZ ₁	1997 08 26.97376	21 29 25.38	-13 58 39.6		118
1997 LY ₄	1997 09 08.85111	20 03 18.72	+05 39 31.0	16.9 R	118	1997 PZ ₁	1997 09 01.79674	21 25 24.00	-14 24 58.4		p 118
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1997 NL ₆	1997 09 11.84086	19 56 31.61	-14 41 07.1		p 118	1997 PZ ₁	1997 09 02.79549	21 24 45.30	-14 29 15.3		118
1997 NL ₆	1997 09 11.85069	19 56 31.96	-14 41 08.7		p 118	1997 PZ ₁	1997 09 02.79885	21 24 45.16	-14 29 16.3		118
1997 OH ₁	1997 08 21.95809	21 54 15.16	-16 30 10.5		r 118	1997 PZ ₁	1997 09 02.80245	21 24 45.00	-14 29 17.3	18.7 R	118
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1997 OH ₁	1997 08 21.97514	21 54 14.33	-16 30 14.2	18.3 R	r 118	1997 PZ ₁	1997 09 05.88163	21 22 51.76	-14 41 53.4	18.7 R	118
1997 OH ₁	1997 08 22.90900	21 53 24.94	-16 34 43.2		r 118	1997 PZ ₁	1997 09 08.89072	21 21 11.14	-14 53 24.0	18.8 R	118
1997 OH ₁	1997 08 22.91584	21 53 24.60	-16 34 44.1	19 R	r 118	1997 PZ ₁	1997 09 08.89698	21 21 10.94	-14 53 25.3	18.9 R	118
1997 OH ₁	1997 08 23.99913	21 52 26.99	-16 39 51.6	18.5 R	118	1997 PZ ₁	1997 09 08.90116	21 21 10.78	-14 53 26.8	18.6 R	118
1997 OH ₁	1997 08 24.00264	21 52 26.77	-16 39 52.0		118	1997 PA ₂	1997 08 12.01580	22 02 21.64	-15 46 31.9		r 118
1997 OH ₁	1997 08 24.91501	21 51 38.86	-16 44 05.1	18.2 R	118	1997 PA ₂	1997 08 12.02321	22 02 21.31	-15 46 33.3		r 118
1997 OH ₁	1997 08 24.96543	21 51 36.01	-16 44 19.2		118	1997 PA ₂	1997 08 12.02709	22 02 21.05	-15 46 34.4		r 118
1997 OH ₁	1997 08 28.03448	21 48 55.79	-16 57 52.2	18.7 R	118	1997 PA ₂	1997 08 12.99241	22 01 35.24	-15 50 33.6		118
1997 OH ₁	1997 08 28.04142	21 48 55.42	-16 57 52.5	18.6 R	118	1997 PA ₂	1997 08 13.00076	22 01 34.75	-15 50 34.9		118
1997 OJ ₁	1997 08 12.03289	22 02 34.95	-15 48 38.5		r 118	1997 PA ₂	1997 08 13.00444	22 01 34.57	-15 50 35.3	19.0 R	118
1997 OJ ₁	1997 08 12.04069	22 02 34.58	-15 48 41.4		r 118	1997 PA ₂	1997 09 01.90433	21 45 43.85	-17 02 27.1		118
1997 OJ ₁	1997 08 12.99241	22 01 50.52	-15 53 35.2		118	1997 PA ₂	1997 09 01.91030	21 45 43.55	-17 02 28.2	19.5 R	118
1997 OJ ₁	1997 08 12.99588	22 01 50.34	-15 53 36.9		118	1997 PA ₂	1997 09 02.88259	21 45 01.41	-17 05 09.3		p 118
1997 OJ ₁	1997 08 13.00076	22 01 50.09	-15 53 38.2	18.5 R	118	1997 PA ₂	1997 09 02.88869	21 45 01.11	-17 05 10.2	19.2 R	p 118
1997 OJ ₁	1997 08 13.00444	22 01 49.95	-15 53 39.2		118	1997 PF ₃	* 1997 08 11.07633	23 07 40.37	-08 54 10.2	18.6 R	118

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1997 PF ₃	1997 08 13.02895	23 06 34.24	-09 02 45.2		r 118	1997 QA	1997 08 20.06604	02 04 54.21	+20 28 02.6	17.3 R		118
1997 PF ₃	1997 08 13.03354	23 06 34.06	-09 02 46.4		r 118	1997 QA	1997 08 20.06928	02 04 54.31	+20 28 04.3			118
1997 PF ₃	1997 08 13.03840	23 06 33.84	-09 02 48.2	19.1 R	r 118	1997 QA	1997 08 20.08054	02 04 54.64	+20 28 09.4			118
1997 PF ₃	1997 08 14.07454	23 05 56.97	-09 07 29.3		118	1997 QA	1997 08 21.05821	02 05 22.69	+20 35 19.3			118
1997 PF ₃	1997 08 14.07813	23 05 56.82	-09 07 30.3	19.2 R	118	1997 QA	1997 08 21.06182	02 05 22.77	+20 35 20.9	17.2 R		118
1997 PF ₃	1997 08 14.08161	23 05 56.67	-09 07 31.6		118	1997 QA	1997 08 26.08753	02 07 22.01	+21 10 27.2	17.5 R		118
1997 PF ₃	1997 08 22.97414	22 59 58.98	-09 50 22.5	18.9 R	r 118	1997 QA	1997 08 26.09170	02 07 22.09	+21 10 28.9			118
1997 PF ₃	1997 08 22.98076	22 59 58.64	-09 50 24.4		r 118	1997 QA	1997 08 27.93877	02 07 55.31	+21 22 36.0	17.6 R		118
1997 PF ₃	1997 08 22.98921	22 59 58.25	-09 50 27.0		r 118	1997 QA	1997 08 27.94469	02 07 55.40	+21 22 38.3	17.7 R		118
1997 PF ₃	1997 08 24.03860	22 59 11.92	-09 55 42.8	18.4 R	118	1997 QA	1997 09 01.05749	02 08 46.59	+21 48 01.2			118
1997 PF ₃	1997 08 24.05170	22 59 11.40	-09 55 47.0		118	1997 QA	1997 09 01.06362	02 08 46.63	+21 48 03.2			118
1997 PF ₃	1997 09 01.03640	22 53 04.48	-10 35 34.6		118	1997 QA	1997 09 01.06744	02 08 46.65	+21 48 04.6	17.0 R		118
1997 PF ₃	1997 09 01.04082	22 53 04.26	-10 35 35.9	18.6 R	118	1997 QA	1997 09 06.04390	02 09 06.47	+22 15 30.9			118
1997 PF ₃	1997 09 01.92144	22 52 23.25	-10 39 51.9	18.6 R	118	1997 QA	1997 09 06.05395	02 09 06.45	+22 15 34.1	17.1 R		118
1997 PF ₃	1997 09 01.92468	22 52 23.11	-10 39 53.1		118	1997 QA	1997 09 11.06861	02 08 37.78	+22 39 10.4	17.0 R		118
1997 PF ₃	1997 09 01.93446	22 52 22.63	-10 39 55.9		118	1997 QA	1997 09 11.07418	02 08 37.72	+22 39 11.8			118
1997 PF ₃	1997 09 03.87480	22 50 51.89	-10 49 12.9		p 118	1997 QA	1997 09 11.07755	02 08 37.68	+22 39 12.8			118
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1997 PF ₃	1997 09 03.88822	22 50 51.30	-10 49 16.7	18.5 R	p 118	1997 QA	1997 09 11.99681	02 08 27.26	+22 43 04.5			118
1997 PF ₃	1997 09 07.99900	22 47 41.08	-11 08 07.3		r 118	1997 QA	1997 09 12.00237	02 08 27.18	+22 43 05.9	16.8 R		118
1997 PF ₃	1997 09 08.00784	22 47 40.66	-11 08 10.0		r 118	1997 QG	1997 08 21.90716	21 34 29.19	-13 26 32.4			118
1997 PF ₃	1997 09 09.02456	22 46 54.63	-11 12 36.8	18.9 R	118	1997 QG	1997 08 21.91412	21 34 28.78	-13 26 35.2			118
1997 PW ₄	* 1997 08 10.88250	21 41 22.09	-12 40 06.1		118	1997 QG	1997 08 21.92074	21 34 28.39	-13 26 37.7	18.4 R		118
1997 PW ₄	1997 08 10.89326	21 41 21.64	-12 40 08.4		118	1997 QG	1997 08 22.80492	21 33 43.73	-13 32 12.7			118
1997 PW ₄	1997 08 10.92409	21 41 20.48	-12 40 16.7		118	1997 QG	1997 08 22.80815	21 33 43.58	-13 32 14.1	18.4 R		118
1997 PW ₄	1997 08 11.99219	21 40 40.11	-12 44 29.7		118	1997 QG	1997 08 22.81482	21 33 43.25	-13 32 16.8			118
1997 PW ₄	1997 08 11.99652	21 40 39.99	-12 44 30.7	19.0 R	118	1997 QG	* 1997 08 23.83448	21 32 51.70	-13 38 40.6			118
1997 PW ₄	1997 08 11.99978	21 40 39.87	-12 44 31.5		118	1997 QG	1997 08 23.84404	21 32 51.28	-13 38 45.1			118
1997 PW ₄	1997 08 12.00374	21 40 39.73	-12 44 33.0		118	1997 QG	1997 08 24.80400	21 32 03.35	-13 44 42.5			118
1997 PW ₄	1997 08 12.96936	21 40 03.22	-12 48 24.8		118	1997 QG	1997 08 24.81036	21 32 02.95	-13 44 45.7	18.2 R		118
1997 PW ₄	1997 08 12.97214	21 40 03.14	-12 48 25.3		118	1997 QG	1997 08 26.91112	21 30 19.38	-13 57 42.0	18.8 R		118
1997 PW ₄	1997 08 12.97574	21 40 02.97	-12 48 26.2		118	1997 QG	1997 08 26.91459	21 30 19.17	-13 57 43.4			118
1997 PW ₄	1997 08 14.04946	21 39 22.20	-12 52 44.8	19.1 R	118	1997 QG	1997 08 31.94141	21 26 23.15	-14 27 30.0	18.4 R		118
1997 PW ₄	1997 08 14.05256	21 39 22.07	-12 52 45.3		118	1997 QG	1997 08 31.94584	21 26 22.96	-14 27 31.7			118
1997 PW ₄	1997 08 14.06292	21 39 21.70	-12 52 47.4	18.8 R	118	1997 QG	1997 09 01.82313	21 25 44.04	-14 32 31.8			118
1997 PW ₄	1997 08 22.83066	21 33 51.24	-13 27 44.7	19.0 R	118	1997 QG	1997 09 01.82803	21 25 43.85	-14 32 33.2			118
1997 PW ₄	1997 08 22.84154	21 33 50.90	-13 27 47.6		118	1997 QG	1997 09 01.83120	21 25 43.70	-14 32 34.4	18.8 R		118
1997 PW ₄	1997 08 24.83420	21 32 37.67	-13 35 32.2	19.1 R	118	1997 QG	1997 09 02.81458	21 25 00.73	-14 38 04.6			118
1997 PW ₄	1997 08 24.83586	21 32 37.65	-13 35 33.5		118	1997 QG	1997 09 02.82098	21 25 00.46	-14 38 07.2	18.9 R		118
1997 PW ₄	1997 09 01.84008	21 28 00.40	-14 05 18.1		r 118	1997 QG	1997 09 03.80078	21 24 18.70	-14 43 31.1			118
1997 PW ₄	1997 09 01.85750	21 27 59.80	-14 05 20.7	19.3 R	r 118	1997 QG	1997 09 03.80750	21 24 18.38	-14 43 32.8	18.3 R		118
1997 PW ₄	1997 09 02.82976	21 27 28.53	-14 08 44.4		r 118	1997 QG	1997 09 04.85556	21 23 34.69	-14 49 14.4			118
1997 PW ₄	1997 09 02.83574	21 27 28.38	-14 08 46.1		r 118	1997 QG	1997 09 04.85868	21 23 34.53	-14 49 14.9			118
1997 PW ₄	1997 09 02.84971	21 27 27.93	-14 08 49.1	19.3 R	r 118	1997 QG	1997 09 04.86194	21 23 34.41	-14 49 15.9	18.9 R		118
1997 QA	* 1997 08 16.03913	02 02 43.07	+19 57 25.2		118	1997 QG	1997 09 08.86990	21 20 58.80	-15 09 52.9	18.7 R		118
1997 QA	1997 08 16.04258	02 02 43.19	+19 57 27.1	17.5 R	118	1997 QG	1997 09 08.87491	21 20 58.61	-15 09 54.2	18.9 R		118
1997 QA	1997 08 16.04660	02 02 43.29	+19 57 28.9		118	1997 QG	1997 09 08.87821	21 20 58.47	-15 09 55.1	18.8 R		118
1997 QA	1997 08 16.04830	02 02 43.39	+19 57 29.7		118	1997 QN	1997 08 25.96281	02 12 46.71	+20 22 39.1	17.7 R		118
1997 QA	1997 08 16.05197	02 02 43.50	+19 57 31.4		118	1997 QN	1997 08 25.97670	02 12 47.20	+20 22 42.8			118
1997 QA	1997 08 18.08323	02 03 52.77	+20 13 11.1		r 118	1997 QN	1997 08 26.02911	02 12 49.04	+20 22 58.1			118

1997 SEPT.16

M.P.C. 30519

1997 QN	1997 08 27.91023	02 13 53.59	+20 31 37.7	18.1 R	118	1997 RT	1997 09 11.95045	01 12 16.22	+35 27 26.5		118
1997 QN	1997 08 27.91715	02 13 53.93	+20 31 38.7	18.3 R	118	1997 RT	1997 09 11.95302	01 12 16.53	+35 27 31.0	17.3 R	118
1997 QS	* 1997 08 24.90426	21 51 18.30	-16 46 26.5	18.2 R	118	1997 RT	1997 09 11.95625	01 12 16.87	+35 27 37.2		118
1997 QS	1997 08 24.91150	21 51 17.96	-16 46 27.5		118	1997 RD ₁	1997 09 08.92749	21 35 43.12	-06 20 02.9	17.4 R	118
1997 QS	1997 08 24.96543	21 51 15.24	-16 46 39.8		118	1997 RD ₁	1997 09 08.93017	21 35 43.18	-06 20 06.5	17.5 R	118
1997 QS	1997 08 26.94003	21 49 40.41	-16 53 14.9		118	1997 RD ₁	1997 09 08.93325	21 35 43.24	-06 20 10.6	17.5 R	118
1997 QS	1997 08 26.94420	21 49 40.18	-16 53 15.5		118	1997 RD ₁	1997 09 12.94366	21 37 33.52	-07 47 06.5		118
1997 QS	1997 08 28.03448	21 48 48.12	-16 56 48.9	18.5 R	118	1997 RD ₁	1997 09 12.94692	21 37 33.61	-07 47 10.0		118
1997 QS	1997 08 28.03726	21 48 47.96	-16 56 49.7	18.7 R	118	1997 RD ₁	1997 09 12.94965	21 37 33.69	-07 47 13.2	17.3 R	118
1997 QS	1997 09 01.87380	21 45 06.76	-17 11 07.2		118	(1094)	1997 08 15.95645	22 24 17.52	-10 18 31.9		118
1997 QS	1997 09 01.88017	21 45 06.47	-17 11 08.7		118	(1094)	1997 08 15.96427	22 24 17.14	-10 18 36.2		118
1997 QS	1997 09 01.88369	21 45 06.32	-17 11 08.4	18.7 R	118	(1193)	1997 09 12.04325	02 29 53.28	+05 06 40.3		118
1997 QS	1997 09 02.87146	21 44 23.09	-17 13 46.4		118	(1193)	1997 09 12.05522	02 29 53.04	+05 06 39.6		118
1997 QS	1997 09 02.87466	21 44 22.95	-17 13 46.9	18.1 R	118	(1386)	1997 08 13.05620	01 07 45.72	+04 32 06.5		118
1997 QS	1997 09 03.82455	21 43 42.31	-17 16 12.8		p 118	(1386)	1997 08 13.06367	01 07 46.00	+04 32 03.3		118
1997 QS	1997 09 03.85608	21 43 40.93	-17 16 17.1	18.5 R	p 118	(1386)	1997 08 16.01389	01 09 46.33	+04 08 16.5		118
1997 QS	1997 09 04.87275	21 42 58.15	-17 18 45.6		I 118	(1386)	1997 08 16.01927	01 09 46.51	+04 08 14.0		118
1997 QS	1997 09 04.89006	21 42 57.36	-17 18 47.9	18.3 R	118	(1620)	1997 09 12.12677	05 00 53.07	+38 30 44.7		118
1997 QS	1997 09 04.89616	21 42 57.21	-17 18 49.2		118	(1620)	1997 09 12.13037	05 00 53.39	+38 30 47.8		118
1997 QS	1997 09 07.94353	21 40 54.99	-17 25 33.0	18.6 R	r 118	(1922)	1997 08 26.83809	02 02 20.04	+32 39 17.6	17.3 R	118
1997 QS	1997 09 07.95375	21 40 54.60	-17 25 33.4		r 118	(1922)	1997 08 26.84338	02 02 19.99	+32 39 16.5		118
1997 QS	1997 09 08.94407	21 40 17.01	-17 27 29.6	18.9 R	118	(1922)	1997 09 11.04108	01 57 04.08	+32 02 10.6		118
1997 QS	1997 09 08.94764	21 40 16.84	-17 27 29.9	19.0 R	118	(1922)	1997 09 11.04757	01 57 03.86	+32 02 09.1		118
1997 QS	1997 09 08.95043	21 40 16.78	-17 27 29.7	18.8 R	118	(1943)	1997 08 25.87600	21 26 37.31	+14 00 58.9		118
1997 RD	* 1997 09 01.03281	22 53 29.01	-10 30 03.5		118	(1943)	1997 08 25.87770	21 26 37.17	+14 00 57.4	16.5 R	118
1997 RD	1997 09 01.03640	22 53 28.80	-10 30 05.0		118	(1943)	1997 09 09.90782	21 14 09.42	+09 31 08.1	16.1 R	118
1997 RD	1997 09 01.04684	22 53 28.18	-10 30 10.0	18.2 R	118	(1943)	1997 09 09.91376	21 14 09.25	+09 31 01.6	16.2 R	118
1997 RD	1997 09 01.92144	22 52 38.04	-10 37 24.1		118	(1943)	1997 09 12.91890	21 13 06.13	+08 37 37.3		118
1997 RD	1997 09 01.92468	22 52 37.86	-10 37 25.6	18.4 R	118	(1943)	1997 09 12.92633	21 13 05.95	+08 37 29.1		118
1997 RD	1997 09 01.93446	22 52 37.25	-10 37 30.1		118	(1959)	1997 08 21.00201	01 30 07.91	+19 13 49.9	15.8 R	118
1997 RD	1997 09 04.92042	22 49 45.24	-11 01 46.8	18.6 R	118	(1959)	1997 08 21.01032	01 30 08.03	+19 13 53.0		118
1997 RD	1997 09 04.93024	22 49 44.66	-11 01 51.7		118	(1959)	1997 08 24.09274	01 30 42.45	+19 31 17.9		118
1997 RD	1997 09 07.92688	22 46 53.72	-11 25 27.0		118	(1959)	1997 08 24.10712	01 30 42.54	+19 31 22.7	16.0 R	118
1997 RD	1997 09 07.93067	22 46 53.45	-11 25 28.2		118	(1980)	1997 08 11.82580	17 24 23.24	+48 54 06.7		118
1997 RD	1997 09 07.93257	22 46 53.35	-11 25 29.4	18.5 R	118	(1980)	1997 08 11.83358	17 24 22.72	+48 54 13.7		118
1997 RD	1997 09 08.96332	22 45 55.45	-11 33 21.3	18.7 R	118	(1980)	1997 08 13.88456	17 22 32.30	+49 24 12.5		118
1997 RD	1997 09 08.97020	22 45 55.04	-11 33 24.6	18.8 R	118	(1980)	1997 08 13.89263	17 22 31.85	+49 24 19.0		118
1997 RD	1997 09 08.97281	22 45 54.84	-11 33 25.5	18.8 R	118	(1980)	1997 08 25.83436	17 16 38.84	+51 50 46.4		118
1997 RT	1997 09 03.77806	00 47 39.27	+29 27 26.5	16.4 R	118	(1980)	1997 08 25.84465	17 16 38.68	+51 50 52.7	14.1 R	118
1997 RT	1997 09 03.78019	00 47 39.83	+29 27 35.2		118	(2100)	1997 08 21.09359	01 45 53.37	+20 27 55.0		118
1997 RT	1997 09 03.78238	00 47 40.32	+29 27 43.7		118	(2100)	1997 08 21.09687	01 45 53.33	+20 27 49.9	15.9 R	118
1997 RT	1997 09 04.81648	00 51 35.05	+30 29 29.5	16.6 R	r 118	(2100)	1997 08 25.94079	01 44 28.34	+18 06 55.8		118
1997 RT	1997 09 04.81881	00 51 35.56	+30 29 38.4		r 118	(2100)	1997 08 25.94807	01 44 28.08	+18 06 41.6	16.0 R	118
1997 RT	1997 09 05.98416	00 55 39.05	+31 32 52.5		118	(2100)	1997 09 01.10269	01 39 31.18	+14 02 38.4		118
1997 RT	1997 09 05.98662	00 55 39.51	+31 33 00.2	16.7 R	118	(2100)	1997 09 01.10723	01 39 30.82	+14 02 25.5		118
1997 RT	1997 09 05.98893	00 55 39.88	+31 33 07.5		118	(2966)	1997 08 15.97435	23 03 55.02	-10 25 16.1		118
1997 RT	1997 09 08.08618	01 02 15.50	+33 10 42.5		118	(2966)	1997 08 15.98106	23 03 54.70	-10 25 17.9		118
1997 RT	1997 09 08.08885	01 02 15.91	+33 10 49.1		118	(3040)	1997 08 27.83108	16 54 52.95	+18 52 13.6	18.4 R	118
1997 RT	1997 09 08.09148	01 02 16.31	+33 10 55.6	16.9 R	118	(3040)	1997 08 27.83664	16 54 53.18	+18 52 04.7	18.3 R	118
1997 RT	1997 09 11.05642	01 10 09.89	+35 00 08.7	17.1 R	118	(3066)	1997 08 16.81684	16 29 52.35	-02 57 21.9		d 118
1997 RT	1997 09 11.05868	01 10 10.15	+35 00 12.9		118	(3066)	1997 08 16.82559	16 29 52.59	-02 57 24.7		d 118
1997 RT	1997 09 11.06102	01 10 10.42	+35 00 17.2		118	(3066)	1997 09 14.78446	16 55 06.42	-06 52 18.6		p 118

(3066)	1997 09 14.78750	16 55 06.68	-06 52 19.8		p	118
(3529)	1997 08 12.95144	20 50 07.83	-13 03 56.8			118
(3529)	1997 08 12.95769	20 50 07.49	-13 03 58.9			118
(3540)	1997 09 11.08933	02 20 38.69	+15 51 14.8			118
(3540)	1997 09 11.09941	02 20 38.53	+15 51 15.6			118
(3691)	1997 09 01.07975	03 57 39.61	+38 55 04.9			118
(3691)	1997 09 01.08750	03 57 40.03	+38 55 11.1			118
(3750)	1997 09 11.91117	22 37 10.72	-16 43 01.3			118
(3750)	1997 09 11.91994	22 37 10.31	-16 43 01.8			118
(3753)	1997 08 22.10715	03 37 37.08	-09 09 06.8	17.4 R	p	118
(3753)	1997 08 23.08766	03 39 31.73	-09 26 06.7		p	118
(3753)	1997 08 23.09759	03 39 32.82	-09 26 16.9	17.5 R	p	118
(4033)	1997 08 14.09597	00 02 29.39	-07 46 42.7			118
(4033)	1997 08 14.10120	00 02 29.23	-07 46 44.0			118
(4680)	1997 09 12.10436	03 10 56.81	+25 02 00.5			118
(4680)	1997 09 12.11112	03 10 57.08	+25 02 03.0			118
(5143)	1997 08 15.02411	22 08 06.64	-06 22 07.6			118
(5143)	1997 08 15.03039	22 08 05.89	-06 22 10.6			118
(5143)	1997 08 27.03557	21 46 17.38	-07 57 17.5	17.6 R		118
(5143)	1997 08 27.03843	21 46 17.09	-07 57 18.9			118
(5143)	1997 08 31.89892	21 38 29.93	-08 32 27.5			118
(5143)	1997 08 31.90595	21 38 29.27	-08 32 30.3			118
(5143)	1997 09 08.91274	21 27 27.27	-09 23 40.6	18.4 R		118
(5143)	1997 09 08.91991	21 27 26.73	-09 23 43.1	18.4 R		118
(5732)	1997 08 12.91264	20 44 48.01	+15 11 58.1			118
(5732)	1997 08 12.91583	20 44 47.84	+15 11 57.6	18.9 R		118
(5819)	1997 09 11.96912	02 11 13.60	+06 43 16.9			118
(5819)	1997 09 11.97940	02 11 13.58	+06 43 14.2			118
(6411)	1997 08 12.89384	19 46 35.80	+02 16 09.5			118
(6411)	1997 08 12.90102	19 46 35.43	+02 16 05.6			118
(6411)	1997 09 08.82955	19 32 16.28	-02 54 36.6	19.7 R		118
(6411)	1997 09 08.83777	19 32 16.12	-02 54 42.2	19.2 R		118
(7812)	1997 08 11.95159	19 32 37.00	+00 24 50.9			118
(7812)	1997 08 11.95476	19 32 36.86	+00 24 50.5			118
(7812)	1997 08 11.95870	19 32 36.73	+00 24 49.6			118
(7812)	1997 08 13.94444	19 31 17.91	+00 17 31.4			118
(7812)	1997 08 13.95107	19 31 17.66	+00 17 29.9			118

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0.70-m $f/4$ reflector + CCD

GSC

1973 SJ ₁	1997 09 06.92296	01 30 37.25	+08 38 46.6	18.5 V	121
1973 SJ ₁	1997 09 06.93684	01 30 36.96	+08 38 44.3	18.7 V	121
1973 SJ ₁	1997 09 06.99263	01 30 35.83	+08 38 36.6	18.7 V	121
1973 SJ ₁	1997 09 07.01897	01 30 35.29	+08 38 32.8	18.3 V	121
(77)	1997 09 07.82648	23 14 55.16	-05 58 12.1	11.8 V	121
(77)	1997 09 07.91454	23 14 50.43	-05 58 35.2	12.3 V	121
(77)	1997 09 07.93267	23 14 49.48	-05 58 39.9	11.8 V	121
(2100)	1997 09 06.92296	01 30 50.10	+08 41 57.5	14.6 V	121
(2100)	1997 09 06.93684	01 30 48.39	+08 41 04.2	14.6 V	121

(2100)	1997 09 06.99263	01 30 41.45	+08 37 29.5	14.6 V	121
(2100)	1997 09 07.01897	01 30 38.12	+08 35 47.3	14.2 V	121

122 Pises Observatory

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[observatoire.pises@hol.fr]

Observers B. Gaillard, A. M. Jacquey, J. Lopez, C. Cavadore

Measurer B. Gaillard

0.40-m $f/4.7$ reflector + CCD

1997 NU ₆	1997 08 12.00464	19 15 48.95	-10 57 48.8		122
1997 NU ₆	1997 08 12.01115	19 15 48.78	-10 57 50.1		122
1997 NU ₆	1997 08 12.01304	19 15 48.71	-10 57 50.4		122
1997 NU ₆	1997 08 12.01479	19 15 48.68	-10 57 50.6		122
1997 NU ₆	1997 08 31.88198	19 10 40.22	-11 44 44.5	18.5	122
1997 NU ₆	1997 08 31.88376	19 10 40.23	-11 44 44.4		122
1997 NU ₆	1997 08 31.88539	19 10 40.25	-11 44 44.7		122
1997 PJ	1997 08 11.98787	19 16 53.36	-11 18 49.2		122
1997 PJ	1997 08 11.99113	19 16 53.21	-11 18 49.8		122
1997 PY ₃	* 1997 08 12.04012	22 27 54.88	-02 49 48.2	18.5	122
1997 PY ₃	1997 08 12.04254	22 27 54.75	-02 49 48.9		122
1997 PY ₃	1997 08 12.04483	22 27 54.60	-02 49 49.4		122
1997 PY ₃	1997 08 13.05280	22 27 01.82	-02 53 31.2		122
1997 PY ₃	1997 08 13.05436	22 27 01.70	-02 53 31.8		122
1997 PY ₃	1997 08 13.05632	22 27 01.62	-02 53 31.9		122
1997 PY ₃	1997 08 13.05844	22 27 01.50	-02 53 32.4		122
1997 PY ₃	1997 08 15.02146	22 25 16.49	-03 01 11.4		122
1997 PY ₃	1997 08 15.02321	22 25 16.40	-03 01 12.1		122
1997 PY ₃	1997 08 15.02523	22 25 16.32	-03 01 12.5		122
1997 PY ₃	1997 08 30.03506	22 11 08.81	-04 14 08.7	19.4	122
1997 PY ₃	1997 08 30.03706	22 11 08.67	-04 14 09.4		122
1997 PY ₃	1997 08 30.03935	22 11 08.52	-04 14 10.1		122
1997 PY ₃	1997 09 07.95073	22 03 19.50	-05 02 54.0	19.4	122
1997 PY ₃	1997 09 07.95392	22 03 19.34	-05 02 55.0		122
1997 PZ ₃	* 1997 08 12.04012	22 28 19.01	-02 59 23.4	20.0	122
1997 PZ ₃	1997 08 12.04254	22 28 18.91	-02 59 24.8		122
1997 PZ ₃	1997 08 12.04483	22 28 18.88	-02 59 25.3		122
1997 PZ ₃	1997 08 13.03125	22 27 43.03	-03 06 07.5		122
1997 PZ ₃	1997 08 13.03420	22 27 42.89	-03 06 09.3		122
1997 PZ ₃	1997 08 15.03024	22 26 28.38	-03 20 07.6		122
1997 PZ ₃	1997 08 15.04690	22 26 27.66	-03 20 14.9		122
1997 PZ ₃	1997 08 30.04853	22 16 17.37	-05 18 35.8	20.0	122
1997 PZ ₃	1997 08 30.05129	22 16 17.28	-05 18 36.8		122
1997 PZ ₃	1997 08 30.05421	22 16 17.12	-05 18 38.3		122
1997 PZ ₃	1997 09 07.96779	22 10 22.50	-06 33 30.6	19.8	122
1997 PZ ₃	1997 09 07.97083	22 10 22.36	-06 33 32.3		122
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1997 PN ₄	1997 08 13.03420	22 28 25.09	-03 08 40.1		122
1997 PN ₄	1997 08 13.04492	22 28 24.50	-03 08 43.0		122
1997 PN ₄	1997 08 15.03435	22 26 35.82	-03 17 57.0		122
1997 PN ₄	1997 08 15.04471	22 26 35.26	-03 18 00.2		122
1997 PN ₄	1997 08 30.06479	22 12 10.89	-04 41 53.5		122
1997 PN ₄	1997 08 30.06747	22 12 10.78	-04 41 54.4		122
1997 PN ₄	1997 08 30.06968	22 12 10.64	-04 41 54.9		122

1997 PN ₄	1997 09 07.95912	22 04 16.40	-05 35 56.9	19.7	122
1997 PN ₄	1997 09 07.96208	22 04 16.24	-05 35 57.5	19.8	122
1997 PE ₅	1997 09 05.97859	22 55 35.74	-05 37 33.8	17.8	122
1997 PE ₅	1997 09 05.98185	22 55 35.58	-05 37 35.2	17.8	122
1997 PE ₅	1997 09 05.98537	22 55 35.43	-05 37 36.5	17.8	122
1997 PE ₅	1997 09 07.97708	22 54 09.49	-05 50 48.2	18.2	122
1997 PE ₅	1997 09 07.98328	22 54 09.20	-05 50 50.6	18.1	122
1997 RZ ₂	* 1997 09 05.97859	22 55 55.69	-05 32 26.6	19.6	122
1997 RZ ₂	1997 09 05.98185	22 55 55.52	-05 32 27.7	19.8	122
1997 RZ ₂	1997 09 05.98537	22 55 55.38	-05 32 28.6	19.6	122
1997 RZ ₂	1997 09 07.97708	22 54 22.63	-05 43 05.2	19.9	122
1997 RZ ₂	1997 09 07.98328	22 54 22.34	-05 43 06.5	19.7	122
1997 RA ₃	* 1997 09 05.98976	22 51 15.55	-05 30 22.9	19.2	122
1997 RA ₃	1997 09 05.99213	22 51 15.42	-05 30 23.2	19.2	122
1997 RA ₃	1997 09 05.99455	22 51 15.30	-05 30 23.4	19.3	122
1997 RA ₃	1997 09 07.98890	22 49 35.15	-05 34 48.4	18.7	122
1997 RA ₃	1997 09 07.99546	22 49 34.83	-05 34 49.3		122
1997 RB ₃	* 1997 09 06.01016	23 37 54.40	+00 17 14.0	20.7	122
1997 RB ₃	1997 09 06.01335	23 37 54.22	+00 17 12.2	20.7	122
1997 RB ₃	1997 09 06.01632	23 37 54.09	+00 17 10.5	20.8	122
1997 RB ₃	1997 09 08.06476	23 36 10.76	-00 01 08.7		122
1997 RB ₃	1997 09 08.06847	23 36 10.61	-00 01 09.8		122
1997 RB ₃	1997 09 08.07247	23 36 10.39	-00 01 12.6		122
1997 RC ₃	* 1997 09 06.02130	23 44 10.01	+00 35 26.7	17.7	122
1997 RC ₃	1997 09 06.02770	23 44 09.71	+00 35 22.7	17.7	122
1997 RC ₃	1997 09 06.03219	23 44 09.55	+00 35 20.6	17.7	122
1997 RC ₃	1997 09 08.05536	23 42 43.83	+00 15 13.3		122
1997 RC ₃	1997 09 08.05773	23 42 43.74	+00 15 11.8		122
1997 RC ₃	1997 09 08.06045	23 42 43.59	+00 15 10.3		122
1997 RD ₃	* 1997 09 06.02130	23 44 14.70	+00 29 45.2	18.7	122
1997 RD ₃	1997 09 06.02770	23 44 14.38	+00 29 42.6	18.7	122
1997 RD ₃	1997 09 06.03219	23 44 14.19	+00 29 41.1	18.7	122
1997 RD ₃	1997 09 08.05536	23 42 41.03	+00 17 20.4		122
1997 RD ₃	1997 09 08.05773	23 42 40.91	+00 17 19.6		122
1997 RD ₃	1997 09 08.06045	23 42 40.77	+00 17 18.2		122
1997 RE ₃	* 1997 09 06.05966	23 46 06.86	+03 49 32.1	17.6	122
1997 RE ₃	1997 09 06.06216	23 46 06.74	+03 49 31.7	17.6	122
1997 RE ₃	1997 09 06.06462	23 46 06.63	+03 49 31.4	17.6	122
1997 RE ₃	1997 09 08.04507	23 44 39.11	+03 43 44.6	17.6	122
1997 RE ₃	1997 09 08.05007	23 44 38.88	+03 43 43.5	17.7	122
1997 RL ₅	* 1997 09 07.97708	22 54 50.56	-05 44 58.5	19.9	122
1997 RL ₅	1997 09 07.98004	22 54 50.46	-05 44 59.3	20.0	122
1997 RL ₅	1997 09 07.98328	22 54 50.27	-05 44 59.6	19.7	122
1997 RL ₅	1997 09 09.02070	22 53 54.52	-05 49 02.8	20.1	122
1997 RL ₅	1997 09 09.02671	22 53 54.17	-05 49 04.5		122
1997 RM ₅	* 1997 09 07.98004	22 54 25.16	-05 51 22.2		122
1997 RM ₅	1997 09 07.98328	22 54 24.99	-05 51 22.8	20.2	122
1997 RM ₅	1997 09 09.02376	22 53 35.87	-05 55 35.2		122
1997 RM ₅	1997 09 09.02671	22 53 35.70	-05 55 36.1		122
1997 RN ₅	* 1997 09 08.05535	23 43 05.82	+00 17 50.5		122
1997 RN ₅	1997 09 08.05775	23 43 05.73	+00 17 51.0		122
1997 RN ₅	1997 09 08.06046	23 43 05.58	+00 17 50.1		122

1997 RN ₅	1997 09 09.03628	23 42 17.37	+00 13 57.0		122
1997 RN ₅	1997 09 09.03929	23 42 17.16	+00 13 56.6		122
1997 RN ₅	1997 09 09.04231	23 42 16.99	+00 13 56.1	19.9	122

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0.20-m *f*/6.15 reflector + CCD

GSC

1975 VB ₁	1997 08 02.09421	23 17 18.51	-13 48 14.7	17.8	124
1975 VB ₁	1997 08 02.09852	23 17 18.45	-13 48 15.8	17.9	124
1975 VB ₁	1997 08 02.10284	23 17 18.29	-13 48 16.9	17.7	124
1977 RD ₂	1997 09 03.97566	22 28 27.37	-15 01 28.0	16.4	124
1977 RD ₂	1997 09 03.98454	22 28 26.97	-15 01 29.5	16.5	124
1977 RD ₂	1997 09 03.99341	22 28 26.50	-15 01 31.7	16.4	124
1980 PF	1997 08 03.08030	22 34 21.83	-05 23 59.5	17.2	124
1980 PF	1997 08 03.08462	22 34 21.61	-05 23 58.2	17.3	124
1980 PF	1997 08 03.09324	22 34 21.20	-05 23 55.9	17.5	124
1981 EG ₅	1997 08 02.96672	21 40 58.73	-15 10 50.4	17.3	124
1981 EG ₅	1997 08 02.97535	21 40 58.20	-15 10 49.3	17.3	124
1981 EG ₅	1997 08 02.98397	21 40 57.64	-15 10 48.1	17.3	124
1981 EG ₅	1997 08 03.98781	21 39 57.61	-15 09 44.9	17.2	124
1981 EG ₅	1997 08 03.99213	21 39 57.32	-15 09 44.2	17.1	124
1981 EG ₅	1997 08 03.99645	21 39 57.06	-15 09 43.8	17.2	124
1981 EK ₂₅	1997 08 02.99939	21 34 53.05	-13 54 05.1	17.1	124
1981 EK ₂₅	1997 08 03.01231	21 34 52.28	-13 54 07.7	17.1	124
1981 EK ₂₅	1997 08 03.02094	21 34 51.95	-13 54 09.5	17.2	124
1981 RF ₇	1997 09 03.91479	21 39 27.97	-20 03 53.6	16.7	124
1981 RF ₇	1997 09 03.91924	21 39 27.79	-20 03 52.9	16.6	124
1981 RF ₇	1997 09 03.92368	21 39 27.49	-20 03 52.8	16.9	124
1981 VK	1997 08 07.97888	22 32 42.41	-10 13 18.5	17.6	124
1981 VK	1997 08 07.98751	22 32 42.12	-10 13 21.0	17.0	124
1982 RF	1997 08 08.08911	00 32 23.85	+04 19 16.5	16.6	124
1982 RF	1997 08 08.10205	00 32 24.30	+04 19 17.2	16.4	124
1982 RF	1997 08 08.11067	00 32 24.56	+04 19 18.4	16.5	124
1983 WJ	1997 09 04.05106	23 20 25.19	-09 22 22.4	16.8	124
1983 WJ	1997 09 04.05995	23 20 24.60	-09 22 25.7	17.0	124
1983 WJ	1997 09 04.06440	23 20 24.43	-09 22 28.0	16.8	124
1986 PN ₄	1997 08 10.11111	00 17 38.40	+17 47 35.7	16.2	124
1986 PN ₄	1997 08 10.12411	00 17 38.28	+17 47 43.0	16.1	124
1986 PN ₄	1997 08 10.13279	00 17 38.11	+17 47 48.0	16.4	124
1986 PN ₄	1997 08 31.03210	00 07 52.82	+20 07 17.7	15.8	124
1986 PN ₄	1997 08 31.03654	00 07 52.62	+20 07 19.0	15.8	124
1986 PN ₄	1997 08 31.04097	00 07 52.44	+20 07 20.4	16.0	124
1986 RJ ₄	1997 08 13.08010	00 06 33.34	+10 43 23.5	17.0	124
1986 RJ ₄	1997 08 13.09340	00 06 32.88	+10 43 38.7	17.0	124
1986 RJ ₄	1997 08 13.10227	00 06 32.57	+10 43 48.4	16.7	124
1987 UP ₂	1997 08 02.13072	23 38 10.12	+04 40 06.7	16.2	124
1987 UP ₂	1997 08 02.13934	23 38 10.23	+04 40 09.1	16.2	124
1987 UP ₂	1997 08 02.14366	23 38 10.32	+04 40 10.1	16.2	124
1987 VD	1997 08 08.05765	23 58 54.72	+09 36 59.9	16.2	124
1987 VD	1997 08 08.07058	23 58 54.95	+09 37 06.4	16.2	124
1987 VD	1997 08 08.07920	23 58 55.10	+09 37 11.5	16.3	124
1989 PU	1997 08 02.93521	20 20 54.38	-07 46 02.2	16.5	124

1989 PU	1997 08 02.94814	20 20 53.72	-07 46 24.1	16.5	124	1996 CV ₈	1997 08 10.08892	23 34 12.88	-10 25 24.8	17.4	124
1989 PU	1997 08 02.95676	20 20 53.26	-07 46 38.7	16.4	124	1996 EJ	1997 08 01.92174	19 28 11.71	-10 35 22.8	16.3	124
1990 UC	1997 09 04.00669	23 19 40.08	+01 04 07.7	16.0	124	1996 EJ	1997 08 01.92605	19 28 11.58	-10 35 24.2	16.2	124
1990 UC	1997 09 04.01557	23 19 39.73	+01 04 01.4	15.8	124	1996 EJ	1997 08 01.93036	19 28 11.42	-10 35 25.8	16.2	124
1990 UC	1997 09 04.02444	23 19 39.36	+01 03 54.9	15.8	124	1997 OY ₁	1997 08 12.96021	20 45 25.76	-06 50 24.2	18.0	124
1991 CU	1997 08 02.02339	22 04 53.15	-11 53 39.9	16.9	124	1997 OY ₁	1997 08 12.97321	20 45 24.98	-06 50 30.6	18.0	I 124
1991 CU	1997 08 02.03633	22 04 52.67	-11 53 47.0	16.9	124	1997 ON ₂	1997 08 12.92802	20 44 56.41	-05 41 31.0	17.9	R 124
1991 CU	1997 08 02.04495	22 04 52.33	-11 53 51.3	17.0	124	1997 ON ₂	1997 08 12.93666	20 44 56.11	-05 41 31.9	18.1	124
1991 VW ₃	1997 08 02.05211	22 18 13.60	-07 56 47.7	17.1	124	1997 ON ₂	1997 08 12.94534	20 44 55.68	-05 41 33.1	17.8	124
1991 VW ₃	1997 08 02.06074	22 18 13.32	-07 56 48.6	17.3	124	1997 PF ₁	1997 08 12.99587	22 09 18.06	-08 06 12.4	18.4	124
1991 VW ₃	1997 08 02.06938	22 18 13.06	-07 56 49.8	17.1	124	1997 PF ₁	1997 08 13.00454	22 09 17.56	-08 06 13.5	18.0	124
1991 VW ₃	1997 08 03.03265	22 17 43.95	-07 58 40.9	16.1	124	1997 PF ₁	1997 08 23.93749	21 58 54.33	-08 24 52.3	18.3	124
1991 VW ₃	1997 08 03.04127	22 17 43.68	-07 58 43.0	16.0	124	1997 PF ₁	1997 08 23.96634	21 58 52.60	-08 24 56.8	18.0	124
1991 VW ₃	1997 08 03.04990	22 17 43.41	-07 58 44.9	16.1	124	1997 PF ₁	1997 08 23.97078	21 58 52.22	-08 24 57.8	18.1	124
1991 VW ₃	1997 08 04.02539	22 17 12.12	-08 00 48.7	16.7	124	1997 PJ ₄	1997 08 23.98569	20 35 54.67	-06 55 17.7	17.3	124
1991 VW ₃	1997 08 04.03831	22 17 11.64	-08 00 50.9	16.8	124	1997 PJ ₄	1997 08 23.99456	20 35 54.24	-06 55 18.1	17.5	124
1991 VW ₃	1997 08 04.04693	22 17 11.26	-08 00 52.4	16.9	124	1997 PJ ₄	1997 08 23.99899	20 35 54.05	-06 55 18.4	17.3	124
1992 JS ₂	1997 08 01.98361	21 50 51.41	+08 12 07.1	16.0	124	1997 QE	* 1997 08 23.92862	21 59 16.91	-08 19 23.8	17.8	F 124
1992 JS ₂	1997 08 01.99655	21 50 50.81	+08 12 05.4	16.1	124	1997 QE	1997 08 23.93749	21 59 16.35	-08 19 30.4	18.0	124
1992 JS ₂	1997 08 02.00519	21 50 50.39	+08 12 04.1	16.2	124	1997 QE	1997 08 23.96634	21 59 15.35	-08 19 48.7	17.7	124
1992 QL ₂	1997 08 12.88426	20 03 50.63	-06 41 41.4	17.1	124	1997 QE	1997 08 23.97078	21 59 15.03	-08 19 51.3	18.1	124
1992 QL ₂	1997 08 12.89719	20 03 50.14	-06 41 43.6	17.1	124	1997 QE	1997 08 24.92015	21 58 37.76	-08 29 55.9	17.6	124
1992 QL ₂	1997 08 12.90586	20 03 49.80	-06 41 45.4	17.1	124	1997 QE	1997 08 24.92463	21 58 37.65	-08 29 58.0	18.0	124
1993 FL ₈₄	1997 08 02.90196	19 49 26.25	-06 35 51.7	16.8	124	1997 QE	1997 08 24.92903	21 58 37.49	-08 30 02.0	18.0	124
1993 FL ₈₄	1997 08 02.90626	19 49 26.07	-06 35 53.8	16.9	124	1997 QY	1997 09 03.88958	20 32 27.34	-07 55 42.8	17.7	124
1993 FL ₈₄	1997 08 02.91058	19 49 25.81	-06 35 55.6	17.0	124	1997 QY	1997 09 03.90735	20 32 27.05	-07 55 50.2	17.7	124
1993 GD ₁	1997 08 13.02050	23 48 03.61	-13 18 53.2	17.3	124	1997 RT	1997 09 04.11103	00 48 50.94	+29 48 33.4	16.4	124
1993 GD ₁	1997 08 13.03351	23 48 03.25	-13 18 59.0	17.4	124	1997 RT	1997 09 04.11369	00 48 51.42	+29 48 43.3	16.3	124
1993 GD ₁	1997 08 13.04218	23 48 03.00	-13 19 02.4	17.2	124	1997 RT	1997 09 04.11769	00 48 52.18	+29 48 57.0	16.4	124
1993 RC ₂	1997 08 13.02484	23 47 20.46	-13 22 02.2	18.0	8 124	2078 T-3	1997 08 07.99485	22 39 17.18	-11 45 02.1	17.6	124
1993 RC ₂	1997 08 13.03351	23 47 20.28	-13 22 02.4	18.1	F 124	2078 T-3	1997 08 08.00778	22 39 16.62	-11 45 04.4	17.6	124
1993 VR ₂	1997 08 08.11994	01 14 31.89	+23 35 18.1	16.3	124	2078 T-3	1997 08 08.01640	22 39 16.18	-11 45 05.2	17.9	124
1993 VR ₂	1997 08 08.13288	01 14 32.47	+23 35 24.5	16.3	124	(7750)	1997 08 02.84404	17 19 55.82	-05 42 35.4	17.2	124
1993 VR ₂	1997 08 08.14150	01 14 32.83	+23 35 28.0	16.1	124	(7750)	1997 08 02.85699	17 19 56.01	-05 42 31.7	17.2	124
1994 WG ₃	1997 08 07.09627	00 05 37.58	-06 23 48.2	17.8	124	(7750)	1997 08 02.86561	17 19 56.16	-05 42 29.3	17.2	124
1994 WG ₃	1997 08 07.10059	00 05 37.74	-06 23 48.0	17.9	124	(7757)	1997 08 12.84737	17 36 31.73	+12 05 26.0	15.8	124
1994 WG ₃	1997 08 07.10921	00 05 37.93	-06 23 50.6	17.4	124	(7757)	1997 08 12.86042	17 36 32.07	+12 05 23.0	15.8	124
1994 XE ₁	1997 09 04.07685	00 37 08.54	-11 59 14.0	16.5	124	(7757)	1997 08 12.86911	17 36 32.37	+12 05 20.4	15.9	124
1994 XE ₁	1997 09 04.09462	00 37 07.98	-11 59 19.5	16.6	124	(7832)	1997 08 01.95529	20 31 10.24	-06 12 00.9	15.6	124
1994 YL ₁	1997 08 13.05073	23 42 01.50	-06 49 55.4	18.2	124	(7832)	1997 08 01.96390	20 31 09.75	-06 12 03.1	15.6	124
1994 YL ₁	1997 08 13.05940	23 42 01.28	-06 49 57.5	18.1	124	(7832)	1997 08 01.97253	20 31 09.31	-06 12 05.1	15.5	124
1994 YL ₁	1997 08 13.06375	23 42 01.10	-06 49 58.9	18.2	124						
1994 YL ₁	1997 08 31.00260	23 30 58.89	-08 13 38.6	17.6	124						
1994 YL ₁	1997 08 31.00704	23 30 58.63	-08 13 43.2	18.3	124						
1994 YL ₁	1997 08 31.01481	23 30 58.54	-08 13 42.9	17.8	124						
1994 YL ₁	1997 08 31.01591	23 30 58.30	-08 13 44.7	17.7	124						
1995 BT ₃	1997 08 31.15078	02 04 46.30	+09 30 41.3	16.9	124						
1995 BT ₃	1997 08 31.15966	02 04 46.51	+09 30 39.7	16.9	124						
1995 BT ₃	1997 08 31.16856	02 04 46.69	+09 30 38.2	17.2	124						
1995 EC	1997 08 08.02685	22 46 59.68	-10 33 12.0	17.6	124						
1995 EC	1997 08 08.03978	22 46 59.28	-10 33 14.9	18.2	124						
1996 CV ₈	1997 08 10.08024	23 34 12.94	-10 25 21.1	17.6	124						

126 Monte Viseggi

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Observers P. Pietrapiana, L. Zannoni, G. Scarfi

Measurer P. Pietrapiana

0.40-m *f*/5 reflector + CCD

GSC

1997 RT	1997 09 03.98348	00 48 24.64	+29 40 44.9	16.6	126
1997 RT	1997 09 03.98932	00 48 25.77	+29 41 06.3	16.6	126
1997 RT	1997 09 03.99618	00 48 27.17	+29 41 31.8	16.6	126
1997 RT	1997 09 04.00073	00 48 28.10	+29 41 49.0	16.6	126

1997 RT	1997 09 04.01279	00 48 30.52	+29 42 33.9	16.5	126
1997 RD ₁	1997 09 04.88500	21 34 20.99	-04 48 40.0	16.3	126
1997 RD ₁	1997 09 04.89576	21 34 21.13	-04 48 55.3	16.4	126
1997 RD ₁	1997 09 04.90863	21 34 21.31	-04 49 12.6	16.4	126
1997 RG ₃	* 1997 09 06.85900	23 19 16.91	-03 51 45.2	17.0	126
1997 RG ₃	1997 09 06.94979	23 19 11.93	-03 52 23.9	17.1	126
1997 RG ₃	1997 09 06.97525	23 19 10.54	-03 52 34.3	16.9	126
1997 RG ₃	1997 09 07.02036	23 19 08.08	-03 52 53.7	17.2	126
1997 RG ₃	1997 09 07.05090	23 19 06.40	-03 53 06.7	17.0	126
1997 RG ₃	1997 09 07.82716	23 18 25.77	-03 58 36.1	17.0	126
1997 RG ₃	1997 09 07.83441	23 18 25.37	-03 58 39.6	17.3	126
1997 RG ₃	1997 09 07.83928	23 18 25.22	-03 58 41.9	16.9	126
1997 RG ₃	1997 09 07.86067	23 18 24.08	-03 58 51.0	17.1	126
1997 RG ₃	1997 09 07.86807	23 18 23.66	-03 58 54.4	16.9	126
1997 RG ₃	1997 09 08.89323	23 17 29.46	-04 06 10.7	17.0	126
1997 RG ₃	1997 09 08.90750	23 17 28.71	-04 06 16.7	17.3	126
1997 RG ₃	1997 09 11.82574	23 14 55.34	-04 26 54.4	16.8	126
1997 RG ₃	1997 09 11.84740	23 14 54.24	-04 27 03.3	17.0	126
1997 RG ₃	1997 09 11.86172	23 14 53.46	-04 27 09.2	16.6	126
4047 P-L	1997 09 06.85900	23 19 32.76	-03 53 32.0	17.0	126
4047 P-L	1997 09 06.87091	23 19 32.15	-03 53 35.2	17.4	126
4047 P-L	1997 09 06.88872	23 19 31.27	-03 53 39.4	17.9	126
1174 T-1	1997 09 06.85900	23 19 11.80	-03 51 25.2	17.9	126
1174 T-1	1997 09 06.87091	23 19 11.31	-03 51 28.1	18.1	126
1174 T-1	1997 09 06.88872	23 19 10.51	-03 51 32.8	17.8	126

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0.19-m $f/4$ FFC + CCD

GSC

1958 TL ₁	1997 09 06.96453	23 22 07.82	+12 51 14.2	127
1958 TL ₁	1997 09 06.97529	23 22 07.42	+12 51 08.0	127
1958 TL ₁	1997 09 11.87436	23 19 08.17	+12 02 47.3	127
1958 TL ₁	1997 09 11.88479	23 19 07.76	+12 02 40.6	127
1958 TL ₁	1997 09 11.89966	23 19 07.22	+12 02 31.2	127
1988 PG ₁	1997 08 13.00661	23 13 21.22	+03 43 55.0	127
1988 PG ₁	1997 08 13.01272	23 13 20.96	+03 43 56.9	127
1988 PG ₁	1997 08 29.96441	22 59 04.98	+04 52 31.5	127
1988 PG ₁	1997 08 29.97286	22 59 04.45	+04 52 33.1	127
1993 FW ₂₄	1997 08 29.99806	23 55 48.45	+01 51 37.1	127
1993 FW ₂₄	1997 08 30.00965	23 55 47.94	+01 51 34.5	127
1993 SU ₂	1997 08 12.98003	23 29 05.89	+14 16 06.8	127
1993 SU ₂	1997 08 12.98575	23 29 05.66	+14 16 08.9	127
1993 SU ₂	1997 08 29.98653	23 16 21.54	+15 22 47.0	127
1993 SU ₂	1997 08 29.99019	23 16 21.33	+15 22 47.5	127
1993 SU ₂	1997 09 06.95434	23 08 47.21	+15 28 28.3	127
1993 SU ₂	1997 09 06.96163	23 08 46.76	+15 28 28.1	127
1996 BD ₁	1997 08 31.95722	22 35 17.26	+16 28 41.8	127
1996 BD ₁	1997 08 31.97463	22 35 15.95	+16 28 42.9	127
1996 BD ₁	1997 09 06.88425	22 27 53.97	+16 28 21.1	127
1996 BD ₁	1997 09 06.90078	22 27 52.73	+16 28 20.1	127
3081 P-L	1997 08 09.94146	22 40 26.17	+07 43 39.4	127

3081 P-L	1997 08 09.95469	22 40 25.74	+07 43 38.4	127
3081 P-L	1997 08 12.95869	22 38 43.26	+07 38 46.2	127
3081 P-L	1997 08 12.96441	22 38 43.05	+07 38 45.3	127
3081 P-L	1997 08 29.92779	22 27 16.83	+06 35 03.7	127
3081 P-L	1997 08 29.93706	22 27 16.43	+06 35 01.0	127
3081 P-L	1997 08 31.94178	22 25 49.91	+06 23 50.7	127
3081 P-L	1997 08 31.94861	22 25 49.60	+06 23 48.2	127

130 Lumezzane

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Observers S. Foglia, G. Pizzetti, M. Bignotti

Measurer S. Foglia

0.40-m $f/6.5$ reflector + CCD

GSC

(6249)	1997 08 30.94269	21 26 57.83	+43 25 07.8	15.3 V	130
(6249)	1997 08 30.96880	21 26 56.58	+43 24 49.3	15.3 V	130

132 Bedoin

P. Antonini, 47 rue Guillaume Puy, F-84000 Avignon, France

[Pierre.Antonini@wanadoo.fr]

0.16-m $f/3.3$ reflector + CCD

GSC

1991 BV ₁	1997 09 10.91837	23 56 42.77	-04 52 11.5	17.9	132
1991 BV ₁	1997 09 10.96631	23 56 40.74	-04 52 32.2	17.9	132
1991 BV ₁	1997 09 11.02237	23 56 38.05	-04 52 57.7	17.9	132
1997 OY ₁	1997 08 11.93584	20 46 19.22	-06 43 03.1	18.4	132
1997 OY ₁	1997 08 12.01737	20 46 14.92	-06 43 38.8	18.2	132
1997 OY ₁	1997 08 29.81910	20 32 46.08	-08 58 34.0	18.3	132
1997 OY ₁	1997 08 29.91285	20 32 42.58	-08 59 17.3	18.4	132
1997 ON ₂	1997 08 11.89278	20 45 50.42	-05 39 33.5	18.5	132
1997 ON ₂	1997 08 11.92627	20 45 48.57	-05 39 37.5	18.4	132
1997 ON ₂	1997 08 12.00775	20 45 44.00	-05 39 44.7	18.5	132
1997 ON ₂	1997 08 24.84109	20 35 55.62	-06 10 14.7	19.3	132
1997 ON ₂	1997 08 24.87368	20 35 54.01	-06 10 19.9	18.7	132
1997 ON ₂	1997 08 24.91274	20 35 52.40	-06 10 26.4	19.2	132
1997 PF ₁	1997 08 24.93635	21 57 56.20	-08 26 57.3	17.6	132
1997 PF ₁	1997 08 24.95598	21 57 54.84	-08 26 59.0	17.8	132
1997 PF ₁	1997 08 24.97665	21 57 53.64	-08 26 59.7	17.6	132
1997 PJ ₄	* 1997 08 11.90312	20 46 28.71	-06 43 20.5	17.0	132
1997 PJ ₄	1997 08 11.93584	20 46 26.89	-06 43 21.7	17.0	132
1997 PJ ₄	1997 08 12.01737	20 46 22.13	-06 43 25.1	17.2	132
1997 PJ ₄	1997 08 13.84149	20 44 40.54	-06 44 42.1	17.3	132
1997 PJ ₄	1997 08 13.92645	20 44 35.81	-06 44 47.1	17.0	132
1997 PJ ₄	1997 08 13.97348	20 44 33.13	-06 44 48.3	17.1	132
1997 PJ ₄	1997 08 24.85140	20 35 14.23	-06 56 24.7	17.6	132
1997 PJ ₄	1997 08 24.88301	20 35 12.58	-06 56 26.9	17.5	132
1997 PJ ₄	1997 08 24.92419	20 35 10.62	-06 56 30.2	17.6	132
1997 PJ ₄	1997 08 29.85036	20 31 35.85	-07 03 15.3	17.3	132
1997 PJ ₄	1997 08 29.94962	20 31 31.48	-07 03 23.9	17.6	132
1997 PJ ₄	1997 08 30.89281	20 30 53.99	-07 04 45.1	17.4	132
1997 PJ ₄	1997 08 30.92053	20 30 52.84	-07 04 46.2	17.5	132
1997 PJ ₄	1997 08 30.94843	20 30 51.82	-07 04 49.5	17.3	132
1997 QE	1997 09 03.92523	21 52 40.73	-10 13 26.6	17.8	132

1997 QE	1997 09 03.96293	21 52 39.54	-10 13 48.9	18.1	132
1997 QY	* 1997 08 24.84109	20 36 01.22	-06 23 48.4	17.6	132
1997 QY	1997 08 24.87368	20 36 00.23	-06 24 06.3	17.7	132
1997 QY	1997 08 24.91274	20 35 59.00	-06 24 27.5	17.7	132
1997 QY	1997 08 29.82947	20 33 53.98	-07 09 53.1		132
1997 QY	1997 08 29.92120	20 33 51.79	-07 10 45.7	17.6	132
1997 QY	1997 09 03.84234	20 32 27.69	-07 55 16.5	17.6	132
1997 QY	1997 09 03.87285	20 32 27.50	-07 55 33.4	17.9	132
1997 QY	1997 09 03.94420	20 32 26.45	-07 56 10.5	17.7	132
1997 QZ	* 1997 08 24.93635	21 57 29.07	-08 11 45.8	17.4	132
1997 QZ	1997 08 24.95598	21 57 28.15	-08 11 56.2	17.6	132
1997 QZ	1997 08 24.97665	21 57 27.30	-08 12 06.3	17.5	132
1997 QZ	1997 08 29.90360	21 54 08.10	-08 53 19.9	17.8	132
1997 QZ	1997 08 29.93135	21 54 06.95	-08 53 33.9	17.6	132
1997 QZ	1997 08 29.96354	21 54 05.61	-08 53 47.7	17.6	132
1997 QZ	1997 09 03.88222	21 51 07.50	-09 33 44.6	17.6	132
1997 QZ	1997 09 03.91603	21 51 06.27	-09 34 01.5	17.9	132
1997 QZ	1997 09 03.95369	21 51 04.91	-09 34 20.0	17.8	132
1997 RR ₁	* 1997 09 03.98179	00 00 37.91	-04 42 39.1	17.8	132
1997 RR ₁	1997 09 04.00880	00 00 36.44	-04 42 47.2	17.9	132
1997 RR ₁	1997 09 04.03582	00 00 34.96	-04 42 56.4	18.0	132
1997 RR ₁	1997 09 05.95274	23 58 57.49	-04 53 57.0	18.4	132
1997 RR ₁	1997 09 05.98123	23 58 55.89	-04 54 07.3	18.2	132
1997 RR ₁	1997 09 06.00948	23 58 54.55	-04 54 19.2	18.4	132
1997 RR ₁	1997 09 10.90906	23 54 28.94	-05 22 55.4	17.8	132
1997 RR ₁	1997 09 10.95663	23 54 26.18	-05 23 15.3	17.9	132
1997 RR ₁	1997 09 11.01314	23 54 22.87	-05 23 34.1	18.1	132
1997 RS ₁	* 1997 09 03.99973	00 03 52.07	-04 47 28.0	18.6	132
1997 RS ₁	1997 09 04.02675	00 03 51.02	-04 47 39.1	18.5	132
1997 RS ₁	1997 09 05.97140	00 02 42.23	-05 02 37.2	18.6	132
1997 RS ₁	1997 09 05.99999	00 02 41.16	-05 02 51.6	18.5	132
1997 RS ₁	1997 09 06.02790	00 02 40.00	-05 03 02.8	18.4	132
1997 RS ₁	1997 09 11.00393	23 59 31.26	-05 41 59.0	18.9	132
1997 RS ₁	1997 09 11.04966	23 59 29.47	-05 42 21.5	18.6	132
1997 RT ₁	* 1997 09 03.99973	00 03 56.56	-04 44 27.1	18.5	132
1997 RT ₁	1997 09 04.02675	00 03 55.24	-04 44 31.7	18.8	132
1997 RT ₁	1997 09 04.05377	00 03 54.16	-04 44 34.7	18.5	132
1997 RT ₁	1997 09 05.97140	00 02 31.39	-04 49 29.3	18.8	132
1997 RT ₁	1997 09 05.99999	00 02 30.05	-04 49 33.5	18.7	132
1997 RT ₁	1997 09 06.02790	00 02 28.76	-04 49 37.9	18.5	132
1997 RT ₁	1997 09 10.98986	23 58 36.37	-05 02 48.5	18.6	132
1997 RT ₁	1997 09 11.04043	23 58 33.67	-05 02 55.0	18.4	132
1997 RU ₁	* 1997 09 03.99973	00 04 08.09	-04 50 03.1	18.4	132
1997 RU ₁	1997 09 04.02675	00 04 06.99	-04 50 16.1	18.4	132
1997 RU ₁	1997 09 04.05377	00 04 06.04	-04 50 25.5	18.3	132
1997 RU ₁	1997 09 05.97140	00 02 50.13	-05 04 15.8	18.4	132
1997 RU ₁	1997 09 05.99999	00 02 48.51	-05 04 29.3		132
1997 RU ₁	1997 09 06.02790	00 02 47.47	-05 04 42.4	18.6	132
1997 RU ₂	* 1997 09 03.99073	00 02 29.58	-04 49 24.9	18.5	132
1997 RU ₂	1997 09 04.01774	00 02 28.55	-04 49 30.5	18.5	132
1997 RU ₂	1997 09 04.04477	00 02 27.16	-04 49 36.4	18.6	132
1997 RU ₂	1997 09 05.99073	00 01 04.97	-04 55 29.4	18.6	132

1997 RU ₂	1997 09 06.01873	00 01 03.51	-04 55 35.2		132
1997 RU ₂	1997 09 10.96631	23 57 09.90	-05 11 32.9	18.2	132
1997 RU ₂	1997 09 11.02237	23 57 07.04	-05 11 45.5	18.2	132

133 Les Tardieux

M. Boeuf, Les Tardieux, St Julien, F-13500 Martigues, France

[Michel.Boeuf@wanadoo.fr]

0.20-m $f/6.3$ reflector + CCD

GSC

(1980)	1997 08 02.84735	17 35 10.64	+46 16 22.7	14.2	133
(1980)	1997 08 02.89978	17 35 05.73	+46 17 26.7	14.1	133
(1980)	1997 08 03.87865	17 33 42.96	+46 37 05.7	14.5	133
(1980)	1997 08 03.92506	17 33 38.78	+46 37 59.9	14.0	133
(1980)	1997 08 07.86067	17 28 36.65	+47 50 21.1	14.4	133
(1980)	1997 08 07.87275	17 28 35.69	+47 50 33.7	14.4	133
(1980)	1997 08 08.83425	17 27 29.71	+48 06 47.1	14.6	133
(1980)	1997 08 08.86645	17 27 27.27	+48 07 19.0	14.8	133

134 GroszschwabhausenH.-G. Reimann, Astrophysikalisches Institut und Universitätssternwarte Jena,
Schillergäßchen 2, D-07745 Jena, Germany [rei@astro.uni-jena.de]0.90-m $f/2$ Schmidt + CCD

GSC

1991 RK ₇	1997 08 25.97093	22 03 41.65	-06 19 16.1	16.8 V	134
1991 RK ₇	1997 08 25.98869	22 03 40.51	-06 19 20.8	16.7 V	134
1991 RK ₇	1997 08 26.00771	22 03 39.22	-06 19 26.2	16.9 V	134

138 Village-Neuf

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Observers C. Demeautis, D. Matter, M. Lutsch

Measurer C. Demeautis

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

USNO SA-1.0

1986 RX ₂	1997 09 09.91469	23 44 00.37	-01 18 32.5	17.6	138
1986 RX ₂	1997 09 09.95753	23 43 58.38	-01 18 41.7	17.7	138
1987 UP ₂	1997 08 31.99181	23 33 19.81	+05 25 37.2	15.6	138
1987 UP ₂	1997 09 01.01754	23 33 18.81	+05 25 32.6	15.5	138
1987 UP ₂	1997 09 01.04285	23 33 17.82	+05 25 29.3	15.6	138
1990 UC	1997 08 31.97715	23 21 27.22	+01 36 43.3	15.7	138
1990 UC	1997 08 31.99948	23 21 26.37	+01 36 27.9	16.5	138
1990 UC	1997 09 01.02528	23 21 25.40	+01 36 11.4	16.3	138
1994 WD ₄	1997 08 31.98438	22 56 12.53	-06 33 48.1	17.5	138
1994 WD ₄	1997 09 01.00987	22 56 11.15	-06 33 59.9	17.2	138
1994 WD ₄	1997 09 01.03414	22 56 09.73	-06 34 11.7	17.1	138
9076 P-L	1997 08 31.90611	21 37 05.82	+03 32 11.6	16.5	138
9076 P-L	1997 08 31.93130	21 37 04.75	+03 31 55.4	16.5	138
(7194)	1997 08 31.89904	23 20 08.21	+08 32 04.5	15.2	138
(7194)	1997 08 31.92353	23 20 07.41	+08 31 46.3	15.2	138
(7194)	1997 08 31.94683	23 20 06.62	+08 31 28.3	15.2	138
(7353)	1997 08 31.88684	22 22 39.40	+00 41 46.5	15.1	138
(7353)	1997 08 31.91786	22 22 37.29	+00 41 52.2	15.3	138
(7353)	1997 08 31.93865	22 22 35.88	+00 41 56.1	15.2	138

140 Augerolles

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Observers M. Gouttesolard, F. Guillaumont, D. Romeuf

Measurers M. Gouttesolard, D. Romeuf

0.37-m $f/5.5$ reflector + CCD

GSC

(1943)	1997 08 22.98412	21 30 16.64	+14 48 19.8	15.8	140
(1943)	1997 08 23.00454	21 30 14.89	+14 48 00.9	15.8	140
(1943)	1997 08 23.02433	21 30 13.18	+14 47 41.8	15.8	140
(1943)	1997 08 23.05440	21 30 10.67	+14 47 13.4	15.8	140
(1959)	1997 08 31.11169	01 30 51.32	+20 03 58.2		140
(1959)	1997 08 31.12051	01 30 51.26	+20 04 00.0		140
(1959)	1997 08 31.13669	01 30 51.14	+20 04 03.3		140
(1959)	1997 08 31.15338	01 30 50.99	+20 04 07.5		140

141 Hottviller

P. Buttani, 2 Allee Blaise Pascal, F-67800 Bischheim, France
[philippe.buttani@hol.fr]

Observers P. Buttani, R. Philipps

Measurer P. Buttani

0.31-m $f/6$ Newton + CCD

GSC, USNO

1997 PJ ₄	1997 09 08.85387	20 25 57.79	-07 17 45.6	17.1	141
1997 PJ ₄	1997 09 08.97882	20 25 54.37	-07 17 56.2	16.9	141
(3750)	1997 09 08.91748	22 39 38.91	-16 39 01.6	16.3	141
(3750)	1997 09 08.93985	22 39 37.78	-16 39 03.8	16.4	141
(3750)	1997 09 08.96041	22 39 36.73	-16 39 05.7	16.3	141

292 Burlington

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

0.30-m $f/3.0$ Schmidt-Cassegrain + focal reducer + CCD

GSC

1996 HT ₁₇	1997 07 31.14064	20 43 43.18	-17 01 12.9		292
1996 HT ₁₇	1997 07 31.15449	20 43 42.44	-17 01 15.9		292
1996 HT ₁₇	1997 07 31.16840	20 43 41.73	-17 01 20.2	17.4	292
1996 HT ₁₇	1997 08 01.22014	20 42 49.03	-17 05 35.0	17.1	292
1996 HT ₁₇	1997 08 01.23403	20 42 48.34	-17 05 37.8		292
1996 HT ₁₇	1997 08 01.24792	20 42 47.60	-17 05 41.4		292
1997 NR ₂	1997 07 31.14064	20 42 46.99	-16 55 26.6		292
1997 NR ₂	1997 07 31.15449	20 42 46.10	-16 55 30.1		292
1997 NR ₂	1997 07 31.16840	20 42 45.27	-16 55 33.2	19.1	292
1997 NR ₂	1997 08 01.22014	20 41 47.68	-16 59 48.5	18.4	292
1997 NR ₂	1997 08 01.23403	20 41 46.87	-16 59 54.2		292
1997 NR ₂	1997 08 01.24792	20 41 45.97	-16 59 59.5		292
1997 OM	1997 07 31.14064	20 43 16.39	-16 56 08.4		292
1997 OM	1997 07 31.15449	20 43 15.67	-16 56 11.7		292
1997 OM	1997 07 31.16840	20 43 14.95	-16 56 16.3	18.0	292
1997 OM	1997 08 01.22014	20 42 22.04	-17 00 44.4	18.3	292
1997 OM	1997 08 01.23403	20 42 21.35	-17 00 47.8		292
1997 OM	1997 08 01.24792	20 42 20.60	-17 00 49.4		292

304 Las Campanas

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Observer A. Dressler

Measurer J. Tonry

2.54-m reflector + CCD

1994 LK ₁₀	1994 05 14.2677	16 13 56.54	-06 41 17.4	18.7	s 304
1994 LK ₁₀	1994 05 14.2781	16 13 55.92	-06 41 14.9	18.7	s 304
1994 LK ₁₀	1994 05 14.2823	16 13 55.72	-06 41 13.6	18.3	s 304
1994 LK ₁₀	1994 05 14.2927	16 13 55.17	-06 41 10.8	18.3	s 304

327 Peking Observatory, Xinglong Station

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[jinzhu@sun.ihep.ac.cn]

Observers L. C. Deng, X. Zhou, X. Y. Li, C. M. Ma, J. Zhu, Z. Y. Zheng,
H. J. Yan, Y. J. Chen

Measurers C. M. Ma, Y. J. Chen, X. Y. Li, J. Zhu

0.60-m Schmidt + CCD

1977 DT ₂	1997 08 05.78728	23 52 29.61	-03 01 18.1	18.1	327
1977 DT ₂	1997 08 05.79861	23 52 29.40	-03 01 19.6		327
1977 DT ₂	1997 08 05.80984	23 52 29.22	-03 01 21.0		327
1977 DT ₂	1997 08 10.79147	23 50 57.65	-03 13 30.6	18.1	327
1977 DT ₂	1997 08 10.80447	23 50 57.35	-03 13 32.9		327
1977 DT ₂	1997 08 10.81748	23 50 57.04	-03 13 35.1		327
1979 MC ₉	1997 07 12.66375	19 17 09.82	-17 45 49.6		327
1979 MC ₉	1997 07 12.67273	19 17 09.27	-17 45 50.4	18.6	327
1979 MC ₉	1997 07 12.68184	19 17 08.75	-17 45 51.4		327
1979 US	1997 08 05.78176	23 48 05.90	-04 10 39.9	18.1	327
1979 US	1997 08 05.79234	23 48 05.76	-04 10 40.5		327
1979 US	1997 08 05.80360	23 48 05.58	-04 10 41.0		327
1979 US	1997 08 11.78309	23 46 19.58	-04 18 34.2	18.3	327
1979 US	1997 08 11.79562	23 46 19.29	-04 18 35.4		327
1979 US	1997 08 11.80606	23 46 19.06	-04 18 36.6		327
1979 US	1997 08 18.65750	23 43 14.00	-04 33 12.0		327
1979 US	1997 08 18.67322	23 43 13.48	-04 33 14.7	18.3	327
1979 US	1997 08 18.68983	23 43 12.97	-04 33 17.1		327
1981 GO ₁	1997 08 03.80006	23 47 01.93	-03 31 00.1		327
1981 GO ₁	1997 08 03.81072	23 47 01.69	-03 31 01.3		327
1981 GO ₁	1997 08 03.82186	23 47 01.45	-03 31 03.0	18.9	327
1981 GO ₁	1997 08 10.80014	23 44 02.82	-03 49 04.9	19.3	327
1981 GO ₁	1997 08 10.81314	23 44 02.40	-03 49 08.0		327
1981 GO ₁	1997 08 10.82613	23 44 01.96	-03 49 10.0		327
1990 QW	1997 08 11.79021	23 49 33.54	-03 51 54.3		327
1990 QW	1997 08 11.80072	23 49 33.23	-03 51 52.4		327
1990 QW	1997 08 11.81150	23 49 32.96	-03 51 51.0		327
1990 QW	1997 08 11.81721	23 49 32.80	-03 51 49.8	17.4	327
1991 AE ₃	1997 07 24.69543	19 37 11.76	-18 26 11.5	16.1	327
1991 AE ₃	1997 07 24.69976	19 37 11.56	-18 26 11.9		327
1991 AE ₃	1997 07 24.70410	19 37 11.32	-18 26 13.9		327
1992 RC ₇	1997 08 05.78728	23 53 05.36	-02 55 18.8	17.5	327
1992 RC ₇	1997 08 05.79861	23 53 05.26	-02 55 20.7		327

1992 RC ₇	1997 08 05.80984	23 53 05.15	-02 55 22.1		327	1997 MY	1997 07 13.66841	19 49 52.79	-15 57 54.1		327
1992 RC ₇	1997 08 10.79147	23 52 08.35	-03 09 34.3		327	1997 MY	1997 07 13.68370	19 49 51.75	-15 57 56.5	19.5	327
1992 RC ₇	1997 08 10.80447	23 52 08.14	-03 09 37.0	17.9	327	1997 MY	1997 07 13.69878	19 49 50.77	-15 57 58.5		327
1992 RC ₇	1997 08 10.81748	23 52 07.91	-03 09 39.1		327	1997 NR ₆	1997 07 12.62980	19 10 36.64	-16 51 55.6		327
1993 FL ₆	1997 08 05.78176	23 50 15.00	-04 15 22.2	18.7	327	1997 NR ₆	1997 07 12.63922	19 10 36.11	-16 51 58.3		327
1993 FL ₆	1997 08 05.79234	23 50 14.83	-04 15 24.1		327	1997 NR ₆	1997 07 12.64789	19 10 35.65	-16 52 01.8	17.0	327
1993 FL ₆	1997 08 05.80360	23 50 14.65	-04 15 26.4		327	1997 NJ ₁₁	* 1997 07 12.66375	19 17 26.63	-17 49 38.6		327
1993 NB ₂	1997 07 12.69252	19 31 02.97	-22 04 56.7		327	1997 NJ ₁₁	1997 07 12.67273	19 17 26.14	-17 49 37.8	17.9	327
1993 NB ₂	1997 07 12.69686	19 31 02.68	-22 04 56.6	17.6	327	1997 NJ ₁₁	1997 07 12.68184	19 17 25.66	-17 49 37.0		327
1993 NB ₂	1997 07 12.70135	19 31 02.40	-22 04 57.0		327	1997 NJ ₁₁	1997 07 13.63683	19 16 35.30	-17 48 46.4	17.7	327
1996 FL ₂	1996 05 20.52350	10 40 28.75	+07 56 51.3	18.2 V	327	1997 NJ ₁₁	1997 07 13.64723	19 16 34.70	-17 48 45.9		327
1996 FL ₂	1996 05 20.54084	10 40 29.25	+07 56 47.6		327	1997 NK ₁₁	* 1997 07 09.78644	22 00 30.91	-11 43 46.3		327
1996 FL ₂	1996 05 20.55819	10 40 29.79	+07 56 44.2		327	1997 NK ₁₁	1997 07 09.79950	22 00 30.73	-11 43 47.2	18.7	327
1997 AV ₂₄	* 1997 01 02.79965	08 13 46.00	+21 11 20.2	18.8	327	1997 NK ₁₁	1997 07 09.80383	22 00 30.71	-11 43 46.3		327
1997 AV ₂₄	1997 01 02.80440	08 13 45.62	+21 11 20.8		327	1997 NK ₁₁	1997 07 10.76661	22 00 14.26	-11 45 40.4	19.7	327
1997 AV ₂₄	1997 01 02.80911	08 13 45.50	+21 11 22.2		327	1997 NK ₁₁	1997 07 10.77094	22 00 14.15	-11 45 39.7		327
1997 EN ₅₅	1997 03 14.49410	08 38 18.20	+17 23 39.8	18.5	327	1997 NK ₁₁	1997 07 10.77528	22 00 14.02	-11 45 40.9		327
1997 EN ₅₅	1997 03 14.50409	08 38 18.20	+17 23 44.9		327	1997 NL ₁₁	* 1997 07 09.78644	22 02 48.87	-11 25 20.3	18.6	327
1997 EN ₅₅	1997 03 14.51403	08 38 18.19	+17 23 50.6		327	1997 NL ₁₁	1997 07 09.79950	22 02 48.71	-11 25 24.0		327
1997 EO ₅₅	1997 03 08.72238	12 06 56.50	-00 42 15.6	17.8	327	1997 NL ₁₁	1997 07 09.80383	22 02 48.63	-11 25 25.4		327
1997 EO ₅₅	1997 03 08.72642	12 06 56.38	-00 42 14.6		327	1997 NL ₁₁	1997 07 10.76661	22 02 37.03	-11 30 05.4		327
1997 EO ₅₅	1997 03 08.73045	12 06 56.25	-00 42 13.6		327	1997 NL ₁₁	1997 07 10.77094	22 02 36.96	-11 30 07.2		327
1997 EP ₅₅	* 1997 03 03.62779	09 12 56.38	+14 55 48.0		327	1997 NL ₁₁	1997 07 10.77528	22 02 36.91	-11 30 08.1	18.8	327
1997 EP ₅₅	1997 03 03.63762	09 12 56.00	+14 55 51.2	19.2	327	1997 NL ₁₁	1997 07 10.77961	22 02 36.81	-11 30 09.1		327
1997 EP ₅₅	1997 03 03.64740	09 12 55.62	+14 55 54.8		327	1997 NM ₁₁	* 1997 07 10.73061	19 52 12.15	-15 10 52.2	19.3	327
1997 EQ ₅₅	* 1997 03 03.62779	09 15 10.25	+14 28 47.1		327	1997 NM ₁₁	1997 07 10.74251	19 52 11.53	-15 10 55.9		327
1997 EQ ₅₅	1997 03 03.63762	09 15 09.75	+14 28 49.6	18.6	327	1997 NM ₁₁	1997 07 10.75458	19 52 10.81	-15 11 00.1		327
1997 EQ ₅₅	1997 03 03.64740	09 15 09.38	+14 28 52.2		327	1997 NM ₁₁	1997 07 12.70569	19 50 25.00	-15 22 09.9	18.6	327
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1997 FT ₃	1995 11 23.60980	02 16 37.09	+11 52 34.6	18.2 V	327	1997 NM ₁₁	1997 07 12.71436	19 50 24.54	-15 22 13.2		327
1997 FT ₃	1995 11 23.62597	02 16 36.27	+11 52 29.1		327	1997 OX ₂	* 1997 07 24.68059	19 38 02.44	-16 04 40.6		327
1997 FE ₅	* 1997 03 30.73211	12 41 02.21	-02 14 28.6		327	1997 OX ₂	1997 07 24.68519	19 38 02.14	-16 04 42.0	17.3	327
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1997 FE ₅	1997 03 30.77259	12 41 00.22	-02 14 18.4		327	1997 PZ	1997 08 13.70834	23 43 42.68	-04 20 06.3		327
1997 GL ₄₄	* 1997 04 02.58414	11 02 47.03	+10 19 04.8	18.8	327	1997 PZ	1997 08 13.80762	23 43 39.53	-04 20 39.9		327
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1997 GL ₄₄	1997 04 11.56359	10 57 18.76	+09 44 30.0	19.0	327	1997 PC ₁	1997 08 10.81314	23 46 35.54	-03 51 19.2		327
1997 GL ₄₄	1997 04 11.57426	10 57 18.40	+09 44 26.9		327	1997 PC ₁	1997 08 10.82613	23 46 35.22	-03 51 21.1		327
1997 GN ₄₄	1997 04 10.53140	11 45 25.50	-01 52 11.1		327	1997 PC ₁	1997 08 11.78309	23 46 14.17	-03 54 07.0		327
1997 GN ₄₄	1997 04 10.54095	11 45 25.07	-01 52 07.7	19.0	327	1997 PC ₁	1997 08 11.79562	23 46 13.88	-03 54 08.7		327
1997 GN ₄₄	1997 04 10.55061	11 45 24.73	-01 52 04.6		327	1997 PC ₁	1997 08 11.80606	23 46 13.58	-03 54 10.6	19.2	327
1997 GO ₄₄	1997 04 10.53140	11 44 59.78	-02 02 43.1		327	1997 PD ₁	1997 08 11.78309	23 46 41.74	-04 25 26.0	19.5	327
1997 GO ₄₄	1997 04 10.54095	11 44 59.35	-02 02 38.9	18.9	327	1997 PD ₁	1997 08 11.79562	23 46 41.46	-04 25 28.5		327
1997 GO ₄₄	1997 04 10.55061	11 44 58.91	-02 02 34.8		327	1997 PD ₁	1997 08 11.80606	23 46 41.19	-04 25 31.5		327
1997 GP ₄₄	1997 04 10.53140	11 45 22.45	-01 55 04.3		327	1997 PD ₁	1997 08 13.70834	23 45 54.92	-04 33 45.4		327
1997 GP ₄₄	1997 04 10.54095	11 45 21.96	-01 55 00.6	19.1	327	1997 PD ₁	1997 08 13.80762	23 45 52.14	-04 34 11.8	19.7	327
1997 GP ₄₄	1997 04 10.55061	11 45 21.50	-01 54 57.3		327	1997 PD ₁	1997 08 13.81278	23 45 52.01	-04 34 13.6		327
1997 LB ₄	1997 07 13.74763	23 04 59.94	-05 25 15.8		327	1997 PD ₁	1997 08 13.81711	23 45 51.86	-04 34 14.3		327
1997 LB ₄	1997 07 13.76334	23 05 00.21	-05 25 12.1		327	1997 PD ₁	1997 08 13.82156	23 45 51.75	-04 34 15.8	19.2	327
1997 LB ₄	1997 07 13.77845	23 05 00.37	-05 25 09.6	18.8	327	1997 PD ₁	1997 08 13.82589	23 45 51.61	-04 34 16.7		327

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1997 PH ₃	* 1997 08 03.70741	21 06 54.29	-05 24 01.2	327	1997 PQ ₃	1997 08 05.79234	23 49 57.43	-04 20 36.3	18.5 327
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1997 PH ₃	1997 08 10.60221	21 01 38.85	-06 12 52.6	19.7 327	1997 PQ ₃	1997 08 10.82181	23 48 39.66	-04 27 09.0	18.7 327
1997 PH ₃	1997 08 10.60668	21 01 38.62	-06 12 54.6	327	1997 PR ₃	* 1997 08 05.78728	23 53 45.23	-02 43 51.1	19.3 327
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1997 PJ ₃	* 1997 08 03.71229	21 15 35.07	-06 18 07.6	18.7 327	1997 PR ₃	1997 08 05.80984	23 53 44.82	-02 43 55.1	327
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1997 PL ₃	* 1997 08 05.74142	22 10 07.23	+04 55 59.6	327	1997 PS ₃	1997 08 05.80984	23 53 52.77	-03 11 57.3	327
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1997 PL ₃	1997 08 05.76434	22 10 06.01	+04 55 55.7	19.1 327	1997 PS ₃	1997 08 10.80447	23 52 13.97	-03 21 07.0	19.8 327
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1997 PL ₃	1997 08 11.71931	22 05 20.34	+04 41 55.2	18.6 327	1997 PT ₃	1997 08 08.70606	21 56 51.76	+00 35 59.2	19.2 327
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1997 PM ₃	1997 08 05.80360	23 47 01.01	-03 56 52.8	327	1997 PT ₃	1997 08 10.59233	21 55 13.21	+00 37 25.7	19.3 327
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1997 PO ₃	* 1997 08 05.78176	23 48 34.08	-04 25 20.0	19.5 327	1997 PV ₃	1997 08 08.71164	21 58 26.05	+00 42 38.1	327
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1997 PO ₃	1997 08 10.79581	23 47 00.06	-04 42 17.4	327	1997 PV ₃	1997 08 09.73057	21 57 41.24	+00 40 43.8	17.0 327
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1997 PX ₄	1997 08 13.62211	21 52 19.34	+00 42 51.4	17.9	327	1997 PF ₅	1997 08 13.67546	23 10 24.09	-03 22 01.0	327
1997 PY ₄	* 1997 08 11.69843	22 18 34.77	+07 28 38.9	18.6	327	1997 PF ₅	1997 08 13.69449	23 10 23.51	-03 22 06.0	17.5 327
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1997 PA ₅	1997 08 11.77267	23 09 36.41	-02 10 22.6		327	1997 PW ₅	1997 08 05.75931	22 25 30.09	+06 29 59.9	18.8 327
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1997 PD ₅	1997 08 11.76104	23 09 20.25	-02 40 40.9	18.9	327	1997 QF ₄	1997 08 28.52602	21 00 35.81	-10 08 38.3	327
1997 PD ₅	1997 08 11.77773	23 09 19.51	-02 40 43.1		327	1997 QF ₄	1997 08 28.53037	21 00 35.56	-10 08 39.9	327
1997 PD ₅	1997 08 13.68144	23 07 58.66	-02 44 35.3	18.7	327	1997 QF ₄	1997 09 04.52258	20 55 29.69	-10 42 24.3	18.7 327
1997 PD ₅	1997 08 13.69010	23 07 58.23	-02 44 36.7		327	1997 QF ₄	1997 09 04.53279	20 55 29.33	-10 42 26.6	327
1997 PD ₅	1997 08 13.69882	23 07 57.86	-02 44 37.8		327	1997 QF ₄	1997 09 04.54293	20 55 28.88	-10 42 29.5	327
1997 PE ₅	* 1997 08 11.74571	23 10 14.57	-03 21 22.4	18.5	327	1997 RT	1997 09 02.84925	00 43 46.70	+28 27 36.3	327
1997 PE ₅	1997 08 11.76104	23 10 14.23	-03 21 25.6		327	1997 RT	1997 09 02.85358	00 43 47.76	+28 27 54.3	327

1997 RT	1997 09 02.85740	00 43 48.56	+28 28 09.4		327	1997 RL ₈	1997 09 12.78134	00 18 18.71	+05 57 40.6		327
1997 RN ₁	* 1997 09 01.74722	22 52 33.87	-02 34 24.2	17.9	327	1997 RM ₈	* 1997 09 04.75881	00 26 01.85	+06 58 18.4		327
1997 RN ₁	1997 09 01.75346	22 52 33.59	-02 34 24.8		327	1997 RM ₈	1997 09 04.77417	00 26 01.15	+06 58 14.3		327
1997 RN ₁	1997 09 01.75818	22 52 33.35	-02 34 25.5		327	1997 RM ₈	1997 09 04.78950	00 26 00.40	+06 58 09.7	18.1	327
1997 RN ₁	1997 09 04.60830	22 50 24.32	-02 41 12.0	17.8	327	1997 RM ₈	1997 09 12.77266	00 19 29.88	+06 16 18.2	18.1	327
1997 RN ₁	1997 09 04.62341	22 50 23.60	-02 41 14.5		327	1997 RM ₈	1997 09 12.77700	00 19 29.64	+06 16 16.6		327
1997 RN ₁	1997 09 04.63891	22 50 22.85	-02 41 16.7		327	1997 RM ₈	1997 09 12.78134	00 19 29.41	+06 16 15.1		327
1997 RN ₁	1997 09 12.62971	22 44 30.67	-03 02 47.6		327	1997 RN ₈	* 1997 09 04.75881	00 26 22.25	+06 43 35.3		327
1997 RN ₁	1997 09 12.63405	22 44 30.51	-03 02 48.6		327	1997 RN ₈	1997 09 04.77417	00 26 21.43	+06 43 38.1	17.9	327
1997 RN ₁	1997 09 12.63838	22 44 30.29	-03 02 49.2		327	1997 RN ₈	1997 09 04.78950	00 26 20.56	+06 43 41.2		327
1997 RN ₁	1997 09 12.64272	22 44 30.10	-03 02 49.9	18.0	327	1997 RN ₈	1997 09 13.71941	00 17 44.99	+07 06 52.0		327
1997 RK ₃	* 1997 09 03.83716	01 22 55.25	-05 13 45.7		327	1997 RN ₈	1997 09 13.72375	00 17 44.75	+07 06 52.3	18.0	327
1997 RK ₃	1997 09 03.84830	01 22 55.05	-05 13 49.6	17.9	327	1997 RN ₈	1997 09 13.72870	00 17 44.40	+07 06 53.2		327
1997 RK ₃	1997 09 03.85944	01 22 54.87	-05 13 53.1		327	1997 RN ₈	1997 09 13.73304	00 17 44.14	+07 06 53.4		327
1997 RK ₃	1997 09 04.80694	01 22 39.37	-05 18 59.6	17.4	327	1997 RO ₈	* 1997 09 04.76425	00 28 22.63	+05 56 03.6	18.4	327
1997 RK ₃	1997 09 04.82216	01 22 39.08	-05 19 04.5		327	1997 RO ₈	1997 09 04.77957	00 28 22.13	+05 56 03.5		327
1997 RK ₃	1997 09 04.83742	01 22 38.78	-05 19 10.6		327	1997 RO ₈	1997 09 04.79487	00 28 21.50	+05 56 02.8		327
1997 RK ₃	1997 09 07.76464	01 21 39.42	-05 35 24.1		327	1997 RO ₈	1997 09 12.78567	00 22 50.42	+05 48 09.3		327
1997 RK ₃	1997 09 07.76946	01 21 39.30	-05 35 26.4		327	1997 RO ₈	1997 09 12.79000	00 22 50.22	+05 48 08.6	18.5	327
1997 RK ₃	1997 09 07.77422	01 21 39.17	-05 35 27.4	17.5	327	1997 RO ₈	1997 09 12.79435	00 22 50.02	+05 48 08.6		327
1997 RK ₃	1997 09 07.77900	01 21 39.07	-05 35 29.1		327	1997 RO ₈	1997 09 13.74545	00 22 05.65	+05 46 34.5	18.4	327
1997 RL ₃	* 1997 09 04.75881	00 24 30.27	+07 02 44.3		327	1997 RO ₈	1997 09 13.75142	00 22 05.36	+05 46 34.1		327
1997 RL ₃	1997 09 04.77417	00 24 29.57	+07 02 45.6	16.8	327	1997 RO ₈	1997 09 13.75576	00 22 05.15	+05 46 33.4		327
1997 RL ₃	1997 09 04.78950	00 24 28.84	+07 02 46.8		327	1997 RO ₈	1997 09 13.76041	00 22 04.92	+05 46 32.9		327
1997 RL ₃	1997 09 07.67742	00 22 15.85	+07 06 07.6		327	1997 RP ₈	* 1997 09 04.81729	01 22 59.04	-03 31 56.9	19.2	327
1997 RL ₃	1997 09 07.68175	00 22 15.65	+07 06 08.1		327	1997 RP ₈	1997 09 04.83257	01 22 58.80	-03 32 00.5		327
1997 RL ₃	1997 09 07.68787	00 22 15.35	+07 06 08.6	17.1	327	1997 RP ₈	1997 09 04.84791	01 22 58.54	-03 32 04.7		327
1997 RL ₃	1997 09 07.69221	00 22 15.13	+07 06 08.9		327	1997 RP ₈	1997 09 12.79872	01 19 55.55	-04 07 02.0		327
1997 RL ₃	1997 09 13.71941	00 17 04.78	+07 08 51.7	16.9	327	1997 RP ₈	1997 09 12.80304	01 19 55.37	-04 07 03.2	18.0	327
1997 RL ₃	1997 09 13.72375	00 17 04.52	+07 08 51.6		327	1997 RP ₈	1997 09 12.80747	01 19 55.18	-04 07 04.2		327
1997 RL ₃	1997 09 13.72870	00 17 04.24	+07 08 51.7		327	1997 RQ ₈	* 1997 09 12.77266	00 21 11.80	+06 01 37.7	17.9	327
1997 RL ₃	1997 09 13.73304	00 17 04.01	+07 08 51.5		327	1997 RQ ₈	1997 09 12.77700	00 21 11.61	+06 01 36.8		327
1997 RJ ₈	* 1997 09 01.80872	01 23 53.00	+05 15 51.3	18.1	327	1997 RQ ₈	1997 09 12.78134	00 21 11.41	+06 01 35.7		327
1997 RJ ₈	1997 09 01.82397	01 23 52.76	+05 15 45.9		327	1997 RQ ₈	1997 09 13.74545	00 20 31.27	+05 57 34.0	17.8	327
1997 RJ ₈	1997 09 01.83896	01 23 52.45	+05 15 40.8		327	1997 RQ ₈	1997 09 13.75142	00 20 30.99	+05 57 32.6		327
1997 RJ ₈	1997 09 12.81243	01 19 12.03	+04 02 37.3	18.2	327	1997 RQ ₈	1997 09 13.75576	00 20 30.82	+05 57 31.4		327
1997 RJ ₈	1997 09 12.82203	01 19 11.70	+04 02 33.1		327	1997 RQ ₈	1997 09 13.76041	00 20 30.61	+05 57 30.2		327
1997 RJ ₈	1997 09 12.83153	01 19 11.36	+04 02 29.0		327	1997 RR ₈	* 1997 09 12.78567	00 22 18.52	+05 46 50.8	18.0	327
1997 RK ₈	* 1997 09 01.80872	01 27 01.82	+05 32 20.4		327	1997 RR ₈	1997 09 12.79000	00 22 18.34	+05 46 48.9		327
1997 RK ₈	1997 09 01.82397	01 27 01.59	+05 32 18.1	18.3	327	1997 RR ₈	1997 09 12.79435	00 22 18.19	+05 46 47.2		327
1997 RK ₈	1997 09 01.83896	01 27 01.35	+05 32 16.5		327	1997 RR ₈	1997 09 13.74545	00 21 41.39	+05 40 10.0		327
1997 RK ₈	1997 09 12.81735	01 23 06.10	+05 02 54.5	18.0	327	1997 RR ₈	1997 09 13.75142	00 21 41.17	+05 40 07.6		327
1997 RK ₈	1997 09 12.82679	01 23 05.83	+05 02 52.8		327	1997 RR ₈	1997 09 13.75576	00 21 40.98	+05 40 05.6		327
1997 RK ₈	1997 09 12.83628	01 23 05.53	+05 02 50.7		327	1997 RR ₈	1997 09 13.76041	00 21 40.78	+05 40 03.7	17.7	327
1997 RK ₈	1997 09 13.68022	01 22 41.13	+05 00 03.0		327	1997 RS ₈	* 1997 09 12.78567	00 22 23.78	+05 54 02.8	18.3	327
1997 RK ₈	1997 09 13.69426	01 22 40.71	+05 00 00.4	17.9	327	1997 RS ₈	1997 09 12.79000	00 22 23.64	+05 54 00.8		327
1997 RK ₈	1997 09 13.70744	01 22 40.30	+04 59 58.5		327	1997 RS ₈	1997 09 12.79435	00 22 23.55	+05 53 59.2		327
1997 RL ₈	* 1997 09 04.75881	00 23 41.86	+06 20 53.3	18.7	327	1997 RS ₈	1997 09 13.74545	00 21 59.83	+05 47 45.1		327
1997 RL ₈	1997 09 04.77417	00 23 41.29	+06 20 50.3		327	1997 RS ₈	1997 09 13.75142	00 21 59.68	+05 47 43.1		327
1997 RL ₈	1997 09 04.78950	00 23 40.64	+06 20 47.8		327	1997 RS ₈	1997 09 13.75576	00 21 59.56	+05 47 41.0	18.0	327
1997 RL ₈	1997 09 12.77266	00 18 19.08	+05 57 42.2	18.7	327	1997 RS ₈	1997 09 13.76041	00 21 59.39	+05 47 39.5		327
1997 RL ₈	1997 09 12.77700	00 18 18.89	+05 57 41.5		327	1997 RT ₈	* 1997 09 12.81243	01 19 53.15	+03 45 26.0		327

1997 RT ₈	1997 09 12.82203	01 19 52.82	+03 45 23.1	18.3	327	(1121)	1997 08 18.72742	23 47 16.77	-04 18 29.7		327
1997 RT ₈	1997 09 12.83153	01 19 52.47	+03 45 20.7		327	(1121)	1997 08 18.75000	23 47 15.97	-04 18 31.1	15.0	327
1997 RT ₈	1997 09 13.67534	01 19 24.14	+03 41 36.8	17.9	327	(1121)	1997 08 18.77176	23 47 15.21	-04 18 32.4		327
1997 RT ₈	1997 09 13.68993	01 19 23.59	+03 41 32.8		327	(1553)	1997 08 18.71373	23 43 28.54	-05 50 24.6		327
1997 RT ₈	1997 09 13.70311	01 19 23.09	+03 41 28.9		327	(1553)	1997 08 18.73949	23 43 27.70	-05 50 31.9	16.5	327
1997 RU ₈	* 1997 09 12.84102	01 24 28.05	+03 53 17.6		327	(1553)	1997 08 18.75970	23 43 27.04	-05 50 37.4		327
1997 RU ₈	1997 09 12.84576	01 24 27.86	+03 53 15.7	18.7	327	(1557)	1997 08 18.65750	23 43 52.76	-05 16 38.6		327
1997 RU ₈	1997 09 12.85065	01 24 27.68	+03 53 13.9		327	(1557)	1997 08 18.67322	23 43 52.18	-05 16 39.2	16.2	327
1997 RU ₈	1997 09 13.65653	01 23 59.59	+03 47 51.0	18.7	327	(1557)	1997 08 18.68983	23 43 51.54	-05 16 39.7		327
1997 RU ₈	1997 09 13.66087	01 23 59.43	+03 47 49.2		327	(2958)	1997 07 24.63477	19 05 08.73	-22 48 08.4		327
1997 RU ₈	1997 09 13.66520	01 23 59.25	+03 47 47.1		327	(2958)	1997 07 24.63910	19 05 08.53	-22 48 08.7	16.6	327
1997 RU ₈	1997 09 13.66954	01 23 59.10	+03 47 46.1		327	(2958)	1997 07 24.64343	19 05 08.33	-22 48 09.0		327
1997 RV ₈	* 1997 09 12.84102	01 24 33.14	+03 33 00.6	16.6	327	(3499)	1997 07 13.75287	23 11 02.72	-05 11 12.0		327
1997 RV ₈	1997 09 12.84576	01 24 32.97	+03 33 00.2		327	(3499)	1997 07 13.76867	23 11 02.86	-05 11 12.0	17.5	327
1997 RV ₈	1997 09 12.85065	01 24 32.79	+03 32 59.8		327	(3499)	1997 07 13.78440	23 11 02.98	-05 11 12.7		327
1997 RV ₈	1997 09 13.65653	01 24 05.92	+03 31 56.0	16.8	327	(3705)	1997 07 13.70900	19 16 38.37	-20 46 47.1		327
1997 RV ₈	1997 09 13.66087	01 24 05.75	+03 31 55.4		327	(3705)	1997 07 13.71333	19 16 38.17	-20 46 47.8	16.6	327
1997 RV ₈	1997 09 13.66520	01 24 05.60	+03 31 55.0		327	(3705)	1997 07 13.71782	19 16 37.98	-20 46 48.2		327
1997 RV ₈	1997 09 13.66954	01 24 05.43	+03 31 54.7		327	(4471)	1997 08 13.83501	23 41 41.99	-03 47 07.5		327
1997 RW ₈	* 1997 09 12.84102	01 25 35.90	+03 20 09.3	16.1	327	(4471)	1997 08 13.83935	23 41 41.84	-03 47 07.0	16.5	327
1997 RW ₈	1997 09 12.84576	01 25 35.76	+03 20 07.7		327	(4471)	1997 08 13.84368	23 41 41.68	-03 47 06.5		327
1997 RW ₈	1997 09 12.85065	01 25 35.63	+03 20 05.9		327	(4471)	1997 08 13.84800	23 41 41.53	-03 47 05.9		327
1997 RW ₈	1997 09 13.65653	01 25 15.19	+03 15 41.4	16.2	327	(4537)	1997 08 13.61345	21 50 35.03	+00 30 26.3	15.9	327
1997 RW ₈	1997 09 13.66087	01 25 15.07	+03 15 39.9		327	(4537)	1997 08 13.61778	21 50 34.82	+00 30 25.1		327
1997 RW ₈	1997 09 13.66520	01 25 14.94	+03 15 38.4		327	(4537)	1997 08 13.62211	21 50 34.62	+00 30 24.2		327
1997 RW ₈	1997 09 13.66954	01 25 14.81	+03 15 37.1		327	(5317)	1997 07 10.59184	19 09 54.66	-16 29 06.5		327
1997 RX ₈	* 1997 09 12.84102	01 26 41.52	+03 53 48.2	19.0	327	(5317)	1997 07 10.59619	19 09 54.42	-16 29 08.3	16.1	327
1997 RX ₈	1997 09 12.84576	01 26 41.34	+03 53 46.9		327	(5317)	1997 07 10.60286	19 09 54.05	-16 29 11.0		327
1997 RX ₈	1997 09 12.85065	01 26 41.14	+03 53 45.8		327	(5760)	1997 07 25.53227	15 19 29.68	-10 41 09.4	18.5	327
1997 RX ₈	1997 09 13.65653	01 26 14.03	+03 49 53.7		327	(5760)	1997 07 25.54222	15 19 29.93	-10 41 10.8		327
1997 RX ₈	1997 09 13.66087	01 26 13.84	+03 49 51.9		327	(5760)	1997 07 25.55119	15 19 30.20	-10 41 10.9		327
1997 RX ₈	1997 09 13.66520	01 26 13.72	+03 49 50.6		327	(6117)	1997 07 24.73126	20 51 00.65	-17 26 54.4	16.2	327
1997 RX ₈	1997 09 13.66954	01 26 13.59	+03 49 49.8	19.0	327	(6117)	1997 07 24.73687	20 51 00.30	-17 26 54.3		327
1997 RY ₈	* 1997 09 12.84102	01 27 44.51	+03 45 49.6	18.2	327	(6117)	1997 07 24.74127	20 51 00.02	-17 26 54.7		327
1997 RY ₈	1997 09 12.84576	01 27 44.38	+03 45 47.8		327	(6247)	1997 08 18.79020	01 23 43.83	-04 22 56.6		327
1997 RY ₈	1997 09 12.85065	01 27 44.27	+03 45 46.0		327	(6247)	1997 08 18.80501	01 23 43.98	-04 23 00.8	17.4	327
1997 RY ₈	1997 09 13.65653	01 27 23.28	+03 40 47.7		327	(6247)	1997 08 18.81988	01 23 44.12	-04 23 05.2		327
1997 RY ₈	1997 09 13.66087	01 27 23.12	+03 40 46.2	18.6	327	(6919)	1997 07 11.75266	19 51 45.09	-17 21 56.5		327
1997 RY ₈	1997 09 13.66954	01 27 22.92	+03 40 42.7		327	(6919)	1997 07 11.75699	19 51 44.78	-17 21 58.0	18.0	327
4196 T-2	1997 09 12.81243	01 20 45.20	+03 43 07.3	17.2	327	(6919)	1997 07 11.76133	19 51 44.50	-17 21 59.1		327
4196 T-2	1997 09 12.82203	01 20 44.88	+03 43 05.1		327	(6919)	1997 07 13.67326	19 49 47.00	-17 31 04.3		327
4196 T-2	1997 09 12.83153	01 20 44.58	+03 43 03.1		327	(6919)	1997 07 13.68863	19 49 46.00	-17 31 08.7		327
4196 T-2	1997 09 13.67534	01 20 17.25	+03 39 51.6	17.2	327	(6919)	1997 07 13.70348	19 49 45.03	-17 31 13.1	17.3	327
4196 T-2	1997 09 13.68993	01 20 16.76	+03 39 48.3		327	(6936)	1997 07 25.67089	19 11 24.71	-20 58 56.9		327
4196 T-2	1997 09 13.70311	01 20 16.29	+03 39 45.2		327	(6936)	1997 07 25.68126	19 11 24.21	-20 58 58.8	17.6	327
(45)	1997 08 18.65264	23 40 04.29	-05 06 25.3	12.8	327	(6936)	1997 07 25.68993	19 11 23.78	-20 58 59.8		327
(45)	1997 08 18.66821	23 40 03.77	-05 06 31.2		327						
(45)	1997 08 18.68448	23 40 03.24	-05 06 37.4		327						
(631)	1997 08 08.73749	22 24 15.48	+17 27 19.7		327						
(631)	1997 08 08.74318	22 24 15.26	+17 27 19.3		327						
(631)	1997 08 08.75022	22 24 14.96	+17 27 18.7	13.0	327						
(631)	1997 08 08.75575	22 24 14.73	+17 27 18.3		327						

355 Hadano

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

GSC

1979 SU ₂	1997 08 12.61812	21 57 19.63	-01 59 32.1	17.0 V	355
1979 SU ₂	1997 08 12.62013	21 57 19.51	-01 59 32.8		355
1979 SU ₂	1997 08 12.62468	21 57 19.28	-01 59 33.3		355
1979 SU ₂	1997 08 12.62708	21 57 19.14	-01 59 34.9		355
1979 SU ₂	1997 08 12.62917	21 57 19.01	-01 59 34.3		355
1981 EG ₅	1997 08 12.56948	21 31 00.27	-15 00 36.5	16.9 V	355
1981 EG ₅	1997 08 12.57185	21 31 00.17	-15 00 37.3		355
1981 EG ₅	1997 08 12.57473	21 30 59.94	-15 00 36.4		355
1981 EG ₅	1997 08 12.58177	21 30 59.45	-15 00 37.1		355
1981 EG ₅	1997 08 12.58406	21 30 59.33	-15 00 36.2		355
1989 PU	1997 08 12.51702	20 13 35.57	-12 17 55.2	16.3 V	355
1989 PU	1997 08 12.52026	20 13 35.40	-12 18 01.3		355
1989 PU	1997 08 12.52230	20 13 35.31	-12 18 04.5		355
1989 PU	1997 08 12.52458	20 13 35.23	-12 18 08.7		355
1997 LY ₄	1997 09 11.55609	20 07 19.52	+05 20 06.8		355
1997 LY ₄	1997 09 11.55811	20 07 19.74	+05 20 06.4	16.8 V	355
1997 RT	1997 09 02.69073	00 43 10.34	+28 17 01.7	16.8 V	355
1997 RT	1997 09 02.69638	00 43 11.53	+28 17 24.3		355
1997 RT	1997 09 02.69867	00 43 11.91	+28 17 33.3		355
1997 RT	1997 09 02.70454	00 43 13.20	+28 17 57.5		355
1997 RT	1997 09 02.70903	00 43 14.14	+28 18 16.0		355
1997 RT	1997 09 10.66008	01 09 13.93	+34 47 32.4	17.1 V	355
1997 RT	1997 09 10.66359	01 09 14.32	+34 47 39.1		355
1997 RD ₁	1997 09 07.55398	21 35 12.11	-05 49 18.8	16.4 V	355
1997 RD ₁	1997 09 07.55684	21 35 12.11	-05 49 22.3		355

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T. Okuni, 158-28, Mitsuma-dori, Nanyou, Yamagata-Ken, 999-22 Japan
 0.28-m $f/6.3$ Schmidt-Cassegrain + CCD
 GSC

1989 GR ₄	1997 08 30.75797	23 27 57.18	-00 51 32.8		358
1997 NG ₃	1997 07 25.65189	20 24 39.98	-09 20 48.9	16.8 V	358
1997 NG ₃	1997 07 25.65553	20 24 39.91	-09 20 50.1		358
1997 NG ₃	1997 07 25.65882	20 24 39.77	-09 20 53.7		358
1997 NE ₁₁	1997 07 25.62699	20 23 06.14	-06 07 25.1	15.9 V	358
1997 NE ₁₁	1997 07 25.64230	20 23 05.15	-06 07 24.4		358
1997 NE ₁₁	1997 07 25.64918	20 23 04.78	-06 07 22.7		358
1997 OZ ₁	1997 08 05.69025	21 38 18.65	-06 53 06.9	17.5 V	358
1997 OZ ₁	1997 08 05.71111	21 38 17.76	-06 53 15.9		358
1997 OZ ₁	1997 08 05.72914	21 38 16.76	-06 53 28.0		358
1997 OZ ₁	1997 08 28.57278	21 20 46.78	-10 54 42.8	17.3 V	358
1997 OZ ₁	1997 08 28.57773	21 20 46.47	-10 54 44.2		358
1997 OZ ₁	1997 08 28.59571	21 20 45.77	-10 54 56.5		358
1997 OA ₂	1997 08 04.57468	21 35 58.68	-09 20 46.5	16.9 V	358
1997 OA ₂	1997 08 04.59175	21 35 57.75	-09 20 55.2		358
1997 OV ₂	* 1997 07 27.62942	21 45 59.02	-07 15 01.0	17.8 V	358
1997 OV ₂	1997 07 27.65161	21 45 58.18	-07 15 04.1		358
1997 OV ₂	1997 07 27.67225	21 45 56.82	-07 15 02.7		358
1997 OV ₂	1997 07 29.65583	21 44 21.68	-07 15 35.6	17.9 V	358
1997 OV ₂	1997 07 29.70027	21 44 19.55	-07 15 36.8		358
1997 OV ₂	1997 08 01.71465	21 41 48.56	-07 17 13.4	17.9 V	358
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360 Kuma Kogen Astronomical Observatory

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1993 KQ	1997 09 01.60624	23 24 13.08	-19 30 20.0		367
1993 QX ₄	1997 08 23.59618	22 07 40.69	-07 09 56.9	17.1 V	367

1993 QX ₄	1997 08 23.60104	22 07 40.42	-07 10 00.1		367	1997 RG	1997 09 01.64304	23 43 52.58	-04 50 39.3		367
1993 RC ₂	1997 09 01.61978	23 31 52.69	-12 59 41.1	17.2 V	367	1997 RG	1997 09 02.57396	23 43 11.47	-04 53 46.3	18.1 V	367
1993 RC ₂	1997 09 01.62464	23 31 52.37	-12 59 40.4		367	1997 RG	1997 09 02.57882	23 43 11.19	-04 53 46.9		367
1993 TE	1997 08 16.80487	00 37 04.56	+11 00 42.0	16.5 V	367	1997 RG	1997 09 09.61580	23 37 34.11	-05 18 17.6	18.0 V	367
1993 TE	1997 08 16.80903	00 37 04.66	+11 00 41.8		367	1997 RG	1997 09 09.62066	23 37 33.83	-05 18 18.6		367
1993 TE	1997 08 16.81321	00 37 04.75	+11 00 41.5		367	1997 RH	* 1997 09 01.64756	23 48 09.69	+00 07 30.7	18.4 V	367
1993 TE	1997 08 25.62118	00 39 52.07	+10 34 44.6	16.5 V	367	1997 RH	1997 09 01.65242	23 48 09.47	+00 07 28.6		367
1993 TE	1997 08 25.63160	00 39 52.16	+10 34 42.0		367	1997 RH	1997 09 02.60242	23 47 27.39	+00 03 42.1	18.8 V	367
1993 TE	1997 08 27.56075	00 40 09.30	+10 25 32.2	16.3 V	367	1997 RH	1997 09 02.60728	23 47 27.12	+00 03 39.5		367
1993 TE	1997 08 27.57082	00 40 09.32	+10 25 29.3		367	1997 RH	1997 09 09.62557	23 41 55.59	-00 26 58.1	17.9 V	367
1993 TE	1997 09 08.56390	00 39 21.27	+09 00 16.5	16.3 V	367	1997 RH	1997 09 09.63050	23 41 55.35	-00 26 58.9		367
1993 TE	1997 09 08.56875	00 39 21.18	+09 00 14.1		367	1997 RT	1997 09 02.58368	00 42 47.24	+28 09 26.2	16.2 V	367
1993 VX	1997 09 01.61052	23 42 10.66	-15 07 53.4	17.3 V	367	1997 RT	1997 09 02.58715	00 42 48.01	+28 09 41.5		367
1993 VX	1997 09 01.61538	23 42 10.44	-15 07 55.8		367	1997 RT	1997 09 02.59063	00 42 48.82	+28 09 56.4		367
1994 TD ₂	1997 08 26.60278	23 19 54.93	-16 49 35.9	16.1 V	367	1997 RT	1997 09 02.59410	00 42 49.61	+28 10 11.5		367
1994 TD ₂	1997 08 26.60764	23 19 54.70	-16 49 37.3		367	1997 RT	1997 09 02.59756	00 42 50.39	+28 10 26.8		367
1994 UH	1997 09 01.57117	23 03 11.24	-09 07 42.8	17.9 V	367	1997 RT	1997 09 08.55175	01 03 42.11	+33 29 58.7	16.5 V	367
1994 UH	1997 09 01.57603	23 03 10.95	-09 07 45.1		367	1997 RT	1997 09 08.55453	01 03 42.54	+33 30 06.3		367
1994 UH	1997 09 02.55382	23 02 16.40	-09 14 29.9	18.0 V	367	1997 RT	1997 09 08.55730	01 03 43.00	+33 30 13.6		367
1994 UH	1997 09 02.55868	23 02 16.11	-09 14 30.9		367	1997 RT	1997 09 08.56008	01 03 43.36	+33 30 20.4		367
1995 DE ₂	1997 09 01.59166	23 20 25.74	-01 50 07.0	16.8 V	367	1997 RT	1997 09 09.54654	01 06 26.47	+34 08 21.3	16.6 V	367
1995 DE ₂	1997 09 01.59652	23 20 25.38	-01 50 06.9		367	1997 RT	1997 09 09.54955	01 06 26.90	+34 08 28.6		367
1995 DE ₂	1997 09 02.56377	23 19 36.55	-01 53 28.9	17.1 V	367	1997 RT	1997 09 09.55231	01 06 27.30	+34 08 35.2		367
1995 DE ₂	1997 09 02.56863	23 19 36.29	-01 53 30.4		367	1997 RT	1997 09 09.55509	01 06 27.67	+34 08 42.1		367
1996 HC ₁	1997 08 26.55660	21 30 25.67	-36 22 15.3	18.0 V	367	1997 RJ ₅	* 1997 09 08.53890	23 18 26.17	-01 06 53.1	18.5 V	367
1996 HC ₁	1997 08 26.56146	21 30 25.47	-36 22 15.8		367	1997 RJ ₅	1997 09 08.54411	23 18 25.88	-01 06 53.9		367
1996 HC ₁	1997 08 27.54132	21 29 29.74	-36 23 29.1	18.0 V	367	1997 RJ ₅	1997 09 09.55904	23 17 33.99	-01 10 00.0	19.0 V	367
1996 HC ₁	1997 08 27.54617	21 29 29.57	-36 23 29.7		367	1997 RJ ₅	1997 09 09.56391	23 17 33.56	-01 09 59.0		367
1997 QH	* 1997 08 22.57847	21 48 38.43	-10 54 20.2	17.8 V	367	1997 RK ₅	* 1997 09 08.57431	22 38 13.18	-07 35 57.6	18.8 V	367
1997 QH	1997 08 22.58333	21 48 38.18	-10 54 20.8		367	1997 RK ₅	1997 09 08.57951	22 38 12.94	-07 36 00.1		367
1997 QH	1997 08 23.55764	21 47 51.90	-10 58 50.8	18.2 V	367	1997 RK ₅	1997 09 09.57847	22 37 21.21	-07 44 23.0	18.8 V	367
1997 QH	1997 08 23.56250	21 47 51.62	-10 58 51.8		367	1997 RK ₅	1997 09 09.58334	22 37 20.91	-07 44 25.4		367
1997 QH	1997 08 25.55140	21 46 17.41	-11 08 00.4	18.7 V	367	1997 RU ₅	* 1997 09 02.53854	22 43 58.38	-07 00 15.6	18.4 V	367
1997 QH	1997 08 25.55626	21 46 17.25	-11 08 02.5		367	1997 RU ₅	1997 09 02.54826	22 43 57.78	-07 00 17.9		367
1997 QH	1997 08 25.56112	21 46 17.05	-11 08 04.3		367	1997 RV ₅	* 1997 09 08.57431	22 38 42.96	-07 41 06.0	18.7 V	367
1997 QT ₄	* 1997 08 25.61111	22 51 17.77	-06 42 03.1	17.8 V	367	1997 RV ₅	1997 09 08.57951	22 38 42.74	-07 41 06.2		367
1997 QT ₄	1997 08 25.61597	22 51 17.51	-06 42 03.7		367	1997 RG ₇	* 1997 09 09.60590	23 15 19.50	-02 59 57.9	18.5 V	367
1997 QT ₄	1997 08 27.55069	22 49 53.75	-06 51 26.9	17.3 V	367	1997 RG ₇	1997 09 09.61077	23 15 19.27	-02 59 59.1		367
1997 QT ₄	1997 08 27.55558	22 49 53.55	-06 51 28.0		367						
1997 RE	* 1997 09 01.57117	23 02 56.89	-09 01 32.9	18.0 V	367						
1997 RE	1997 09 01.57603	23 02 56.69	-09 01 34.8		367						
1997 RE	1997 09 02.55382	23 02 16.79	-09 11 17.0	18.0 V	367						
1997 RE	1997 09 02.55868	23 02 16.59	-09 11 19.7		367						
1997 RE	1997 09 09.59585	22 57 25.04	-10 20 14.7	18.1 V	367						
1997 RE	1997 09 09.60087	22 57 24.82	-10 20 18.3		367						
1997 RF	* 1997 09 01.59166	23 20 28.02	-01 44 10.5	18.2 V	367						
1997 RF	1997 09 01.59652	23 20 27.84	-01 44 13.7		367						
1997 RF	1997 09 02.56377	23 19 51.73	-01 53 02.8	18.1 V	367						
1997 RF	1997 09 02.56863	23 19 51.56	-01 53 05.9		367						
1997 RF	1997 09 09.60590	23 15 20.79	-02 59 01.9	18.5 V	367						
1997 RF	1997 09 09.61077	23 15 20.54	-02 59 04.7		367						
1997 RG	* 1997 09 01.63818	23 43 52.84	-04 50 38.6	18.1 V	367						

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T. Seki, Kamimachi 2-9-35, Kochi 780, Japan

0.60-m $f/3.5$ reflector

1997 QK	1997 08 24.54476	21 34 43.26	-06 27 30.0	16	372
1997 QK	1997 08 25.55955	21 33 53.27	-06 28 42.5	16	372
1997 QK	1997 08 25.59506	21 33 51.51	-06 28 45.0		372
1997 QK	1997 08 25.63056	21 33 49.74	-06 28 47.5		372
1997 QK	1997 08 27.68472	21 32 10.58	-06 31 21.0	16.5	372
1997 RE ₉	* 1997 09 04.70990	00 44 46.85	+00 20 07.5	16	372
1997 RE ₉	1997 09 09.65799	00 41 51.77	+00 17 13.7	15.5	372
1997 RE ₉	1997 09 10.73056	00 41 08.33	+00 16 17.4	15.5	372
1997 RF ₉	* 1997 09 09.65799	00 41 39.33	+00 22 21.8	16.5	372
1997 RF ₉	1997 09 10.73056	00 41 04.33	+00 18 56.1	16.5	372

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

0.30-m reflector + CCD

GSC

1988 XJ ₁	1997 06 07.54662	16 14 48.86	-19 28 46.3	376
1988 XJ ₁	1997 06 07.55463	16 14 48.37	-19 28 47.1	376
1992 AH ₁	1997 05 04.50142	13 24 47.85	-23 14 43.4	376
1992 AH ₁	1997 05 04.51378	13 24 47.30	-23 14 40.6	376
1992 DZ	1997 06 07.63663	17 41 35.04	-03 22 34.7	376
1992 DZ	1997 06 07.64352	17 41 34.66	-03 22 35.1	376
1992 DZ	1997 07 05.57209	17 17 44.56	-05 01 27.8	376
1992 DZ	1997 07 05.58313	17 17 44.06	-05 01 31.7	376

385 Nihondaira Observatory

T. Urata, 1-8, Dobayashi 1 Chome, Shimizu, Shizuoka-Ken, 424 Japan

0.31-m $f/4.7$ reflector + CCD

GSC, USNO-A1.0

1990 UC	1997 08 28.60179	23 23 16.54	+02 10 27.2	16.3 V	385
1990 UC	1997 08 28.61913	23 23 15.94	+02 10 16.8		385
1991 BE	1997 08 28.59137	22 29 22.98	+24 19 24.0	18.0 V	385
1991 BE	1997 08 28.61171	22 29 21.66	+24 19 24.6		385
1991 VT ₁	1997 08 28.52287	21 37 34.16	-08 42 39.1	17.2 V	385
1991 VT ₁	1997 08 28.53900	21 37 33.11	-08 42 43.6		385
1991 VT ₁	1997 09 03.53475	21 32 04.68	-09 10 11.4	17.6 V	385
1991 VT ₁	1997 09 03.54348	21 32 04.21	-09 10 13.8		385
1992 RD ₁	1997 09 04.55314	23 13 56.43	-11 27 39.2	18.1 V	385
1992 RD ₁	1997 09 04.57072	23 13 55.38	-11 27 40.0		385
1992 RD ₁	1997 09 05.61123	23 12 56.25	-11 28 05.8	17.4 V	385
1992 RD ₁	1997 09 05.61706	23 12 55.93	-11 28 05.8		385
1992 RD ₁	1997 09 05.61988	23 12 55.77	-11 28 05.6		385
1992 RD ₁	1997 09 05.62429	23 12 55.49	-11 28 05.8		385
1993 US	1997 09 03.58089	21 43 15.76	-12 47 33.8	18.0 V	385
1993 US	1997 09 03.58985	21 43 15.30	-12 47 35.7		385
1993 US	1997 09 04.52404	21 42 36.24	-12 51 53.9	17.9 V	385
1993 US	1997 09 04.52830	21 42 36.11	-12 51 55.4		385
1993 US	1997 09 04.53258	21 42 35.84	-12 51 56.6		385
1994 SB	1997 08 28.54941	21 48 25.34	-07 07 31.0	16.7 V	385
1994 SB	1997 08 28.56236	21 48 24.51	-07 07 33.5		385
1994 XY	1997 08 28.59749	22 33 47.19	-22 55 35.8	17.3 V	385
1994 XY	1997 08 28.61582	22 33 46.12	-22 55 44.1		385
1995 EF	1997 08 28.60668	23 26 54.97	-11 29 43.4	18.6 V	385
1995 EF	1997 08 28.62309	23 26 54.33	-11 29 50.1		385
1995 EF	1997 09 04.56681	23 21 47.69	-12 17 01.9	18.9 V	385
1995 EF	1997 09 04.58123	23 21 46.98	-12 17 06.7		385
1997 PN ₅	1997 08 23.52089	20 31 03.42	-10 19 18.0	16.9 V	385
1997 PN ₅	1997 08 28.49229	20 27 13.05	-10 14 28.7	17.1 V	385
1997 PN ₅	1997 08 28.49885	20 27 12.74	-10 14 28.1		385
1997 PN ₅	1997 08 28.50703	20 27 12.34	-10 14 27.9		385
1997 PO ₅	1997 08 23.57676	20 35 47.51	-13 05 47.0	15.2 V	385
1997 PO ₅	1997 08 23.61113	20 35 46.54	-13 06 02.7		385
1997 QY ₁	1997 09 03.60774	23 13 54.56	-11 19 16.6	16.7 V	385
1997 QY ₁	1997 09 03.62025	23 13 53.86	-11 19 20.1		385

1997 QY ₁	1997 09 04.55314	23 13 05.13	-11 23 33.9	16.5 V	385
1997 QY ₁	1997 09 04.57072	23 13 04.14	-11 23 38.8		385
1997 QB ₂	1997 09 03.61196	23 20 57.67	-08 48 50.6	17.5 V	385
1997 QB ₂	1997 09 03.62454	23 20 56.89	-08 48 48.4		385
1997 QB ₂	1997 09 04.55715	23 20 03.93	-08 46 20.9	17.1 V	385
1997 QB ₂	1997 09 04.57404	23 20 02.84	-08 46 18.0		385
1997 QB ₂	1997 09 11.59409	23 13 08.16	-08 26 00.0	16.7 V	385
1997 QB ₂	1997 09 11.62562	23 13 06.13	-08 25 53.8		385
1997 QC ₂	1997 09 03.61624	23 25 43.13	-11 12 04.8	17.4 V	385
1997 QC ₂	1997 09 03.62868	23 25 42.65	-11 12 11.7		385
1997 QC ₂	1997 09 11.60655	23 20 17.74	-12 22 02.6	17.2 V	385
1997 QC ₂	1997 09 11.63297	23 20 16.61	-12 22 15.3		385
1997 QD ₂	1997 09 04.58672	23 30 20.16	-10 22 36.1	17.1 V	385
1997 QD ₂	1997 09 04.59793	23 30 19.68	-10 22 41.4		385
1997 QD ₂	1997 09 11.61434	23 25 24.01	-11 15 48.3	16.7 V	385
1997 QD ₂	1997 09 11.64122	23 25 22.81	-11 15 59.6		385
1997 QE ₂	1997 09 04.59082	23 31 00.08	-09 10 57.3	17.7 V	385
1997 QE ₂	1997 09 04.60109	23 30 59.54	-09 10 59.4		385
1997 QE ₂	1997 09 05.62963	23 30 08.74	-09 15 10.0	18.0 V	385
1997 QE ₂	1997 09 05.64089	23 30 08.18	-09 15 13.8		385
1997 QF ₂	1997 09 04.59470	23 33 56.76	-10 05 20.4	17.6 V	385
1997 QF ₂	1997 09 04.60427	23 33 56.22	-10 05 20.1		385
1997 QF ₂	1997 09 11.61794	23 27 31.31	-10 09 22.4	17.7 V	385
1997 QF ₂	1997 09 11.62130	23 27 31.12	-10 09 21.6		385
1997 QF ₂	1997 09 11.64539	23 27 29.77	-10 09 23.1		385
1997 QB ₄	1997 09 04.56205	23 22 22.65	-08 33 48.0	18.0 V	385
1997 QB ₄	1997 09 04.57736	23 22 21.57	-08 33 45.3		385
1997 QB ₄	1997 09 11.60245	23 14 08.81	-08 12 54.2	17.5 V	385
1997 QB ₄	1997 09 11.62966	23 14 06.87	-08 12 50.3		385
1997 QC ₄	1997 09 03.54921	21 51 49.71	+02 39 11.0	17.1 V	385
1997 QC ₄	1997 09 03.55227	21 51 49.58	+02 39 10.1		385
1997 QC ₄	1997 09 03.55900	21 51 49.29	+02 39 08.0		385
1997 QG ₄	1997 09 11.61080	23 21 08.58	-11 07 10.1	17.2 V	385
1997 QG ₄	1997 09 11.63766	23 21 07.36	-11 07 23.4		385
1997 RT	1997 09 04.54198	00 50 34.43	+30 14 08.6	17.1 V	385
1997 RT	1997 09 04.54499	00 50 35.02	+30 14 19.8		385
1997 RT	1997 09 04.54706	00 50 35.39	+30 14 27.3		385
1997 RT	1997 09 04.54921	00 50 35.85	+30 14 35.2		385
1997 RJ ₁	* 1997 09 03.60774	23 14 06.75	-11 16 06.6	18.0 V	385
1997 RJ ₁	1997 09 03.62025	23 14 06.21	-11 16 11.4		385
1997 RJ ₁	1997 09 04.55314	23 13 27.95	-11 22 18.0	17.7 V	385
1997 RJ ₁	1997 09 04.57072	23 13 27.22	-11 22 25.0		385
1997 RJ ₁	1997 09 05.61123	23 12 44.09	-11 29 12.2	18.1 V	385
1997 RJ ₁	1997 09 05.61706	23 12 43.86	-11 29 14.8		385
1997 RJ ₁	1997 09 05.61988	23 12 43.71	-11 29 15.4		385
1997 RJ ₁	1997 09 05.62429	23 12 43.51	-11 29 16.7		385
1997 RP ₁	1997 09 05.63399	23 33 59.61	-02 36 14.5	17.6 V	385
1997 RP ₁	1997 09 05.63681	23 33 59.45	-02 36 14.7		385
1997 RP ₁	1997 09 05.64654	23 33 58.94	-02 36 16.0		385
1997 RP ₁	1997 09 11.64942	23 28 57.08	-02 47 33.1	17.3 V	385
1997 RP ₁	1997 09 11.68507	23 28 55.16	-02 47 37.9		385
1997 RQ ₁	* 1997 09 04.59082	23 30 36.85	-09 08 15.8	17.3 V	385

1997 RQ ₁	1997 09 04.60109	23 30 36.35	-09 08 21.5		385
1997 RQ ₁	1997 09 05.62963	23 29 48.71	-09 17 30.3	17.3 V	385
1997 RQ ₁	1997 09 05.64089	23 29 48.16	-09 17 37.0		385
1997 RO ₃	1997 09 11.65363	00 53 30.41	+02 59 34.3	17.7 V	385
1997 RO ₃	1997 09 11.67211	00 53 29.81	+02 59 26.7		385
1997 RP ₃	1997 09 11.65690	00 55 57.31	+02 50 48.5	17.6 V	385
1997 RP ₃	1997 09 11.66020	00 55 57.20	+02 50 47.6		385
1997 RP ₃	1997 09 11.67667	00 55 56.67	+02 50 43.4		385
1997 RQ ₃	1997 09 11.65690	00 56 39.25	+02 52 42.5	17.7 V	385
1997 RQ ₃	1997 09 11.66020	00 56 39.13	+02 52 41.8		385
1997 RQ ₃	1997 09 11.67667	00 56 38.58	+02 52 37.3		385
1997 RR ₃	1997 09 11.66441	00 58 01.20	+03 09 17.9	17.0 V	385
1997 RR ₃	1997 09 11.68094	00 58 00.66	+03 09 09.0		385
(4144)	1997 08 23.53851	20 32 19.36	-10 28 30.7	16.9 V	385
(4144)	1997 08 23.56492	20 32 18.45	-10 28 38.9		385
(5602)	1997 09 11.62130	23 27 30.98	-10 16 00.5	17.5 V	385
(5602)	1997 09 11.64539	23 27 29.50	-10 16 12.0		385
(5666)	1997 08 28.52287	21 37 03.82	-08 37 26.9	17.6 V	385
(5666)	1997 08 28.53900	21 37 02.94	-08 37 31.5		385
(5666)	1997 09 03.53475	21 32 09.17	-09 05 45.5	18.2 V	385
(5666)	1997 09 03.54348	21 32 08.79	-09 05 48.5		385

399 Kushiro

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

Observer S. Ueda

Measurer H. Kaneda

0.25-m $f/3.4$ hyperboloid astrocamera
GSC

1992 YU ₅	* 1992 12 17.59514	06 20 37.47	+20 49 41.9	16.5	399
1992 YU ₅	1992 12 17.61007	06 20 36.67	+20 49 42.6		399
1992 YU ₅	1993 01 13.43611	05 58 04.33	+21 17 49.6	17	399
1992 YU ₅	1993 01 13.45069	05 58 03.60	+21 17 50.2		399

402 Dynic Astronomical Observatory

A. Sugie, Dynic Astronomical Observatory, Taga 283-1, Taga, Inukami-Gun, Shiga-
Ken 522-03, Japan [hhf00201@niftyserve.or.jp]

0.60-m $f/5.0$ reflector + CCD

GSC

1992 LR	1997 08 24.70000	02 11 29.73	+20 21 16.0	17.2 V	402
1992 LR	1997 08 24.70278	02 11 29.80	+20 21 16.3		402
1992 LR	1997 08 24.70555	02 11 29.89	+20 21 16.7		402
1992 LR	1997 08 25.66985	02 12 09.17	+20 21 54.2	17.9 V	402
1992 LR	1997 08 25.67402	02 12 09.28	+20 21 54.7		402
1992 LR	1997 08 25.67818	02 12 09.42	+20 21 54.7		402
1993 TE	1997 08 11.66774	00 34 22.50	+11 04 16.4	17.1 V	402
1993 TE	1997 08 11.66983	00 34 22.56	+11 04 16.4		402
1993 TE	1997 08 11.67191	00 34 22.63	+11 04 16.6		402
1993 TE	1997 08 24.65110	00 39 40.76	+10 38 52.9	16.6 V	402
1993 TE	1997 08 24.65318	00 39 40.77	+10 38 52.4		402
1993 TE	1997 08 24.65929	00 39 40.83	+10 38 50.9		402
1993 TE	1997 08 25.64764	00 39 52.27	+10 34 38.3	16.6 V	402
1993 TE	1997 08 25.65181	00 39 52.30	+10 34 37.1		402

1993 TE	1997 08 25.65597	00 39 52.34	+10 34 36.0		402
1993 TE	1997 08 27.63595	00 40 09.63	+10 25 09.3	16.5 V	402
1993 TE	1997 08 27.64013	00 40 09.64	+10 25 08.1		402
1993 TE	1997 08 27.64429	00 40 09.66	+10 25 06.9		402
1997 MD ₁₀	1997 08 11.58730	17 30 30.57	-04 42 51.6	20.0 V	402
1997 MD ₁₀	1997 08 11.58889	17 30 30.39	-04 42 46.6		402
1997 MD ₁₀	1997 08 24.53175	17 19 59.22	+01 05 50.8	20.8 V	402
1997 MD ₁₀	1997 08 24.53452	17 19 59.12	+01 05 55.7		402
1997 MD ₁₀	1997 08 24.53730	17 19 58.96	+01 05 58.8		402
1997 MD ₁₀	1997 08 25.50017	17 19 31.09	+01 29 16.4	19.0 V	402
1997 MD ₁₀	1997 08 25.50295	17 19 30.97	+01 29 19.2		402
1997 MD ₁₀	1997 08 25.50573	17 19 30.90	+01 29 24.1		402
1997 MD ₁₀	1997 09 04.48142	17 17 03.07	+05 10 58.9	19.7 V	402
1997 MD ₁₀	1997 09 04.48491	17 17 03.09	+05 11 03.0		402
1997 MD ₁₀	1997 09 04.48838	17 17 03.06	+05 11 05.3		402
1997 NR ₁₀	1997 08 11.63721	19 46 48.38	-15 47 27.7	19.0 V	402
1997 NR ₁₀	1997 08 11.63929	19 46 48.30	-15 47 28.6		402
1997 NR ₁₀	1997 08 11.64138	19 46 48.24	-15 47 29.5		402
1997 NR ₁₀	1997 09 02.48898	19 46 23.21	-18 02 48.1	19.4 V	402
1997 NR ₁₀	1997 09 02.49315	19 46 23.29	-18 02 49.1		402
1997 NR ₁₀	1997 09 02.49731	19 46 23.40	-18 02 49.8		402
1997 NR ₁₀	1997 09 04.50610	19 47 13.92	-18 12 12.4	19.5 V	402
1997 NR ₁₀	1997 09 04.50957	19 47 13.98	-18 12 13.6		402
1997 NR ₁₀	1997 09 04.51304	19 47 14.09	-18 12 14.2		402
1997 QH	1997 08 25.63093	21 46 13.56	-11 08 23.1	18.7 V	402
1997 QH	1997 08 25.63370	21 46 13.47	-11 08 23.2		402
1997 QH	1997 08 25.63648	21 46 13.34	-11 08 24.7		402
1997 QH	1997 08 27.58881	21 44 42.45	-11 17 18.6	19.3 V	402
1997 QH	1997 08 27.59297	21 44 42.23	-11 17 19.6		402
1997 QH	1997 08 27.59714	21 44 42.04	-11 17 21.0		402
1997 QK	1997 08 24.54818	21 34 42.97	-06 27 30.8	17.4 V	402
1997 QK	1997 08 24.58065	21 34 41.31	-06 27 33.3		402
1997 QK	1997 08 24.62439	21 34 39.08	-06 27 36.3		402
1997 QK	1997 08 25.58131	21 33 52.17	-06 28 44.7	17.5 V	402
1997 QK	1997 08 25.59669	21 33 51.40	-06 28 45.7		402
1997 QK	1997 08 25.60855	21 33 50.80	-06 28 46.7		402
1997 QK	1997 08 26.69751	21 32 57.79	-06 30 07.0	17.3 V	402
1997 QK	1997 08 26.69959	21 32 57.69	-06 30 07.2		402
1997 QK	1997 08 26.70168	21 32 57.60	-06 30 07.5		402
1997 QN	* 1997 08 24.70000	02 11 59.63	+20 16 32.7	17.7 V	402
1997 QN	1997 08 24.70278	02 11 59.71	+20 16 33.2		402
1997 QN	1997 08 24.70555	02 11 59.83	+20 16 34.3		402
1997 QN	1997 08 25.66985	02 12 35.99	+20 21 16.6	18.1 V	402
1997 QN	1997 08 25.67402	02 12 36.15	+20 21 17.7		402
1997 QN	1997 08 25.67818	02 12 36.31	+20 21 19.1		402
1997 QN	1997 08 26.75466	02 13 14.64	+20 26 23.6	18.4 V	402
1997 QN	1997 08 26.75814	02 13 14.76	+20 26 24.7		402
1997 QN	1997 08 26.76161	02 13 14.88	+20 26 25.9		402
1997 QN	1997 08 27.75383	02 13 48.63	+20 30 56.8	18.6 V	402
1997 QN	1997 08 27.75730	02 13 48.75	+20 30 58.1		402
1997 QN	1997 08 27.76077	02 13 48.84	+20 30 58.9		402
1997 QN	1997 08 28.70884	02 14 19.61	+20 35 09.1	18.4 V	402

1997 SEPT.16

M.P.C. 30537

1997 QN	1997 08 28.71231	02 14 19.72	+20 35 09.9		402	1997 RT	1997 09 11.69773	01 11 40.23	+35 20 15.5		402
1997 QN	1997 08 28.71579	02 14 19.82	+20 35 10.8		402	1997 RJ ₅	1997 09 09.63271	23 17 29.91	-01 10 12.9	19.0 V	402
1997 QN	1997 09 02.76507	02 16 35.80	+20 54 49.7	18.3 V	402	1997 RJ ₅	1997 09 09.63499	23 17 29.77	-01 10 13.1		402
1997 QN	1997 09 02.76854	02 16 35.86	+20 54 50.5		402	1997 RJ ₅	1997 09 10.68075	23 16 36.03	-01 13 27.3	18.3 V	402
1997 QN	1997 09 02.77201	02 16 35.94	+20 54 51.3		402	1997 RJ ₅	1997 09 10.68671	23 16 35.69	-01 13 28.2		402
1997 QA ₂	* 1997 08 25.64764	00 40 09.17	+10 36 07.9	18.7 V	402	1997 RK ₅	1997 09 04.58715	22 41 44.04	-07 02 01.8	19.3 V	402
1997 QA ₂	1997 08 25.65181	00 40 09.06	+10 36 07.5		402	1997 RK ₅	1997 09 04.58993	22 41 43.88	-07 02 03.5		402
1997 QA ₂	1997 08 25.65597	00 40 08.94	+10 36 07.5		402	1997 RK ₅	1997 09 04.59274	22 41 43.76	-07 02 04.7		402
1997 QA ₂	1997 08 27.61051	00 39 21.92	+10 34 09.4	18.5 V	402	1997 RK ₅	1997 09 09.65163	22 37 17.24	-07 44 59.0	18.9 V	402
1997 QA ₂	1997 08 27.61468	00 39 21.83	+10 34 09.1		402	1997 RK ₅	1997 09 09.66213	22 37 16.69	-07 45 04.6		402
1997 QA ₂	1997 08 27.61884	00 39 21.70	+10 34 08.6		402	1997 RU ₅	1997 09 04.58715	22 42 09.23	-07 08 20.5	19.3 V	402
1997 QA ₂	1997 09 04.68094	00 35 16.30	+10 19 13.2	18.6 V	402	1997 RU ₅	1997 09 04.58993	22 42 09.05	-07 08 21.4		402
1997 QA ₂	1997 09 04.68441	00 35 16.17	+10 19 12.6		402	1997 RU ₅	1997 09 04.59274	22 42 08.92	-07 08 21.9		402
1997 QA ₂	1997 09 04.69564	00 35 15.75	+10 19 10.7		402	1997 RU ₅	1997 09 09.64885	22 37 43.14	-07 28 04.7	18.9 V	402
1997 QJ ₃	* 1997 08 28.66472	21 32 59.99	-06 26 49.5	18.2 V	402	1997 RU ₅	1997 09 09.65970	22 37 42.53	-07 28 06.2		402
1997 QJ ₃	1997 08 28.67028	21 32 59.72	-06 26 52.0		402	1997 RV ₅	1997 09 09.65163	22 37 51.57	-07 45 25.7	19.1 V	402
1997 QJ ₃	1997 08 28.67583	21 32 59.47	-06 26 54.5		402	1997 RV ₅	1997 09 09.66213	22 37 51.05	-07 45 28.2		402
1997 QJ ₃	1997 09 02.53291	21 29 40.80	-07 03 52.8	18.3 V	402	1997 RE ₇	* 1997 09 04.52576	21 30 26.24	-06 20 56.9	19.7 V	402
1997 QJ ₃	1997 09 02.53638	21 29 40.67	-07 03 54.4		402	1997 RE ₇	1997 09 04.53132	21 30 25.95	-06 20 57.7		402
1997 QJ ₃	1997 09 02.53985	21 29 40.51	-07 03 55.9		402	1997 RE ₇	1997 09 04.54243	21 30 25.43	-06 20 59.6		402
1997 QJ ₃	1997 09 04.55102	21 28 26.12	-07 19 02.7	18.6 V	402	1997 RE ₇	1997 09 10.62256	21 26 23.08	-06 37 44.0	19.3 V	402
1997 QJ ₃	1997 09 04.55380	21 28 26.02	-07 19 03.9		402	1997 RE ₇	1997 09 10.62534	21 26 22.96	-06 37 44.7		402
1997 QJ ₃	1997 09 04.55657	21 28 25.92	-07 19 05.1		402	1997 RE ₇	1997 09 10.62811	21 26 22.91	-06 37 44.8		402
1997 RE	1997 09 11.64552	22 56 00.93	-10 39 41.9	18.5 V	402	1997 RH ₇	* 1997 09 09.73755	23 15 48.74	-01 16 21.9	19.1 V	402
1997 RE	1997 09 11.64831	22 56 00.80	-10 39 43.7		402	1997 RH ₇	1997 09 09.74723	23 15 48.12	-01 16 23.6		402
1997 RE	1997 09 11.65109	22 56 00.69	-10 39 45.1		402	1997 RH ₇	1997 09 10.64688	23 14 58.18	-01 18 37.4	19.3 V	402
1997 RF	1997 09 11.65840	23 14 00.40	-03 18 36.1	18.6 V	402	1997 RH ₇	1997 09 10.64985	23 14 57.99	-01 18 37.2		402
1997 RF	1997 09 11.66676	23 14 00.03	-03 18 41.1		402	1997 RH ₇	1997 09 10.65282	23 14 57.81	-01 18 38.5		402
1997 RF	1997 09 11.66954	23 13 59.92	-03 18 42.4		402	1997 RH ₇	1997 09 11.62714	23 14 03.72	-01 21 07.3	18.9 V	402
1997 RG	1997 09 11.67307	23 35 49.73	-05 25 37.0	18.6 V	402	1997 RH ₇	1997 09 11.63400	23 14 03.34	-01 21 08.6		402
1997 RG	1997 09 11.67585	23 35 49.62	-05 25 37.5		402	1997 RH ₇	1997 09 11.63857	23 14 03.05	-01 21 09.3		402
1997 RG	1997 09 11.67862	23 35 49.44	-05 25 38.3		402	1997 RH ₇	1997 09 12.62763	23 13 08.28	-01 23 41.6	18.7 V	402
1997 RH	1997 09 11.68216	23 40 13.75	-00 36 34.0	17.9 V	402	1997 RH ₇	1997 09 12.64105	23 13 07.50	-01 23 43.6		402
1997 RH	1997 09 11.68494	23 40 13.60	-00 36 34.1		402	1997 RH ₇	1997 09 12.64661	23 13 07.16	-01 23 45.0		402
1997 RH	1997 09 11.68772	23 40 13.46	-00 36 35.1		402	1997 RA ₈	* 1997 09 09.73755	23 16 01.20	-01 17 34.4	18.3 V	402
1997 RH	1997 09 12.61726	23 39 27.21	-00 41 00.0	18.7 V	402	1997 RA ₈	1997 09 09.74723	23 16 00.68	-01 17 37.1		402
1997 RH	1997 09 12.62004	23 39 27.06	-00 41 01.0		402	1997 RA ₈	1997 09 10.64688	23 15 18.37	-01 21 41.5	18.3 V	402
1997 RH	1997 09 12.62281	23 39 26.93	-00 41 02.0		402	1997 RA ₈	1997 09 10.64985	23 15 18.21	-01 21 42.2		402
1997 RT	1997 09 02.70193	00 43 12.91	+28 17 47.4	16.1 V	402	1997 RA ₈	1997 09 10.65282	23 15 18.07	-01 21 43.2		402
1997 RT	1997 09 02.70471	00 43 13.51	+28 17 58.7		402	1997 RA ₈	1997 09 11.62714	23 14 32.11	-01 26 10.7	18.2 V	402
1997 RT	1997 09 02.70749	00 43 14.09	+28 18 10.3		402	1997 RA ₈	1997 09 11.63400	23 14 31.76	-01 26 12.6		402
1997 RT	1997 09 03.66300	00 47 08.86	+29 21 04.4	16.3 V	402	1997 RA ₈	1997 09 11.63857	23 14 31.53	-01 26 13.8		402
1997 RT	1997 09 03.66404	00 47 09.05	+29 21 08.0		402	1997 RB ₈	* 1997 09 10.62256	21 26 29.94	-06 39 19.3	17.9 V	402
1997 RT	1997 09 03.66508	00 47 09.25	+29 21 11.8		402	1997 RB ₈	1997 09 10.62534	21 26 29.87	-06 39 20.6		402
1997 RT	1997 09 04.70374	00 51 05.67	+30 23 45.8	16.8 V	402	1997 RB ₈	1997 09 10.62811	21 26 29.78	-06 39 22.0		402
1997 RT	1997 09 04.71595	00 51 07.94	+30 24 27.7		402	1997 RB ₈	1997 09 11.59265	21 26 04.99	-06 46 48.1	17.8 V	402
1997 RT	1997 09 04.71804	00 51 08.34	+30 24 34.9		402	1997 RB ₈	1997 09 11.60178	21 26 04.74	-06 46 52.8		402
1997 RT	1997 09 09.79583	01 06 58.84	+34 17 35.9	17.2 V	402	1997 RB ₈	1997 09 11.62002	21 26 04.26	-06 47 01.2		402
1997 RT	1997 09 09.79792	01 06 59.11	+34 17 40.0		402	1997 RB ₈	1997 09 12.57234	21 25 41.51	-06 54 17.3	17.8 V	402
1997 RT	1997 09 09.80000	01 06 59.39	+34 17 44.4		402	1997 RB ₈	1997 09 12.57462	21 25 41.44	-06 54 18.2		402
1997 RT	1997 09 11.69356	01 11 39.79	+35 20 07.9	17.1 V	402	1997 RB ₈	1997 09 12.57690	21 25 41.39	-06 54 19.4		402
1997 RT	1997 09 11.69565	01 11 40.01	+35 20 11.7		402	1997 RG ₈	* 1997 09 11.65840	23 14 01.11	-03 14 22.7	18.5 V	402

1997 RG ₈	1997 09 11.66676	23 14 00.87	−03 14 35.6		402
1997 RG ₈	1997 09 11.66954	23 14 00.76	−03 14 40.4		402
1997 RG ₈	1997 09 12.60023	23 13 31.72	−03 40 15.8	18.5 V	402
1997 RG ₈	1997 09 12.60579	23 13 31.56	−03 40 24.6		402
1997 RG ₈	1997 09 12.70119	23 13 28.22	−03 43 01.7		402
1997 RG ₈	1997 09 12.70896	23 13 27.94	−03 43 14.7		402
1997 RH ₈	* 1997 09 11.68216	23 40 02.68	−00 37 04.1	17.8 V	402
1997 RH ₈	1997 09 11.68494	23 40 02.49	−00 37 03.9		402
1997 RH ₈	1997 09 11.68772	23 40 02.33	−00 37 04.5		402
1997 RH ₈	1997 09 12.61726	23 39 08.25	−00 39 01.7	18.3 V	402
1997 RH ₈	1997 09 12.62004	23 39 08.10	−00 39 02.2		402
1997 RH ₈	1997 09 12.62281	23 39 07.93	−00 39 02.4		402
(4882)	1997 09 04.73427	03 47 21.92	+18 37 14.7	17.4 V	402
(4882)	1997 09 04.75976	03 47 23.32	+18 37 15.7		402
(4882)	1997 09 04.78882	03 47 24.86	+18 37 16.5		402

411 Oizumi

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

GSC

1982 FG ₃	1994 11 15.78503	04 22 38.86	+24 42 52.9		411
1982 FG ₃	1994 11 15.80196	04 22 37.85	+24 42 50.3		411
1990 OY ₁	1995 11 16.67476	04 11 26.95	+19 12 59.8		411
1990 OY ₁	1995 11 16.68823	04 11 26.07	+19 12 57.5		411

413 Siding Spring

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Observers K. S. Russell, G. J. Garradd

Measurers O. Hernius, R. H. McNaught

1.2-m U.K. Schmidt, 1.0-m reflector + CCD

1990 ST ₂₉	* 1990 09 23.39642	20 45 09.99	−21 17 59.4	17.5 V	413
1990 ST ₂₉	1990 09 23.44156	20 45 11.81	−21 18 02.5		413
1993 HN ₈	* 1993 04 16.52653	11 48 52.12	+06 23 20.9	18.3	3 413

422 Loomberah

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

0.25-m $f/4.1$ reflector + CCD

GSC

1997 BR	1997 08 13.77787	01 46 23.38	−47 50 01.9	18.5 R	422
1997 BR	1997 08 13.77878	01 46 23.32	−47 50 04.2	18.2 R	422
1997 BR	1997 08 13.77968	01 46 23.16	−47 50 05.7	18.4 R	422
1997 NC ₁	1997 08 12.45599	13 57 41.37	−49 28 21.4	18.3 R	422
1997 NC ₁	1997 08 12.45725	13 57 41.44	−49 28 22.5	18.2 R	422
1997 NC ₁	1997 08 29.40210	14 22 58.19	−56 12 35.7	19.7 R	422
1997 NC ₁	1997 08 29.40390	14 22 58.26	−56 12 37.5	19.7 R	422
1997 NC ₁	1997 08 29.40571	14 22 58.41	−56 12 39.3		I 422
1997 NC ₁	1997 08 30.44709	14 24 34.66	−56 32 53.0	19.0 R	422
1997 NC ₁	1997 08 30.44903	14 24 34.85	−56 32 55.6	19.0 R	422
1997 NC ₁	1997 08 30.45096	14 24 34.97	−56 32 56.9	18.7 R	422

1997 NC ₁	1997 09 06.45858	14 35 26.07	−58 39 23.6	18.5 R	422
1997 NC ₁	1997 09 06.46081	14 35 26.25	−58 39 25.5		I 422
1997 PO	1997 08 25.56378	20 12 45.04	−21 25 34.1	18.9 R	422
1997 PO	1997 08 25.56559	20 12 45.07	−21 25 36.9	18.8 R	422
1997 PO	1997 08 25.56741	20 12 45.10	−21 25 39.5		I 422
1997 PO	1997 08 29.45189	20 13 59.01	−22 58 08.4	18.2 R	422
1997 PO	1997 08 29.45414	20 13 59.05	−22 58 11.3	18.1 R	422
1997 PO	1997 08 29.45640	20 13 59.07	−22 58 14.4	18.1 R	422
1997 QK ₁	1997 08 30.45647	16 11 40.48	−15 36 55.3		V 422
1997 QK ₁	1997 08 30.45755	16 11 41.19	−15 36 54.8		V 422
1997 QK ₁	1997 08 30.45861	16 11 41.77	−15 36 54.8		V 422
1997 QK ₁	1997 08 30.46108	16 11 42.94	−15 36 55.1		V 422
1997 RD ₁	1997 09 06.47610	21 34 50.22	−05 24 41.8	17.1 R	422
1997 RD ₁	1997 09 06.47718	21 34 50.22	−05 24 43.2	17.0 R	422
1997 RD ₁	1997 09 06.47825	21 34 50.26	−05 24 44.6	17.1 R	422
1997 RD ₁	1997 09 06.48119	21 34 50.30	−05 24 48.9	17.1 R	422
1997 RM ₁	1997 09 06.49304	20 27 22.14	−25 54 07.6	17.2 R	422
1997 RM ₁	1997 09 06.49436	20 27 22.20	−25 54 07.1	17.2 R	422
1997 RM ₁	1997 09 06.49570	20 27 22.24	−25 54 06.2	17.1 R	422
1997 RM ₁	1997 09 06.49996	20 27 22.34	−25 54 03.1	17.0 R	422
1997 RM ₁	1997 09 06.50103	20 27 22.38	−25 54 02.4	17.2 R	422
(15)	1997 08 12.46829	17 08 26.60	−27 14 28.0	10.1 R	422
(15)	1997 08 12.46932	17 08 26.61	−27 14 27.7	10.1 R	422
(15)	1997 08 12.47037	17 08 26.62	−27 14 27.5	10.1 R	422
(15)	1997 08 19.50457	17 09 55.40	−26 44 45.1	10.4 R	422
(15)	1997 08 19.50548	17 09 55.44	−26 44 44.7	10.4 R	422
(15)	1997 08 19.50640	17 09 55.45	−26 44 44.6	10.4 R	422
(126)	1997 08 25.55420	18 13 41.35	−27 35 27.3	13.1 R	I 422
(126)	1997 08 25.55512	18 13 41.37	−27 35 27.2	13.2 R	I 422
(126)	1997 08 25.55605	18 13 41.38	−27 35 27.1	13.1 R	I 422
(126)	1997 08 30.49154	18 15 40.44	−27 26 42.9	13.0 R	422
(126)	1997 08 30.49245	18 15 40.47	−27 26 42.8	12.8 R	422
(126)	1997 08 30.49336	18 15 40.50	−27 26 42.6	12.9 R	422
(132)	1997 08 30.51321	23 10 58.18	+31 34 25.6	14.3 R	422
(132)	1997 08 30.51445	23 10 58.12	+31 34 25.6	14.3 R	422
(132)	1997 08 30.51567	23 10 58.05	+31 34 25.8	14.3 R	422
(313)	1997 08 19.53816	21 45 32.19	−03 46 59.2	13.5 R	422
(313)	1997 08 19.54098	21 45 32.04	−03 47 00.5	13.4 R	422
(313)	1997 08 19.54240	21 45 31.95	−03 47 01.1	13.2 R	422
(313)	1997 08 25.57247	21 40 18.69	−04 36 18.1	13.0 R	422
(313)	1997 08 25.57343	21 40 18.64	−04 36 18.7	13.1 R	422
(313)	1997 08 25.57438	21 40 18.59	−04 36 19.2	13.1 R	422
(313)	1997 08 30.50372	21 36 12.18	−05 17 49.0	13.3 R	422
(313)	1997 08 30.50462	21 36 12.13	−05 17 49.3	13.5 R	422
(347)	1997 08 14.74765	01 23 37.82	−07 33 35.7	14.4 R	422
(347)	1997 08 14.74848	01 23 37.84	−07 33 36.0	14.4 R	422
(347)	1997 08 14.74931	01 23 37.84	−07 33 36.2	14.3 R	422
(347)	1997 08 30.52632	01 20 39.79	−08 57 01.5	14.1 R	422
(347)	1997 08 30.52726	01 20 39.76	−08 57 01.6	14.1 R	422
(347)	1997 08 30.52821	01 20 39.73	−08 57 01.9	14.1 R	422
(513)	1997 08 19.53816	21 45 43.38	−03 49 59.4	14.2 R	E 422
(513)	1997 08 19.54240	21 45 43.18	−03 50 01.1	14.0 R	E 422

(1959)	1997 08 14.75719	01 28 03.21	+18 33 31.0	16.4 R	422
(1959)	1997 08 14.75815	01 28 03.24	+18 33 31.4	16.1 R	422
(1959)	1997 08 14.75910	01 28 03.27	+18 33 31.6	16.3 R	422
(2915)	1997 08 25.53209	17 24 47.76	-39 08 36.1	16.5 R	422
(2915)	1997 08 25.53366	17 24 47.82	-39 08 35.5	16.8 R	422
(2915)	1997 08 25.53522	17 24 47.87	-39 08 34.7		I 422
(2915)	1997 08 29.42994	17 28 04.43	-38 39 22.0	16.5 R	422
(2915)	1997 08 29.43211	17 28 04.54	-38 39 21.1	16.4 R	422
(2915)	1997 08 29.43425	17 28 04.67	-38 39 20.2	16.4 R	422
(2915)	1997 08 30.46840	17 29 01.42	-38 31 39.7	17.0 R	I 422
(3752)	1997 08 14.77421	05 06 02.25	-27 06 34.1	17.3 R	422
(3752)	1997 08 14.77565	05 06 02.67	-27 06 36.1	17.7 R	422
(3752)	1997 08 14.77708	05 06 03.11	-27 06 38.7	17.4 R	422
(3753)	1997 08 14.76444	03 23 16.98	-07 15 42.0	17.8 R	422
(3753)	1997 08 14.76551	03 23 17.12	-07 15 42.5		422
(3753)	1997 08 14.76658	03 23 17.22	-07 15 43.5		422
(3840)	1997 08 13.78817	02 09 15.79	+10 14 07.0	17.6 R	422
(3840)	1997 08 13.78907	02 09 15.80	+10 14 07.5	17.3 R	422
(5324)	1997 08 30.44015	14 26 22.69	-36 35 44.1	18.6 R	422
(6465)	1997 08 25.59035	00 26 23.76	-00 56 42.6	17.5 R	422
(6465)	1997 08 25.59154	00 26 23.73	-00 56 42.6	17.4 R	422

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

GSC

1984 UX ₂	1997 09 06.58442	00 28 33.66	-05 26 22.1	16.0 V	423
1984 UX ₂	1997 09 06.62855	00 28 31.35	-05 26 20.0	15.6 V	423
1984 UX ₂	1997 09 07.56914	00 27 43.55	-05 25 25.3	15.9 V	423
1984 UX ₂	1997 09 07.58513	00 27 42.66	-05 25 24.4	15.7 V	423
1988 EC	1997 08 02.61065	22 41 54.10	-24 12 18.4	16.0 V	423
1988 EC	1997 08 02.63955	22 41 51.79	-24 12 08.9	15.8 V	423
1988 EC	1997 08 02.65909	22 41 50.18	-24 12 02.1	15.9 V	423
1988 EC	1997 08 02.66652	22 41 49.60	-24 11 59.4	16.0 V	423
1988 EC	1997 08 05.58300	22 37 54.42	-23 54 06.9	16.2 V	423
1988 EC	1997 08 05.60116	22 37 52.79	-23 54 00.5	16.1 V	423
1988 EC	1997 08 05.60640	22 37 52.36	-23 53 58.1	16.2 V	423
1988 EC	1997 08 05.64387	22 37 49.07	-23 53 44.1	15.5 V	423
1988 EC	1997 08 05.64913	22 37 48.59	-23 53 41.9	16.1 V	423
1988 EC	1997 08 05.65946	22 37 47.66	-23 53 38.0	16.0 V	423
1988 EC	1997 08 23.57863	22 08 05.81	-21 19 00.5	15.8 V	423
1988 EC	1997 08 23.59022	22 08 04.53	-21 18 52.8	15.8 V	423
1988 EC	1997 08 23.61875	22 08 01.35	-21 18 33.5	15.9 V	423
1988 EC	1997 08 24.50611	22 06 27.46	-21 08 41.6	15.9 V	423
1988 EC	1997 08 24.54551	22 06 23.12	-21 08 15.7	15.8 V	423
1988 EC	1997 08 24.56580	22 06 20.87	-21 08 01.8	15.9 V	423
1988 EC	1997 08 24.58381	22 06 18.90	-21 07 49.8	15.9 V	423
1988 VB	1997 08 25.56201	23 20 57.11	-20 19 06.9	17.1 V	423
1988 VB	1997 08 25.58343	23 20 56.09	-20 19 12.9	16.6 V	423
1988 VB	1997 08 25.60233	23 20 55.19	-20 19 17.7	16.5 V	423
1988 VB	1997 08 25.63350	23 20 53.65	-20 19 25.6	16.2 V	423
1988 VB	1997 08 25.64539	23 20 53.04	-20 19 28.6	16.4 V	423

1988 VB	1997 08 26.54148	23 20 11.87	-20 23 15.1	16.0 V	423
1988 VB	1997 08 26.56163	23 20 10.84	-20 23 20.2	15.9 V	423
1988 VB	1997 08 26.58197	23 20 09.85	-20 23 25.3	16.4 V	423
1988 VB	1997 08 26.60171	23 20 08.91	-20 23 30.6	16.4 V	423
1990 TX	1997 08 27.49206	22 23 09.64	-20 32 14.9	16.4 V	423
1990 TX	1997 08 27.54139	22 23 06.97	-20 32 33.0	16.1 V	423
1990 TX	1997 08 27.54816	22 23 06.65	-20 32 35.9	16.2 V	423
1990 TX	1997 08 27.59706	22 23 03.96	-20 32 53.2	16.2 V	423
1990 TX	1997 08 27.60803	22 23 03.37	-20 32 57.4	16.1 V	423
1990 TX	1997 08 28.54843	22 22 16.50	-20 38 29.7	16.0 V	423
1990 TX	1997 08 28.59869	22 22 13.77	-20 38 47.3	15.9 V	423
1990 TX	1997 08 28.61836	22 22 12.69	-20 38 54.0	15.9 V	423
1990 TX	1997 08 28.62374	22 22 12.44	-20 38 55.2	15.9 V	423
1994 SB	1997 08 16.58366	22 01 00.93	-06 28 27.7	16.3 V	423
1994 SB	1997 08 16.60896	22 00 59.25	-06 28 32.1	15.8 V	423
1994 SB	1997 08 16.62666	22 00 58.07	-06 28 35.2	16.5 V	423
(2693)	1997 08 16.65907	00 29 06.93	-10 47 28.3	16.6 V	423
(2693)	1997 08 16.67936	00 29 06.82	-10 47 33.9	16.5 V	423
(2693)	1997 08 16.70359	00 29 06.70	-10 47 40.3	15.8 V	423
(2693)	1997 08 16.72035	00 29 06.56	-10 47 44.4	16.0 V	423
(2938)	1997 08 09.71086	01 25 42.64	-48 10 36.6	15.6 V	423
(2938)	1997 08 09.72094	01 25 43.40	-48 10 50.1	15.4 V	423
(2938)	1997 08 09.73226	01 25 44.23	-48 11 05.3	15.5 V	423
(2938)	1997 08 09.75578	01 25 45.96	-48 11 36.6	15.3 V	423
(2938)	1997 08 23.66035	01 40 50.91	-53 10 39.2	15.5 V	423
(2938)	1997 08 23.69128	01 40 52.35	-53 11 17.8	15.6 V	423
(2938)	1997 08 23.71235	01 40 53.35	-53 11 43.0	15.6 V	423
(3921)	1997 08 15.56387	22 49 15.20	-05 53 16.8	15.4 V	423
(3921)	1997 08 15.60781	22 49 14.10	-05 53 49.3	15.3 V	423
(3921)	1997 08 15.64817	22 49 13.06	-05 54 18.8	15.1 V	423

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

GSC

1990 TV ₁₃	1997 08 22.50871	23 26 49.86	-16 55 01.4	16.7 R	426
1990 TV ₁₃	1997 08 22.52257	23 26 49.17	-16 55 03.8	16.7 R	426
1990 TV ₁₃	1997 08 22.53611	23 26 48.46	-16 55 07.0	16.6 R	426
1990 TV ₁₃	1997 09 05.54132	23 13 29.49	-17 31 36.2	16.4 R	426
1990 TV ₁₃	1997 09 05.57016	23 13 27.57	-17 31 38.9	16.5 R	426
1997 OG ₁	1997 08 08.46068	19 45 32.85	-17 27 05.8	18.6 R	426
1997 OG ₁	1997 08 08.47179	19 45 32.10	-17 26 58.0	18.8 R	426
1997 OG ₁	1997 08 14.66898	19 39 36.17	-16 16 14.2	18.2 R	426
1997 OG ₁	1997 08 14.68557	19 39 35.28	-16 16 03.3	18.4 R	426
1997 OG ₁	1997 09 02.46772	19 31 11.95	-13 18 33.1	19.2 R	F 426
1997 OG ₁	1997 09 02.49024	19 31 11.74	-13 18 21.8	18.9 R	F 426
1997 OG ₁	1997 09 03.42919	19 31 08.72	-13 10 52.0	19.7 R	F 426
1997 OG ₁	1997 09 03.45034	19 31 08.67	-13 10 43.7	20.1 R	F 426
1997 OG ₁	1997 09 03.46611	19 31 08.50	-13 10 36.8	19.7 R	F 426
1997 PQ	1997 07 27.42747	19 57 49.08	-19 59 12.8	18.4 R	426
1997 PQ	1997 07 27.44501	19 57 47.92	-19 59 18.3	18.2 R	426
1997 PQ	1997 08 08.46464	19 46 02.10	-21 00 16.2	17.9 R	426

1997 PQ	1997 08 08.47519	19 46 01.42	-21 00 19.1	18.4 R	426
1997 PQ	1997 08 14.67725	19 41 02.51	-21 27 19.0	17.9 R	426
1997 PQ	1997 08 14.69388	19 41 01.63	-21 27 22.8	18.9 R	426
1997 PQ	1997 09 02.47756	19 32 55.08	-22 25 42.4	19.0 R	426
1997 PQ	1997 09 02.50481	19 32 54.82	-22 25 44.9	18.9 R	426
1997 PQ	1997 09 03.44161	19 32 49.10	-22 27 43.1	18.9 R	426
1997 PQ	1997 09 03.46008	19 32 48.91	-22 27 44.8	18.7 R	426
1997 PQ	1997 09 03.47565	19 32 48.86	-22 27 47.0	19.0 R	426
1997 PR	1997 08 08.49675	22 28 39.08	-07 42 47.7	16.6 R	426
1997 PR	1997 08 08.51299	22 28 38.17	-07 42 45.0	16.4 R	426
1997 PR	1997 08 14.47289	22 22 56.92	-07 28 06.4	16.8 R	426
1997 PR	1997 08 14.48786	22 22 55.99	-07 28 04.4	16.9 R	426
1997 PR	1997 08 14.50187	22 22 55.12	-07 28 02.7	17.0 R	426
1997 PR	1997 08 15.46985	22 21 56.63	-07 26 01.5	17.1 R	426
1997 PR	1997 08 15.48591	22 21 55.64	-07 25 58.9	17.1 R	426
1997 PR	1997 08 15.50035	22 21 54.72	-07 25 57.0	16.8 R	426
1997 PR	1997 08 22.45052	22 14 40.78	-07 13 42.0	16.9 R	426
1997 PR	1997 08 22.46488	22 14 39.86	-07 13 40.6	16.9 R	426
1997 PR	1997 08 22.47848	22 14 38.95	-07 13 39.5	16.8 R	426
1997 PR	1997 09 03.49130	22 02 28.87	-06 59 05.6	17.1 R	426
1997 PR	1997 09 03.52054	22 02 27.17	-06 59 03.9	17.0 R	426
1997 PR	1997 09 03.54759	22 02 25.57	-06 59 02.2	17.1 R	426
1997 QP ₄	* 1997 08 22.45819	22 11 22.02	-06 53 49.4	18.4 R	426
1997 QP ₄	1997 08 22.47164	22 11 21.11	-06 53 50.9	18.4 R	426
1997 QP ₄	1997 08 22.48675	22 11 20.05	-06 53 52.1	18.3 R	426
1997 QP ₄	1997 09 03.49541	21 58 48.51	-07 21 14.1	18.3 R	426
1997 QP ₄	1997 09 03.52491	21 58 46.64	-07 21 18.3	18.4 R	426
1997 QP ₄	1997 09 03.55124	21 58 45.03	-07 21 21.3	18.3 R	426
1997 QP ₄	1997 09 05.44361	21 56 54.85	-07 25 43.6	18.2 R	426
1997 QP ₄	1997 09 05.46922	21 56 53.26	-07 25 48.1	17.8 R	426
1997 RX ₂	* 1997 09 03.50006	21 59 34.91	-07 33 48.8	18.2 R	426
1997 RX ₂	1997 09 03.52856	21 59 33.19	-07 33 52.1	18.5 R	426
1997 RX ₂	1997 09 05.45124	21 57 47.58	-07 36 06.2	18.2 R	426
1997 RX ₂	1997 09 05.47624	21 57 46.19	-07 36 09.0	18.5 R	426
1997 RX ₂	1997 09 05.50903	21 57 44.29	-07 36 10.6	18.1 R	426
1997 RY ₂	* 1997 09 03.50006	22 00 56.70	-07 46 29.3	18.4 R	426
1997 RY ₂	1997 09 03.52856	22 00 55.43	-07 46 39.2	18.6 R	426
1997 RY ₂	1997 09 03.55894	22 00 54.03	-07 46 49.2	18.3 R	426
1997 RY ₂	1997 09 05.46084	21 59 31.97	-07 57 29.2	18.6 R	426
1997 RY ₂	1997 09 05.51250	21 59 29.70	-07 57 47.3	18.4 R	426
(2170)	1997 08 22.46153	22 10 12.93	-07 03 57.3	16.8 R	426
(2170)	1997 08 22.47502	22 10 12.19	-07 04 01.0	16.5 R	426
(2170)	1997 08 22.49161	22 10 11.27	-07 04 05.2	16.3 R	426
(2170)	1997 09 03.51003	21 59 44.58	-07 58 47.3	16.6 R	426
(2170)	1997 09 03.53804	21 59 43.12	-07 58 55.2	16.7 R	426
(2170)	1997 09 03.56259	21 59 41.85	-07 59 01.8	17.0 R	426
(2693)	1997 08 14.56064	00 29 09.90	-10 38 32.4	16.5 R	426
(2693)	1997 08 14.57468	00 29 09.90	-10 38 36.0	16.6 R	426
(2693)	1997 08 14.58869	00 29 09.88	-10 38 39.2	16.5 R	426
(2693)	1997 08 15.55608	00 29 09.83	-10 42 41.6	16.6 R	426
(2693)	1997 08 15.57116	00 29 09.79	-10 42 45.6	16.4 R	426
(2693)	1997 08 15.58524	00 29 09.75	-10 42 49.2	16.4 R	426

(3048)	1997 08 14.48406	22 21 34.27	-07 14 52.1	17.5 R	426
(3048)	1997 08 14.49836	22 21 33.49	-07 14 56.6	17.4 R	426
(3048)	1997 08 15.48980	22 20 42.03	-07 19 54.9	18.3 R	426
(3048)	1997 08 15.50407	22 20 41.28	-07 19 57.6	17.7 R	426
(3820)	1997 08 14.47696	22 22 08.99	-07 39 55.3	17.1 R	426
(3820)	1997 08 14.49138	22 22 08.33	-07 39 56.4	16.8 R	426
(3820)	1997 08 14.50544	22 22 07.59	-07 39 57.0	16.8 R	426
(3820)	1997 08 15.47865	22 21 19.73	-07 40 56.6	16.6 R	426
(3820)	1997 08 15.49343	22 21 18.97	-07 40 58.0	16.7 R	426
(3820)	1997 08 15.50752	22 21 18.28	-07 40 58.7	16.9 R	426
(4684)	1997 09 02.47207	19 32 20.57	-13 15 25.8	17.5 R	426
(4684)	1997 09 02.50014	19 32 20.65	-13 15 31.8	17.6 R	426
(4684)	1997 09 02.52264	19 32 20.71	-13 15 36.1	17.6 R	426
(4684)	1997 09 03.43376	19 32 26.46	-13 18 26.8	17.6 R	426
(4684)	1997 09 03.45466	19 32 26.55	-13 18 30.8	17.7 R	426
(4684)	1997 09 03.47054	19 32 26.63	-13 18 33.7	17.5 R	426
(6038)	1997 08 22.45479	22 11 52.78	-07 16 21.8	17.8 R	426
(6038)	1997 08 22.46833	22 11 52.07	-07 16 23.3	17.6 R	426
(6038)	1997 08 22.48337	22 11 51.34	-07 16 25.6	17.5 R	426
(6038)	1997 09 03.50567	22 01 54.14	-07 45 01.6	17.5 R	426
(6038)	1997 09 03.53407	22 01 52.73	-07 45 05.4	17.5 R	426
(6038)	1997 09 03.55894	22 01 51.50	-07 45 09.4	17.5 R	426
(7029)	1997 08 22.45052	22 14 50.43	-07 23 27.1	17.0 R	426
(7029)	1997 08 22.46488	22 14 49.84	-07 23 33.0	17.1 R	426
(7029)	1997 08 22.47848	22 14 49.28	-07 23 39.0	17.2 R	426
(7029)	1997 09 03.51413	22 06 49.57	-08 45 58.4	17.5 R	426
(7029)	1997 09 03.54222	22 06 48.45	-08 46 09.4	17.6 R	426
(7029)	1997 09 03.56604	22 06 47.49	-08 46 19.4	17.5 R	426
(7054)	1997 08 22.50871	23 27 12.04	-16 47 35.3	17.7 R	426
(7054)	1997 08 22.52257	23 27 11.36	-16 47 41.4	17.9 R	426
(7054)	1997 08 22.53611	23 27 10.66	-16 47 47.2	17.7 R	426
(7054)	1997 09 03.57541	23 16 05.57	-18 03 53.8	17.3 R	426
(7054)	1997 09 03.58693	23 16 04.84	-18 03 57.6	17.2 R	426
(7054)	1997 09 05.53793	23 14 05.98	-18 14 50.1	17.4 R	426
(7054)	1997 09 05.56664	23 14 04.16	-18 14 59.1	17.2 R	426
(7811)	1997 08 22.50036	23 30 14.28	-17 10 30.0	18.2 R	426
(7811)	1997 08 22.51553	23 30 13.68	-17 10 38.6	18.0 R	426
(7811)	1997 08 22.52926	23 30 13.12	-17 10 46.1	18.1 R	426
(7811)	1997 09 03.58289	23 21 30.22	-18 57 05.4	17.8 R	426
(7811)	1997 09 05.55119	23 19 57.21	-19 13 22.1	17.9 R	426
(7811)	1997 09 05.59141	23 19 55.23	-19 13 41.5	17.9 R	426

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Measurer F. Verlezza

0.31-m f/2.8 Baker-Schmidt + CCD

GSC

1997 RT	1997 09 02.92605	00 44 12.00	+28 32 35.5	15.8 R	473
1997 RT	1997 09 02.93271	00 44 13.72	+28 33 04.8	15.9 R	473
1997 RT	1997 09 02.94726	00 44 17.01	+28 34 05.8	16.0 R	473
1997 RT	1997 09 02.95490	00 44 18.60	+28 34 36.5	16.0 R	473

1997 RT	1997 09 02.95877	00 44 19.53	+28 34 54.6	15.9 R	473
1997 RD ₁	1997 09 08.83155	21 35 41.25	-06 17 55.2		473
1997 RD ₁	1997 09 08.84131	21 35 41.49	-06 18 08.1		473
1997 RD ₁	1997 09 08.85087	21 35 41.69	-06 18 20.6	17.1 R	473
1997 RD ₁	1997 09 08.86308	21 35 41.85	-06 18 38.3	17.0 R	473
1997 RD ₁	1997 09 08.86786	21 35 42.02	-06 18 43.8		473
1997 RD ₁	1997 09 08.87314	21 35 42.05	-06 18 49.7	17.1 R	473

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0.40-m $f/5$ astrograph + CCD

GSC

(421)	1997 08 12.98567	21 40 00.35	-03 14 52.2	14.6 R	491
(421)	1997 08 13.02660	21 39 58.20	-03 15 08.4	14.7 R	491
(430)	1997 08 13.01969	22 00 42.88	+11 29 22.1	14.4 R	491
(430)	1997 08 13.05471	22 00 41.12	+11 29 21.5	14.8 R	491
(1094)	1997 08 12.90066	22 26 33.55	-09 49 40.3		491
(1094)	1997 08 12.92899	22 26 32.17	-09 49 56.2		491
(1306)	1997 08 13.00986	22 00 10.77	+07 11 23.5	14.2 R	491
(1306)	1997 08 13.04668	22 00 08.97	+07 11 23.5	14.2 R	491
(1506)	1997 08 13.00007	21 46 12.01	+12 17 49.8	14.6 R	491
(1506)	1997 08 13.03956	21 46 10.03	+12 17 42.0	14.3 R	491

494 Stakenbridge

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DY10 3LS, England [bgwm@star.sr.bham.ac.uk]

0.26-m $f/7.3$ reflector + CCD

PPM

1991 VP ₂	1997 09 01.91708	22 27 17.64	-10 18 05.9	18.5 R	494
1991 VP ₂	1997 09 01.92486	22 27 17.14	-10 18 08.5		494
1991 VP ₂	1997 09 04.90528	22 24 16.19	-10 35 31.5		494
1991 VP ₂	1997 09 07.87821	22 21 19.74	-10 52 17.4		494
1991 VP ₂	1997 09 07.88706	22 21 19.09	-10 52 19.7		494

540 Linz

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Observers E. Meyer, E. Obermair, H. Raab

0.30-m $f/5.2$ Schmidt Cassegrain + CCD

GSC, Tycho

1978 QC ₃	1997 08 30.81572	20 58 54.91	-19 26 02.2	16.8 R	540
1978 QC ₃	1997 08 30.81948	20 58 54.71	-19 26 04.2		540
1978 QC ₃	1997 08 30.82340	20 58 54.60	-19 26 05.6		540
1978 QC ₃	1997 08 31.85420	20 58 15.26	-19 32 24.4	16.7 R	540
1978 QC ₃	1997 08 31.85786	20 58 15.13	-19 32 25.8		540
1978 QC ₃	1997 08 31.86155	20 58 14.99	-19 32 26.9		540
1981 EK ₂₅	1997 08 10.90568	21 27 48.56	-14 16 00.6	16.8 R	540
1981 EK ₂₅	1997 08 10.90881	21 27 48.39	-14 16 01.1		540
1981 EK ₂₅	1997 08 10.91284	21 27 48.14	-14 16 01.8		540
1981 EK ₂₅	1997 08 10.91986	21 27 47.75	-14 16 02.8		540
1981 EK ₂₅	1997 08 10.92466	21 27 47.48	-14 16 04.0		540

1981 EK ₂₅	1997 08 11.86396	21 26 56.29	-14 18 43.1	16.7 R	540
1981 EK ₂₅	1997 08 11.86870	21 26 56.02	-14 18 43.7		540
1981 EK ₂₅	1997 08 11.87319	21 26 55.78	-14 18 44.5		540
1981 EK ₂₅	1997 08 12.87462	21 26 01.15	-14 21 33.4	16.9 R	540
1981 EK ₂₅	1997 08 12.88170	21 26 00.72	-14 21 35.1		540
1981 EK ₂₅	1997 08 12.88991	21 26 00.27	-14 21 36.4		540
1982 FG ₃	1997 09 01.82072	22 47 04.95	-05 36 01.6	17.0 R	540
1982 FG ₃	1997 09 01.82443	22 47 04.68	-05 36 02.7		540
1982 FG ₃	1997 09 01.82821	22 47 04.44	-05 36 04.0		540
1982 FG ₃	1997 09 02.85084	22 46 03.73	-05 41 13.3	16.7 R	540
1982 FG ₃	1997 09 02.85470	22 46 03.51	-05 41 14.4		540
1987 SK ₁₂	1997 09 01.84310	23 14 32.45	-07 42 18.0	17.6 R	540
1987 SK ₁₂	1997 09 01.84838	23 14 32.13	-07 42 19.6		540
1987 SK ₁₂	1997 09 01.85380	23 14 31.79	-07 42 22.3		540
1987 SK ₁₂	1997 09 08.84683	23 07 42.77	-08 25 48.7	17.4 R	540
1987 SK ₁₂	1997 09 08.85063	23 07 42.47	-08 25 50.7		540
1987 SK ₁₂	1997 09 08.85422	23 07 42.33	-08 25 51.7		540
1993 VX	1997 08 30.87817	23 43 25.26	-14 56 02.5	16.9 R	540
1993 VX	1997 08 30.88177	23 43 25.24	-14 56 04.5		540
1993 VX	1997 08 30.88540	23 43 25.06	-14 56 06.0		540
1993 VX	1997 08 31.87973	23 42 42.48	-15 02 55.5	17.0 R	540
1993 VX	1997 08 31.88348	23 42 42.38	-15 02 57.0		540
1993 VX	1997 08 31.88734	23 42 42.22	-15 02 57.9		540
1997 NZ	1997 08 10.86825	18 53 14.41	-17 56 29.2	16.0 R	I 540
1997 NZ	1997 08 10.89513	18 53 13.77	-17 56 22.1		540
1997 NZ	1997 08 10.89803	18 53 13.74	-17 56 20.5		540
1997 NZ	1997 08 11.85433	18 52 52.85	-17 51 46.9	16.0 R	540
1997 NZ	1997 08 11.85549	18 52 52.82	-17 51 47.1		540
1997 NZ	1997 08 11.88488	18 52 52.13	-17 51 37.9		540
1997 PO	1997 08 10.88144	20 12 19.75	-14 31 38.4	18.0 R	540
1997 PO	1997 08 10.88587	20 12 19.70	-14 31 47.3		540
1997 PG ₃	* 1997 08 10.90881	21 27 42.34	-14 14 34.0	17.7 R	540
1997 PG ₃	1997 08 10.91284	21 27 42.17	-14 14 35.1		540
1997 PG ₃	1997 08 10.91986	21 27 41.84	-14 14 35.9		540
1997 PG ₃	1997 08 10.92466	21 27 41.63	-14 14 37.9		540
1997 PG ₃	1997 08 11.86396	21 26 59.59	-14 18 58.8	18.0 R	540
1997 PG ₃	1997 08 11.86870	21 26 59.47	-14 18 56.9		540
1997 PG ₃	1997 08 11.87319	21 26 59.18	-14 18 58.3		540
1997 PG ₃	1997 08 12.87462	21 26 14.25	-14 23 33.9	18.1 R	540
1997 PG ₃	1997 08 12.88170	21 26 13.90	-14 23 36.2		540
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1997 PG ₃	1997 08 25.94615	21 16 47.46	-15 21 21.0	18.1 R	540
1997 PG ₃	1997 08 25.95260	21 16 47.22	-15 21 22.2		540
1997 PG ₃	1997 08 25.95914	21 16 46.91	-15 21 23.8		540
1997 PG ₃	1997 08 30.89799	21 13 36.40	-15 41 01.0	18.3 R	540
1997 PG ₃	1997 08 30.90657	21 13 36.10	-15 41 04.3		540
1997 PA ₄	1997 08 12.84823	20 31 24.45	-17 21 39.6	17.7 R	540
1997 PA ₄	1997 08 12.85340	20 31 24.10	-17 21 39.5		540
1997 PA ₄	1997 08 12.85865	20 31 23.80	-17 21 38.2		540
1997 RT	1997 09 08.81494	01 04 26.58	+33 40 03.5	16.6 R	540
1997 RT	1997 09 08.81712	01 04 26.97	+33 40 09.3		540
1997 RT	1997 09 08.81928	01 04 27.30	+33 40 14.5		540

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1997 RD ₁	1997 09 08.83205	21 35 41.28	-06 17 55.9		540
1997 RD ₁	1997 09 08.83572	21 35 41.33	-06 18 00.8		540

552 San Vittore

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

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

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GSC

1988 QU	1997 09 08.96247	00 33 20.67	-09 02 31.9	16.6 V	552
1988 QU	1997 09 08.97399	00 33 20.26	-09 02 39.7		552
1988 QU	1997 09 08.98472	00 33 19.88	-09 02 46.8		552
1990 VD ₄	1997 09 04.88742	21 58 09.83	-11 21 47.3	17.5 V	552
1990 VD ₄	1997 09 04.89153	21 58 09.60	-11 21 49.0		552
1990 VD ₄	1997 09 04.90898	21 58 08.72	-11 21 55.1		552
1990 VD ₄	1997 09 04.91420	21 58 08.45	-11 21 56.4		552
1990 VD ₄	1997 09 05.88985	21 57 20.68	-11 27 32.9	18.0 V	552
1990 VD ₄	1997 09 05.89998	21 57 20.09	-11 27 36.7		552
1990 VD ₄	1997 09 05.91083	21 57 19.61	-11 27 39.5		552
1990 VD ₄	1997 09 05.92200	21 57 18.96	-11 27 42.8		552
1990 VD ₄	1997 09 08.91208	21 54 58.31	-11 44 17.3	17.6 V	552
1990 VD ₄	1997 09 08.93927	21 54 57.00	-11 44 26.4		552
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1996 HH ₁	1997 08 29.82160	20 53 12.48	-18 52 05.7		552
1996 HH ₁	1997 08 29.84801	20 53 11.67	-18 52 14.8	19.0 V	552
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1996 HH ₁	1997 08 30.83779	20 52 26.96	-18 56 57.6	18.7 V	552
1996 HH ₁	1997 08 30.84678	20 52 26.44	-18 56 59.5		552
1996 HH ₁	1997 08 30.85522	20 52 26.11	-18 57 04.7		552
1996 HH ₁	1997 08 30.87211	20 52 25.26	-18 57 08.6		552
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1996 HH ₁	1997 08 31.83001	20 51 43.83	-19 01 37.1		552
1996 HH ₁	1997 09 04.87512	20 49 05.54	-19 18 53.3	19.0 V	552
1997 NY ₆	1997 08 30.84678	20 52 28.38	-18 50 33.5	18.9 V	552
1997 NY ₆	1997 08 30.85522	20 52 28.02	-18 50 36.2		552
1997 NY ₆	1997 08 30.87211	20 52 27.33	-18 50 43.0		552
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1997 QP ₁	1997 08 29.82160	20 53 08.32	-18 52 53.7		552
1997 QP ₁	1997 08 29.84801	20 53 07.59	-18 53 01.3	18.5 V	552
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1997 QP ₁	1997 09 04.86376	20 50 59.02	-19 11 55.3		552
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1997 QR ₁	1997 08 31.83321	20 52 18.24	-19 00 01.5		552
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1997 QS ₁	1997 08 29.91807	22 02 35.50	-11 04 32.1		552
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1997 QS ₁	1997 08 31.84796	22 01 07.46	-11 12 36.2	17.5 V	552
1997 QS ₁	1997 08 31.85325	22 01 07.22	-11 12 37.1		552
1997 QS ₁	1997 08 31.87828	22 01 06.05	-11 12 43.8		552
1997 QS ₁	1997 08 31.88375	22 01 05.79	-11 12 44.9		552
1997 QS ₁	1997 09 04.88742	21 58 09.06	-11 28 57.4	17.6 V	552
1997 QS ₁	1997 09 04.89153	21 58 08.91	-11 28 57.5		552
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1997 QS ₁	1997 09 04.91420	21 58 07.90	-11 29 02.6		552
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1997 QS ₁	1997 09 08.91208	21 55 22.84	-11 44 12.1	17.6 V	552
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1997 QT ₁	1997 08 31.85325	22 01 09.27	-11 06 22.7		552
1997 QT ₁	1997 08 31.87828	22 01 07.78	-11 06 30.4		552
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1997 QT ₁	1997 09 04.90898	21 57 36.23	-11 26 03.5		552
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1997 QT ₁	1997 09 05.91083	21 56 45.59	-11 30 47.2		552
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1997 QV ₁	1997 08 31.90207	22 03 19.28	-11 02 06.7		552

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1997 RM ₃	1997 09 04.89153	21 57 55.10	-11 20 47.2		552	1986 RD ₅	1997 09 02.03065	00 31 52.42	+04 25 51.8		557
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1997 RM ₃	1997 09 04.91420	21 57 54.18	-11 20 53.7		552	1986 RD ₅	1997 09 02.95554	00 31 22.52	+04 24 13.8	16.8 V	557
1997 RM ₃	1997 09 05.88985	21 57 20.22	-11 26 37.7	18.9 V	552	1986 RD ₅	1997 09 02.96560	00 31 22.17	+04 24 12.5		557
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1997 RM ₃	1997 09 05.92200	21 57 19.00	-11 26 49.5		552	1986 RD ₅	1997 09 03.94918	00 30 49.23	+04 22 20.7		W 557
1997 RM ₃	1997 09 08.91208	21 55 40.13	-11 43 46.5	19.0 V	552	1986 RD ₅	1997 09 03.95383	00 30 49.01	+04 22 20.4	16.9 V	W 557
1997 RM ₃	1997 09 08.93927	21 55 39.27	-11 43 56.1		552	1986 RD ₅	1997 09 04.10521	00 30 43.63	+04 22 02.6	16.7 V	557
1997 RN ₃	* 1997 09 04.89153	21 58 23.14	-11 23 58.6	19.0 V	552	1986 RD ₅	1997 09 04.12131	00 30 43.06	+04 22 00.8		557
1997 RN ₃	1997 09 04.91420	21 58 22.01	-11 24 05.3		552	1988 EB ₁	1997 08 13.02848	00 51 29.08	+01 34 06.0	19.4 V	557
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1997 RN ₃	1997 09 08.91208	21 55 10.39	-11 44 55.3	19.0 V	552	1989 CL ₁	1997 08 31.00748	23 51 33.71	-04 03 36.5	18.5 V	557
1997 RN ₃	1997 09 08.93927	21 55 09.01	-11 45 05.0		552	1989 CL ₁	1997 08 31.10194	23 51 30.09	-04 04 01.5		557
(7462)	1997 09 04.83237	20 51 31.45	-19 13 04.5	17.2 V	552	1989 CL ₁	1997 09 02.06926	23 50 14.37	-04 12 41.3	18.1 V	557
(7462)	1997 09 04.86376	20 51 30.07	-19 13 05.4		552	1989 CL ₁	1997 09 02.08488	23 50 13.86	-04 12 45.1		557
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557 Ondřejov						1990 TW ₇	1997 08 14.01149	23 53 23.46	-10 16 46.3		557
P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov,						1990 TW ₇	1997 08 14.05229	23 53 22.50	-10 16 54.7	19.0 V	557
Czech Republic [ppravec@asu.cas.cz]						1990 VK ₅	1997 09 02.93447	23 55 12.09	-08 48 35.0	17.1 V	557
Observers P. Pravec, L. Šarounová, M. Wolf, D. Tuma						1990 VK ₅	1997 09 02.96161	23 55 10.86	-08 48 50.1		557
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GSC, USNO-SA1.0						1990 VK ₅	1997 09 04.05806	23 54 21.95	-08 58 59.2		557
1977 EM ₅	1997 09 02.84469	20 41 42.73	-08 31 10.2	17.5 V	557	1991 BE	1997 08 30.80875	22 27 02.79	+24 19 56.1	17.6 V	557
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1977 EM ₅	1997 09 08.85142	20 38 58.99	-09 24 42.5		557	1991 BE	1997 09 02.11501	22 24 36.59	+24 19 05.3		557
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1978 RR ₈	1997 09 02.99866	22 23 25.90	-07 35 41.6		557	1991 EB	1997 09 11.99795	22 05 58.58	-07 07 10.3		557
1978 RR ₈	1997 09 03.00427	22 23 25.62	-07 35 44.3		557	1991 EB	1997 09 11.99970	22 05 58.48	-07 07 10.6		557
1981 EG ₁₅	1997 08 30.88463	22 17 34.89	-06 16 22.8	17.4 V	557	1991 GZ ₉	1997 08 13.93176	21 37 16.84	-06 55 01.5	18.8 V	557
1981 EG ₁₅	1997 08 30.89270	22 17 34.40	-06 16 25.9		557	1991 GZ ₉	1997 08 13.93494	21 37 16.68	-06 55 02.2		557
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1981 EG ₁₅	1997 09 01.99977	22 15 32.79	-06 28 34.4		557	1991 PO ₂	1997 08 13.99028	23 06 02.75	-09 04 19.7	18.7 V	557
1981 EV ₂₂	1997 09 02.93027	00 36 57.77	+03 04 54.1	17.4 V	557	1991 PO ₂	1997 08 14.00259	23 06 02.30	-09 04 23.2		557
1981 EV ₂₂	1997 09 02.95749	00 36 57.12	+03 04 46.6		557	1991 PO ₂	1997 08 14.03483	23 06 01.16	-09 04 30.7		S 557
1981 EV ₂₂	1997 09 04.01697	00 36 32.35	+02 59 47.7	17.4 V	557	1991 PO ₂	1997 08 14.04759	23 06 00.66	-09 04 33.9		S 557
1981 EV ₂₂	1997 09 04.07067	00 36 30.95	+02 59 32.4		557	1991 PO ₂	1997 08 16.03431	23 04 50.83	-09 13 02.1		557
1981 YG	1997 08 30.86764	00 41 18.85	+27 20 33.2		557	1991 PO ₂	1997 08 16.03875	23 04 50.74	-09 13 03.7		557
1981 YG	1997 08 30.87612	00 41 18.56	+27 20 35.2	18.1 V	557	1991 PO ₂	1997 08 16.04323	23 04 50.50	-09 13 04.8		557
1981 YG	1997 09 02.11307	00 40 06.18	+27 27 30.4	17.8 V	557	1991 PO ₂	1997 08 16.04544	23 04 50.41	-09 13 05.3		557
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1981 YG	1997 09 02.12744	00 40 05.66	+27 27 32.5		557	1991 PQ ₁₂	1997 08 28.00569	00 47 24.20	+04 51 49.2		557
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1992 FY ₁	1997 09 02.06529	00 35 33.89	-08 57 33.4	17.2 V	557	1996 HM ₁₁	1997 09 12.96753	23 04 18.94	-03 12 22.2		557
1992 FY ₁	1997 09 02.08091	00 35 33.20	-08 57 37.8		557	1996 LJ ₁	1997 09 13.02591	01 54 54.43	+19 12 40.3	18.8 V	557
1992 HY	1997 08 26.06243	00 09 44.30	+01 23 03.7		557	1996 LJ ₁	1997 09 13.02823	01 54 54.40	+19 12 39.6		557
1992 HY	1997 08 26.06481	00 09 44.22	+01 23 03.2		557	1996 LJ ₁	1997 09 13.03928	01 54 54.16	+19 12 36.5		557
1992 HY	1997 08 26.07044	00 09 43.99	+01 23 01.7		557	1996 LJ ₁	1997 09 15.06704	01 54 08.82	+19 03 53.2		557
1992 HY	1997 08 27.01045	00 09 11.01	+01 19 19.1		557	1996 LJ ₁	1997 09 15.08513	01 54 08.36	+19 03 48.4		557
1992 HY	1997 08 27.03315	00 09 10.17	+01 19 13.7		557	1996 LJ ₁	1997 09 15.09295	01 54 08.16	+19 03 46.1		557
1992 HY	1997 08 27.03562	00 09 10.08	+01 19 13.2	17.6 V	557	1996 LJ ₁	1997 09 15.10400	01 54 07.90	+19 03 43.1		557
1992 OV ₆	1997 08 27.91031	22 30 47.39	-07 38 54.0		557	1997 LD	1997 09 02.92828	00 30 58.11	+04 23 42.1	15.8 V	557
1992 OV ₆	1997 08 27.93887	22 30 46.02	-07 39 02.6		557	1997 LD	1997 09 02.95554	00 30 57.59	+04 23 31.2		557
1992 OV ₆	1997 08 27.96473	22 30 44.77	-07 39 10.3	17.5 V	557	1997 LD	1997 09 02.96560	00 30 57.40	+04 23 27.3		557
1992 OV ₆	1997 08 30.98738	22 28 22.36	-07 54 15.3	17.3 V	557	1997 LD	1997 09 03.94453	00 30 40.11	+04 16 44.7		557
1992 OV ₆	1997 08 31.00544	22 28 21.47	-07 54 20.8		557	1997 LD	1997 09 03.94685	00 30 40.05	+04 16 43.5		557
1992 RC ₇	1997 09 02.93649	23 40 54.40	-04 57 25.5	16.9 V	557	1997 LD	1997 09 03.94918	00 30 40.00	+04 16 42.8		557
1992 RC ₇	1997 09 02.96352	23 40 53.26	-04 57 34.9		557	1997 LD	1997 09 03.95383	00 30 39.89	+04 16 40.8	15.7 V	557
1992 RC ₇	1997 09 04.01383	23 40 09.89	-05 03 36.5	17.3 V	557	1997 LD	1997 09 06.03686	00 29 57.05	+04 01 36.2	15.7 V	557
1992 RC ₇	1997 09 04.06723	23 40 07.60	-05 03 54.9		I 557	1997 LD	1997 09 06.07573	00 29 56.07	+04 01 18.7		557
1992 RC ₇	1997 09 04.08025	23 40 07.03	-05 03 59.5		557	1997 LD	1997 09 08.92271	00 28 46.29	+03 38 59.7	15.3 V	557
1993 FL ₆	1997 09 11.95366	23 23 48.37	-07 49 58.6	17.2 V	557	1997 LD	1997 09 08.93056	00 28 46.05	+03 38 56.0		557
1993 FL ₆	1997 09 11.96438	23 23 47.75	-07 50 02.7		557	1997 LD	1997 09 08.93325	00 28 45.97	+03 38 54.5		557
1993 FL ₆	1997 09 12.95404	23 22 48.72	-07 56 34.9	17.6 V	557	1997 MD ₁₀	1997 08 20.83050	17 22 10.94	-00 26 57.9		557
1993 FL ₆	1997 09 12.95809	23 22 48.48	-07 56 36.2		557	1997 MD ₁₀	1997 08 21.84825	17 21 30.94	-00 00 54.9	20 V W	557
1993 FL ₆	1997 09 12.95990	23 22 48.36	-07 56 37.1		557	1997 MD ₁₀	1997 08 21.85497	17 21 30.65	-00 00 44.8		W 557
1993 SY ₃	1997 09 14.99469	23 58 03.30	+05 44 04.6	16.5 V	557	1997 PN	1997 08 13.94772	20 05 35.26	-05 07 52.8		557
1993 SY ₃	1997 09 15.00985	23 58 02.61	+05 43 57.9		557	1997 PN	1997 08 13.95380	20 05 34.77	-05 07 25.7		557
1993 WE	1997 08 11.98880	00 43 16.43	+06 41 58.7	19.5 V	557	1997 PN	1997 08 13.95581	20 05 34.64	-05 07 17.3	18.9 V	557
1993 WE	1997 08 12.05036	00 43 15.99	+06 41 59.0		557	1997 PN	1997 08 20.84392	19 58 54.89	+02 15 44.2		W 557
1993 XF	1997 09 11.96987	00 12 57.24	-03 46 23.8	17.0 V	557	1997 PN	1997 08 21.84213	19 58 15.10	+03 10 13.5	19.5 V W	557
1993 XF	1997 09 11.97292	00 12 57.09	-03 46 24.8		557	1997 PN	1997 08 21.86057	19 58 14.29	+03 11 12.7		557
1993 XF	1997 09 11.97556	00 12 56.98	-03 46 25.7		557	1997 PN	1997 08 21.86280	19 58 14.22	+03 11 19.4		557
1993 XF	1997 09 12.96384	00 12 13.61	-03 52 20.5	16.8 V	557	1997 PF ₂	1997 08 13.02194	00 20 05.47	-02 25 40.3		557
1993 XF	1997 09 12.97368	00 12 13.15	-03 52 24.2		557	1997 PF ₂	1997 08 13.06711	00 20 05.86	-02 25 37.9	19.1 V	557
1993 XF	1997 09 12.97564	00 12 13.06	-03 52 24.9		557	1997 PF ₂	1997 08 13.08918	00 20 06.04	-02 25 36.3		557
1994 WH ₂	1997 09 02.93230	00 01 11.83	-02 18 36.1	16.8 V	557	1997 PF ₂	1997 08 26.95715	00 19 06.92	-02 28 56.3	18.7 V	557
1994 WH ₂	1997 09 02.95947	00 01 10.62	-02 18 49.2		557	1997 PF ₂	1997 08 26.98243	00 19 06.32	-02 28 58.9		557

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1997 PF ₂	1997 08 26.98492	00 19 06.25	-02 28 59.0		557	1997 PM ₄	* 1997 08 13.99912	23 44 35.38	+05 11 14.4	17.7 V	557
1997 PF ₂	1997 08 31.03395	00 17 29.85	-02 35 56.2	18.5 V	557	1997 PM ₄	1997 08 14.00847	23 44 35.15	+05 11 16.7		S 557
1997 PF ₂	1997 08 31.05677	00 17 29.17	-02 35 58.8		557	1997 PM ₄	1997 08 14.03816	23 44 34.51	+05 11 24.5		S 557
1997 PF ₂	1997 09 04.10713	00 15 20.38	-02 45 04.5	18.5 V	557	1997 PM ₄	1997 08 14.04184	23 44 34.46	+05 11 25.3		557
1997 PF ₂	1997 09 04.11934	00 15 19.95	-02 45 06.5		557	1997 PM ₄	1997 08 15.00709	23 44 14.70	+05 15 17.5		S 557
1997 PF ₂	1997 09 08.95061	00 12 10.64	-02 58 02.6	18.2 V	557	1997 PM ₄	1997 08 15.99301	23 43 52.79	+05 19 03.7		557
1997 PF ₂	1997 09 08.95593	00 12 10.40	-02 58 03.7		557	1997 PM ₄	1997 08 16.01119	23 43 52.33	+05 19 07.9		557
1997 PC ₃	* 1997 08 10.96940	23 26 31.98	-04 22 49.3	19.5 V	557	1997 PM ₄	1997 08 16.04771	23 43 51.39	+05 19 15.9	17.8 V	557
1997 PC ₃	1997 08 10.98308	23 26 31.74	-04 22 56.8		557	1997 PM ₄	1997 08 23.00369	23 40 29.28	+05 40 21.4		557
1997 PC ₃	1997 08 11.97531	23 26 16.59	-04 31 15.8		557	1997 PM ₄	1997 08 23.00588	23 40 29.16	+05 40 21.8		557
1997 PC ₃	1997 08 11.97868	23 26 16.59	-04 31 17.1	19.2 V	557	1997 PM ₄	1997 08 23.01142	23 40 28.94	+05 40 22.7		557
1997 PC ₃	1997 08 11.98175	23 26 16.55	-04 31 18.7		557	1997 PM ₄	1997 08 26.03288	23 38 37.01	+05 46 29.0	17.8 V	557
1997 PC ₃	1997 08 12.96341	23 26 00.34	-04 39 44.3	19.3 V	557	1997 PM ₄	1997 08 26.03615	23 38 36.86	+05 46 29.5		557
1997 PC ₃	1997 08 12.97295	23 26 00.23	-04 39 49.8		557	1997 PM ₄	1997 08 26.04920	23 38 36.34	+05 46 30.8		557
1997 PC ₃	1997 08 14.00558	23 25 41.92	-04 48 54.3		557	1997 PM ₄	1997 08 26.05898	23 38 35.93	+05 46 31.9		557
1997 PC ₃	1997 08 14.01456	23 25 41.70	-04 48 58.2		557	1997 PM ₄	1997 08 26.87201	23 38 03.86	+05 47 50.7		557
1997 PC ₃	1997 08 14.05826	23 25 40.82	-04 49 21.8		557	1997 PM ₄	1997 08 26.88845	23 38 03.19	+05 47 52.3		557
1997 PC ₃	1997 08 25.98760	23 20 42.26	-06 46 47.0		557	1997 PM ₄	1997 08 26.92852	23 38 01.51	+05 47 56.0	17.7 V	557
1997 PC ₃	1997 08 26.93135	23 20 12.75	-06 56 53.7		557	1997 PM ₄	1997 08 27.00757	23 37 58.14	+05 48 03.4		557
1997 PC ₃	1997 08 26.95446	23 20 11.94	-06 57 08.0	18.7 V	557	1997 PM ₄	1997 08 27.90649	23 37 21.26	+05 49 19.7	17.6 V	557
1997 PC ₃	1997 08 31.03780	23 17 55.56	-07 41 46.4		557	1997 PM ₄	1997 08 27.93593	23 37 19.98	+05 49 21.9		557
1997 PC ₃	1997 08 31.06072	23 17 54.65	-07 42 01.6		557	1997 PM ₄	1997 08 30.86128	23 35 12.19	+05 52 20.4		557
1997 PC ₃	1997 09 12.98449	23 09 53.14	-10 06 30.3	19.3 V	W 557	1997 PM ₄	1997 08 30.87049	23 35 11.75	+05 52 21.2	17.7 V	557
1997 PC ₃	1997 09 12.99171	23 09 52.94	-10 06 35.1		W 557	1997 PM ₄	1997 08 30.87896	23 35 11.37	+05 52 21.6		557
1997 PD ₃	* 1997 08 10.97169	23 26 29.83	-04 35 03.0	18.2 V	557	1997 PM ₄	1997 09 06.11385	23 30 08.00	+05 53 00.0	17.6 V	557
1997 PD ₃	1997 08 10.98525	23 26 29.48	-04 35 06.6		557	1997 PM ₄	1997 09 06.12380	23 30 07.50	+05 52 59.8		557
1997 PD ₃	1997 08 10.98995	23 26 29.35	-04 35 08.0		557	1997 PM ₄	1997 09 12.97753	23 24 06.45	+05 45 36.5	17.6 V	557
1997 PD ₃	1997 08 11.07110	23 26 27.31	-04 35 30.7		557	1997 PM ₄	1997 09 12.97947	23 24 06.35	+05 45 36.4		557
1997 PD ₃	1997 08 11.97236	23 26 05.72	-04 39 47.6		557	1997 PM ₄	1997 09 12.99427	23 24 05.51	+05 45 34.8		557
1997 PD ₃	1997 08 11.98473	23 26 05.37	-04 39 51.2	18.8 V	557	1997 PQ ₅	1997 08 13.93176	21 37 16.17	-06 58 33.5	19.1 V	557
1997 PD ₃	1997 08 12.96341	23 25 40.08	-04 44 42.9	17.8 V	557	1997 PQ ₅	1997 08 13.93494	21 37 15.97	-06 58 34.9		557
1997 PD ₃	1997 08 12.97295	23 25 39.82	-04 44 45.6		557	1997 QP	* 1997 08 26.03125	23 38 46.79	+05 49 49.0		557
1997 PD ₃	1997 08 14.00558	23 25 11.15	-04 50 05.0		557	1997 QP	1997 08 26.04431	23 38 46.11	+05 49 49.7	17.0 V	557
1997 PD ₃	1997 08 14.01456	23 25 10.89	-04 50 07.5		557	1997 QP	1997 08 26.05573	23 38 45.50	+05 49 50.3		557
1997 PD ₃	1997 08 14.06128	23 25 09.43	-04 50 22.6	18.3 V	557	1997 QP	1997 08 26.05898	23 38 45.33	+05 49 50.5		557
1997 PD ₃	1997 08 16.03653	23 24 09.37	-05 01 09.6		557	1997 QP	1997 08 26.88845	23 38 02.61	+05 50 32.4		557
1997 PD ₃	1997 08 16.04097	23 24 09.21	-05 01 11.9	18.1 V	557	1997 QP	1997 08 26.92852	23 38 00.50	+05 50 34.3	17.0 V	557
1997 PD ₃	1997 08 25.98032	23 17 32.46	-06 05 36.8		557	1997 QP	1997 08 27.00757	23 37 56.26	+05 50 38.0		557
1997 PD ₃	1997 08 26.00581	23 17 31.18	-06 05 47.7	18.0 V	557	1997 QP	1997 08 27.90649	23 37 08.99	+05 51 15.5	16.8 V	557
1997 PD ₃	1997 08 26.02569	23 17 30.21	-06 05 56.1		557	1997 QP	1997 08 27.93593	23 37 07.39	+05 51 16.6		557
1997 PD ₃	1997 08 31.03593	23 13 21.14	-06 43 11.8	18.0 V	557	1997 QP	1997 08 30.85851	23 34 28.28	+05 52 27.8		557
1997 PD ₃	1997 08 31.05882	23 13 19.90	-06 43 22.3		557	1997 QP	1997 08 30.87049	23 34 27.61	+05 52 27.9	17.1 V	557
1997 PD ₃	1997 09 06.05380	23 07 56.17	-07 29 49.0	17.2 V	557	1997 QP	1997 08 30.87896	23 34 27.11	+05 52 28.1		557
1997 PD ₃	1997 09 06.05890	23 07 55.86	-07 29 51.3		557	1997 QP	1997 08 31.10394	23 34 14.28	+05 52 30.3		557
1997 PD ₃	1997 09 12.98226	23 01 32.45	-08 22 52.3	17.6 V	557	1997 QP	1997 09 02.00197	23 32 27.06	+05 52 32.4	17.0 V	557
1997 PD ₃	1997 09 12.98692	23 01 32.18	-08 22 54.3		557	1997 QP	1997 09 02.02679	23 32 25.61	+05 52 32.2		557
1997 PF ₃	1997 08 13.99028	23 06 00.13	-09 07 06.2	19.2 V	557	1997 QP	1997 09 02.87225	23 31 37.21	+05 52 23.3	17.1 V	557
1997 PF ₃	1997 08 14.00259	23 05 59.69	-09 07 09.6		557	1997 QP	1997 09 02.92422	23 31 34.14	+05 52 22.6		557
1997 PF ₃	1997 08 14.03483	23 05 58.47	-09 07 18.6		S 557	1997 QP	1997 09 06.07714	23 28 29.08	+05 50 56.7	17.1 V	557
1997 PF ₃	1997 08 14.04759	23 05 57.98	-09 07 21.1		S 557	1997 QP	1997 09 06.09032	23 28 28.28	+05 50 56.0		557
1997 PF ₃	1997 08 16.03431	23 04 44.25	-09 16 34.2		W 557	1997 QP	1997 09 12.81166	23 21 44.20	+05 43 46.4	17.5 V	557
1997 PF ₃	1997 08 16.04544	23 04 43.78	-09 16 38.1		W 557	1997 QP	1997 09 12.83144	23 21 42.98	+05 43 44.8		557

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1997 QQ	*	1997 08 26.03125	23 38 55.61	+05 45 29.9	17.4 V	557	1997 QV ₂	1997 09 02.92422	23 31 55.58	+05 49 35.6		557
1997 QQ		1997 08 26.03615	23 38 55.43	+05 45 28.4		557	1997 QV ₂	1997 09 06.07714	23 29 17.10	+05 45 29.5	17.2 V	557
1997 QQ		1997 08 26.04267	23 38 55.18	+05 45 26.6		557	1997 QV ₂	1997 09 06.09032	23 29 16.40	+05 45 28.6		557
1997 QQ		1997 08 26.05573	23 38 54.70	+05 45 23.0		557	1997 QV ₂	1997 09 08.95854	23 26 46.19	+05 39 51.5	17.2 V	557
1997 QQ		1997 08 26.06061	23 38 54.52	+05 45 21.7		557	1997 QV ₂	1997 09 08.96388	23 26 45.90	+05 39 50.7		557
1997 QQ		1997 08 26.87471	23 38 25.14	+05 41 32.6		557	1997 QV ₂	1997 09 13.01052	23 23 07.22	+05 29 10.5	17.2 V	557
1997 QQ		1997 08 26.89126	23 38 24.53	+05 41 28.1	17.2 V	557	1997 QV ₂	1997 09 13.01301	23 23 07.08	+05 29 10.0		557
1997 QQ		1997 08 27.00757	23 38 20.10	+05 40 55.1		557	1997 QV ₂	1997 09 13.01547	23 23 06.94	+05 29 09.6		557
1997 QR	*	1997 08 26.03451	23 38 54.29	+05 49 00.4		557	1997 RT	* 1997 09 02.07126	00 40 30.27	+27 32 46.0	16.6 V	557
1997 QR		1997 08 26.05083	23 38 53.75	+05 49 01.1		557	1997 RT	1997 09 02.11307	00 40 40.05	+27 35 45.7		557
1997 QR		1997 08 26.05247	23 38 53.69	+05 49 00.9		557	1997 RT	1997 09 02.11919	00 40 41.49	+27 36 12.0		557
1997 QR		1997 08 26.05735	23 38 53.53	+05 49 01.2		557	1997 RT	1997 09 02.12744	00 40 43.44	+27 36 47.2		557
1997 QR		1997 08 26.88845	23 38 26.24	+05 49 08.3		557	1997 RT	1997 09 02.13307	00 40 44.78	+27 37 11.2		557
1997 QR		1997 08 26.92852	23 38 24.81	+05 49 08.3	19.2 V	557	1997 RT	1997 09 02.13869	00 40 46.11	+27 37 35.1		557
1997 QR		1997 08 27.00757	23 38 21.98	+05 49 09.1		557	1997 RT	1997 09 02.85734	00 43 55.94	+28 27 43.8		557
1997 QR		1997 08 27.90649	23 37 50.98	+05 49 05.6	19.1 V	557	1997 RT	1997 09 02.86016	00 43 56.65	+28 27 55.5		557
1997 QR		1997 08 27.93593	23 37 49.93	+05 49 05.4		557	1997 RT	1997 09 02.86671	00 43 58.18	+28 28 23.6		557
1997 QR		1997 08 30.86128	23 36 00.92	+05 47 39.1	19.4 V	557	1997 RT	1997 09 02.89019	00 44 03.67	+28 30 02.1		557
1997 QR		1997 08 30.87324	23 36 00.44	+05 47 37.6		557	1997 RT	1997 09 02.89844	00 44 05.55	+28 30 37.0		557
1997 QR		1997 09 04.10329	23 33 03.96	+05 42 18.9	18.6 V	557	1997 RT	1997 09 04.03920	00 48 35.44	+29 40 03.1	16.8 V	557
1997 QR		1997 09 04.11712	23 33 03.32	+05 42 18.1		557	1997 RT	1997 09 04.04014	00 48 35.60	+29 44 06.0		557
1997 QR		1997 09 09.01541	23 29 18.89	+05 31 35.3		557	1997 RT	1997 09 04.04389	00 48 36.43	+29 44 20.3		557
1997 QR		1997 09 09.01799	23 29 18.77	+05 31 34.9	18.6 V	557	1997 RT	1997 09 06.07413	00 55 55.09	+31 37 26.1	17.0 V	557
1997 QD ₁	*	1997 08 27.91031	22 30 08.71	-07 34 11.2	I	557	1997 RT	1997 09 06.07880	00 55 55.91	+31 37 40.1		557
1997 QD ₁		1997 08 27.96473	22 30 05.11	-07 34 22.6	17.4 V	557	1997 RT	1997 09 06.11221	00 56 01.81	+31 39 19.4		557
1997 QD ₁		1997 08 30.88196	22 26 59.00	-07 44 41.3		557	1997 RT	1997 09 08.81331	01 04 26.15	+33 39 58.4	16.8 V	557
1997 QD ₁		1997 08 30.89014	22 26 58.45	-07 44 43.2	17.4 V	557	1997 RT	1997 09 08.83848	01 04 30.25	+33 41 02.2		557
1997 QD ₁		1997 09 01.97613	22 24 45.48	-07 52 07.9	17.6 V	557	1997 RT	1997 09 08.89045	01 04 38.33	+33 43 12.7		557
1997 QD ₁		1997 09 01.99341	22 24 44.36	-07 52 11.6		557	1997 RT	1997 09 08.98970	01 04 52.85	+33 47 14.5		557
1997 QD ₁		1997 09 08.86648	22 17 41.89	-08 15 55.3	17.5 V	557	1997 RT	1997 09 09.03809	01 04 59.67	+33 49 08.1		557
1997 QD ₁		1997 09 08.86902	22 17 41.73	-08 15 55.6		557	1997 RT	1997 09 11.99227	01 12 21.04	+35 28 39.0	17.3 V	557
1997 QD ₁		1997 09 08.87160	22 17 41.58	-08 15 56.1		557	1997 RT	1997 09 11.99586	01 12 21.42	+35 28 45.6		557
1997 QD ₁		1997 09 11.92580	22 14 46.48	-08 25 41.1	W	557	1997 RT	1997 09 12.01870	01 12 23.94	+35 29 26.1		557
1997 QD ₁		1997 09 11.93376	22 14 46.06	-08 25 41.9	W	557	1997 RT	1997 09 12.82909	01 14 11.93	+35 51 45.8	17.5 V	557
1997 QD ₁		1997 09 11.93630	22 14 45.91	-08 25 42.7		557	1997 RT	1997 09 12.83395	01 14 12.50	+35 51 54.4		557
1997 QO ₁		1997 09 08.87429	22 18 41.53	-08 06 14.2	18.2 V	557	1997 RT	1997 09 15.05608	01 18 24.39	+36 45 33.7	17.3 V	557
1997 QO ₁		1997 09 08.87697	22 18 41.27	-08 06 13.4		557	1997 RT	1997 09 15.06155	01 18 24.84	+36 45 40.7		557
1997 QO ₁		1997 09 08.88218	22 18 40.79	-08 06 11.6		557	1997 RT	1997 09 15.08252	01 18 26.61	+36 46 06.6		557
1997 QO ₁		1997 09 11.88083	22 14 12.82	-07 47 50.8		557	1997 RA ₁	* 1997 09 02.00578	00 31 53.60	+04 27 18.8	18.0 V	557
1997 QO ₁		1997 09 11.88549	22 14 12.39	-07 47 49.7	18.3 V	557	1997 RA ₁	1997 09 02.03065	00 31 52.72	+04 27 17.6		557
1997 QO ₁		1997 09 11.88781	22 14 12.18	-07 47 48.5		557	1997 RA ₁	1997 09 02.92828	00 31 20.14	+04 26 31.9		557
1997 QO ₁		1997 09 11.89014	22 14 11.98	-07 47 47.9		557	1997 RA ₁	1997 09 02.95554	00 31 19.13	+04 26 31.3	18.0 V	557
1997 QP ₂		1997 09 01.92726	21 49 22.16	-04 36 41.7	18.8 V	557	1997 RA ₁	1997 09 02.96560	00 31 18.72	+04 26 31.3		557
1997 QP ₂		1997 09 01.92938	21 49 21.88	-04 36 39.5		557	1997 RA ₁	1997 09 04.10521	00 30 35.85	+04 25 25.0	18.1 V	557
1997 QP ₂		1997 09 01.93138	21 49 21.55	-04 36 35.3		557	1997 RA ₁	1997 09 04.12131	00 30 35.22	+04 25 23.6		557
1997 QV ₂	*	1997 08 30.85851	23 34 19.33	+05 51 22.0		557	1997 RA ₁	1997 09 06.11062	00 29 17.60	+04 23 11.9	18.1 V	557
1997 QV ₂		1997 08 30.87049	23 34 18.77	+05 51 22.1	17.8 V	557	1997 RA ₁	1997 09 06.12525	00 29 16.96	+04 23 11.2		557
1997 QV ₂		1997 08 30.87896	23 34 18.36	+05 51 21.9		557	1997 RA ₁	1997 09 08.94787	00 27 20.59	+04 19 25.0	17.8 V	557
1997 QV ₂		1997 08 31.10394	23 34 07.67	+05 51 18.7		557	1997 RA ₁	1997 09 08.95323	00 27 20.37	+04 19 24.5		557
1997 QV ₂		1997 09 02.00197	23 32 39.74	+05 50 21.8	17.5 V	557	1997 RA ₁	1997 09 13.01852	00 24 21.03	+04 12 46.5	17.7 V	557
1997 QV ₂		1997 09 02.02679	23 32 38.46	+05 50 21.1	I	557	1997 RA ₁	1997 09 13.02084	00 24 20.93	+04 12 45.8		557
1997 QV ₂		1997 09 02.87225	23 31 58.23	+05 49 38.1	17.5 V	557	1997 RA ₁	1997 09 13.02318	00 24 20.84	+04 12 46.0		557

1997 SEPT.16

M.P.C. 30547

1997 RC ₁	* 1997 09 01.97801	22 24 39.88	-07 28 21.2	18.6 V	557	9002 P-L	1997 08 12.91975	22 40 55.42	+07 56 14.6	17.8 V	557
1997 RC ₁	1997 09 01.99573	22 24 39.02	-07 28 27.6		557	9002 P-L	1997 08 12.92286	22 40 55.27	+07 56 13.2		557
1997 RC ₁	1997 09 02.87505	22 23 56.98	-07 33 54.3		557	9002 P-L	1997 08 12.92580	22 40 55.15	+07 56 12.4		557
1997 RC ₁	1997 09 02.92619	22 23 54.50	-07 34 13.2		557	9002 P-L	1997 08 16.01388	22 38 45.55	+07 39 03.8		557
1997 RC ₁	1997 09 08.87429	22 19 19.26	-08 10 24.2	18.6 V	557	9002 P-L	1997 08 16.02025	22 38 45.22	+07 39 02.3		557
1997 RC ₁	1997 09 08.87959	22 19 19.00	-08 10 26.2		557	9002 P-L	1997 08 16.02257	22 38 45.11	+07 39 01.3		557
1997 RC ₁	1997 09 08.88218	22 19 18.84	-08 10 27.1		557	(1943)	1997 08 27.83572	21 24 21.12	+13 27 24.6		557
1997 RD ₁	1997 09 03.96829	21 34 05.71	-04 27 36.8		557	(1943)	1997 08 27.90051	21 24 16.47	+13 26 17.3		557
1997 RD ₁	1997 09 03.96981	21 34 05.73	-04 27 38.9	16.2 V	557	(1943)	1997 08 27.96176	21 24 12.09	+13 25 13.3		557
1997 RD ₁	1997 09 03.97137	21 34 05.73	-04 27 41.4		557	(1943)	1997 08 28.01804	21 24 08.09	+13 24 14.1		557
1997 RD ₁	1997 09 03.97288	21 34 05.77	-04 27 43.1		557	(1943)	1997 08 28.05525	21 24 05.50	+13 23 34.7		557
1997 RO ₁	* 1997 09 04.08215	00 14 56.39	-02 42 15.5	18.8 V	557	(1943)	1997 08 28.09712	21 24 02.61	+13 22 50.3		557
1997 RO ₁	1997 09 04.08948	00 14 56.29	-02 42 19.8		557	(1980)	1997 08 26.79646	17 16 32.19	+52 01 04.0	14.2 V	557
1997 RO ₁	1997 09 04.11934	00 14 55.85	-02 42 39.9		557	(1980)	1997 08 26.88284	17 16 31.21	+52 01 56.5		557
1997 RO ₁	1997 09 06.08830	00 14 29.38	-03 04 53.5		I 557	(1980)	1997 08 26.96314	17 16 30.53	+52 02 43.8		557
1997 RO ₁	1997 09 08.91388	00 13 41.59	-03 37 33.4	18.5 V	557	(1980)	1997 08 27.06501	17 16 30.13	+52 03 43.0		557
1997 RO ₁	1997 09 08.91728	00 13 41.50	-03 37 35.7		557	(1980)	1997 09 12.79182	17 23 53.26	+54 49 26.8	14.4 V	557
1997 RO ₁	1997 09 08.91999	00 13 41.43	-03 37 37.3		557	(1980)	1997 09 12.80184	17 23 53.78	+54 49 32.4		557
1997 RO ₁	1997 09 12.01632	00 12 36.35	-04 14 01.7	18.5 V	557	(1980)	1997 09 12.82514	17 23 55.03	+54 49 45.3		557
1997 RO ₁	1997 09 12.02116	00 12 36.21	-04 14 04.8		557	(1980)	1997 09 14.83498	17 26 02.70	+55 09 34.0	15.0 V	557
1997 RO ₁	1997 09 12.02373	00 12 36.14	-04 14 06.7		557	(1980)	1997 09 14.94205	17 26 09.65	+55 10 32.0	14.3 V	557
1997 RO ₁	1997 09 12.99681	00 12 13.70	-04 25 36.0	18.6 V	557	(1980)	1997 09 15.01507	17 26 14.75	+55 11 11.3		557
1997 RO ₁	1997 09 12.99949	00 12 13.63	-04 25 37.7		557	(2100)	1997 08 30.90238	01 40 49.23	+14 56 58.3		557
1997 RO ₁	1997 09 13.00718	00 12 13.42	-04 25 43.3		557	(2100)	1997 08 30.96264	01 40 45.31	+14 54 21.2		557
1997 RE ₈	* 1997 09 12.01632	00 12 31.48	-04 15 56.1	19.1 V	557	(2100)	1997 08 31.00162	01 40 42.69	+14 52 39.3		557
1997 RE ₈	1997 09 12.02116	00 12 31.24	-04 15 57.2		557	(2100)	1997 08 31.05296	01 40 39.15	+14 50 23.9		557
1997 RE ₈	1997 09 12.02373	00 12 31.13	-04 15 57.8		557	(2100)	1997 08 31.12135	01 40 34.36	+14 47 22.4		557
1997 RE ₈	1997 09 12.99681	00 11 47.23	-04 19 15.6	19.1 V	557	(2100)	1997 09 01.91832	01 38 35.11	+13 23 30.3		557
1997 RE ₈	1997 09 12.99949	00 11 47.14	-04 19 16.4		557	(2100)	1997 09 01.98904	01 38 29.41	+13 20 03.6		557
1997 RE ₈	1997 09 13.00718	00 11 46.81	-04 19 17.5		557	(2100)	1997 09 02.05806	01 38 23.66	+13 16 40.2		557
1997 RZ ₈	* 1997 09 12.98226	23 02 01.75	-08 21 14.0	17.5 V	557	(2100)	1997 09 02.12344	01 38 18.15	+13 13 26.1		557
1997 RZ ₈	1997 09 12.98692	23 02 01.47	-08 21 14.8		557	(2100)	1997 09 02.90243	01 37 19.24	+12 33 57.6		557
1997 RZ ₈	1997 09 14.91007	23 00 16.92	-08 25 49.4		557	(2100)	1997 09 02.97372	01 37 13.02	+12 30 17.8		557
1997 RZ ₈	1997 09 14.95428	23 00 14.42	-08 25 55.2		557	(2100)	1997 09 03.02267	01 37 08.60	+12 27 45.9		557
1997 RZ ₈	1997 09 14.96950	23 00 13.56	-08 25 57.2		557	(2100)	1997 09 03.07249	01 37 04.04	+12 25 10.2		557
1997 RZ ₈	1997 09 14.97206	23 00 13.39	-08 25 58.0		557	(2100)	1997 09 03.12052	01 36 59.63	+12 22 39.5		557
1997 RA ₉	* 1997 09 13.03659	02 06 35.36	+10 15 49.9	17.5 V	557	(2100)	1997 09 06.03036	01 32 27.36	+09 37 49.3		557
1997 RA ₉	1997 09 13.05266	02 06 35.24	+10 15 45.4		557	(2100)	1997 09 06.07113	01 32 22.62	+09 35 19.5		557
1997 RA ₉	1997 09 15.05339	02 06 22.88	+10 05 19.8	17.5 V	557	(2100)	1997 09 06.10777	01 32 18.36	+09 33 04.5		557
1997 RA ₉	1997 09 15.06962	02 06 22.71	+10 05 14.4		557	(2100)	1997 09 06.14189	01 32 14.39	+09 30 58.3		557
1997 RA ₉	1997 09 15.08767	02 06 22.52	+10 05 08.6	18.0 V	557	(2100)	1997 09 08.89940	01 26 49.70	+06 28 44.7		557
1997 RA ₉	1997 09 15.14316	02 06 21.95	+10 04 50.3		557	(2100)	1997 09 08.94004	01 26 44.08	+06 25 52.4		557
4028 P-L	1997 08 30.81258	20 57 01.97	-06 45 22.8	18.6 V	557	(2100)	1997 09 08.97899	01 26 38.61	+06 23 06.9		557
4028 P-L	1997 08 30.82087	20 57 01.63	-06 45 25.8		557	(2100)	1997 09 08.99694	01 26 36.07	+06 21 50.4		557
4028 P-L	1997 09 02.84756	20 55 00.48	-07 03 19.3	18.4 V	557	(2100)	1997 09 09.02238	01 26 32.45	+06 20 02.1		557
4028 P-L	1997 09 02.88028	20 54 59.19	-07 03 30.9		557	(5143)	1997 08 10.91588	22 16 03.09	-05 48 44.8		557
4069 P-L	1997 08 30.81531	19 40 50.90	-09 24 36.4	18.5 V	557	(5143)	1997 08 11.03615	22 15 48.86	-05 49 43.2		557
4069 P-L	1997 08 30.86459	19 40 50.13	-09 24 49.0		557	(5143)	1997 08 11.09286	22 15 42.19	-05 50 10.5	16.8 V	557
6071 P-L	1997 08 13.99912	23 44 13.02	+05 07 43.5	18.0 V	557	(5143)	1997 08 12.90076	22 12 12.31	-06 04 50.1		557
6071 P-L	1997 08 14.00847	23 44 12.75	+05 07 41.6		S 557	(5143)	1997 08 12.94802	22 12 06.75	-06 05 13.1		557
6071 P-L	1997 08 14.03816	23 44 11.98	+05 07 35.1		S 557	(5143)	1997 08 12.99831	22 12 00.81	-06 05 37.7		557
6071 P-L	1997 08 14.04184	23 44 11.86	+05 07 34.5		557	(5143)	1997 08 13.04198	22 11 55.68	-06 05 58.7		557

(5143)	1997 08 13.08362	22 11 50.76	-06 06 19.0		557
(6197)	1997 09 08.84374	20 39 45.64	-09 24 02.9	17.7 V	557
(6197)	1997 09 08.85142	20 39 45.40	-09 24 04.3		557
(6197)	1997 09 08.85398	20 39 45.33	-09 24 04.9		557
(6197)	1997 09 11.82044	20 38 33.24	-09 34 28.2	S 557	
(6197)	1997 09 11.82975	20 38 33.03	-09 34 29.7	17.7 V S 557	
(6197)	1997 09 11.87630	20 38 31.93	-09 34 39.6	S 557	
(6542)	1997 08 30.98942	23 51 45.53	-04 00 49.1	17.7 V	557
(6542)	1997 08 31.00748	23 51 44.64	-04 00 53.9		557
(6542)	1997 08 31.10194	23 51 39.76	-04 01 19.3		557
(6542)	1997 09 02.06926	23 49 59.39	-04 10 15.7	17.7 V	557
(6542)	1997 09 02.08488	23 49 58.52	-04 10 20.2		557

560 Madonna di Dossobuono

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Observers L. Lai, I. Rocchetti, G. Vesentini

0.40-m $f/3.5$ reflector + CCD

GSC

1983 PX	1997 08 31.89266	21 34 58.00	-01 12 37.6	16.8 V	560
1983 PX	1997 08 31.89762	21 34 57.85	-01 12 40.1	16.8 V	560
1983 PX	1997 08 31.90286	21 34 57.68	-01 12 43.3	16.7 V	560
1987 VR	1997 08 29.91447	22 30 02.58	+02 13 55.0	18.3 V	560
1987 VR	1997 08 29.92336	22 30 02.18	+02 13 51.7	18.5 V	560
1987 VR	1997 08 29.93212	22 30 01.79	+02 13 48.9	18.2 V	560
1987 VR	1997 08 31.93278	22 28 35.90	+02 02 15.0	17.9 V	560
1987 VR	1997 08 31.93637	22 28 35.71	+02 02 13.6	17.9 V	560
1987 VR	1997 08 31.93988	22 28 35.58	+02 02 12.5	17.7 V	560
1989 PU	1997 08 02.92716	20 20 54.73	-07 45 48.7	16.5 V	560
1989 PU	1997 08 02.93602	20 20 54.28	-07 46 03.7	16.4 V	560
1989 PU	1997 08 02.93745	20 20 54.21	-07 46 06.2	16.3 V	560
1989 PU	1997 08 02.94462	20 20 53.84	-07 46 18.0	16.3 V	560
1989 SJ ₂	1997 08 31.91343	22 26 23.24	-03 16 35.8	17.5 V	560
1989 SJ ₂	1997 08 31.91675	22 26 23.07	-03 16 38.1	17.6 V	560
1989 SJ ₂	1997 08 31.92002	22 26 22.96	-03 16 40.0	17.5 V	560
1989 SZ ₂	1997 08 22.92163	20 48 16.03	-05 03 36.0	17.7 V	560
1989 SZ ₂	1997 08 22.93197	20 48 15.46	-05 03 42.2	17.8 V	560
1989 SZ ₂	1997 08 22.94571	20 48 14.97	-05 03 50.3	17.7 V	560
1992 BM ₂	1997 08 31.91531	22 25 22.57	-03 26 24.5	17.0 V	560
1992 BM ₂	1997 08 31.91861	22 25 22.38	-03 26 25.5	17.2 V	560
1992 BM ₂	1997 08 31.92156	22 25 22.21	-03 26 27.1	17.1 V	560
1992 GD ₃	1997 08 31.93450	22 27 37.40	+01 56 21.3	18.4 V	560
1992 GD ₃	1997 08 31.93811	22 27 37.20	+01 56 19.5	18.4 V	560
1992 GD ₃	1997 08 31.94185	22 27 37.08	+01 56 17.5	18.5 V	560
1996 JL	1997 08 23.92759	21 53 00.08	+00 45 53.5	16.3 V	560
1996 JL	1997 08 23.93039	21 52 59.97	+00 45 52.6	16.2 V	560
1996 JL	1997 08 23.93316	21 52 59.81	+00 45 51.3	16.3 V	560
1996 JL	1997 08 23.93595	21 52 59.68	+00 45 50.6	16.3 V	560
1996 JL	1997 08 23.94314	21 52 59.36	+00 45 47.7	16.0 V	560
1996 JL	1997 08 24.90839	21 52 15.02	+00 39 31.7	16.0 V	560
1996 JL	1997 08 24.91267	21 52 14.82	+00 39 30.1	16.1 V	560
1996 JL	1997 08 24.91852	21 52 14.53	+00 39 27.9	16.1 V	560
1996 JL	1997 08 24.92044	21 52 14.45	+00 39 27.0	16.0 V	560

(668)	1997 08 29.91170	22 30 04.50	+02 07 54.8	15.3 V	560
(668)	1997 08 29.92120	22 30 04.08	+02 07 51.0	15.3 V	560
(668)	1997 08 29.92994	22 30 03.70	+02 07 47.3	15.3 V	560
(3833)	1997 08 23.90992	21 40 17.25	+03 13 37.4	15.3 V	560
(3833)	1997 08 23.91365	21 40 17.38	+03 13 31.2	15.3 V	560
(3833)	1997 08 23.91630	21 40 17.48	+03 13 26.4	15.2 V	560
(4513)	1997 08 23.93039	21 53 16.24	+00 49 06.7	17.2 V	560
(4513)	1997 08 23.93595	21 53 15.96	+00 49 04.2	17.1 V	560
(4513)	1997 08 23.94314	21 53 15.64	+00 49 02.0	17.1 V	560
(4513)	1997 08 24.90839	21 52 33.75	+00 43 29.8	16.9 V	560
(4513)	1997 08 24.91267	21 52 33.59	+00 43 28.0	16.9 V	560
(4513)	1997 08 24.91852	21 52 33.34	+00 43 26.2	17.0 V	560
(4513)	1997 08 24.92044	21 52 33.22	+00 43 26.1	17.1 V	560
(5260)	1997 08 22.92846	20 48 07.72	-04 47 38.3	18.0 V	560
(5260)	1997 08 22.93505	20 48 07.45	-04 47 41.6	17.9 V	560
(5260)	1997 08 22.94285	20 48 07.08	-04 47 45.0	17.9 V	560
(5642)	1997 08 22.87737	20 36 41.26	-02 43 59.9	15.4 V	560
(5642)	1997 08 22.87954	20 36 41.07	-02 43 56.2	15.6 V	560
(5642)	1997 08 22.88568	20 36 40.47	-02 43 45.8	15.5 V	560
(7828)	1997 08 02.88468	20 04 26.12	-01 35 44.5	17.5 V	560
(7828)	1997 08 02.89329	20 04 25.75	-01 35 46.7	17.7 V	560

563 Seewalchen

M. Bressler, Sachsenstrasse 40, A-4863 Seewalchen a. A., Austria

0.25-m $f/6$ reflector + CCD

GSC

1993 SG ₁	1997 08 10.88515	21 09 22.30	+01 47 47.2	15.7 R	563
1993 SG ₁	1997 08 10.89078	21 09 22.07	+01 47 42.8	15.7 R	563
1993 SG ₁	1997 08 10.94071	21 09 20.17	+01 47 06.3	15.7 R	563
1993 SG ₁	1997 08 10.95133	21 09 19.73	+01 46 57.8	15.7 R	563
1993 SG ₁	1997 08 12.93802	21 08 08.51	+01 21 39.7	15.9 R	563
1993 SG ₁	1997 08 12.94431	21 08 08.31	+01 21 34.8	15.6 R	563
1993 SG ₁	1997 08 12.95666	21 08 07.84	+01 21 25.5	15.7 R	563
(7757)	1997 07 09.87420	17 40 20.97	+11 07 11.6	15.5 R	563
(7757)	1997 07 09.88069	17 40 20.69	+11 07 15.0	15.3 R	563
(7757)	1997 07 09.88731	17 40 20.37	+11 07 18.9	15.3 R	563
(7757)	1997 07 09.89362	17 40 20.09	+11 07 22.9	15.4 R	563
(7757)	1997 07 28.84696	17 32 51.17	+12 37 30.0	15.0 R	563
(7757)	1997 07 28.85196	17 32 51.15	+12 37 30.0	15.0 R	563
(7757)	1997 07 28.85745	17 32 51.12	+12 37 30.2	14.8 R	563
(7757)	1997 07 28.86302	17 32 51.11	+12 37 30.4	14.8 R	563
(7757)	1997 07 28.86790	17 32 51.06	+12 37 30.3	14.8 R	563
(7757)	1997 07 29.84081	17 32 49.55	+12 37 41.5	15.4 R	563
(7757)	1997 07 29.85270	17 32 49.52	+12 37 41.7	15.3 R	563
(7757)	1997 07 29.85824	17 32 49.51	+12 37 41.5	15.4 R	563
(7835)	1997 08 10.84501	17 45 20.96	-03 40 01.7	16.9 R	563
(7835)	1997 08 10.85051	17 45 21.09	-03 40 03.4	16.9 R	563
(7835)	1997 08 10.85606	17 45 21.23	-03 40 05.3	17.2 R	563
(7835)	1997 08 10.86161	17 45 21.35	-03 40 07.3	17.4 R	563
(7835)	1997 08 11.86024	17 45 46.29	-03 45 25.2	17.6 R	563
(7835)	1997 08 11.86508	17 45 46.45	-03 45 26.5	17.7 R	563
(7835)	1997 08 11.87000	17 45 46.52	-03 45 28.7	17.4 R	563
(7835)	1997 08 12.84465	17 46 12.66	-03 50 43.2	18.3 R	563

(7835)	1997 08 12.85708	17 46 12.99	-03 50 47.3	18.0 R	563
(7835)	1997 08 12.86409	17 46 13.21	-03 50 49.7	17.4 R	563
(7835)	1997 08 12.87172	17 46 13.34	-03 50 51.9	17.8 R	563

565 Bassano Bresciano

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Bresciano (BS), Italy [astrofil@astbo1.bo.cnr.it]

Observers U. Quadri, L. Strabla

0.15-m $f/8.0$ reflector

SAOC

(2)	1997 08 09.84024	19 08 59.95	+17 04 11.3		565
(2)	1997 08 09.87018	19 08 58.90	+17 03 51.0		565
(2)	1997 08 09.87469	19 08 58.78	+17 03 49.8		565
(2)	1997 08 09.89311	19 08 58.12	+17 03 38.6		565

566 Haleakala-NEAT/GEODSS

E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.
[efh@ip1.jpl.nasa.gov]

Observers E. F. Helin, S. H. Pravdo, K. J. Lawrence, D. L. Rabinowitz, S. Groom,
C. Clark, R. Bamberg, S. Levin, J. Lorre, S. Shaklan, R. Byrd, A. Esquibel,
C. Cotton, D. Bascon

1-m $f/2.2$ Ritchey-Chrétien + CCD

1975 VB ₁	1997 08 30.57731	23 01 42.15	-16 23 10.9	18.2 V	566
1975 VB ₁	1997 08 30.58733	23 01 41.71	-16 23 14.3	18.7 V	566
1975 VB ₁	1997 08 30.59766	23 01 41.21	-16 23 16.4	18.1 V	566
1976 SR ₅	1997 09 02.44009	21 19 44.25	-28 23 47.2	17.1 V	566
1976 SR ₅	1997 09 02.44084	21 19 44.13	-28 23 47.1	17.1 V	566
1976 SR ₅	1997 09 02.44971	21 19 43.72	-28 23 46.8	17.1 V	566
1976 SR ₅	1997 09 02.45126	21 19 43.56	-28 23 46.6	17.1 V	566
1976 SR ₅	1997 09 02.45999	21 19 43.14	-28 23 46.5	17.1 V	566
1976 SR ₅	1997 09 02.46073	21 19 43.06	-28 23 46.8	17.1 V	566
1976 UR ₁₅	1997 09 02.53482	22 55 23.56	-23 42 24.0	16.9 V	566
1976 UR ₁₅	1997 09 02.54430	22 55 22.99	-23 42 25.8	16.9 V	566
1976 UR ₁₅	1997 09 02.55475	22 55 22.35	-23 42 27.9	16.9 V	566
1977 EM ₅	1997 09 01.41194	20 42 30.74	-08 18 02.2	17.8 V	566
1977 EM ₅	1997 09 01.42182	20 42 30.39	-08 18 07.9	18.1 V	566
1977 EM ₅	1997 09 01.43220	20 42 29.96	-08 18 13.1	17.8 V	566
1978 QC ₃	1997 09 01.39785	20 57 54.84	-19 35 39.8	16.4 V	566
1978 QC ₃	1997 09 01.40781	20 57 54.45	-19 35 43.3	16.3 V	566
1978 QC ₃	1997 09 01.41828	20 57 54.07	-19 35 47.2	16.3 V	566
1981 EK ₁₁	1997 08 30.55332	21 41 51.36	+03 03 56.8	17.4 V	566
1981 EK ₁₁	1997 08 30.56406	21 41 50.79	+03 03 51.7	17.3 V	566
1981 EK ₁₁	1997 08 30.57416	21 41 50.29	+03 03 46.3	17.5 V	566
1981 EO ₁₈	1997 08 30.58577	22 46 27.81	-07 12 15.7	17.5 V	566
1981 EO ₁₈	1997 08 30.59598	22 46 27.23	-07 12 18.2	17.5 V	566
1981 EO ₁₈	1997 08 30.60682	22 46 26.60	-07 12 21.2	17.6 V	566
1981 EJ ₂₂	1997 09 01.35969	21 13 17.50	-08 18 37.5	17.6 V	566
1981 EJ ₂₂	1997 09 01.36974	21 13 17.19	-08 18 42.3	17.7 V	566
1981 EJ ₂₂	1997 09 01.38001	21 13 16.87	-08 18 47.0	17.6 V	566
1981 EE ₂₈	1997 09 01.44190	21 45 26.23	-17 05 19.4	18.3 V	566
1981 EE ₂₈	1997 09 01.45151	21 45 25.79	-17 05 21.1	18.4 V	566
1981 EE ₂₈	1997 09 01.46115	21 45 25.31	-17 05 23.0	18.1 V	566
1981 VK	1997 09 02.53243	22 14 29.50	-11 53 26.9	17.9 V	566

1981 VK	1997 09 02.54199	22 14 29.07	-11 53 29.0	17.8 V	566
1981 VK	1997 09 02.55235	22 14 28.61	-11 53 31.3	17.6 V	566
1982 EE	1997 09 01.47091	22 20 35.39	-20 54 12.3	16.9 V	566
1982 EE	1997 09 01.48059	22 20 34.89	-20 54 15.7	16.9 V	566
1982 EE	1997 09 01.49038	22 20 34.40	-20 54 19.3	16.8 V	566
1982 EE	1997 09 02.53165	22 19 43.46	-21 00 34.3	17.0 V	566
1982 EE	1997 09 02.54125	22 19 42.98	-21 00 37.4	17.0 V	566
1982 EE	1997 09 02.55149	22 19 42.46	-21 00 40.8	17.0 V	566
1984 QM	1997 09 01.39861	20 50 07.22	-17 12 42.2	16.8 V	566
1984 QM	1997 09 01.40854	20 50 06.92	-17 12 41.1	16.8 V	566
1984 QM	1997 09 01.41921	20 50 06.63	-17 12 40.6	16.8 V	566
1984 SB ₁	1997 08 30.51837	22 08 35.71	-16 03 58.7	16.4 V	566
1984 SB ₁	1997 08 30.52819	22 08 35.10	-16 03 57.6	16.6 V	566
1984 SB ₁	1997 08 30.53768	22 08 34.50	-16 03 56.7	16.4 V	566
1985 QP ₅	1997 08 30.45814	21 40 07.08	-27 48 55.8	17.0 V	566
1985 QP ₅	1997 08 30.46775	21 40 06.46	-27 48 53.6	17.0 V	566
1985 QP ₅	1997 08 30.47736	21 40 05.87	-27 48 51.0	17.0 V	566
1986 QJ ₂	1997 09 02.50217	21 53 54.90	-17 06 35.5	17.9 V	566
1986 QJ ₂	1997 09 02.51180	21 53 54.45	-17 06 36.4	18.0 V	566
1986 QJ ₂	1997 09 02.52191	21 53 54.01	-17 06 37.7	18.2 V	566
1987 RN ₆	1997 08 30.51674	22 18 33.63	-19 46 42.3	17.7 V	566
1987 RN ₆	1997 08 30.52663	22 18 33.16	-19 46 45.1	17.6 V	566
1987 RN ₆	1997 08 30.53615	22 18 32.70	-19 46 47.6	17.7 V	566
1987 SQ ₁₇	1996 02 24.60191	11 51 02.70	+00 15 02.9	18.3 V	566
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1987 SQ ₁₇	1996 02 24.64458	11 51 00.41	+00 15 11.6	17.6 V	566
1987 SQ ₁₇	1997 09 01.39711	20 55 48.23	-21 16 24.2	16.1 V	566
1987 SQ ₁₇	1997 09 01.40704	20 55 47.86	-21 16 22.0	16.1 V	566
1987 SQ ₁₇	1997 09 01.41750	20 55 47.45	-21 16 19.3	16.1 V	566
1987 UU ₄	1997 09 01.43303	21 50 42.03	-24 17 54.2	17.6 V	566
1987 UU ₄	1997 09 01.44339	21 50 41.39	-24 17 55.7	17.8 V	566
1987 UU ₄	1997 09 01.45306	21 50 40.82	-24 17 57.8	17.9 V	566
1987 UU ₄	1997 09 02.38645	21 49 45.62	-24 20 34.1	18.0 V	566
1987 UU ₄	1997 09 02.39652	21 49 45.01	-24 20 36.0	18.0 V	566
1987 UU ₄	1997 09 02.40642	21 49 44.41	-24 20 37.3	17.8 V	566
1987 VR	1997 08 30.61457	22 29 32.23	+02 09 56.3	17.4 V	566
1987 VR	1997 08 30.62477	22 29 31.75	+02 09 52.7	17.3 V	566
1987 VR	1997 08 30.63459	22 29 31.33	+02 09 49.4	17.5 V	566
1989 AL ₆	1996 03 26.32365	10 54 01.93	+09 41 36.9	17.8 V	566
1989 AL ₆	1996 03 26.34352	10 54 00.99	+09 41 42.2	18.1 V	566
1989 AL ₆	1996 03 26.36347	10 54 00.02	+09 41 47.7	17.9 V	566
1989 CX ₂	1997 09 02.52764	21 29 18.58	-03 20 07.1	17.9 V	566
1989 CX ₂	1997 09 02.53743	21 29 18.14	-03 20 09.1	17.9 V	566
1989 CX ₂	1997 09 02.54737	21 29 17.70	-03 20 10.8	18.3 V	566
1989 PU	1997 09 01.34043	20 05 09.02	-21 00 14.3	16.7 V	566
1989 PU	1997 09 01.35072	20 05 08.93	-21 00 28.5	16.4 V	566
1989 PU	1997 09 01.36125	20 05 08.83	-21 00 43.1	16.6 V	566
1989 SE	1997 09 02.49902	22 00 12.27	-22 22 51.0	16.4 V	566
1989 SE	1997 09 02.50862	22 00 11.73	-22 22 49.0	16.3 V	566
1989 SE	1997 09 02.51803	22 00 11.19	-22 22 46.6	16.4 V	566
1989 SZ ₂	1997 09 01.42013	20 42 50.09	-06 34 40.1	18.3 V	566
1989 SZ ₂	1997 09 01.43039	20 42 49.80	-06 34 46.1	18.7 V	566

1989 SZ ₂	1997 09 01.44015	20 42 49.51	-06 34 51.5	18.1 V	566	1991 GX ₇	1997 09 01.43455	21 46 16.93	-22 24 07.3	17.5 V	566
1989 TT	1997 08 30.49484	21 03 16.82	-02 05 03.8	17.8 V	566	1991 GX ₇	1997 09 01.44490	21 46 16.37	-22 24 07.5	17.6 V	566
1989 TT	1997 08 30.50463	21 03 16.43	-02 05 11.8	17.8 V	566	1991 GX ₇	1997 09 01.45454	21 46 15.83	-22 24 07.5	17.8 V	566
1989 TT	1997 08 30.51423	21 03 16.05	-02 05 20.1	17.6 V	566	1991 RK ₇	1997 08 30.54006	21 59 05.44	-06 37 59.1	17.0 V	566
1990 QB	1997 09 01.32965	20 16 51.29	-29 59 19.0	19.1 V	566	1991 RK ₇	1997 08 30.54994	21 59 04.85	-06 38 01.2	17.0 V	566
1990 QB	1997 09 01.33964	20 16 50.80	-29 59 09.7	18.6 V	566	1991 RK ₇	1997 08 30.55977	21 59 04.24	-06 38 03.8	17.0 V	566
1990 QB	1997 09 01.34988	20 16 50.17	-29 59 01.0	18.8 V	566	1991 XZ	1997 09 01.45711	21 38 42.17	-14 17 24.1	18.4 V	566
1990 QB	1997 09 02.40822	20 15 54.74	-29 43 37.2	17.4 V	566	1991 XZ	1997 09 01.46698	21 38 41.56	-14 17 25.7	18.4 V	566
1990 QB	1997 09 02.41823	20 15 54.23	-29 43 28.4	17.3 V	566	1991 XZ	1997 09 01.47667	21 38 41.03	-14 17 27.7	18.7 V	566
1990 QB	1997 09 02.42828	20 15 53.68	-29 43 19.4	17.2 V	566	1992 ES ₅	1995 12 18.52416	04 05 36.39	+06 02 02.8	16.5 V	566
1990 QC ₆	1997 09 01.45225	21 37 58.23	-15 15 18.7	18.0 V	566	1992 ES ₅	1995 12 18.54345	04 05 35.59	+06 02 04.8	16.6 V	566
1990 QC ₆	1997 09 01.46195	21 37 57.68	-15 15 21.3	18.1 V	566	1992 ES ₅	1995 12 18.56273	04 05 34.83	+06 02 07.1	16.2 V	566
1990 QC ₆	1997 09 01.47169	21 37 57.14	-15 15 24.3	18.2 V	566	1992 EZ ₆	1997 09 02.49982	22 00 49.26	-20 52 55.0	17.3 V	566
1990 QQ ₈	1996 10 11.58391	01 45 37.50	+09 11 06.5	17.3 V	566	1992 EZ ₆	1997 09 02.50948	22 00 48.86	-20 53 00.0	17.2 V	566
1990 QQ ₈	1996 10 11.59233	01 45 37.08	+09 11 04.3	17.5 V	566	1992 EZ ₆	1997 09 02.51965	22 00 48.45	-20 53 05.2	17.4 V	566
1990 QQ ₈	1996 10 11.60072	01 45 36.66	+09 11 03.0	17.5 V	566	1992 GD ₃	1997 08 30.61457	22 28 41.23	+02 05 58.7	17.9 V	566
1990 RW ₈	1997 09 01.46351	21 25 01.62	-04 16 58.2	17.8 V	566	1992 GD ₃	1997 08 30.62477	22 28 40.75	+02 05 54.6	17.9 V	566
1990 RW ₈	1997 09 01.46428	21 25 01.59	-04 16 58.5	17.8 V	566	1992 GD ₃	1997 08 30.63459	22 28 40.31	+02 05 50.9	18.6 V	566
1990 RW ₈	1997 09 01.47324	21 25 01.21	-04 16 59.1	18.0 V	566	1992 SS ₂₆	1997 08 30.51758	22 15 11.96	-17 28 44.5	16.3 V	566
1990 RW ₈	1997 09 01.47407	21 25 01.15	-04 16 59.5	17.6 V	566	1992 SS ₂₆	1997 08 30.52736	22 15 11.43	-17 28 44.4	16.4 V	566
1990 RW ₈	1997 09 01.48299	21 25 00.78	-04 17 00.0	17.8 V	566	1992 SS ₂₆	1997 08 30.53693	22 15 10.89	-17 28 44.4	16.3 V	566
1990 RW ₈	1997 09 01.48470	21 25 00.66	-04 17 00.6	17.8 V	566	1992 UQ	1996 10 11.56276	01 48 01.58	+07 09 07.6	16.1 V	566
1990 SW ₄	1997 09 01.50046	22 22 58.48	-10 54 37.4	18.3 V	566	1992 UQ	1996 10 11.57346	01 48 00.98	+07 09 03.1	16.2 V	566
1990 SW ₄	1997 09 01.51058	22 22 57.96	-10 54 42.3	17.0 V	566	1992 UQ	1996 10 11.58186	01 48 00.50	+07 08 59.6	16.0 V	566
1990 SW ₄	1997 09 01.52014	22 22 57.42	-10 54 46.6	17.6 V	566	1992 UM ₉	1997 09 01.40395	20 43 53.15	-10 54 58.5	18.0 V	566
1990 SN ₆	1997 08 03.58575	20 39 20.88	-19 30 59.3	16.5 V	566	1992 UM ₉	1997 09 01.41443	20 43 52.85	-10 55 01.5	18.0 V	566
1990 SN ₆	1997 08 03.59547	20 39 20.29	-19 31 03.0	16.6 V	566	1992 UM ₉	1997 09 01.42538	20 43 52.54	-10 55 04.8	18.1 V	566
1990 SN ₆	1997 08 03.60727	20 39 19.75	-19 31 07.7	17.2 V	566	1993 FO ₈	1997 02 04.33155	08 14 18.33	+24 30 51.8	17.6 V	566
1990 TX	1997 08 30.51343	22 20 37.43	-20 49 37.4	15.8 V	566	1993 FO ₈	1997 02 04.33992	08 14 17.87	+24 30 53.4	17.5 V	566
1990 TX	1997 08 30.52314	22 20 36.90	-20 49 40.7	15.9 V	566	1993 FO ₈	1997 02 04.34830	08 14 17.44	+24 30 55.2	17.7 V	566
1990 TX	1997 08 30.53307	22 20 36.40	-20 49 43.5	16.0 V	566	1993 FL ₈₄	1997 08 30.39405	19 37 08.17	-10 27 19.0	16.9 V	566
1990 TX	1997 09 01.47091	22 19 00.00	-20 59 44.8	16.1 V	566	1993 FL ₈₄	1997 08 30.40362	19 37 08.10	-10 27 24.0	16.9 V	566
1990 TX	1997 09 01.48059	22 18 59.49	-20 59 47.5	16.0 V	566	1993 FL ₈₄	1997 08 30.41380	19 37 08.11	-10 27 29.1	17.2 V	566
1990 TX	1997 09 01.49038	22 18 58.94	-20 59 50.2	16.0 V	566	1993 GD ₁	1997 09 02.59919	23 32 08.47	-15 41 31.6	16.5 V	566
1990 TX	1997 09 02.53165	22 18 07.40	-21 04 49.9	15.8 V	566	1993 GD ₁	1997 09 02.61268	23 32 07.66	-15 41 36.7	16.5 V	566
1990 TX	1997 09 02.54125	22 18 06.88	-21 04 52.4	15.9 V	566	1993 GD ₁	1997 09 02.62386	23 32 07.00	-15 41 40.8	16.5 V	566
1990 TX	1997 09 02.55149	22 18 06.34	-21 04 55.3	15.9 V	566	1993 KP	1997 09 02.46878	20 57 32.64	-12 52 08.7	16.7 V	566
1990 TK ₁₅	1997 09 02.53243	22 11 24.69	-12 52 40.8	16.2 V	566	1993 KP	1997 09 02.47830	20 57 32.37	-12 52 11.5	16.8 V	566
1990 TK ₁₅	1997 09 02.54199	22 11 24.09	-12 52 41.5	16.2 V	566	1993 KP	1997 09 02.48861	20 57 32.07	-12 52 14.7	16.9 V	566
1990 TK ₁₅	1997 09 02.55235	22 11 23.45	-12 52 42.0	16.5 V	566	1993 OA ₇	1997 09 02.50217	21 49 48.01	-16 49 37.9	18.6 V	566
1990 VD ₄	1997 08 30.52588	22 02 45.70	-10 49 53.4	17.7 V	566	1993 OA ₇	1997 09 02.51180	21 49 47.51	-16 49 41.5	18.9 V	566
1990 VD ₄	1997 08 30.53540	22 02 45.15	-10 49 56.7	17.4 V	566	1993 OA ₇	1997 09 02.52191	21 49 46.96	-16 49 44.6	18.4 V	566
1990 VD ₄	1997 08 30.54501	22 02 44.60	-10 50 00.1	17.6 V	566	1993 QR ₄	1997 09 02.55954	22 36 35.76	-12 14 13.9	18.4 V	566
1990 WD ₂	1997 08 30.46048	21 29 41.05	-22 56 12.1	18.5 V	566	1993 QR ₄	1997 09 02.56937	22 36 35.23	-12 14 16.3	18.4 V	566
1990 WD ₂	1997 08 30.47001	21 29 40.57	-22 56 15.3	18.7 V	566	1993 QR ₄	1997 09 02.57908	22 36 34.70	-12 14 18.5	18.4 V	566
1990 WD ₂	1997 08 30.48033	21 29 40.06	-22 56 18.3	19.2 V	566	1993 QX ₄	1997 08 30.52898	22 02 14.75	-08 21 54.7	17.0 V	566
1991 CU	1997 09 01.44190	21 42 14.27	-16 34 01.9	16.5 V	566	1993 QX ₄	1997 08 30.53849	22 02 14.28	-08 22 00.4	17.0 V	566
1991 CU	1997 09 01.45151	21 42 13.85	-16 34 06.8	16.5 V	566	1993 QX ₄	1997 08 30.54831	22 02 13.84	-08 22 06.6	16.9 V	566
1991 CU	1997 09 01.46115	21 42 13.41	-16 34 11.5	16.4 V	566	1993 US	1997 09 02.50380	21 44 01.80	-12 42 27.4	18.4 V	566
1991 ES ₁	1997 08 01.58654	20 08 53.54	-05 35 55.0	16.6 V	566	1993 US	1997 09 02.50458	21 44 01.77	-12 42 28.2	18.0 V	566
1991 ES ₁	1997 08 01.59601	20 08 53.03	-05 35 59.0	16.7 V	566	1993 US	1997 09 02.51330	21 44 01.35	-12 42 29.6	18.4 V	566
1991 ES ₁	1997 08 01.60678	20 08 52.51	-05 36 03.2	16.5 V	566	1993 US	1997 09 02.51425	21 44 01.33	-12 42 30.9	18.3 V	566

1997 SEPT.16

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1993 US	1997 09 02.52346	21 44 00.93	-12 42 33.1	18.5 V	566	1996 VT ₄	1997 02 08.26408	04 17 32.90	+21 14 22.0	18.8 V	566
1993 US	1997 09 02.52428	21 44 00.90	-12 42 33.7	18.1 V	566	1997 CA ₆	1997 01 11.39266	08 22 38.16	+26 04 14.7	19.1 V	566
1994 TC ₃	1997 09 01.45802	21 34 56.49	-12 20 08.6	17.4 V	566	1997 CA ₆	1997 01 11.40103	08 22 37.70	+26 04 16.8	19.0 V	566
1994 TC ₃	1997 09 01.46786	21 34 56.07	-12 20 11.1	17.2 V	566	1997 CA ₆	1997 01 11.40965	08 22 37.20	+26 04 18.3	19.0 V	566
1994 TC ₃	1997 09 01.47741	21 34 55.61	-12 20 13.5	17.2 V	566	1997 FE ₅	1997 04 05.48964	12 36 23.16	-01 49 48.5	18.8 V	566
1994 TC ₃	1997 09 02.38371	21 34 18.12	-12 24 11.4	17.2 V	566	1997 FE ₅	1997 04 05.49802	12 36 22.72	-01 49 46.3	18.7 V	566
1994 TC ₃	1997 09 02.39374	21 34 17.66	-12 24 14.2	17.2 V	566	1997 FE ₅	1997 04 05.50640	12 36 22.32	-01 49 44.6	18.7 V	566
1994 TC ₃	1997 09 02.40363	21 34 17.22	-12 24 16.6	17.1 V	566	1997 GM ₄₄	* 1997 04 04.60710	13 11 25.45	-03 57 16.2	20.3 V	566
1994 VD ₁	1997 09 02.59606	23 33 09.82	-17 18 51.4	18.5 V	566	1997 GM ₄₄	1997 04 04.61551	13 11 25.13	-03 57 13.5	20.1 V	566
1994 VD ₁	1997 09 02.60903	23 33 09.08	-17 18 56.5	18.6 V	566	1997 GM ₄₄	1997 04 04.62408	13 11 24.81	-03 57 11.1	20.0 V	566
1994 VD ₁	1997 09 02.62193	23 33 08.36	-17 19 01.1	18.8 V	566	1997 GN ₄₄	* 1997 04 05.41296	11 48 47.94	-02 20 10.4	19.7 V	566
1994 VJ ₇	1997 08 30.52588	22 02 09.58	-10 01 22.2	15.6 V	566	1997 GN ₄₄	1997 04 05.42359	11 48 47.57	-02 20 07.0	20.1 V	566
1994 VJ ₇	1997 08 30.53540	22 02 09.03	-10 01 24.3	15.6 V	566	1997 GN ₄₄	1997 04 05.43199	11 48 47.11	-02 20 03.8	19.7 V	566
1994 VJ ₇	1997 08 30.54501	22 02 08.46	-10 01 26.3	15.5 V	566	1997 GO ₄₄	* 1997 04 05.41296	11 48 57.02	-02 40 10.1	20.1 V	566
1994 YN ₁	1997 09 01.43529	21 44 50.74	-20 55 10.0	18.0 V	566	1997 GO ₄₄	1997 04 05.42359	11 48 56.52	-02 40 05.3	19.8 V	566
1994 YN ₁	1997 09 01.44566	21 44 50.19	-20 55 12.1	17.8 V	566	1997 GO ₄₄	1997 04 05.43199	11 48 56.07	-02 40 01.1	19.6 V	566
1994 YN ₁	1997 09 01.45537	21 44 49.67	-20 55 14.2	17.9 V	566	1997 GP ₄₄	* 1997 04 05.41296	11 49 48.86	-02 26 45.1	19.8 V	566
1995 DZ ₁	1997 09 02.54050	22 44 18.06	-19 54 58.9	18.0 V	566	1997 GP ₄₄	1997 04 05.42359	11 49 48.30	-02 26 40.7	20.3 V	566
1995 DZ ₁	1997 09 02.55071	22 44 17.58	-19 55 01.7	17.9 V	566	1997 GP ₄₄	1997 04 05.43199	11 49 47.80	-02 26 37.3	19.7 V	566
1995 DZ ₁	1997 09 02.56029	22 44 17.13	-19 55 03.9	18.0 V	566	1997 GQ ₄₄	* 1997 04 05.51736	13 14 24.01	-11 34 01.3	20.2 V	566
1996 AF ₂	1997 08 03.52027	19 54 48.66	-23 48 48.4	17.4 V	566	1997 GQ ₄₄	1997 04 05.52579	13 14 23.66	-11 33 59.2	20.2 V	566
1996 AF ₂	1997 08 03.53137	19 54 47.96	-23 48 47.1	17.0 V	566	1997 GQ ₄₄	1997 04 05.53419	13 14 23.29	-11 33 56.9	20.4 V	566
1996 AF ₂	1997 08 03.54223	19 54 47.43	-23 48 47.1	17.9 V	566	1997 GR ₄₄	* 1997 04 05.53827	13 15 04.48	-08 29 23.6	20.0 V	566
1996 BS ₈	1997 08 30.51674	22 18 40.67	-19 06 17.9	17.9 V	566	1997 GR ₄₄	1997 04 05.54666	13 15 03.91	-08 29 21.6	19.8 V	566
1996 BS ₈	1997 08 30.52663	22 18 40.06	-19 06 19.2	17.8 V	566	1997 GR ₄₄	1997 04 05.55508	13 15 03.38	-08 29 20.0	20.1 V	566
1996 BS ₈	1997 08 30.53615	22 18 39.42	-19 06 20.4	17.9 V	566	1997 HV ₂	1997 04 05.48744	12 35 50.85	-04 18 49.1	19.2 V	566
1996 DD	1997 09 02.47573	21 47 32.04	-17 39 10.2	18.5 V	566	1997 HV ₂	1997 04 05.49584	12 35 50.31	-04 18 47.4	19.4 V	566
1996 DD	1997 09 02.48629	21 47 31.46	-17 39 12.1	18.4 V	566	1997 HV ₂	1997 04 05.50423	12 35 49.78	-04 18 45.0	19.4 V	566
1996 DD	1997 09 02.49661	21 47 30.87	-17 39 14.1	18.2 V	566	1997 LB ₄	1997 08 30.58881	22 47 14.10	-06 20 41.7	17.7 V	566
1996 EL ₁₆	1996 03 19.47373	11 20 06.26	+05 45 49.1	18.6 V	566	1997 LB ₄	1997 08 30.59931	22 47 13.54	-06 20 44.3	17.6 V	566
1996 EL ₁₆	1996 03 19.49566	11 20 05.07	+05 45 57.8	18.5 V	566	1997 LB ₄	1997 08 30.60954	22 47 13.02	-06 20 46.7	17.7 V	566
1996 EL ₁₆	1996 03 19.51648	11 20 04.03	+05 46 06.7	18.5 V	566	1997 NG ₃	1997 09 01.34344	20 02 29.80	-13 31 41.3	17.0 V	566
1996 HR ₂₄	1997 08 30.57956	22 58 35.95	-14 12 38.2	17.9 V	566	1997 NG ₃	1997 09 01.35386	20 02 29.72	-13 31 45.9	17.2 V	566
1996 HR ₂₄	1997 08 30.58955	22 58 35.46	-14 12 41.5	18.5 V	566	1997 NG ₃	1997 09 01.36444	20 02 29.52	-13 31 49.9	17.6 V	566
1996 HR ₂₄	1997 08 30.60016	22 58 34.99	-14 12 44.6	18.4 V	566	1997 NE ₅	1997 08 30.48347	21 17 42.27	-12 36 13.1	17.8 V	566
1996 JJ ₁	1997 09 02.38559	21 49 45.34	-06 37 12.9	18.3 V	566	1997 NE ₅	1997 08 30.49314	21 17 41.80	-12 36 14.3	18.0 V	566
1996 JJ ₁	1997 09 02.39565	21 49 44.90	-06 37 17.3	18.2 V	566	1997 NE ₅	1997 08 30.50292	21 17 41.32	-12 36 14.4	17.8 V	566
1996 JJ ₁	1997 09 02.40548	21 49 44.52	-06 37 21.8	18.3 V	566	1997 NJ ₁₀	1997 09 01.40474	20 44 39.69	-09 11 46.7	17.6 V	566
1996 LL ₁	1996 05 15.42620	15 32 07.92	-21 19 51.7	17.8 V	566	1997 NJ ₁₀	1997 09 01.41518	20 44 39.35	-09 11 50.2	17.9 V	566
1996 LL ₁	1996 05 15.44440	15 32 06.74	-21 19 45.9	17.9 V	566	1997 NJ ₁₀	1997 09 01.42621	20 44 38.99	-09 11 54.1	17.8 V	566
1996 LL ₁	1996 05 15.46696	15 32 05.24	-21 19 38.5	17.5 V	566	1997 NK ₁₀	1997 09 01.42695	20 38 41.16	-05 36 09.7	17.8 V	566
1996 LY ₅	* 1996 06 12.38264	15 18 39.26	-18 35 29.2	20.7 V	566	1997 NK ₁₀	1997 09 01.43691	20 38 40.86	-05 36 15.2	18.4 V	566
1996 LY ₅	1996 06 12.40029	15 18 38.57	-18 35 27.2	20.5 V	566	1997 NK ₁₀	1997 09 01.44740	20 38 40.51	-05 36 21.3	18.2 V	566
1996 LY ₅	1996 06 12.42164	15 18 37.87	-18 35 24.1	20.7 V	566	1997 OK ₁	1997 09 02.50217	21 48 59.12	-16 33 41.4	18.5 V	566
1996 SH ₆	1996 10 11.57961	01 45 29.69	+08 42 45.8	16.8 V	566	1997 OK ₁	1997 09 02.51180	21 48 58.65	-16 33 42.0	18.6 V	566
1996 SH ₆	1996 10 11.58801	01 45 29.22	+08 42 41.0	16.9 V	566	1997 OK ₁	1997 09 02.52191	21 48 58.21	-16 33 43.8	18.5 V	566
1996 SH ₆	1996 10 11.59644	01 45 28.77	+08 42 36.5	16.8 V	566	1997 OZ ₁	1997 08 02.28921	21 40 51.82	-06 20 03.6	17.7 V	566
1996 TB ₅	1996 10 11.58391	01 39 53.87	+10 08 12.2	17.6 V	566	1997 OZ ₁	1997 08 02.30128	21 40 51.35	-06 20 10.0	17.9 V	566
1996 TB ₅	1996 10 11.59233	01 39 53.50	+10 08 06.7	17.5 V	566	1997 OZ ₁	1997 08 02.31223	21 40 50.84	-06 20 16.8	17.7 V	566
1996 TB ₅	1996 10 11.60072	01 39 53.19	+10 08 01.1	17.6 V	566	1997 OV ₂	1997 09 01.35969	21 15 16.86	-08 06 20.4	18.3 V	566
1996 VT ₄	1997 02 08.24501	04 17 31.99	+21 14 22.2	19.0 V	566	1997 OV ₂	1997 09 01.36974	21 15 16.37	-08 06 21.7	18.0 V	566
1996 VT ₄	1997 02 08.25342	04 17 32.40	+21 14 21.9	19.0 V	566	1997 OV ₂	1997 09 01.38001	21 15 15.90	-08 06 22.4	18.2 V	566

1997 OX ₂	1997 08 01.51559	19 31 53.05	-16 51 55.3	17.5 V	566	1997 PM ₅	1997 08 03.47640	20 19 25.69	-07 54 19.1	17.8 V	566
1997 OX ₂	1997 08 01.52568	19 31 52.54	-16 51 59.3	17.7 V	566	1997 PM ₅	1997 08 03.48634	20 19 25.15	-07 54 20.0	17.8 V	566
1997 OX ₂	1997 08 01.53596	19 31 52.10	-16 52 02.6	17.6 V	566	1997 PN ₅	1997 08 30.43442	20 25 52.85	-10 12 38.2	17.5 V	566
1997 PO	1997 08 03.38788	20 14 07.84	-10 35 42.5	17.7 V	566	1997 PN ₅	1997 08 30.43517	20 25 52.78	-10 12 37.6	17.4 V	566
1997 PO	1997 08 03.39885	20 14 07.57	-10 36 03.4	17.9 V	566	1997 PN ₅	1997 08 30.44589	20 25 52.37	-10 12 36.9	17.4 V	566
1997 PO	1997 08 03.40946	20 14 07.35	-10 36 23.4	17.7 V	566	1997 PN ₅	1997 08 30.44661	20 25 52.26	-10 12 36.6	17.5 V	566
1997 PO	1997 09 02.37762	20 15 44.28	-24 23 16.3	18.4 V	566	1997 PN ₅	1997 08 30.45641	20 25 51.93	-10 12 36.8	17.7 V	566
1997 PO	1997 09 02.38732	20 15 44.60	-24 23 28.1	18.6 V	566	1997 PN ₅	1997 08 30.45734	20 25 51.87	-10 12 35.7	17.5 V	566
1997 PO	1997 09 02.39744	20 15 44.85	-24 23 40.7	18.7 V	566	1997 QF	1997 08 30.57807	23 02 15.04	-14 40 42.5	18.0 V	566
1997 PX ₁	1997 08 30.51343	22 19 23.40	-20 35 43.3	17.4 V	566	1997 QF	1997 08 30.58807	23 02 14.61	-14 40 47.8	17.9 V	566
1997 PX ₁	1997 08 30.52314	22 19 22.82	-20 35 46.6	17.7 V	566	1997 QF	1997 08 30.59843	23 02 14.10	-14 40 53.7	18.1 V	566
1997 PX ₁	1997 08 30.53307	22 19 22.29	-20 35 50.0	17.7 V	566	1997 QJ	1997 09 01.45711	21 38 54.48	-14 48 07.9	18.1 V	566
1997 PX ₁	1997 09 01.47091	22 17 37.49	-20 46 39.9	17.6 V	566	1997 QJ	1997 09 01.46698	21 38 53.92	-14 48 10.8	18.1 V	566
1997 PX ₁	1997 09 01.48059	22 17 36.94	-20 46 42.9	17.7 V	566	1997 QJ	1997 09 01.47667	21 38 53.41	-14 48 14.2	18.1 V	566
1997 PX ₁	1997 09 01.49038	22 17 36.39	-20 46 46.0	17.6 V	566	1997 QK	1997 09 01.46273	21 28 31.97	-06 37 42.7	17.1 V	566
1997 PX ₁	1997 09 02.53165	22 16 40.83	-20 52 14.2	17.8 V	566	1997 QK	1997 09 01.47249	21 28 31.53	-06 37 43.6	17.2 V	566
1997 PX ₁	1997 09 02.54125	22 16 40.31	-20 52 17.1	17.4 V	566	1997 QK	1997 09 01.48221	21 28 31.08	-06 37 44.2	17.2 V	566
1997 PX ₁	1997 09 02.55149	22 16 39.72	-20 52 20.5	17.4 V	566	1997 QS	1997 09 02.47573	21 44 40.09	-17 12 42.3	18.7 V	566
1997 PJ ₂	1997 09 01.44190	21 44 15.99	-17 49 26.0	18.2 V	566	1997 QS	1997 09 02.48629	21 44 39.61	-17 12 43.6	18.8 V	566
1997 PJ ₂	1997 09 01.45151	21 44 15.59	-17 49 29.3	18.1 V	566	1997 QS	1997 09 02.49661	21 44 39.15	-17 12 45.5	18.9 V	566
1997 PJ ₂	1997 09 01.46115	21 44 15.15	-17 49 33.2	18.5 V	566	1997 QU	1997 08 02.28994	21 43 57.32	-05 54 26.6	18.1 V	566
1997 PA ₄	1997 09 02.41208	20 13 50.67	-16 02 01.2	18.3 V	566	1997 QU	1997 08 02.30206	21 43 56.80	-05 54 28.7	17.8 V	566
1997 PA ₄	1997 09 02.42210	20 13 50.29	-16 01 58.7	17.9 V	566	1997 QU	1997 08 02.31362	21 43 56.35	-05 54 31.8	18.0 V	566
1997 PA ₄	1997 09 02.43211	20 13 49.88	-16 01 56.1	18.2 V	566	1997 QO ₁	1997 09 02.56192	22 28 37.89	-08 43 42.4	18.7 V	566
1997 PC ₄	1997 08 30.48347	21 13 09.05	-13 09 13.9	17.4 V	566	1997 QO ₁	1997 09 02.56355	22 28 37.71	-08 43 42.1	18.8 V	566
1997 PC ₄	1997 08 30.49314	21 13 08.76	-13 09 17.8	17.4 V	566	1997 QO ₁	1997 09 02.57199	22 28 36.92	-08 43 38.5	18.8 V	566
1997 PC ₄	1997 08 30.50292	21 13 08.46	-13 09 21.3	17.4 V	566	1997 QO ₁	1997 09 02.57362	22 28 36.72	-08 43 38.0	18.5 V	566
1997 PS ₄	1997 09 01.45952	21 33 53.68	-09 00 45.8	17.1 V	566	1997 QO ₁	1997 09 02.58217	22 28 35.90	-08 43 35.4	18.8 V	566
1997 PS ₄	1997 09 01.46933	21 33 53.13	-09 00 48.5	16.9 V	566	1997 QO ₁	1997 09 02.58379	22 28 35.71	-08 43 34.8	18.8 V	566
1997 PS ₄	1997 09 01.47899	21 33 52.58	-09 00 50.8	17.0 V	566	1997 QG ₂	* 1997 08 30.54269	21 51 48.82	-04 44 58.3	17.0 V	566
1997 PU ₄	1997 09 02.50636	21 41 48.21	-09 12 24.9	18.5 V	566	1997 QG ₂	1997 08 30.55256	21 51 48.33	-04 45 14.1	17.1 V	566
1997 PU ₄	1997 09 02.51577	21 41 47.75	-09 12 27.1	18.5 V	566	1997 QG ₂	1997 08 30.56311	21 51 47.81	-04 45 31.2	17.3 V	566
1997 PU ₄	1997 09 02.52601	21 41 47.26	-09 12 29.1	18.5 V	566	1997 QG ₂	1997 09 01.42868	21 50 22.34	-05 36 29.7	17.4 V	566
1997 PH ₅	* 1997 08 01.55438	20 24 43.62	-21 18 18.3	18.1 V	566	1997 QG ₂	1997 09 01.43841	21 50 21.87	-05 36 45.6	17.5 V	566
1997 PH ₅	1997 08 01.56427	20 24 43.11	-21 18 20.3	19.0 V	566	1997 QG ₂	1997 09 01.44919	21 50 21.32	-05 37 03.4	17.2 V	566
1997 PH ₅	1997 08 01.57816	20 24 42.44	-21 18 21.5	18.5 V	566	1997 QG ₂	1997 09 02.38559	21 49 39.14	-06 02 46.4	17.3 V	566
1997 PH ₅	1997 08 02.43350	20 23 59.21	-21 20 22.1	18.3 V	566	1997 QG ₂	1997 09 02.39565	21 49 38.67	-06 03 03.0	17.2 V	566
1997 PH ₅	1997 08 02.44548	20 23 58.62	-21 20 24.0	18.0 V	566	1997 QG ₂	1997 09 02.40548	21 49 38.18	-06 03 19.1	17.3 V	566
1997 PH ₅	1997 08 02.45579	20 23 58.11	-21 20 25.0	18.7 V	566	1997 QH ₂	* 1997 08 30.46121	21 31 23.55	-22 03 44.0	16.0 V	566
1997 PH ₅	1997 08 02.48124	20 23 56.68	-21 20 28.7	18.9 V	566	1997 QH ₂	1997 08 30.47087	21 31 22.92	-22 03 39.8	16.1 V	566
1997 PH ₅	1997 08 02.49248	20 23 56.16	-21 20 30.5	18.3 V	566	1997 QH ₂	1997 08 30.48116	21 31 22.31	-22 03 35.0	16.2 V	566
1997 PH ₅	1997 08 02.50274	20 23 55.61	-21 20 32.2	18.3 V	566	1997 QH ₂	1997 09 01.37231	21 29 33.08	-21 49 32.1	16.1 V	566
1997 PH ₅	1997 08 02.51947	20 23 54.70	-21 20 33.4	18.5 V	566	1997 QH ₂	1997 09 01.38243	21 29 32.47	-21 49 27.6	16.1 V	566
1997 PH ₅	1997 08 02.52924	20 23 54.21	-21 20 34.5	18.8 V	566	1997 QH ₂	1997 09 01.39254	21 29 31.85	-21 49 22.9	16.1 V	566
1997 PH ₅	1997 08 02.53996	20 23 53.66	-21 20 36.8	18.6 V	566	1997 QJ ₂	* 1997 08 30.46121	21 31 28.14	-22 15 48.0	17.3 V	566
1997 PM ₅	* 1997 08 02.60159	20 20 11.75	-07 52 29.5	18.1 V	566	1997 QJ ₂	1997 08 30.47087	21 31 27.81	-22 15 52.6	17.4 V	566
1997 PM ₅	1997 08 02.61415	20 20 11.05	-07 52 31.3	18.0 V	566	1997 QJ ₂	1997 08 30.48116	21 31 27.51	-22 15 58.2	17.2 V	566
1997 PM ₅	1997 08 02.62733	20 20 10.27	-07 52 32.7	17.7 V	566	1997 QJ ₂	1997 09 01.37231	21 30 38.59	-22 32 20.1	17.5 V	566
1997 PM ₅	1997 08 03.34499	20 19 33.09	-07 54 02.1	17.9 V	566	1997 QJ ₂	1997 09 01.38243	21 30 38.31	-22 32 25.4	17.3 V	566
1997 PM ₅	1997 08 03.35529	20 19 32.54	-07 54 03.2	17.8 V	566	1997 QJ ₂	1997 09 01.39254	21 30 38.00	-22 32 30.5	17.4 V	566
1997 PM ₅	1997 08 03.36533	20 19 31.97	-07 54 04.9	17.9 V	566	1997 QJ ₂	1997 09 02.47497	21 30 11.89	-22 41 20.2	17.2 V	566
1997 PM ₅	1997 08 03.46467	20 19 26.35	-07 54 17.6	17.6 V	566	1997 QJ ₂	1997 09 02.48537	21 30 11.62	-22 41 24.8	17.3 V	566

1997 QJ ₂	1997 09 02.49566	21 30 11.34	-22 41 29.8	17.2 V	566	1997 QE ₃	* 1997 08 30.54182	21 54 13.50	-06 12 57.2	17.9 V	566
1997 QK ₂	* 1997 08 30.48761	21 14 38.47	-08 56 28.5	18.6 V	566	1997 QE ₃	1997 08 30.55174	21 54 13.09	-06 13 04.6	17.9 V	566
1997 QK ₂	1997 08 30.49732	21 14 37.96	-08 56 22.5	19.2 V	566	1997 QE ₃	1997 08 30.56222	21 54 12.67	-06 13 12.3	18.3 V	566
1997 QK ₂	1997 08 30.50701	21 14 37.45	-08 56 18.1	18.3 V	566	1997 QE ₃	1997 09 02.38559	21 52 26.17	-06 50 07.3	17.8 V	566
1997 QK ₂	1997 09 01.35969	21 13 08.68	-08 40 46.6	18.4 V	566	1997 QE ₃	1997 09 02.39565	21 52 25.77	-06 50 14.7	18.2 V	566
1997 QK ₂	1997 09 01.36974	21 13 08.19	-08 40 41.3	18.3 V	566	1997 QE ₃	1997 09 02.40548	21 52 25.41	-06 50 22.8	18.4 V	566
1997 QK ₂	1997 09 01.38001	21 13 07.61	-08 40 36.1	18.7 V	566	1997 QF ₃	* 1997 08 30.55795	22 53 23.13	-20 58 23.0	17.9 V	566
1997 QL ₂	* 1997 08 30.48761	21 15 29.31	-09 33 42.3	18.7 V	566	1997 QF ₃	1997 08 30.56930	22 53 22.46	-20 58 22.9	18.1 V	566
1997 QL ₂	1997 08 30.49732	21 15 28.76	-09 33 39.5	18.7 V	566	1997 QF ₃	1997 08 30.57882	22 53 21.83	-20 58 22.1	17.8 V	566
1997 QL ₂	1997 08 30.50701	21 15 28.17	-09 33 36.2	18.7 V	566	1997 QF ₃	1997 09 02.53657	22 50 28.33	-20 56 18.2	17.8 V	566
1997 QL ₂	1997 09 01.35969	21 13 48.34	-09 24 10.3	18.5 V	566	1997 QF ₃	1997 09 02.54660	22 50 27.71	-20 56 17.3	17.7 V	566
1997 QL ₂	1997 09 01.36974	21 13 47.75	-09 24 07.1	18.7 V	566	1997 QF ₃	1997 09 02.55726	22 50 27.06	-20 56 16.8	17.8 V	566
1997 QL ₂	1997 09 01.38001	21 13 47.19	-09 24 03.8	18.7 V	566	1997 QG ₃	* 1997 08 30.55795	22 53 29.49	-20 09 13.6	18.0 V	566
1997 QM ₂	* 1997 08 30.51258	22 21 41.94	-21 44 18.0	18.0 V	566	1997 QG ₃	1997 08 30.56930	22 53 28.76	-20 09 14.5	18.1 V	566
1997 QM ₂	1997 08 30.52237	22 21 41.29	-21 44 20.1	18.2 V	566	1997 QG ₃	1997 08 30.57882	22 53 28.09	-20 09 16.1	17.7 V	566
1997 QM ₂	1997 08 30.53211	22 21 40.64	-21 44 23.2	18.2 V	566	1997 QG ₃	1997 09 02.54050	22 50 21.87	-20 15 01.2	17.6 V	566
1997 QM ₂	1997 09 01.47091	22 19 39.46	-21 51 03.5	17.9 V	566	1997 QG ₃	1997 09 02.55071	22 50 21.20	-20 15 01.9	17.7 V	566
1997 QM ₂	1997 09 01.48059	22 19 38.83	-21 51 05.4	18.0 V	566	1997 QG ₃	1997 09 02.56029	22 50 20.61	-20 15 02.8	17.7 V	566
1997 QM ₂	1997 09 01.49038	22 19 38.18	-21 51 07.2	17.9 V	566	1997 QH ₃	* 1997 08 30.55795	22 55 45.20	-20 27 32.4	19.0 V	566
1997 QM ₂	1997 09 02.53165	22 18 33.49	-21 54 22.2	18.2 V	566	1997 QH ₃	1997 08 30.56930	22 55 44.57	-20 27 34.5	19.1 V	566
1997 QM ₂	1997 09 02.54125	22 18 32.86	-21 54 23.8	18.1 V	566	1997 QH ₃	1997 08 30.57882	22 55 44.05	-20 27 35.8	18.8 V	566
1997 QM ₂	1997 09 02.55149	22 18 32.22	-21 54 25.6	18.2 V	566	1997 QH ₃	1997 09 02.53657	22 52 57.58	-20 37 12.2	18.9 V	566
1997 QN ₂	* 1997 08 30.51343	22 17 15.97	-20 59 18.5	18.2 V	566	1997 QH ₃	1997 09 02.54660	22 52 57.03	-20 37 13.3	18.6 V	566
1997 QN ₂	1997 08 30.52314	22 17 15.54	-20 59 21.1	18.3 V	566	1997 QH ₃	1997 09 02.55726	22 52 56.40	-20 37 15.2	18.9 V	566
1997 QN ₂	1997 08 30.53307	22 17 15.08	-20 59 23.4	18.4 V	566	1997 QJ ₃	1997 09 01.46273	21 30 22.11	-06 55 45.5	18.0 V	566
1997 QN ₂	1997 09 01.47091	22 15 49.52	-21 08 33.2	18.2 V	566	1997 QJ ₃	1997 09 01.47249	21 30 21.68	-06 55 50.1	17.7 V	566
1997 QN ₂	1997 09 01.48059	22 15 49.05	-21 08 36.2	17.9 V	566	1997 QJ ₃	1997 09 01.48221	21 30 21.30	-06 55 53.7	18.3 V	566
1997 QN ₂	1997 09 01.49038	22 15 48.64	-21 08 39.2	17.7 V	566	1997 RA	* 1997 09 01.43303	21 53 26.99	-24 16 37.6	18.4 V	566
1997 QN ₂	1997 09 02.53165	22 15 03.01	-21 13 21.1	18.0 V	566	1997 RA	1997 09 01.44339	21 53 26.64	-24 16 36.6	18.7 V	566
1997 QN ₂	1997 09 02.54125	22 15 02.60	-21 13 24.2	18.1 V	566	1997 RA	1997 09 01.45306	21 53 26.25	-24 16 35.9	18.7 V	566
1997 QN ₂	1997 09 02.55149	22 15 02.14	-21 13 27.2	18.6 V	566	1997 RA	1997 09 02.38645	21 52 56.26	-24 15 26.1	18.4 V	566
1997 QO ₂	* 1997 08 30.51343	22 20 43.30	-20 19 24.8	18.3 V	566	1997 RA	1997 09 02.39652	21 52 55.82	-24 15 25.2	18.6 V	566
1997 QO ₂	1997 08 30.52314	22 20 42.88	-20 19 38.4	18.2 V	566	1997 RA	1997 09 02.40642	21 52 55.42	-24 15 24.4	18.3 V	566
1997 QO ₂	1997 08 30.53307	22 20 42.44	-20 19 53.3	18.6 V	566	1997 RJ	* 1997 09 01.45802	21 38 12.48	-12 22 51.7	18.1 V	566
1997 QO ₂	1997 09 01.47091	22 19 28.02	-21 06 32.3	18.1 V	566	1997 RJ	1997 09 01.46786	21 38 11.36	-12 22 41.2	18.0 V	566
1997 QO ₂	1997 09 01.48059	22 19 27.64	-21 06 46.0	17.8 V	566	1997 RJ	1997 09 01.47741	21 38 10.32	-12 22 30.1	18.4 V	566
1997 QO ₂	1997 09 01.49038	22 19 27.26	-21 06 59.7	18.0 V	566	1997 RJ	1997 09 02.38371	21 36 33.50	-12 05 57.7	18.1 V	566
1997 QO ₂	1997 09 02.53165	22 18 47.56	-21 31 31.9	18.1 V	566	1997 RJ	1997 09 02.39374	21 36 32.35	-12 05 46.6	18.3 V	566
1997 QO ₂	1997 09 02.54125	22 18 47.20	-21 31 45.0	18.0 V	566	1997 RJ	1997 09 02.40363	21 36 31.22	-12 05 35.4	18.7 V	566
1997 QO ₂	1997 09 02.55149	22 18 46.76	-21 31 59.3	18.6 V	566	1997 RK	* 1997 09 01.36551	21 47 08.84	-04 48 28.7	18.4 V	566
1997 QP ₂	* 1997 08 30.54182	21 55 17.36	-05 36 37.3	18.5 V	566	1997 RK	1997 09 01.37563	21 47 08.32	-04 48 33.3	18.4 V	566
1997 QP ₂	1997 08 30.55174	21 55 15.78	-05 36 22.4	18.2 V	566	1997 RK	1997 09 01.38563	21 47 07.83	-04 48 38.0	18.3 V	566
1997 QP ₂	1997 08 30.56222	21 55 14.16	-05 36 05.9	18.6 V	566	1997 RK	1997 09 02.38470	21 46 19.29	-04 56 12.1	18.2 V	566
1997 QP ₂	1997 09 01.36551	21 50 45.16	-04 50 39.3	18.3 V	566	1997 RK	1997 09 02.39462	21 46 18.81	-04 56 16.9	18.2 V	566
1997 QP ₂	1997 09 01.37563	21 50 43.61	-04 50 23.9	18.5 V	566	1997 RK	1997 09 02.40458	21 46 18.33	-04 56 21.2	18.2 V	566
1997 QP ₂	1997 09 01.38563	21 50 42.03	-04 50 08.8	18.3 V	566	1997 RL	* 1997 09 01.42868	21 53 04.55	-06 11 39.9	18.4 V	566
1997 QD ₃	* 1997 08 30.54182	21 52 51.82	-06 26 17.4	17.0 V	566	1997 RL	1997 09 01.43841	21 53 04.17	-06 11 45.1	18.4 V	566
1997 QD ₃	1997 08 30.55174	21 52 51.31	-06 26 17.6	17.0 V	566	1997 RL	1997 09 01.44919	21 53 03.70	-06 11 51.0	18.3 V	566
1997 QD ₃	1997 08 30.56222	21 52 50.76	-06 26 18.4	17.3 V	566	1997 RL	1997 09 02.38559	21 52 26.98	-06 20 21.0	18.4 V	566
1997 QD ₃	1997 09 02.38559	21 50 29.84	-06 29 13.4	16.8 V	566	1997 RL	1997 09 02.39565	21 52 26.54	-06 20 26.4	18.5 V	566
1997 QD ₃	1997 09 02.39565	21 50 29.33	-06 29 14.1	16.9 V	566	1997 RL	1997 09 02.40548	21 52 26.13	-06 20 32.2	18.2 V	566
1997 QD ₃	1997 09 02.40548	21 50 28.82	-06 29 14.6	16.9 V	566	1997 RM	* 1997 09 01.43303	21 53 28.89	-24 33 38.4	18.4 V	566

1997 RM	1997 09 01.44339	21 53 28.23	-24 33 40.8	18.4 V	566	6039 P-L	1996 04 20.60774	16 46 16.82	-12 21 12.5	19.5 V	566
1997 RM	1997 09 01.45306	21 53 27.70	-24 33 42.7	18.7 V	566	9002 P-L	1997 08 30.61800	22 27 31.83	+05 51 42.3	18.0 V	566
1997 RM	1997 09 02.38645	21 52 34.94	-24 37 06.5	18.5 V	566	9002 P-L	1997 08 30.62818	22 27 31.38	+05 51 37.4	18.1 V	566
1997 RM	1997 09 02.39652	21 52 34.34	-24 37 09.2	18.1 V	566	9002 P-L	1997 08 30.63779	22 27 30.97	+05 51 33.3	18.3 V	566
1997 RM	1997 09 02.40642	21 52 33.74	-24 37 11.9	18.3 V	566	9062 P-L	1997 09 01.45952	21 34 50.86	-09 41 40.9	16.7 V	566
1997 RN	* 1997 09 01.43303	21 55 12.13	-24 46 31.6	16.4 V	566	9062 P-L	1997 09 01.46933	21 34 50.38	-09 41 43.6	16.6 V	566
1997 RN	1997 09 01.44339	21 55 11.72	-24 46 37.1	16.4 V	566	9062 P-L	1997 09 01.47899	21 34 49.93	-09 41 46.0	16.8 V	566
1997 RN	1997 09 01.45306	21 55 11.28	-24 46 42.2	16.4 V	566	9094 P-L	1997 09 01.37064	19 52 25.11	-05 45 08.4	18.2 V	566
1997 RN	1997 09 02.38645	21 54 36.19	-24 55 00.3	16.9 V	566	9094 P-L	1997 09 01.38083	19 52 25.03	-05 45 14.1	18.0 V	566
1997 RN	1997 09 02.39652	21 54 35.79	-24 55 05.8	16.8 V	566	9094 P-L	1997 09 01.39090	19 52 24.95	-05 45 20.1	18.6 V	566
1997 RN	1997 09 02.40642	21 54 35.42	-24 55 11.1	16.7 V	566	4234 T-2	1996 10 11.58391	01 42 21.68	+09 50 12.8	16.8 V	566
1997 RO	* 1997 09 01.45802	21 36 34.85	-12 16 01.9	18.4 V	566	4234 T-2	1996 10 11.59233	01 42 21.26	+09 50 11.1	16.8 V	566
1997 RO	1997 09 01.46786	21 36 34.41	-12 16 05.7	18.4 V	566	4234 T-2	1996 10 11.60072	01 42 20.87	+09 50 09.6	16.6 V	566
1997 RO	1997 09 01.47741	21 36 34.04	-12 16 09.4	18.3 V	566	2078 T-3	1997 09 02.53243	22 15 30.65	-12 55 35.0	17.2 V	566
1997 RO	1997 09 02.38371	21 35 57.74	-12 21 44.0	18.4 V	566	2078 T-3	1997 09 02.54199	22 15 30.10	-12 55 36.3	17.2 V	566
1997 RO	1997 09 02.39374	21 35 57.36	-12 21 47.4	18.0 V	566	2078 T-3	1997 09 02.55235	22 15 29.53	-12 55 37.6	17.1 V	566
1997 RO	1997 09 02.40363	21 35 56.90	-12 21 50.9	18.3 V	566	(1)	1997 09 02.53482	22 56 00.84	-23 36 38.4	8.6 V	566
1997 RP	* 1997 09 01.45877	21 34 38.55	-11 24 36.2	17.5 V	566	(1)	1997 09 02.54430	22 56 00.35	-23 36 41.8	8.6 V	566
1997 RP	1997 09 01.46861	21 34 38.16	-11 24 40.6	17.6 V	566	(1)	1997 09 02.55475	22 55 59.78	-23 36 44.0	8.7 V	566
1997 RP	1997 09 01.47816	21 34 37.79	-11 24 44.5	17.7 V	566	(34)	1997 08 30.43368	20 26 49.48	-13 02 53.3	13.2 V	566
1997 RP	1997 09 02.38371	21 34 07.63	-11 31 05.8	17.7 V	566	(34)	1997 08 30.44514	20 26 49.11	-13 02 56.0	13.2 V	566
1997 RP	1997 09 02.39374	21 34 07.22	-11 31 09.7	17.6 V	566	(34)	1997 08 30.45552	20 26 48.76	-13 02 58.5	13.2 V	566
1997 RP	1997 09 02.40363	21 34 06.86	-11 31 14.1	17.6 V	566	(42)	1997 08 30.27562	15 25 46.49	-18 19 07.8	11.8 V	566
1997 RQ	* 1997 09 01.45877	21 36 09.19	-11 37 46.3	18.4 V	566	(42)	1997 08 30.28531	15 25 47.37	-18 19 12.5	11.8 V	566
1997 RQ	1997 09 01.46861	21 36 08.84	-11 37 48.0	18.2 V	566	(42)	1997 08 30.29507	15 25 48.23	-18 19 18.3	11.9 V	566
1997 RQ	1997 09 01.47816	21 36 08.51	-11 37 50.0	18.3 V	566	(107)	1997 08 30.48761	21 13 59.15	-08 54 19.9	13.0 V	566
1997 RQ	1997 09 02.38371	21 35 37.99	-11 40 35.9	18.7 V	566	(107)	1997 08 30.49732	21 13 58.82	-08 54 22.8	12.9 V	566
1997 RQ	1997 09 02.39374	21 35 37.65	-11 40 38.0	18.5 V	566	(107)	1997 08 30.50701	21 13 58.48	-08 54 25.7	12.8 V	566
1997 RQ	1997 09 02.40363	21 35 37.28	-11 40 39.9	18.5 V	566	(107)	1997 09 01.35969	21 12 57.47	-09 03 43.9	12.6 V	566
1997 RR	* 1997 09 01.47091	22 20 44.61	-20 45 07.9	17.9 V	566	(107)	1997 09 01.36974	21 12 57.15	-09 03 46.9	12.6 V	566
1997 RR	1997 09 01.48059	22 20 43.98	-20 45 09.9	17.8 V	566	(107)	1997 09 01.38001	21 12 56.79	-09 03 49.9	12.7 V	566
1997 RR	1997 09 01.49038	22 20 43.35	-20 45 12.1	17.8 V	566	(110)	1997 08 30.27420	15 13 55.15	-19 34 03.2	13.3 V	566
1997 RR	1997 09 02.53165	22 19 37.65	-20 48 53.1	18.2 V	566	(110)	1997 08 30.28388	15 13 55.84	-19 34 06.3	13.4 V	566
1997 RR	1997 09 02.54125	22 19 37.03	-20 48 54.9	18.0 V	566	(110)	1997 08 30.29354	15 13 56.46	-19 34 09.2	13.3 V	566
1997 RR	1997 09 02.55149	22 19 36.38	-20 48 57.1	18.0 V	566	(110)	1997 09 02.25129	15 17 28.70	-19 50 19.0	13.3 V	566
1997 RS	* 1997 09 01.47091	22 21 42.22	-21 06 59.5	17.7 V	566	(110)	1997 09 02.26168	15 17 29.45	-19 50 22.1	13.3 V	566
1997 RS	1997 09 01.48059	22 21 41.69	-21 07 03.0	17.6 V	566	(110)	1997 09 02.27151	15 17 30.18	-19 50 26.0	13.4 V	566
1997 RS	1997 09 01.49038	22 21 41.10	-21 07 06.6	17.7 V	566	(114)	1997 08 03.26060	15 01 50.40	-11 24 23.6	13.5 V	566
1997 RS	1997 09 02.53165	22 20 43.46	-21 13 12.4	17.6 V	566	(114)	1997 08 03.27109	15 01 50.88	-11 24 27.2	13.5 V	566
1997 RS	1997 09 02.54125	22 20 42.91	-21 13 15.8	17.8 V	566	(114)	1997 08 03.28101	15 01 51.36	-11 24 29.9	13.5 V	566
1997 RS	1997 09 02.55149	22 20 42.33	-21 13 19.3	17.9 V	566	(119)	1997 09 02.24736	16 58 12.49	-16 22 43.1	13.4 V	566
1997 RD ₁	* 1997 09 02.51881	21 33 44.34	-03 54 02.2	16.7 V	566	(119)	1997 09 02.25656	16 58 12.94	-16 22 44.8	13.3 V	566
1997 RD ₁	1997 09 02.52839	21 33 44.44	-03 54 15.6	16.9 V	566	(119)	1997 09 02.26696	16 58 13.43	-16 22 46.6	13.3 V	566
1997 RD ₁	1997 09 02.53818	21 33 44.52	-03 54 29.1	16.8 V	566	(170)	1997 08 03.58838	20 37 02.07	-15 23 11.0	12.8 V	566
1997 RM ₁	* 1997 09 02.38143	20 25 19.27	-26 36 55.1	16.4 V	566	(170)	1997 08 03.59780	20 37 01.42	-15 23 10.9	12.8 V	566
1997 RM ₁	1997 09 02.39126	20 25 19.48	-26 36 49.1	16.5 V	566	(170)	1997 08 03.61241	20 37 00.45	-15 23 09.5	12.9 V	566
1997 RM ₁	1997 09 02.40134	20 25 19.70	-26 36 42.9	16.4 V	566	(170)	1997 09 02.41333	20 11 46.05	-14 41 28.9	13.5 V	566
4668 P-L	1997 09 01.43303	21 57 05.10	-24 08 08.2	18.5 V	566	(170)	1997 09 02.42289	20 11 45.75	-14 41 27.9	13.5 V	566
4668 P-L	1997 09 01.44339	21 57 04.45	-24 08 09.6	18.7 V	566	(170)	1997 09 02.43286	20 11 45.41	-14 41 26.8	13.5 V	566
4668 P-L	1997 09 01.45306	21 57 03.86	-24 08 09.8	18.5 V	566	(181)	1997 09 02.50217	21 49 05.92	-15 41 43.9	13.3 V	566
6039 P-L	1996 04 20.49811	16 46 19.54	-12 21 40.6	19.7 V	566	(181)	1997 09 02.50293	21 49 05.87	-15 41 44.2	13.0 V	566
6039 P-L	1996 04 20.51677	16 46 19.10	-12 21 36.1	19.5 V	566	(181)	1997 09 02.51180	21 49 05.52	-15 41 47.9	13.3 V	566

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(181)	1997 09 02.51254	21 49 05.49	-15 41 48.2	13.0 V	566	(561)	1997 08 30.44893	20 31 54.59	-17 57 18.4	17.6 V	566
(181)	1997 09 02.52191	21 49 05.12	-15 41 52.6	13.2 V	566	(561)	1997 08 30.44975	20 31 54.54	-17 57 18.1	17.4 V	566
(181)	1997 09 02.52266	21 49 05.08	-15 41 52.9	13.0 V	566	(577)	1997 08 03.25501	13 26 15.60	-14 23 37.1	15.1 V	566
(202)	1997 08 30.46689	21 23 37.92	-16 46 26.3	12.6 V	566	(577)	1997 08 03.26448	13 26 16.15	-14 23 40.0	15.2 V	566
(202)	1997 08 30.47658	21 23 37.54	-16 46 29.2	12.6 V	566	(577)	1997 08 03.27491	13 26 16.79	-14 23 42.7	15.2 V	566
(202)	1997 08 30.48674	21 23 37.13	-16 46 32.0	12.6 V	566	(611)	1997 09 02.25352	17 01 25.90	-08 15 52.7	15.6 V	566
(259)	1997 08 03.25983	15 01 23.40	-12 51 08.1	13.2 V	566	(611)	1997 09 02.26395	17 01 26.22	-08 15 55.5	15.6 V	566
(259)	1997 08 03.26964	15 01 23.80	-12 51 12.2	13.2 V	566	(611)	1997 09 02.27405	17 01 26.49	-08 15 58.1	15.6 V	566
(259)	1997 08 03.27954	15 01 24.18	-12 51 16.4	13.2 V	566	(627)	1997 08 03.26060	15 04 43.04	-10 07 25.0	15.5 V	566
(265)	1997 09 02.53243	22 11 53.16	-12 08 52.8	15.1 V	566	(627)	1997 08 03.27109	15 04 43.44	-10 07 28.3	15.5 V	566
(265)	1997 09 02.54199	22 11 52.37	-12 08 50.2	15.1 V	566	(627)	1997 08 03.28101	15 04 43.81	-10 07 31.7	15.5 V	566
(265)	1997 09 02.55235	22 11 51.53	-12 08 47.6	15.2 V	566	(668)	1997 08 30.61457	22 29 34.97	+02 03 08.0	14.5 V	566
(311)	1997 08 30.60596	07 14 36.43	+22 49 21.7	16.4 V	566	(668)	1997 08 30.62477	22 29 34.54	+02 03 03.8	14.5 V	566
(311)	1997 08 30.61625	07 14 37.34	+22 49 20.6	16.3 V	566	(668)	1997 08 30.63459	22 29 34.10	+02 02 59.8	14.5 V	566
(311)	1997 08 30.62645	07 14 38.23	+22 49 19.6	16.0 V	566	(674)	1997 08 03.55239	21 00 49.66	-35 46 16.2	12.7 V	566
(313)	1997 09 02.51103	21 33 48.84	-05 43 21.2	13.2 V	566	(674)	1997 08 03.56280	21 00 49.05	-35 46 18.9	12.7 V	566
(313)	1997 09 02.52113	21 33 48.37	-05 43 26.2	13.3 V	566	(674)	1997 08 03.57294	21 00 48.48	-35 46 21.0	12.8 V	566
(313)	1997 09 02.53085	21 33 47.90	-05 43 31.2	13.3 V	566	(722)	1997 08 03.51488	20 02 24.55	-32 36 17.2	14.0 V	566
(314)	1997 09 02.50712	21 39 23.95	-06 38 55.0	13.8 V	566	(722)	1997 08 03.52564	20 02 23.84	-32 36 18.3	14.1 V	566
(314)	1997 09 02.51652	21 39 23.61	-06 39 00.1	13.8 V	566	(722)	1997 08 03.53537	20 02 23.23	-32 36 19.0	14.1 V	566
(314)	1997 09 02.52683	21 39 23.24	-06 39 05.7	13.8 V	566	(760)	1997 09 02.56355	22 24 39.56	-08 35 37.8	13.4 V	566
(321)	1997 08 30.27420	15 14 35.36	-19 18 55.2	16.4 V	566	(760)	1997 09 02.57362	22 24 39.09	-08 35 39.3	13.4 V	566
(321)	1997 08 30.28388	15 14 35.95	-19 18 58.2	16.5 V	566	(760)	1997 09 02.58379	22 24 38.62	-08 35 40.4	13.4 V	566
(321)	1997 08 30.29354	15 14 36.53	-19 19 00.4	16.1 V	566	(774)	1997 09 02.38470	21 45 32.03	-04 13 57.9	12.9 V	566
(321)	1997 09 02.25129	15 17 44.48	-19 31 17.2	16.4 V	566	(774)	1997 09 02.39462	21 45 31.59	-04 14 00.6	13.1 V	566
(321)	1997 09 02.26168	15 17 45.15	-19 31 19.8	16.3 V	566	(774)	1997 09 02.40458	21 45 31.17	-04 14 03.2	13.0 V	566
(321)	1997 09 02.27151	15 17 45.81	-19 31 22.2	16.2 V	566	(777)	1997 08 03.53619	19 48 43.63	-15 51 40.0	15.1 V	566
(325)	1997 08 03.48013	19 11 40.16	-31 52 20.8	14.1 V	566	(777)	1997 08 03.54625	19 48 43.16	-15 51 40.1	15.1 V	566
(325)	1997 08 03.49335	19 11 39.53	-31 52 19.8	14.1 V	566	(777)	1997 08 03.55731	19 48 42.61	-15 51 39.8	15.1 V	566
(325)	1997 08 03.50346	19 11 39.06	-31 52 18.9	14.2 V	566	(805)	1997 08 30.48919	21 11 31.29	-06 36 22.9	13.7 V	566
(362)	1997 08 31.23578	15 14 30.74	-23 55 35.1	14.8 V	566	(805)	1997 08 30.49881	21 11 30.98	-06 36 28.8	13.7 V	566
(362)	1997 08 31.24538	15 14 31.46	-23 55 37.4	14.7 V	566	(805)	1997 08 30.50849	21 11 30.70	-06 36 34.8	13.7 V	566
(362)	1997 08 31.25500	15 14 32.14	-23 55 39.7	14.7 V	566	(846)	1997 08 30.27562	15 24 19.81	-18 42 18.3	18.3 V	566
(380)	1997 08 30.51343	22 18 00.66	-20 11 10.1	12.6 V	566	(846)	1997 08 30.28531	15 24 20.24	-18 42 20.1	18.2 V	566
(380)	1997 08 30.52314	22 18 00.18	-20 11 13.1	12.6 V	566	(846)	1997 08 30.29507	15 24 20.66	-18 42 21.1	17.5 V	566
(380)	1997 08 30.53307	22 17 59.65	-20 11 16.4	12.6 V	566	(846)	1997 09 02.25280	15 26 41.09	-18 50 43.4	17.3 V	566
(383)	1997 08 30.51988	22 11 08.57	-14 53 11.2	14.1 V	566	(846)	1997 09 02.26318	15 26 41.59	-18 50 45.2	17.3 V	566
(383)	1997 08 30.52974	22 11 08.11	-14 53 13.8	14.1 V	566	(846)	1997 09 02.27329	15 26 42.03	-18 50 46.5	17.4 V	566
(383)	1997 08 30.53929	22 11 07.67	-14 53 16.4	14.1 V	566	(871)	1997 09 01.40090	20 51 04.55	-15 40 41.7	15.7 V	566
(435)	1997 08 03.29651	15 41 27.15	-21 38 15.7	14.7 V	566	(871)	1997 09 01.41102	20 51 04.20	-15 40 44.7	15.7 V	566
(435)	1997 08 03.30917	15 41 27.62	-21 38 17.8	14.6 V	566	(871)	1997 09 01.42102	20 51 03.80	-15 40 47.7	15.7 V	566
(435)	1997 08 03.31996	15 41 27.93	-21 38 18.7	14.6 V	566	(948)	1997 08 30.51837	22 13 43.89	-16 38 00.1	16.7 V	566
(482)	1997 08 30.54674	21 48 02.98	-01 59 07.2	12.9 V	566	(948)	1997 08 30.52819	22 13 43.40	-16 38 01.6	16.6 V	566
(482)	1997 08 30.55636	21 48 02.59	-01 59 12.4	13.0 V	566	(948)	1997 08 30.53768	22 13 42.96	-16 38 02.7	16.7 V	566
(482)	1997 08 30.56757	21 48 02.13	-01 59 18.4	13.0 V	566	(1017)	1997 09 02.54505	22 44 51.22	-16 21 46.5	15.0 V	566
(513)	1997 09 02.51103	21 36 00.51	-05 23 34.9	13.7 V	566	(1017)	1997 09 02.55570	22 44 50.69	-16 21 50.8	15.1 V	566
(513)	1997 09 02.52113	21 36 00.13	-05 23 39.0	13.7 V	566	(1017)	1997 09 02.56536	22 44 50.19	-16 21 54.6	15.2 V	566
(513)	1997 09 02.53085	21 35 59.73	-05 23 43.0	13.7 V	566	(1032)	1997 08 30.57262	23 10 22.29	-20 51 14.1	14.3 V	566
(561)	1997 08 30.42748	20 31 55.30	-17 57 15.7	17.2 V	566	(1032)	1997 08 30.58267	23 10 21.82	-20 51 17.3	14.4 V	566
(561)	1997 08 30.42827	20 31 55.28	-17 57 15.2	17.0 V	566	(1032)	1997 08 30.59282	23 10 21.33	-20 51 20.2	14.4 V	566
(561)	1997 08 30.43858	20 31 54.92	-17 57 16.2	17.5 V	566	(1043)	1997 08 30.48347	21 17 08.32	-12 06 25.6	14.1 V	566
(561)	1997 08 30.43938	20 31 54.92	-17 57 16.6	17.1 V	566	(1043)	1997 08 30.49314	21 17 07.99	-12 06 29.2	14.1 V	566

(1043)	1997 08 30.50292	21 17 07.61	-12 06 32.5	14.1 V	566	(1435)	1996 10 11.57961	01 43 35.65	+08 56 07.8	15.1 V	566
(1050)	1997 09 02.44322	21 10 22.81	-23 11 18.3	16.2 V	566	(1435)	1996 10 11.58801	01 43 35.23	+08 56 04.1	15.0 V	566
(1050)	1997 09 02.45352	21 10 22.27	-23 11 16.4	16.1 V	566	(1435)	1996 10 11.59644	01 43 34.81	+08 56 00.6	15.0 V	566
(1050)	1997 09 02.46317	21 10 21.73	-23 11 14.7	16.0 V	566	(1564)	1997 08 30.54269	21 50 51.32	-04 44 42.9	14.9 V	566
(1068)	1997 08 30.60776	07 28 17.41	+25 06 26.7	17.3 V	566	(1564)	1997 08 30.55256	21 50 50.90	-04 44 47.4	14.9 V	566
(1068)	1997 08 30.61716	07 28 18.21	+25 06 25.5	17.4 V	566	(1564)	1997 08 30.56311	21 50 50.46	-04 44 52.0	15.1 V	566
(1068)	1997 08 30.62722	07 28 19.08	+25 06 23.4	17.4 V	566	(1564)	1997 09 01.36551	21 49 37.80	-04 58 37.7	14.9 V	566
(1083)	1997 09 01.37231	21 32 06.37	-22 19 30.0	16.0 V	566	(1564)	1997 09 01.37563	21 49 37.39	-04 58 42.3	14.9 V	566
(1083)	1997 09 01.38243	21 32 05.79	-22 19 32.0	15.9 V	566	(1564)	1997 09 01.38563	21 49 36.97	-04 58 46.8	14.9 V	566
(1083)	1997 09 01.39254	21 32 05.26	-22 19 34.4	16.0 V	566	(1564)	1997 09 01.42868	21 49 35.13	-04 59 06.0	15.0 V	566
(1083)	1997 09 02.47497	21 31 07.62	-22 23 31.0	16.4 V	566	(1564)	1997 09 01.43841	21 49 34.74	-04 59 10.2	15.0 V	566
(1083)	1997 09 02.48537	21 31 07.04	-22 23 33.1	16.7 V	566	(1564)	1997 09 01.44919	21 49 34.27	-04 59 15.5	15.0 V	566
(1083)	1997 09 02.49566	21 31 06.48	-22 23 35.2	16.5 V	566	(1564)	1997 09 02.38470	21 48 57.15	-05 06 26.2	14.9 V	566
(1094)	1997 09 02.53243	22 10 10.70	-13 09 24.5	15.5 V	566	(1564)	1997 09 02.39462	21 48 56.73	-05 06 30.7	14.9 V	566
(1094)	1997 09 02.54199	22 10 10.24	-13 09 30.0	15.5 V	566	(1564)	1997 09 02.40458	21 48 56.31	-05 06 35.4	14.9 V	566
(1094)	1997 09 02.55235	22 10 09.74	-13 09 35.6	15.5 V	566	(1570)	1996 10 11.58391	01 42 58.20	+09 59 46.5	15.0 V	566
(1106)	1997 08 03.56907	20 49 56.40	-25 03 49.4	15.5 V	566	(1570)	1996 10 11.59233	01 42 57.79	+09 59 43.8	15.1 V	566
(1106)	1997 08 03.58112	20 49 55.57	-25 03 48.4	15.5 V	566	(1570)	1996 10 11.60072	01 42 57.38	+09 59 41.1	15.0 V	566
(1106)	1997 08 03.59079	20 49 54.92	-25 03 48.1	15.6 V	566	(1618)	1997 08 30.51988	22 07 53.57	-15 31 22.7	15.6 V	566
(1106)	1997 09 02.38217	20 23 35.67	-23 52 40.3	16.2 V	566	(1618)	1997 08 30.52974	22 07 53.10	-15 31 25.7	15.7 V	566
(1106)	1997 09 02.39209	20 23 35.31	-23 52 38.1	16.2 V	566	(1618)	1997 08 30.53929	22 07 52.60	-15 31 28.6	15.6 V	566
(1106)	1997 09 02.40209	20 23 34.97	-23 52 35.8	16.4 V	566	(1645)	1997 08 01.55588	20 19 17.08	-18 35 46.8	15.0 V	566
(1129)	1997 08 03.59465	20 33 59.14	-10 14 20.0	14.5 V	566	(1645)	1997 08 01.56994	20 19 16.39	-18 35 48.5	15.1 V	566
(1129)	1997 08 03.60644	20 33 58.51	-10 14 20.7	14.5 V	566	(1645)	1997 08 01.57977	20 19 15.87	-18 35 49.9	15.1 V	566
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(1169)	1997 09 02.50712	21 36 01.41	-07 07 52.6	16.3 V	566	(1679)	1997 09 01.25692	17 08 07.46	-02 46 41.2	16.2 V	566
(1169)	1997 09 02.51652	21 36 00.89	-07 07 55.3	16.4 V	566	(1679)	1997 09 01.26674	17 08 07.90	-02 46 46.1	15.8 V	566
(1169)	1997 09 02.52683	21 36 00.34	-07 07 58.4	16.2 V	566	(1734)	1997 08 30.43517	20 22 51.64	-09 31 05.3	15.2 V	566
(1183)	1997 09 02.40738	20 52 36.67	-21 21 35.5	15.9 V	566	(1734)	1997 08 30.44661	20 22 51.34	-09 31 10.4	15.2 V	566
(1183)	1997 09 02.41745	20 52 36.26	-21 21 35.8	15.8 V	566	(1734)	1997 08 30.45734	20 22 51.08	-09 31 14.9	15.1 V	566
(1183)	1997 09 02.42753	20 52 35.88	-21 21 36.2	15.8 V	566	(1783)	1997 08 03.59931	20 25 44.83	-03 42 13.7	16.4 V	566
(1187)	1997 09 01.39785	20 58 10.35	-18 43 48.8	15.1 V	566	(1783)	1997 08 03.61400	20 25 44.16	-03 42 17.1	16.3 V	566
(1187)	1997 09 01.40781	20 58 09.83	-18 43 47.6	15.1 V	566	(1783)	1997 08 03.62585	20 25 43.47	-03 42 22.1	16.9 V	566
(1187)	1997 09 01.41828	20 58 09.31	-18 43 46.1	15.2 V	566	(1783)	1997 09 02.41901	20 06 40.20	-06 41 43.1	17.3 V	566
(1308)	1997 09 01.39629	21 02 00.14	-21 38 27.9	15.7 V	566	(1783)	1997 09 02.42905	20 06 39.99	-06 41 46.7	17.3 V	566
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(1308)	1997 09 01.41675	21 01 59.30	-21 38 28.0	15.6 V	566	(1893)	1997 08 30.39883	20 49 32.75	-33 11 46.9	16.1 V	566
(1310)	1997 09 02.53657	22 50 29.73	-21 28 45.3	14.8 V	566	(1893)	1997 08 30.40863	20 49 32.37	-33 11 46.8	16.2 V	566
(1310)	1997 09 02.54660	22 50 28.85	-21 28 44.8	14.8 V	566	(1893)	1997 08 30.41907	20 49 31.94	-33 11 46.5	16.1 V	566
(1310)	1997 09 02.55726	22 50 27.90	-21 28 44.0	14.8 V	566	(1902)	1997 08 01.58964	21 34 47.21	-33 03 08.9	14.0 V	566
(1319)	1997 09 02.46728	20 56 07.52	-13 33 36.4	15.8 V	566	(1902)	1997 08 01.59907	21 34 46.83	-33 03 11.7	14.0 V	566
(1319)	1997 09 02.47742	20 56 07.17	-13 33 38.0	15.7 V	566	(1902)	1997 08 01.61280	21 34 46.22	-33 03 15.5	14.0 V	566
(1319)	1997 09 02.48785	20 56 06.81	-13 33 39.8	15.7 V	566	(1914)	1997 09 01.39711	21 00 11.18	-21 15 50.1	15.0 V	566
(1354)	1997 08 30.46048	21 32 05.19	-23 39 06.2	14.7 V	566	(1914)	1997 09 01.40704	21 00 10.84	-21 15 52.4	14.9 V	566
(1354)	1997 08 30.47001	21 32 04.75	-23 39 06.3	14.7 V	566	(1914)	1997 09 01.41750	21 00 10.52	-21 15 55.3	15.0 V	566
(1354)	1997 08 30.48033	21 32 04.31	-23 39 06.7	14.7 V	566	(2003)	1997 09 01.44190	21 40 48.50	-16 38 49.5	17.5 V	566
(1413)	1997 08 30.48837	21 13 12.66	-07 15 14.7	16.3 V	566	(2003)	1997 09 01.45151	21 40 48.10	-16 38 51.4	17.6 V	566
(1413)	1997 08 30.49806	21 13 12.28	-07 15 18.3	16.1 V	566	(2003)	1997 09 01.46115	21 40 47.66	-16 38 53.5	17.6 V	566
(1413)	1997 08 30.50775	21 13 11.92	-07 15 21.8	16.1 V	566	(2032)	1997 09 02.56111	22 30 27.68	-11 29 23.7	15.1 V	566
(1421)	1997 08 03.46803	19 10 25.81	-35 45 28.9	15.6 V	566	(2032)	1997 09 02.57114	22 30 27.23	-11 29 26.2	15.2 V	566
(1421)	1997 08 03.47938	19 10 25.37	-35 45 28.9	15.4 V	566	(2032)	1997 09 02.58058	22 30 26.77	-11 29 28.2	15.2 V	566
(1421)	1997 08 03.49260	19 10 24.79	-35 45 26.9	15.6 V	566	(2100)	1997 08 30.54090	01 41 09.28	+15 12 57.8	15.5 V	566

1997 SEPT.16

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(2100)	1997 08 30.55086	01 41 08.59	+15 12 32.3	15.4 V	566	(2681)	1997 09 02.46476	21 09 21.42	-21 59 07.0	17.6 V	566
(2100)	1997 08 30.56135	01 41 07.84	+15 12 05.2	15.5 V	566	(2716)	1997 09 01.46351	21 28 25.75	-04 21 09.9	16.4 V	566
(2121)	1997 08 30.58501	22 48 15.75	-09 52 44.7	13.7 V	566	(2716)	1997 09 01.47324	21 28 25.30	-04 21 13.9	16.5 V	566
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(2121)	1997 08 30.60505	22 48 14.71	-09 52 55.8	13.6 V	566	(2719)	1997 09 02.41051	20 18 39.20	-19 50 37.7	16.3 V	566
(2123)	1997 09 01.45711	21 37 30.69	-13 42 23.7	15.6 V	566	(2719)	1997 09 02.42054	20 18 38.86	-19 50 38.9	16.4 V	566
(2123)	1997 09 01.46698	21 37 30.25	-13 42 25.7	15.5 V	566	(2719)	1997 09 02.43055	20 18 38.46	-19 50 38.4	15.9 V	566
(2123)	1997 09 01.47667	21 37 29.78	-13 42 27.5	15.5 V	566	(2794)	1997 09 01.45711	21 40 40.39	-14 06 17.6	16.0 V	566
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(2168)	1997 09 01.45877	21 35 07.78	-11 43 01.4	15.4 V	566	(2828)	1997 08 30.58955	22 55 01.32	-13 11 44.7	16.2 V	566
(2168)	1997 09 01.46861	21 35 07.18	-11 43 02.2	15.6 V	566	(2828)	1997 08 30.60016	22 55 00.69	-13 11 48.8	16.1 V	566
(2168)	1997 09 01.47816	21 35 06.68	-11 43 02.8	15.4 V	566	(2886)	1997 09 02.50293	21 45 49.74	-15 02 49.3	16.6 V	566
(2168)	1997 09 02.38371	21 34 24.77	-11 43 57.1	15.9 V	566	(2886)	1997 09 02.51254	21 45 49.22	-15 02 51.7	16.7 V	566
(2168)	1997 09 02.39374	21 34 24.26	-11 43 57.9	15.7 V	566	(2886)	1997 09 02.52266	21 45 48.67	-15 02 54.8	16.6 V	566
(2168)	1997 09 02.40363	21 34 23.78	-11 43 58.4	15.5 V	566	(2887)	1997 08 03.29882	15 48 41.90	-16 48 27.5	16.6 V	566
(2197)	1997 09 02.55954	22 32 43.09	-12 54 19.9	16.9 V	566	(2887)	1997 08 03.31161	15 48 42.71	-16 48 33.7	16.3 V	566
(2197)	1997 09 02.56937	22 32 42.64	-12 54 22.3	16.8 V	566	(2887)	1997 08 03.32226	15 48 43.34	-16 48 37.0	16.4 V	566
(2197)	1997 09 02.57908	22 32 42.21	-12 54 24.4	16.7 V	566	(2896)	1997 08 30.54006	21 56 14.15	-08 08 27.0	14.4 V	566
(2298)	1997 08 30.61048	22 34 16.39	-01 43 27.3	15.1 V	566	(2896)	1997 08 30.54994	21 56 13.71	-08 08 32.7	14.4 V	566
(2298)	1997 08 30.62047	22 34 15.91	-01 43 31.9	15.1 V	566	(2896)	1997 08 30.55977	21 56 13.27	-08 08 38.8	14.4 V	566
(2298)	1997 08 30.63054	22 34 15.47	-01 43 36.7	15.1 V	566	(2966)	1997 08 30.58031	22 50 59.39	-11 42 03.5	16.8 V	566
(2318)	1997 09 01.45711	21 36 48.61	-13 48 59.3	16.4 V	566	(2966)	1997 08 30.59032	22 50 58.81	-11 42 06.5	16.8 V	566
(2318)	1997 09 01.46698	21 36 48.11	-13 49 03.4	16.4 V	566	(2966)	1997 08 30.60099	22 50 58.24	-11 42 10.0	16.9 V	566
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(2343)	1997 08 30.61209	22 40 48.08	-04 37 25.9	14.7 V	566	(2996)	1997 09 02.62753	07 11 37.57	+25 17 52.7	18.4 V	566
(2343)	1997 08 30.62207	22 40 47.59	-04 37 28.9	14.8 V	566	(3064)	1997 08 30.58577	22 45 08.41	-08 02 57.6	18.0 V	566
(2377)	1997 08 03.53370	19 55 22.10	-19 50 14.2	16.8 V	566	(3064)	1997 08 30.59598	22 45 07.87	-08 03 01.8	17.9 V	566
(2377)	1997 08 03.54469	19 55 21.58	-19 50 14.8	16.7 V	566	(3064)	1997 08 30.60682	22 45 07.25	-08 03 05.5	18.0 V	566
(2377)	1997 08 03.55565	19 55 21.08	-19 50 17.1	16.9 V	566	(3114)	1996 10 11.57961	01 44 17.94	+08 57 28.3	15.9 V	566
(2391)	1997 09 01.45802	21 33 44.78	-13 08 00.0	16.4 V	566	(3114)	1996 10 11.58391	01 44 17.71	+08 57 26.6	16.1 V	566
(2391)	1997 09 01.46786	21 33 44.29	-13 08 03.1	16.4 V	566	(3114)	1996 10 11.58801	01 44 17.45	+08 57 24.9	15.9 V	566
(2391)	1997 09 01.47741	21 33 43.79	-13 08 06.3	16.4 V	566	(3114)	1996 10 11.59233	01 44 17.23	+08 57 23.2	16.1 V	566
(2473)	1997 09 02.56619	22 23 00.73	-05 09 02.4	15.9 V	566	(3114)	1996 10 11.59644	01 44 16.95	+08 57 21.7	15.9 V	566
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(2494)	1997 08 31.25655	15 21 51.88	-24 44 08.4	17.5 V	566	(3179)	1997 09 02.56355	22 27 01.88	-08 38 35.4	16.6 V	566
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(2501)	1997 08 30.61716	07 23 48.16	+24 48 20.2	17.9 V	566	(3179)	1997 09 02.58379	22 27 00.98	-08 38 40.8	16.6 V	566
(2501)	1997 08 30.62722	07 23 49.07	+24 48 19.3	18.0 V	566	(3220)	1997 08 30.40445	20 48 43.13	-28 49 01.8	16.5 V	566
(2650)	1997 09 02.56437	22 27 05.21	-07 01 16.1	13.6 V	566	(3220)	1997 08 30.41462	20 48 42.61	-28 49 00.9	16.4 V	566
(2650)	1997 09 02.57436	22 27 04.54	-07 01 13.7	13.6 V	566	(3220)	1997 08 30.42508	20 48 42.03	-28 48 59.9	16.4 V	566
(2650)	1997 09 02.58460	22 27 03.86	-07 01 11.6	13.6 V	566	(3298)	1997 08 03.53370	19 53 08.23	-19 10 14.4	16.0 V	566
(2675)	1997 09 02.60997	07 25 48.28	+24 13 20.8	17.4 V	566	(3298)	1997 08 03.54469	19 53 07.63	-19 10 14.6	16.0 V	566
(2675)	1997 09 02.62291	07 25 49.84	+24 13 18.4	17.4 V	566	(3298)	1997 08 03.55565	19 53 07.02	-19 10 14.7	16.2 V	566
(2675)	1997 09 02.63298	07 25 51.04	+24 13 15.9	17.3 V	566	(3318)	1997 09 01.48875	22 42 46.23	-21 29 20.3	15.8 V	566
(2681)	1997 09 02.44484	21 09 22.29	-21 59 04.3	17.6 V	566	(3318)	1997 09 01.49894	22 42 45.75	-21 29 24.2	16.8 V	566
(2681)	1997 09 02.45512	21 09 21.83	-21 59 05.6	17.5 V	566	(3318)	1997 09 01.50890	22 42 45.28	-21 29 27.6	16.7 V	566

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(3344)	1997 09 02.26318	15 21 33.82	-18 41 56.5	18.2 V	566	(3755)	1997 08 30.57494	21 39 51.45	+04 05 30.3	14.8 V	566
(3344)	1997 09 02.27329	15 21 34.83	-18 42 01.6	18.7 V	566	(3771)	1997 09 01.40474	20 46 28.03	-09 17 39.7	16.7 V	566
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(3387)	1997 09 02.27405	17 01 53.83	-08 53 13.8	17.2 V	566	(3782)	1997 08 30.54269	21 50 44.04	-04 39 15.5	16.3 V	566
(3394)	1997 08 03.30113	15 52 17.23	-11 20 22.0	17.7 V	566	(3782)	1997 08 30.55256	21 50 43.52	-04 39 18.3	16.2 V	566
(3394)	1997 08 03.31510	15 52 17.86	-11 20 26.6	18.1 V	566	(3782)	1997 08 30.56311	21 50 42.94	-04 39 20.8	16.3 V	566
(3394)	1997 08 03.32457	15 52 18.26	-11 20 29.3	17.9 V	566	(3782)	1997 09 01.36551	21 49 09.34	-04 47 14.9	16.1 V	566
(3507)	1997 09 01.24336	15 17 20.71	-17 17 47.0	17.6 V	566	(3782)	1997 09 01.37563	21 49 08.79	-04 47 17.7	16.0 V	566
(3507)	1997 09 01.25317	15 17 21.45	-17 17 50.6	17.7 V	566	(3782)	1997 09 01.38563	21 49 08.23	-04 47 20.3	16.0 V	566
(3507)	1997 09 01.26294	15 17 22.14	-17 17 54.0	18.4 V	566	(3782)	1997 09 02.38470	21 48 17.33	-04 51 44.3	16.1 V	566
(3530)	1997 08 30.60247	22 43 23.85	-05 25 00.4	15.6 V	566	(3782)	1997 09 02.39462	21 48 16.80	-04 51 46.9	16.2 V	566
(3530)	1997 08 30.61209	22 43 23.39	-05 25 02.9	15.6 V	566	(3782)	1997 09 02.40458	21 48 16.27	-04 51 49.6	16.1 V	566
(3530)	1997 08 30.62207	22 43 22.89	-05 25 05.7	15.9 V	566	(3833)	1997 08 30.54758	21 45 18.73	-00 11 03.6	14.7 V	566
(3542)	1997 09 01.41194	20 42 12.32	-08 13 00.2	17.5 V	566	(3833)	1997 08 30.55712	21 45 19.16	-00 11 22.1	14.7 V	566
(3542)	1997 09 01.42182	20 42 12.01	-08 13 01.5	17.3 V	566	(3833)	1997 08 30.56840	21 45 19.68	-00 11 44.1	14.7 V	566
(3542)	1997 09 01.43220	20 42 11.66	-08 13 02.8	17.4 V	566	(3842)	1997 09 01.39711	20 56 44.10	-19 59 22.3	17.3 V	566
(3543)	1997 09 01.50046	22 19 52.32	-10 10 03.0	17.8 V	566	(3842)	1997 09 01.40704	20 56 43.63	-19 59 22.6	17.2 V	566
(3543)	1997 09 01.51058	22 19 51.85	-10 10 05.8	16.5 V	566	(3842)	1997 09 01.41750	20 56 43.12	-19 59 23.3	17.1 V	566
(3543)	1997 09 01.52014	22 19 51.41	-10 10 08.4	17.0 V	566	(3865)	1997 08 30.45216	20 26 14.12	-08 21 45.2	16.4 V	566
(3547)	1997 09 01.40318	20 49 25.84	-13 01 49.8	17.7 V	566	(3865)	1997 08 30.46209	20 26 13.85	-08 21 48.8	16.2 V	566
(3547)	1997 09 01.41355	20 49 25.43	-13 01 51.0	17.7 V	566	(3865)	1997 08 30.47167	20 26 13.57	-08 21 51.8	16.3 V	566
(3547)	1997 09 01.42372	20 49 25.00	-13 01 52.5	17.8 V	566	(3869)	1997 09 01.35969	21 11 39.68	-08 01 24.7	16.1 V	566
(3584)	1997 09 01.51133	22 22 01.52	-08 27 38.4	17.3 V	566	(3869)	1997 09 01.36974	21 11 39.25	-08 01 27.3	16.0 V	566
(3584)	1997 09 01.52098	22 22 01.05	-08 27 40.6	17.7 V	566	(3869)	1997 09 01.38001	21 11 38.84	-08 01 30.0	16.1 V	566
(3584)	1997 09 01.53071	22 22 00.61	-08 27 42.6	17.9 V	566	(3883)	1997 09 01.36728	19 56 35.33	-09 02 13.8	15.3 V	566
(3586)	1997 09 02.54505	22 42 56.49	-17 21 00.6	16.2 V	566	(3883)	1997 09 01.37753	19 56 35.20	-09 02 19.5	15.4 V	566
(3586)	1997 09 02.55570	22 42 55.77	-17 21 01.0	16.2 V	566	(3883)	1997 09 01.38763	19 56 35.05	-09 02 25.3	15.3 V	566
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(3612)	1997 09 01.44566	21 48 33.90	-20 01 23.7	16.1 V	566	(3914)	1997 09 01.41921	20 50 46.69	-18 07 32.8	16.3 V	566
(3612)	1997 09 01.45537	21 48 33.44	-20 01 25.5	16.0 V	566	(3992)	1997 09 01.46025	21 32 39.47	-08 32 37.6	15.6 V	566
(3662)	1997 09 02.44161	21 17 15.87	-26 35 41.0	15.4 V	566	(3992)	1997 09 01.47007	21 32 39.08	-08 32 41.8	15.6 V	566
(3662)	1997 09 02.45202	21 17 15.32	-26 35 36.7	15.4 V	566	(3992)	1997 09 01.47980	21 32 38.74	-08 32 46.5	15.6 V	566
(3662)	1997 09 02.46159	21 17 14.83	-26 35 32.8	15.4 V	566	(4011)	1997 09 02.40964	20 18 29.54	-21 34 02.6	18.0 V	566
(3666)	1997 09 01.45225	21 42 28.88	-15 20 20.0	18.2 V	566	(4011)	1997 09 02.41976	20 18 29.24	-21 34 03.1	18.5 V	566
(3666)	1997 09 01.46195	21 42 28.47	-15 20 22.4	18.2 V	566	(4011)	1997 09 02.42984	20 18 28.90	-21 34 03.6	18.1 V	566
(3666)	1997 09 01.47169	21 42 28.06	-15 20 24.3	18.0 V	566	(4059)	1997 09 01.42783	20 39 03.25	-04 08 13.7	16.0 V	566
(3713)	1997 09 01.43303	21 55 29.13	-24 41 44.1	15.6 V	566	(4059)	1997 09 01.43765	20 39 02.94	-04 08 16.4	16.1 V	566
(3713)	1997 09 01.44339	21 55 28.66	-24 41 47.5	15.6 V	566	(4059)	1997 09 01.44825	20 39 02.61	-04 08 19.1	16.1 V	566
(3713)	1997 09 01.45306	21 55 28.23	-24 41 50.5	15.7 V	566	(4079)	1997 09 01.44190	21 39 13.75	-17 21 43.0	19.1 V	566
(3713)	1997 09 02.38645	21 54 49.33	-24 46 50.6	15.7 V	566	(4079)	1997 09 01.45151	21 39 13.35	-17 21 44.2	19.2 V	566
(3713)	1997 09 02.39652	21 54 48.90	-24 46 53.7	15.7 V	566	(4079)	1997 09 01.46115	21 39 12.89	-17 21 46.2	18.9 V	566
(3713)	1997 09 02.40642	21 54 48.46	-24 46 57.0	15.7 V	566	(4089)	1996 10 16.23357	20 43 21.15	-17 36 59.5	15.8 V	566
(3720)	1997 08 03.50883	20 03 57.72	-33 34 49.0	16.2 V	566	(4089)	1996 10 16.24196	20 43 21.71	-17 36 57.0	16.1 V	566
(3720)	1997 08 03.51864	20 03 57.10	-33 34 48.5	16.2 V	566	(4089)	1996 10 16.25055	20 43 22.29	-17 36 54.7	16.4 V	566
(3720)	1997 08 03.52988	20 03 56.37	-33 34 48.0	16.5 V	566	(4112)	1997 09 02.47419	20 43 10.06	-03 45 48.3	16.2 V	566
(3750)	1997 09 02.54505	22 45 03.98	-16 27 27.6	16.9 V	566	(4112)	1997 09 02.48452	20 43 09.76	-03 45 53.6	16.3 V	566
(3750)	1997 09 02.55570	22 45 03.41	-16 27 28.9	17.0 V	566	(4112)	1997 09 02.49487	20 43 09.51	-03 45 58.9	16.3 V	566
(3750)	1997 09 02.56536	22 45 02.91	-16 27 29.9	16.9 V	566	(4118)	1997 08 01.55508	20 25 16.86	-19 37 45.6	16.3 V	566
(3755)	1997 08 30.55404	21 39 52.33	+04 05 40.3	14.8 V	566	(4118)	1997 08 01.56924	20 25 16.09	-19 37 45.7	16.3 V	566

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(4118)	1997 08 01.57888	20 25 15.56	-19 37 45.4	16.2 V	566	(4517)	1997 09 02.49982	21 58 30.57	-20 56 51.6	15.3 V	566
(4134)	1997 09 02.44664	21 04 38.27	-17 52 11.1	18.5 V	566	(4517)	1997 09 02.50948	21 58 30.05	-20 56 51.5	15.2 V	566
(4134)	1997 09 02.45660	21 04 37.87	-17 52 13.4	18.8 V	566	(4517)	1997 09 02.51965	21 58 29.50	-20 56 51.3	15.1 V	566
(4134)	1997 09 02.46652	21 04 37.44	-17 52 16.1	18.8 V	566	(4634)	1997 09 01.39009	21 00 50.29	-25 13 14.8	17.3 V	566
(4137)	1997 02 04.33155	08 13 43.89	+24 41 28.6	15.6 V	566	(4634)	1997 09 01.40014	21 00 49.84	-25 13 14.7	17.2 V	566
(4137)	1997 02 04.33992	08 13 43.34	+24 41 29.3	15.5 V	566	(4634)	1997 09 01.41017	21 00 49.36	-25 13 14.5	17.3 V	566
(4137)	1997 02 04.34830	08 13 42.82	+24 41 29.9	15.6 V	566	(4659)	1997 09 01.39711	20 57 48.77	-21 10 37.4	17.3 V	566
(4153)	1997 09 02.53243	22 13 16.07	-13 23 24.8	16.8 V	566	(4659)	1997 09 01.40704	20 57 48.33	-21 10 38.1	17.3 V	566
(4153)	1997 09 02.54199	22 13 15.66	-13 23 27.2	16.6 V	566	(4659)	1997 09 01.41750	20 57 47.86	-21 10 38.5	17.3 V	566
(4153)	1997 09 02.55235	22 13 15.18	-13 23 29.6	16.7 V	566	(4661)	1997 08 30.46121	21 29 56.46	-20 59 52.9	16.6 V	566
(4160)	1997 08 03.54704	19 45 43.67	-13 21 39.9	16.6 V	566	(4661)	1997 08 30.47087	21 29 55.96	-20 59 55.7	16.8 V	566
(4160)	1997 08 03.55810	19 45 43.12	-13 21 42.8	16.8 V	566	(4661)	1997 08 30.48116	21 29 55.45	-20 59 58.6	16.7 V	566
(4160)	1997 08 03.56753	19 45 42.65	-13 21 45.0	16.8 V	566	(4661)	1997 09 01.37231	21 28 25.37	-21 08 54.7	16.8 V	566
(4208)	1997 08 03.59465	20 31 51.18	-10 15 45.3	16.2 V	566	(4661)	1997 09 01.38243	21 28 24.86	-21 08 57.3	16.8 V	566
(4208)	1997 08 03.60644	20 31 50.71	-10 15 50.6	16.2 V	566	(4661)	1997 09 01.39254	21 28 24.36	-21 09 00.3	16.7 V	566
(4208)	1997 08 03.61977	20 31 50.19	-10 15 58.2	15.8 V	566	(4671)	1997 09 02.56111	22 30 46.64	-11 19 57.2	16.0 V	566
(4293)	1997 09 02.47650	22 06 30.97	-26 09 47.6	17.1 V	566	(4671)	1997 09 02.57114	22 30 46.03	-11 19 58.8	16.0 V	566
(4293)	1997 09 02.48138	22 06 30.66	-26 09 48.7	17.2 V	566	(4671)	1997 09 02.58058	22 30 45.48	-11 20 00.0	16.1 V	566
(4293)	1997 09 02.48709	22 06 30.40	-26 09 49.7	17.2 V	566	(4675)	1997 09 01.40244	20 48 23.56	-14 14 49.6	16.9 V	566
(4293)	1997 09 02.49173	22 06 30.10	-26 09 50.4	17.1 V	566	(4675)	1997 09 01.41277	20 48 23.15	-14 14 50.6	17.0 V	566
(4293)	1997 09 02.49750	22 06 29.82	-26 09 51.7	17.4 V	566	(4675)	1997 09 01.42274	20 48 22.78	-14 14 51.6	16.9 V	566
(4293)	1997 09 02.50137	22 06 29.59	-26 09 52.4	17.2 V	566	(4684)	1997 08 03.54855	19 43 40.87	-11 30 24.5	16.4 V	566
(4310)	1997 08 30.52898	21 57 12.79	-09 29 42.2	17.3 V	566	(4684)	1997 08 03.55972	19 43 40.32	-11 30 26.7	16.3 V	566
(4310)	1997 08 30.53849	21 57 12.24	-09 29 46.1	17.3 V	566	(4684)	1997 08 03.56988	19 43 39.88	-11 30 28.7	16.3 V	566
(4310)	1997 08 30.54831	21 57 11.69	-09 29 50.6	17.2 V	566	(4686)	1997 09 01.36551	21 47 09.45	-03 59 21.0	16.3 V	566
(4325)	1997 09 02.54505	22 43 37.38	-17 20 12.9	17.5 V	566	(4686)	1997 09 01.37563	21 47 08.91	-03 59 24.0	16.3 V	566
(4325)	1997 09 02.55570	22 43 36.83	-17 20 15.6	17.9 V	566	(4686)	1997 09 01.38563	21 47 08.46	-03 59 28.0	16.1 V	566
(4325)	1997 09 02.56536	22 43 36.31	-17 20 18.0	17.7 V	566	(4686)	1997 09 02.38470	21 46 22.66	-04 05 06.6	16.2 V	566
(4354)	1997 09 01.36551	21 50 44.42	-05 01 36.2	18.0 V	566	(4686)	1997 09 02.39462	21 46 22.18	-04 05 10.1	16.2 V	566
(4354)	1997 09 01.37563	21 50 43.95	-05 01 40.3	17.9 V	566	(4686)	1997 09 02.40458	21 46 21.68	-04 05 13.5	16.1 V	566
(4354)	1997 09 01.38563	21 50 43.49	-05 01 44.0	18.0 V	566	(4710)	1997 09 01.46025	21 30 52.36	-07 34 04.2	17.4 V	566
(4354)	1997 09 01.42868	21 50 41.39	-05 02 00.9	18.2 V	566	(4710)	1997 09 01.47007	21 30 51.84	-07 34 06.7	17.2 V	566
(4354)	1997 09 01.43841	21 50 40.91	-05 02 04.8	18.2 V	566	(4710)	1997 09 01.47980	21 30 51.31	-07 34 09.1	16.9 V	566
(4354)	1997 09 01.44919	21 50 40.41	-05 02 09.2	18.1 V	566	(4767)	1997 08 30.61535	22 28 28.62	+03 22 17.8	17.6 V	566
(4354)	1997 09 02.38470	21 49 57.73	-05 08 20.0	18.4 V	566	(4767)	1997 08 30.62557	22 28 28.14	+03 22 12.9	17.6 V	566
(4354)	1997 09 02.39462	21 49 57.25	-05 08 24.4	17.8 V	566	(4767)	1997 08 30.63544	22 28 27.69	+03 22 07.9	17.9 V	566
(4354)	1997 09 02.40458	21 49 56.79	-05 08 28.4	18.2 V	566	(4808)	1997 09 01.46025	21 26 58.73	-07 24 33.2	16.6 V	566
(4427)	1997 09 01.45802	21 32 41.09	-12 20 37.2	16.8 V	566	(4808)	1997 09 01.47007	21 26 58.17	-07 24 34.3	16.6 V	566
(4427)	1997 09 01.46786	21 32 40.59	-12 20 37.8	16.8 V	566	(4808)	1997 09 01.47980	21 26 57.71	-07 24 35.7	16.6 V	566
(4427)	1997 09 01.47741	21 32 40.18	-12 20 38.2	16.8 V	566	(5053)	1997 09 01.34271	20 03 49.92	-15 20 22.8	18.1 V	566
(4432)	1997 09 02.50380	21 45 28.94	-14 06 52.1	16.9 V	566	(5053)	1997 09 01.35305	20 03 49.64	-15 20 26.7	18.1 V	566
(4432)	1997 09 02.51330	21 45 28.47	-14 06 54.5	17.0 V	566	(5053)	1997 09 01.36358	20 03 49.38	-15 20 30.6	18.1 V	566
(4432)	1997 09 02.52346	21 45 27.99	-14 06 56.8	17.0 V	566	(5073)	1997 09 02.44244	21 10 16.55	-25 16 50.5	17.0 V	566
(4492)	1997 09 02.55954	22 36 43.91	-11 53 16.3	16.3 V	566	(5073)	1997 09 02.45276	21 10 16.03	-25 16 50.0	17.0 V	566
(4492)	1997 09 02.56937	22 36 43.32	-11 53 17.4	16.3 V	566	(5073)	1997 09 02.46237	21 10 15.55	-25 16 49.2	17.0 V	566
(4492)	1997 09 02.57908	22 36 42.76	-11 53 18.1	16.4 V	566	(5096)	1997 09 02.40964	20 19 00.81	-21 00 32.7	17.4 V	566
(4505)	1997 08 03.58335	20 45 52.14	-21 05 13.2	15.8 V	566	(5096)	1997 09 02.41976	20 19 00.44	-21 00 31.6	17.1 V	566
(4505)	1997 08 03.59309	20 45 51.69	-21 05 16.8	15.8 V	566	(5096)	1997 09 02.42984	20 19 00.05	-21 00 30.7	17.1 V	566
(4505)	1997 08 03.60386	20 45 51.17	-21 05 20.1	15.8 V	566	(5114)	1997 08 03.51786	19 56 57.50	-27 46 46.7	17.3 V	566
(4513)	1997 08 30.54758	21 48 32.81	+00 09 19.4	16.8 V	566	(5114)	1997 08 03.52911	19 56 56.87	-27 46 47.1	17.7 V	566
(4513)	1997 08 30.55712	21 48 32.41	+00 09 16.1	16.6 V	566	(5114)	1997 08 03.54003	19 56 56.23	-27 46 47.9	17.4 V	566
(4513)	1997 08 30.56840	21 48 31.92	+00 09 11.8	16.5 V	566	(5178)	1997 08 03.52109	19 55 45.74	-23 13 26.4	17.9 V	566

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(5178)	1997 08 03.54320	19 55 44.27	-23 13 27.7	17.8 V	566	(5748)	1997 09 02.38470	21 50 34.75	-04 01 20.4	17.8 V	566
(5213)	1997 09 02.51881	21 31 05.13	-03 35 07.9	17.2 V	566	(5748)	1997 09 02.39462	21 50 34.27	-04 01 26.1	18.2 V	566
(5213)	1997 09 02.52764	21 31 04.82	-03 35 11.7	17.0 V	566	(5748)	1997 09 02.40458	21 50 33.79	-04 01 31.8	18.2 V	566
(5213)	1997 09 02.52839	21 31 04.75	-03 35 11.1	17.2 V	566	(5803)	1997 09 01.43383	21 50 05.94	-22 56 45.0	15.1 V	566
(5213)	1997 09 02.53743	21 31 04.44	-03 35 15.5	17.0 V	566	(5803)	1997 09 01.44413	21 50 05.54	-22 56 53.1	15.1 V	566
(5213)	1997 09 02.53818	21 31 04.41	-03 35 15.4	17.2 V	566	(5803)	1997 09 01.45380	21 50 05.17	-22 57 00.8	15.2 V	566
(5213)	1997 09 02.54737	21 31 04.05	-03 35 19.1	17.1 V	566	(5808)	1997 08 03.59163	20 35 46.51	-13 57 46.6	15.9 V	566
(5232)	1997 09 02.25049	16 56 23.16	-09 45 06.3	17.5 V	566	(5808)	1997 08 03.60239	20 35 46.06	-13 57 51.2	16.0 V	566
(5232)	1997 09 02.25950	16 56 23.73	-09 45 10.5	17.3 V	566	(5808)	1997 08 03.61722	20 35 45.22	-13 57 57.9	16.1 V	566
(5232)	1997 09 02.26994	16 56 24.39	-09 45 15.1	17.4 V	566	(5823)	1997 09 01.40244	20 49 00.61	-15 02 45.0	17.0 V	566
(5260)	1997 09 01.42013	20 42 06.88	-06 04 39.3	17.7 V	566	(5823)	1997 09 01.41277	20 49 00.17	-15 02 44.7	16.9 V	566
(5260)	1997 09 01.43039	20 42 06.53	-06 04 44.3	17.6 V	566	(5823)	1997 09 01.42274	20 48 59.75	-15 02 45.0	16.8 V	566
(5260)	1997 09 01.44015	20 42 06.17	-06 04 48.8	17.6 V	566	(5826)	1997 08 30.48272	21 19 48.99	-14 41 10.5	16.6 V	566
(5271)	1997 09 02.59919	23 29 04.77	-16 07 37.4	18.6 V	566	(5826)	1997 08 30.49229	21 19 48.64	-14 41 12.5	16.4 V	566
(5271)	1997 09 02.61268	23 29 04.11	-16 07 44.1	18.7 V	566	(5826)	1997 08 30.50201	21 19 48.25	-14 41 15.1	16.4 V	566
(5271)	1997 09 02.62386	23 29 03.61	-16 07 49.8	18.8 V	566	(5849)	1997 08 30.51168	22 21 00.81	-23 41 58.1	15.7 V	566
(5293)	1997 08 30.45887	21 33 14.69	-26 31 27.8	16.3 V	566	(5849)	1997 08 30.52159	22 21 00.36	-23 42 03.5	15.7 V	566
(5293)	1997 08 30.46850	21 33 14.24	-26 31 31.2	16.8 V	566	(5849)	1997 08 30.53130	22 20 59.94	-23 42 08.5	15.7 V	566
(5293)	1997 08 30.47881	21 33 13.70	-26 31 34.5	16.7 V	566	(5890)	1997 09 02.53571	22 49 31.57	-22 27 17.7	15.3 V	566
(5298)	1997 09 02.40738	20 52 59.47	-20 57 49.5	17.2 V	566	(5890)	1997 09 02.54583	22 49 31.10	-22 27 24.4	15.3 V	566
(5298)	1997 09 02.41745	20 52 59.10	-20 57 50.5	17.3 V	566	(5890)	1997 09 02.55651	22 49 30.63	-22 27 31.6	15.5 V	566
(5298)	1997 09 02.42753	20 52 58.77	-20 57 51.4	17.4 V	566	(5902)	1997 09 02.44820	21 04 46.17	-17 39 24.0	16.6 V	566
(5329)	1997 09 02.54828	22 38 06.01	-15 55 54.6	15.5 V	566	(5902)	1997 09 02.45831	21 04 45.81	-17 39 27.5	16.5 V	566
(5329)	1997 09 02.55804	22 38 05.57	-15 56 02.5	15.5 V	566	(5902)	1997 09 02.46803	21 04 45.48	-17 39 31.6	16.6 V	566
(5329)	1997 09 02.56780	22 38 05.10	-15 56 10.1	15.5 V	566	(5920)	1997 09 02.49902	21 58 57.19	-22 39 17.1	15.7 V	566
(5355)	1996 10 11.58391	01 42 25.99	+10 22 35.8	16.0 V	566	(5920)	1997 09 02.50862	21 58 56.62	-22 39 15.9	15.7 V	566
(5355)	1996 10 11.59233	01 42 25.50	+10 22 33.1	16.0 V	566	(5920)	1997 09 02.51803	21 58 56.07	-22 39 14.9	15.7 V	566
(5355)	1996 10 11.60072	01 42 25.01	+10 22 30.1	16.0 V	566	(5945)	1997 09 02.44244	21 14 46.91	-24 22 39.8	15.9 V	566
(5484)	1997 09 02.59353	23 42 11.03	-21 17 07.3	17.4 V	566	(5945)	1997 09 02.45276	21 14 46.46	-24 22 38.2	15.9 V	566
(5484)	1997 09 02.60434	23 42 10.39	-21 17 10.5	17.4 V	566	(5945)	1997 09 02.46237	21 14 46.08	-24 22 36.9	15.8 V	566
(5484)	1997 09 02.61640	23 42 09.66	-21 17 14.0	17.4 V	566	(6089)	1997 09 02.44576	21 06 23.13	-20 07 27.2	16.8 V	566
(5568)	1997 08 01.55279	20 28 59.55	-24 47 17.7	15.5 V	566	(6089)	1997 09 02.45588	21 06 22.68	-20 07 30.3	16.7 V	566
(5568)	1997 08 01.56268	20 28 58.94	-24 47 20.3	15.6 V	566	(6089)	1997 09 02.46570	21 06 22.26	-20 07 33.0	16.8 V	566
(5568)	1997 08 01.57589	20 28 58.20	-24 47 24.6	15.5 V	566	(6117)	1997 09 02.41132	20 15 23.21	-17 55 50.3	17.4 V	566
(5613)	1997 08 30.58501	22 49 34.60	-08 56 50.7	17.0 V	566	(6117)	1997 09 02.42128	20 15 22.92	-17 55 50.1	17.6 V	566
(5613)	1997 08 30.59523	22 49 34.11	-08 56 53.3	17.0 V	566	(6117)	1997 09 02.43136	20 15 22.59	-17 55 49.9	17.5 V	566
(5613)	1997 08 30.60505	22 49 33.64	-08 56 55.4	17.0 V	566	(6182)	1997 09 01.40395	20 47 31.96	-10 44 06.4	16.0 V	566
(5626)	1996 10 16.23357	20 42 46.28	-18 11 13.5	16.0 V	566	(6182)	1997 09 01.41443	20 47 31.59	-10 44 06.5	16.1 V	566
(5626)	1996 10 16.24196	20 42 47.01	-18 11 13.6	16.0 V	566	(6182)	1997 09 01.42538	20 47 31.20	-10 44 06.6	16.0 V	566
(5626)	1996 10 16.25055	20 42 47.79	-18 11 13.2	16.0 V	566	(6185)	1997 08 30.57262	23 07 10.39	-21 18 07.5	17.0 V	566
(5630)	1997 08 30.48347	21 18 57.17	-12 22 01.2	16.8 V	566	(6185)	1997 08 30.58267	23 07 09.76	-21 18 11.7	17.2 V	566
(5630)	1997 08 30.49314	21 18 56.73	-12 22 04.5	16.8 V	566	(6185)	1997 08 30.59282	23 07 09.17	-21 18 14.9	17.1 V	566
(5630)	1997 08 30.50292	21 18 56.28	-12 22 07.6	16.8 V	566	(6197)	1997 09 01.41194	20 43 50.88	-08 55 59.4	18.1 V	566
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(5666)	1997 09 01.47899	21 33 46.54	-08 56 09.6	17.9 V	566	(6212)	1997 08 30.55404	21 42 20.73	+05 16 11.0	16.4 V	566
(5701)	1997 08 30.42091	20 47 41.02	-27 57 38.4	16.2 V	566	(6212)	1997 08 30.56523	21 42 20.18	+05 16 06.1	16.5 V	566
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(7412)	1996 10 11.58186	01 45 54.15	+07 09 21.8	17.1 V	566
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(7581)	1997 02 04.33992	08 14 46.85	+25 01 46.0	16.3 V	566
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(7732)	1997 08 30.60954	22 41 23.13	-06 57 49.2	17.1 V	566
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(7832)	1997 08 03.62428	20 29 47.19	-06 17 34.2	15.4 V	566

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R. J. Whiteley

Measurers J. X. Luu, D. J. Tholen

2.24-m telescope + CCD

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1996 SZ ₄	1997 09 05.52017	00 50 42.31	+05 07 56.1	22.1 R	568
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1997 QK ₁	1997 08 27.29911	15 46 42.86	-15 47 39.6		E 568
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1997 QK ₁	1997 08 28.24777	15 53 51.16	-15 45 55.3		t 568
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1997 QK ₁	1997 08 29.22913	16 01 33.78	-15 43 01.5		E 568
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1997 QK ₁	1997 08 29.24389	16 01 40.78	-15 42 58.0		E 568
1997 QK ₁	1997 08 29.29020	16 02 02.29	-15 42 45.2		t 568
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1997 QJ ₄	1997 09 01.38251	23 42 42.65	+01 10 03.9		568
1997 QJ ₄	1997 09 01.43666	23 42 42.34	+01 10 02.6		568
1997 QJ ₄	1997 09 01.48696	23 42 42.10	+01 10 01.2		568
1997 RT	1997 09 06.50753	00 57 22.66	+31 59 43.6	16.6 R	568

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Observers F. Manca, V. Giuliani, P. Sicoli, M. Cavagna, P. Chiavenna, G. Ventre,
E. Colzani

0.5-m reflector + CCD

GSC

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1986 RL ₅	1997 08 29.95647	00 43 53.44	+01 43 07.3		587
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1997 OK	1997 08 23.86238	19 48 20.34	-18 32 44.2	587	1997 RD ₁	1997 09 08.83819	21 35 41.45	-06 18 03.8	587
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1997 QF ₁	1997 08 30.94132	23 14 05.93	+03 10 40.4	587	1997 RO ₇	1997 09 09.94288	23 34 02.63	-11 05 54.7	587
1997 QF ₁	1997 08 30.95330	23 14 05.30	+03 10 39.0	587	1997 RO ₇	1997 09 10.88785	23 33 23.89	-11 12 36.9	587
1997 QF ₁	1997 09 01.85914	23 12 26.42	+03 07 03.4	587	1997 RO ₇	1997 09 10.90204	23 33 23.29	-11 12 42.4	587
1997 QF ₁	1997 09 01.87667	23 12 25.44	+03 07 00.1	587	(6882)	1997 08 23.84531	18 28 53.97	-18 16 45.3	587
1997 QF ₁	1997 09 01.88275	23 12 25.08	+03 06 59.5	587	(6882)	1997 08 23.87899	18 28 54.12	-18 16 35.5	587
1997 QF ₁	1997 09 01.93484	23 12 22.26	+03 06 54.0	587	(6882)	1997 08 23.88316	18 28 54.07	-18 16 35.2	587
1997 QF ₁	1997 09 04.87795	23 09 45.42	+03 00 04.5	587	589 Santa Lucia Stroncone				
1997 QF ₁	1997 09 04.90272	23 09 43.96	+03 00 01.5	587	A. Vagnozzi, Via Santa Lucia 68, I-05039 Stroncone (Terni), Italy				
1997 QF ₁	1997 09 04.91782	23 09 43.21	+02 59 59.6	587	[vagnozzi@freenet.hut.fi]				
1997 QG ₁	* 1997 08 29.83796	23 15 05.64	+03 07 20.2	17.8 V 587	Observers A. Vagnozzi, G. Bernabei, V. Risoldi, E. Gregori, F. Lombardi				
1997 QG ₁	1997 08 29.94040	23 15 00.34	+03 06 45.1	587	0.50-m <i>f</i> /2.8 Ritchey-Chrétien + CCD				
1997 QG ₁	1997 08 30.94635	23 14 10.34	+03 01 00.3	587	GSC				
1997 QG ₁	1997 08 30.95897	23 14 09.65	+03 00 54.6	587	1977 EM ₅	1997 08 30.84992	20 43 27.26	-08 03 42.8	18.1 V 589
1997 QG ₁	1997 09 01.86366	23 12 33.75	+02 49 39.3	587	1977 EM ₅	1997 08 30.86246	20 43 26.81	-08 03 49.8	589
1997 QG ₁	1997 09 01.87292	23 12 33.26	+02 49 36.2	587	1978 VL ₁₀	1997 08 28.88442	00 08 01.44	+00 14 27.4	18.7 V 589
1997 QG ₁	1997 09 04.88177	23 09 58.94	+02 30 57.6	587	1978 VL ₁₀	1997 08 28.89639	00 08 01.06	+00 14 24.0	589
1997 QG ₁	1997 09 04.90781	23 09 57.56	+02 30 48.2	587	1979 SU ₂	1997 08 08.90511	22 00 29.69	-01 48 15.4	17.1 V 589
1997 QH ₁	* 1997 08 29.84837	23 14 17.26	+04 47 14.2	16.5 V 587	1979 SU ₂	1997 08 08.91200	22 00 29.32	-01 48 16.4	589
1997 QH ₁	1997 08 29.87238	23 14 15.88	+04 47 08.3	587	1979 SU ₂	1997 08 08.92020	22 00 28.91	-01 48 17.8	589
1997 QH ₁	1997 08 29.94957	23 14 11.22	+04 46 51.5	587	1979 SU ₂	1997 08 08.92020	22 00 28.91	-01 48 17.8	589
1997 QH ₁	1997 08 30.97587	23 13 11.40	+04 42 51.4	587	1979 SU ₂	1997 08 30.90488	21 40 53.19	-03 25 40.5	17.3 V 589
1997 QH ₁	1997 08 31.00313	23 13 09.71	+04 42 45.0	587	1979 SU ₂	1997 08 30.91286	21 40 52.75	-03 25 42.7	589
1997 QH ₁	1997 09 01.85347	23 11 20.79	+04 35 00.2	587	1979 SU ₂	1997 08 30.92727	21 40 52.00	-03 25 48.4	589
1997 QH ₁	1997 09 01.86904	23 11 19.84	+04 34 55.4	587	1979 SU ₂	1997 08 30.94153	21 40 51.27	-03 25 53.4	589
1997 QH ₁	1997 09 04.88640	23 08 18.98	+04 20 57.3	587	1990 TM ₅	1997 08 28.79148	18 37 00.09	-15 09 35.0	17.5 V 589
1997 QH ₁	1997 09 04.91366	23 08 17.33	+04 20 50.0	587	1990 TM ₅	1997 08 28.80340	18 37 00.45	-15 09 36.6	I 589
1997 QP ₂	1997 09 01.84027	21 49 35.32	-04 38 52.4	587	1993 SO ₂	1997 08 08.84675	20 10 38.78	-08 30 26.3	18.5 V 589
1997 QP ₂	1997 09 01.84375	21 49 34.82	-04 38 46.1	587	1993 SO ₂	1997 08 08.85528	20 10 38.42	-08 30 28.4	589
1997 QP ₂	1997 09 01.84768	21 49 34.22	-04 38 40.3	587	1993 SO ₂	1997 08 08.86371	20 10 37.98	-08 30 30.2	589
1997 RA	1997 09 01.90833	21 53 11.65	-24 16 06.0	587	1993 SO ₂	1997 08 29.84219	19 58 26.79	-10 01 15.7	19.2 V 589
1997 RA	1997 09 01.94653	21 53 10.30	-24 16 02.7	587	1993 SO ₂	1997 08 29.85120	19 58 26.65	-10 01 17.1	589
1997 RT	1997 09 05.92396	00 55 28.85	+31 29 42.3	587	1993 SO ₂	1997 08 29.86206	19 58 26.36	-10 01 20.2	589
1997 RT	1997 09 05.92674	00 55 29.39	+31 29 51.7	587	1993 SO ₂	1997 08 31.80546	19 57 45.21	-10 09 32.1	19.4 V 589
1997 RT	1997 09 05.93021	00 55 29.99	+31 30 02.9	587	1993 SO ₂	1997 08 31.82734	19 57 44.72	-10 09 38.8	589
1997 RT	1997 09 08.84904	01 04 32.35	+33 41 30.4	587	1994 WU ₁	1997 08 08.87398	22 09 04.44	+02 18 54.7	17.2 V 589
1997 RT	1997 09 08.85182	01 04 32.79	+33 41 37.6	587	1994 WU ₁	1997 08 08.88163	22 09 04.15	+02 18 49.3	589
1997 RD ₁	1997 09 04.85960	21 34 20.68	-04 48 05.4	587	1994 WU ₁	1997 08 08.89096	22 09 03.77	+02 18 43.8	589
1997 RD ₁	1997 09 04.89022	21 34 21.08	-04 48 47.5	587	1994 WU ₁	1997 08 08.89974	22 09 03.42	+02 18 37.9	589
1997 RD ₁	1997 09 04.89734	21 34 21.10	-04 48 58.0	587	1994 WU ₁	1997 08 25.87662	21 57 26.47	-01 21 54.5	18.1 V 589
1997 RD ₁	1997 09 05.86244	21 34 38.49	-05 11 01.4	587	1994 WU ₁	1997 08 25.88364	21 57 26.17	-01 21 59.9	589
					1994 WU ₁	1997 08 25.89238	21 57 25.82	-01 22 07.3	589

1994 WU ₁	1997 08 25.90228	21 57 25.37	-01 22 16.1		589
1994 WU ₁	1997 08 28.85971	21 55 24.53	-02 05 19.4	17.2 V	589
1994 WU ₁	1997 08 28.87021	21 55 24.07	-02 05 29.3		589
1994 WU ₁	1997 08 29.87719	21 54 44.08	-02 20 15.3		589
1994 WU ₁	1997 08 29.88628	21 54 43.60	-02 20 24.4		589
1994 WU ₁	1997 08 29.89618	21 54 43.21	-02 20 32.9		589
1994 WU ₁	1997 09 05.88472	21 50 27.91	-04 03 15.3	17.0 V	589
1994 WU ₁	1997 09 05.89240	21 50 27.64	-04 03 22.0		589
1994 WU ₁	1997 09 05.89939	21 50 27.36	-04 03 27.9		589
1994 WU ₁	1997 09 10.86818	21 47 58.68	-05 14 45.9	18.3 V	589
1994 WU ₁	1997 09 10.88148	21 47 58.32	-05 14 56.7		589
1994 WU ₁	1997 09 10.91378	21 47 57.41	-05 15 24.0		589
1995 CA	1997 08 27.98704	02 11 13.64	+28 31 55.0	17.6 V	589
1995 CA	1997 08 28.00173	02 11 13.89	+28 31 58.0		589
1995 CA	1997 08 28.01006	02 11 14.02	+28 32 00.0		589
1995 CA	1997 08 29.90908	02 11 47.30	+28 39 09.7	17.8 V	589
1995 CA	1997 08 29.91829	02 11 47.54	+28 39 11.8		589
1995 CA	1997 08 29.94639	02 11 48.02	+28 39 18.0		589
1995 CA	1997 09 05.97360	02 12 52.85	+28 59 41.7	17.7 V	589
1995 CA	1997 09 05.98866	02 12 52.86	+28 59 43.2		589
1995 CA	1997 09 05.99775	02 12 52.90	+28 59 44.6		589
1997 NQ	1997 08 31.78907	19 26 53.71	-02 44 44.3	17.8 V	589
1997 NQ	1997 08 31.79934	19 26 53.62	-02 44 41.7		589
1997 QN ₁	* 1997 08 30.90488	21 41 51.74	-03 27 58.3	17.0 V	589
1997 QN ₁	1997 08 30.91286	21 41 51.40	-03 28 02.2		589
1997 QN ₁	1997 08 30.92727	21 41 50.73	-03 28 07.6		589
1997 QN ₁	1997 08 30.94153	21 41 50.08	-03 28 12.9		589
1997 QN ₁	1997 08 31.86756	21 41 13.55	-03 34 23.4		589
1997 QN ₁	1997 08 31.87821	21 41 13.09	-03 34 27.6		589
1997 QN ₁	1997 09 01.88648	21 40 34.18	-03 41 14.3	17.0 V	589
1997 QN ₁	1997 09 01.89367	21 40 33.94	-03 41 17.7		589
1997 QN ₁	1997 09 01.90341	21 40 33.54	-03 41 21.6		589
1997 QN ₁	1997 09 05.82843	21 38 15.99	-04 08 03.6	16.8 V	589
1997 QN ₁	1997 09 05.84102	21 38 15.52	-04 08 08.5		589
1997 QN ₁	1997 09 05.85388	21 38 15.07	-04 08 14.1		589
1997 QN ₁	1997 09 08.90473	21 36 45.12	-04 28 59.8	17.2 V	589
1997 QN ₁	1997 09 08.91654	21 36 44.77	-04 29 04.6		589
1997 QN ₁	1997 09 08.92395	21 36 44.43	-04 29 07.1		589
1997 QN ₁	1997 09 10.79361	21 35 58.21	-04 41 41.7	17.3 V	589
1997 QN ₁	1997 09 10.80487	21 35 57.93	-04 41 46.5		589
1997 QN ₁	1997 09 10.85344	21 35 56.63	-04 42 05.8		589
(1782)	1997 08 28.88442	00 08 20.21	+00 13 52.9	17.6 V	589
(1782)	1997 08 28.89639	00 08 19.81	+00 13 49.9		589
(1782)	1997 08 28.90014	00 08 19.68	+00 13 48.5		589
(3542)	1997 08 30.84992	20 43 01.82	-08 09 11.4	18.4 V	589
(3542)	1997 08 30.86246	20 43 01.36	-08 09 13.0		589
(7015)	1997 09 11.84962	21 49 59.16	-15 02 07.6	18.4 V	589
(7015)	1997 09 11.87944	21 49 57.75	-15 02 18.8		589
(7015)	1997 09 11.89181	21 49 57.39	-15 02 22.2		589
(7015)	1997 09 11.90184	21 49 56.88	-15 02 25.2		589
(7015)	1997 09 11.91219	21 49 56.34	-15 02 29.1		589

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0.40-m $f/2.95$ reflector + CCD

GSC

1986 RA ₃	1997 08 13.96289	01 38 24.48	+25 15 52.5	16.7 V	596
1986 RA ₃	1997 08 13.98603	01 38 24.83	+25 16 00.6		596
1986 RA ₃	1997 08 13.99980	01 38 25.07	+25 16 06.0		596
1986 RJ ₄	1997 08 14.93609	00 05 23.74	+11 18 35.9	16.8 V	596
1986 RJ ₄	1997 08 14.95006	00 05 23.11	+11 18 52.0		596
1986 RJ ₄	1997 08 14.96323	00 05 22.56	+11 19 07.0		596
1987 VR	1997 08 14.87122	22 40 19.31	+03 25 26.9	17.1 V	596
1987 VR	1997 08 14.88451	22 40 18.82	+03 25 23.3		596
1987 VR	1997 08 14.90524	22 40 18.00	+03 25 19.3		596
1993 TD	1997 08 13.01168	02 18 31.27	+14 59 06.7	18.2 V	596
1993 TD	1997 08 13.02032	02 18 31.73	+14 59 12.3		596
1993 TD	1997 08 13.03113	02 18 32.33	+14 59 19.1		596
1993 TD	1997 08 29.96508	02 31 22.00	+17 57 01.5	18.2 V	596
1993 TD	1997 08 29.98505	02 31 22.60	+17 57 14.1		596
1993 TD	1997 08 29.99884	02 31 23.06	+17 57 23.6		596
1995 DO ₂	1997 08 29.92593	23 40 46.75	-06 30 49.9	18.0 V	596
1995 DO ₂	1997 08 29.95038	23 40 45.70	-06 30 57.9		596
1995 DO ₂	1997 08 30.90559	23 40 05.40	-06 36 25.9		596
1995 DO ₂	1997 08 30.92399	23 40 04.62	-06 36 32.4		596
1995 DO ₂	1997 08 31.90182	23 39 22.69	-06 42 11.4		596
1995 DO ₂	1997 08 31.92454	23 39 21.74	-06 42 18.8		596
1995 DO ₂	1997 08 31.93605	23 39 21.24	-06 42 23.7		596
1996 CX ₂	1997 07 29.90264	21 43 05.32	-02 46 33.3	17.2 V	596
1996 CX ₂	1997 07 29.92035	21 43 04.35	-02 46 34.3		596
1996 CX ₂	1997 07 29.93731	21 43 03.48	-02 46 36.3		596
1996 CX ₂	1997 08 12.85736	21 29 57.18	-03 25 49.7	17.5 V	596
1996 CX ₂	1997 08 12.87278	21 29 56.19	-03 25 52.9		596
1996 CX ₂	1997 08 27.81303	21 16 11.67	-04 38 31.5	17.4 V	596
1996 CX ₂	1997 08 27.82469	21 16 11.15	-04 38 35.0		596
1996 CX ₂	1997 08 27.83937	21 16 10.40	-04 38 39.9		596
1996 CX ₂	1997 08 28.82661	21 15 23.07	-04 44 02.0	17.2 V	596
1996 CX ₂	1997 08 28.85124	21 15 21.82	-04 44 11.3		596
1997 NQ	1997 07 26.83257	19 44 24.40	+00 39 27.5	16.9 V	596
1997 NQ	1997 07 26.84127	19 44 23.93	+00 39 26.5		596
1997 NQ	1997 07 26.85064	19 44 23.40	+00 39 25.3		596
1997 NQ	1997 08 12.81172	19 32 21.24	-00 36 05.7	17.0 V	596
1997 NQ	1997 08 12.82555	19 32 20.77	-00 36 10.9		596
1997 QQ ₂	* 1997 08 27.81303	21 16 25.89	-04 40 57.6	18.0 V	596
1997 QQ ₂	1997 08 27.82469	21 16 25.35	-04 40 58.2		596
1997 QQ ₂	1997 08 27.83937	21 16 24.66	-04 40 59.2		596
1997 QQ ₂	1997 08 27.85015	21 16 24.20	-04 40 59.2		596
1997 QQ ₂	1997 08 28.82661	21 15 40.38	-04 42 09.8	17.9 V	596
1997 QQ ₂	1997 08 28.85124	21 15 39.23	-04 42 12.2		596
1997 QQ ₂	1997 08 31.80594	21 13 30.49	-04 45 52.6	18.1 V	596
1997 QQ ₂	1997 08 31.81545	21 13 30.11	-04 45 52.2		596
1997 QQ ₂	1997 08 31.82810	21 13 29.58	-04 45 54.0		596
1997 QR ₂	* 1997 08 29.92593	23 41 26.77	-06 27 29.7	18.5 V	596

1997 QR ₂	1997 08 29.95038	23 41 25.77	−06 27 46.2	596
1997 QR ₂	1997 08 31.90182	23 40 12.21	−06 48 15.8	596
1997 QR ₂	1997 08 31.91231	23 40 11.66	−06 48 23.6	596
1997 QR ₂	1997 08 31.92454	23 40 11.13	−06 48 31.2	596
1997 QR ₂	1997 09 01.89457	23 39 33.27	−06 58 49.7	596
1997 QR ₂	1997 09 01.90441	23 39 32.81	−06 58 55.2	596
1997 QR ₂	1997 09 01.91937	23 39 32.14	−06 59 07.7	596
(668)	1997 08 14.87122	22 39 48.06	+03 28 31.2	14.5 V 596
(668)	1997 08 14.88451	22 39 47.59	+03 28 28.0	596
(668)	1997 08 14.90524	22 39 46.85	+03 28 23.6	596
(1351)	1997 08 29.96508	02 31 52.93	+18 00 25.3	15.0 V 596
(1351)	1997 08 29.98505	02 31 53.05	+18 00 30.0	596
(1351)	1997 08 29.99884	02 31 53.15	+18 00 33.4	596

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Observers A. Boattini, V. D'Ambrosio, A. Di Paola, M. Carpino, A. Manara, A. La
Spina, A. Di Clemente, G. De Sanctis, P. Tanga

Measurers A. Boattini, V. D'Ambrosio, G. Forti, M. Carpino, G. De Sanctis,
P. Tanga

0.60-m $f/3$ Schmidt + CCD

1997 CA ₆	1997 01 16.97188	08 17 12.47	+26 21 33.1	17.4 V	599
1997 CA ₆	1997 01 16.99514	08 17 11.09	+26 21 37.1		599
1997 ER ₅₅	1997 03 18.10252	10 29 43.07	+17 09 22.3	17.6 V	599
1997 ER ₅₅	1997 03 18.11339	10 29 42.54	+17 09 23.6		599
1997 ES ₅₅	1997 03 18.10252	10 32 21.91	+17 36 09.3	19.6 V	599
1997 ES ₅₅	1997 03 18.11339	10 32 21.39	+17 36 10.5		599
1997 ET ₅₅	1997 03 18.10252	10 30 17.35	+18 03 21.8	18.8 V	599
1997 ET ₅₅	1997 03 18.11339	10 30 16.45	+18 03 17.6		599
1997 FF ₅	* 1997 03 18.97613	12 28 10.14	+09 03 58.0	18.0 V	599
1997 FF ₅	1997 03 18.98574	12 28 09.60	+09 03 59.4		599

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

Observers A. Alday, K. Moore, M. Tranilla, T. Goggia, A. Sylva

Measurers D. O'Connell, P. Kervin, B. Kraszewski, V. Soo Hoo, B. Africano,
J. Africano, P. Sydney, D. Nishimoto, A. Angara, B. McCarthy,
B. McCartney

1.2-m reflector + CCD

1979 MR ₅	1997 08 27.46869	00 14 25.94	+05 29 52.1	17.5 R	608
1979 MR ₅	1997 08 27.52084	00 14 24.33	+05 29 46.8	17.5 R	608
1989 EE	1997 08 29.43870	21 09 08.47	−01 23 32.9	19.5 R	608
1989 EE	1997 08 29.48702	21 09 06.70	−01 23 57.1	19.4 R	608
1989 EE	1997 08 30.49346	21 08 30.80	−01 32 15.8	19.4 R	608
1989 EE	1997 09 03.46767	21 06 15.07	−02 05 14.1	19.0 R	608
1989 EE	1997 09 03.51471	21 06 13.49	−02 05 37.4	18.9 R	608
1989 TT	1997 08 01.44980	21 25 10.81	+03 33 29.6	17.4 R	608
1989 TT	1997 08 05.34763	21 22 19.89	+03 01 03.1	16.9 R	608
1989 TT	1997 08 05.40073	21 22 17.37	+03 00 34.8	17.0 R	608

1989 TT	1997 08 06.33111	21 21 35.11	+02 52 05.3	17.4 R	608
1989 TT	1997 08 06.39248	21 21 32.17	+02 51 31.3	17.3 R	608
1990 SC ₄	1997 08 08.34128	20 24 12.61	+11 30 59.2	17.4 R	608
1990 SC ₄	1997 08 08.38718	20 24 10.00	+11 30 37.6	17.5 R	608
1990 SC ₄	1997 08 09.36778	20 23 16.35	+11 22 37.7		608
1990 SC ₄	1997 08 09.40446	20 23 14.32	+11 22 20.0		608
1990 SC ₄	1997 08 30.43145	20 07 12.64	+07 38 11.0	18.2 R	608
1990 SC ₄	1997 08 30.48004	20 07 10.91	+07 37 34.5	17.7 R	608
1990 SN ₁₆	1997 09 06.48008	22 40 25.93	−15 37 29.9	15.6 R	608
1990 SN ₁₆	1997 09 06.52741	22 40 23.10	−15 37 35.7	16.4 R	608
1991 AP ₁	1997 08 28.52409	02 31 25.49	+16 25 54.5	17.6 R	608
1991 AP ₁	1997 09 02.50172	02 35 26.52	+16 52 02.0	17.0 R	608
1991 JA ₁	1997 08 14.46683	01 56 04.25	+29 44 58.9	17.8 R	608
1991 JA ₁	1997 08 14.57166	01 56 11.83	+29 45 20.0	17.3 R	608
1991 JA ₁	1997 08 15.47907	01 57 18.57	+29 48 02.3	17.4 R	608
1991 JA ₁	1997 08 15.51839	01 57 21.33	+29 48 09.6	17.3 R	608
1991 JA ₁	1997 09 05.51779	02 16 24.75	+29 40 06.4	16.8 R	608
1992 KQ	1997 09 04.46431	01 16 36.03	−17 30 26.4	15.0 R	608
1992 KQ	1997 09 04.52084	01 16 34.54	−17 30 59.2	15.1 R	608
1992 KQ	1997 09 05.48413	01 16 10.70	−17 40 17.0	15.3 R	608
1992 KQ	1997 09 06.46552	01 15 44.88	−17 49 43.1	15.2 R	608
1992 KQ	1997 09 06.52937	01 15 43.01	−17 50 20.2	15.2 R	608
1992 LR	1997 08 14.47553	02 00 30.32	+19 50 41.1		608
1992 LR	1997 08 14.57414	02 00 37.84	+19 51 14.6		608
1992 LR	1997 08 15.48139	02 01 54.71	+19 55 39.9	17.4 R	608
1992 LR	1997 08 15.52069	02 01 57.59	+19 55 52.5	17.2 R	608
1992 LR	1997 09 02.46560	02 14 53.45	+20 12 56.2	17.0 R	608
1992 LR	1997 09 02.51218	02 14 53.20	+20 12 49.6	17.2 R	608
1992 LR	1997 09 03.46404	02 14 55.14	+20 09 55.6	17.5 R	608
1992 LR	1997 09 03.49237	02 14 54.86	+20 09 50.9	17.1 R	608
1992 LR	1997 09 03.51105	02 14 54.68	+20 09 47.8	16.9 R	608
1992 LR	1997 09 03.53677	02 14 54.38	+20 09 43.3	17.0 R	608
1992 LR	1997 09 04.54906	02 14 51.20	+20 06 12.5	16.9 R	608
1992 NS	1997 09 04.46583	01 26 02.86	+17 15 20.9	17.4 R	608
1992 NS	1997 09 04.52229	01 26 01.73	+17 15 09.7	17.3 R	608
1992 SU	1997 09 02.50350	00 30 26.80	+02 38 45.3	16.0 R	608
1992 SU	1997 09 02.54735	00 30 25.65	+02 38 20.3	16.1 R	608
1992 SU	1997 09 04.46305	00 29 38.77	+02 19 26.6	16.2 R	608
1992 SU	1997 09 04.51958	00 29 37.21	+02 18 53.0	16.2 R	608
1993 HO ₁	1997 08 13.46054	23 13 52.53	−12 24 06.8	20.8 R	608
1993 HO ₁	1997 08 13.48128	23 13 51.37	−12 24 14.4	20.5 R	608
1993 HO ₁	1997 09 02.48823	22 52 01.91	−14 28 50.7	19.9 R	608
1993 HO ₁	1997 09 02.53553	22 51 58.34	−14 29 07.2	20.0 R	608
1993 HO ₁	1997 09 03.49835	22 50 47.26	−14 34 52.4	19.3 R	608
1993 HO ₁	1997 09 03.54247	22 50 43.93	−14 35 08.2	19.4 R	608
1993 KQ ₂	1997 08 13.47518	22 10 15.21	−21 44 25.4	18.0 R	608
1993 KQ ₂	1997 08 30.45584	21 54 20.91	−25 51 20.2	18.6 R	608
1993 KQ ₂	1997 08 30.50547	21 54 18.16	−25 51 56.1	18.7 R	608
1993 QS	1997 08 28.46336	01 42 52.33	+03 23 35.5	16.6 R	608
1993 QS	1997 08 28.51207	01 42 53.72	+03 23 04.0	16.5 R	608
1993 QS	1997 09 03.48191	01 45 19.75	+02 12 49.7	16.1 R	608
1993 QS	1997 09 03.52988	01 45 20.47	+02 12 13.4	16.1 R	608

1993 QS	1997 09 04.53231	01 45 37.43	+01 59 27.5	16.2 R	608	1997 RW ₅	* 1997 09 02.48823	22 51 49.56	-14 24 41.1	20.1 R	608
1993 SU ₂	1997 08 14.43973	23 28 15.38	+14 24 34.9	16.1 R	608	1997 RW ₅	1997 09 02.53553	22 51 47.25	-14 24 51.2	20.2 R	608
1993 SU ₂	1997 08 14.48435	23 28 13.70	+14 24 49.9	16.1 R	608	1997 RW ₅	1997 09 03.45473	22 51 04.25	-14 28 16.2	19.8 R	608
1993 SU ₂	1997 08 15.44244	23 27 38.87	+14 30 05.1	14.8 R	608	1997 RW ₅	1997 09 03.50308	22 51 01.81	-14 28 26.8	20.3 R	608
1993 SU ₂	1997 08 15.48983	23 27 37.01	+14 30 20.1	14.8 R	608	1997 RX ₅	* 1997 09 02.48823	22 52 04.37	-14 22 51.3	19.8 R	608
1993 SU ₂	1997 08 23.50379	23 21 54.51	+15 05 52.3	15.0 R	608	1997 RX ₅	1997 09 02.53553	22 52 01.78	-14 23 07.1	19.8 R	608
1993 SU ₂	1997 08 23.53628	23 21 52.84	+15 05 58.4	15.4 R	608	1997 RX ₅	1997 09 03.45473	22 51 13.79	-14 28 13.7	19.8 R	608
1993 SU ₂	1997 08 25.47184	23 20 18.05	+15 12 10.5	15.2 R	608	1997 RX ₅	1997 09 03.50308	22 51 11.16	-14 28 29.4	19.9 R	608
1993 SU ₂	1997 08 25.53973	23 20 14.48	+15 12 22.5	15.0 R	608	1997 RY ₅	* 1997 09 02.48823	22 52 25.35	-14 25 25.2	18.2 R	608
1994 LE ₃	1997 08 14.48662	02 03 06.79	+21 28 16.5		608	1997 RY ₅	1997 09 02.53553	22 52 22.42	-14 25 37.6	18.2 R	608
1994 LE ₃	1997 08 14.57852	02 03 13.74	+21 27 52.3		608	1997 RY ₅	1997 09 03.45473	22 51 27.85	-14 29 37.8	18.1 R	608
1994 LE ₃	1997 08 15.49159	02 04 24.83	+21 23 35.4	16.7 R	608	1997 RY ₅	1997 09 03.50308	22 51 24.92	-14 29 50.0	18.5 R	608
1994 LE ₃	1997 08 15.52530	02 04 27.34	+21 23 25.9	16.6 R	608	1997 RZ ₅	* 1997 09 02.48823	22 52 25.94	-14 27 30.1	19.5 R	608
1994 QC	1997 08 05.32957	17 43 21.81	+13 13 06.7	17.4 R	608	1997 RZ ₅	1997 09 02.53553	22 52 23.79	-14 27 51.0	18.8 R	608
1994 QC	1997 08 05.36298	17 43 24.63	+13 11 21.1	17.4 R	608	1997 RZ ₅	1997 09 03.45473	22 51 44.08	-14 34 37.3	19.4 R	608
1994 QC	1997 08 06.31604	17 44 57.54	+12 21 13.6	18.3 R	608	1997 RZ ₅	1997 09 03.50308	22 51 41.83	-14 34 59.0	19.5 R	608
1994 QC	1997 08 06.34597	17 45 00.15	+12 19 39.4	18.1 R	608	1997 RA ₆	* 1997 09 02.48823	22 52 26.38	-14 33 01.9	18.5 R	608
1994 QC	1997 08 07.32811	17 46 37.82	+11 27 58.8	18.2 R	608	1997 RA ₆	1997 09 02.53553	22 52 23.51	-14 33 11.9	18.4 R	608
1994 QC	1997 08 07.34272	17 46 39.12	+11 27 13.0	18.4 R	608	1997 RA ₆	1997 09 03.45473	22 51 31.19	-14 36 31.3	18.5 R	608
1994 QC	1997 08 08.35979	17 48 22.27	+10 33 43.2	17.6 R	608	1997 RA ₆	1997 09 03.50308	22 51 28.27	-14 36 41.2	19.0 R	608
1994 QC	1997 08 08.38078	17 48 24.22	+10 32 36.7	17.6 R	608	1997 RB ₆	* 1997 09 03.47129	21 37 57.69	-06 54 11.5	17.8 R	608
1994 TF ₂	1997 09 02.49636	02 30 19.53	+13 33 33.4	20.0 R	608	1997 RB ₆	1997 09 03.51831	21 37 54.99	-06 54 09.1	17.8 R	608
1996 JU	1997 08 13.44204	22 04 45.42	-02 51 33.0	18.7 R	608	1997 RB ₆	1997 09 04.44516	21 37 03.98	-06 53 23.8	17.9 R	608
1996 JU	1997 08 13.47282	22 04 43.78	-02 51 53.6	18.7 R	608	1997 RB ₆	1997 09 04.49068	21 37 01.39	-06 53 21.5	17.8 R	608
1996 JU	1997 09 06.43006	21 44 39.29	-07 58 33.5	17.5 R	608	1997 RC ₆	1997 09 05.45722	22 55 17.44	-03 41 36.2	16.8 R	608
1996 JU	1997 09 06.49747	21 44 36.15	-07 59 24.7	17.3 R	608	1997 RC ₆	1997 09 05.49921	22 55 15.92	-03 42 14.6	16.9 R	608
1996 JK ₁	1997 09 02.49969	23 33 40.46	+14 58 11.8	16.9 R	608	1997 RC ₆	1997 09 06.43225	22 54 46.70	-03 56 33.8	17.3 R	608
1996 JK ₁	1997 09 02.54338	23 33 38.45	+14 57 57.4	16.9 R	608	1997 RC ₆	1997 09 06.49967	22 54 44.24	-03 57 36.0	16.9 R	608
1997 PO	1997 08 30.43335	20 14 21.86	-23 20 19.3	17.8 R	608	1997 RD ₆	* 1997 09 05.47109	22 38 42.12	-15 48 01.6	19.2 R	608
1997 PO	1997 08 30.48233	20 14 22.90	-23 21 23.7	18.1 R	608	1997 RD ₆	1997 09 05.50650	22 38 40.04	-15 48 09.6	19.3 R	608
1997 PB ₃	* 1997 08 05.35089	22 03 24.74	-06 49 11.9	16.4 R	608	1997 RD ₆	1997 09 06.44912	22 37 46.80	-15 51 44.6	19.0 R	608
1997 PB ₃	1997 08 05.40346	22 03 22.00	-06 49 04.7	16.2 R	608	1997 RD ₆	1997 09 06.51399	22 37 43.01	-15 51 58.9	19.0 R	608
1997 PB ₃	1997 08 06.34263	22 02 34.06	-06 46 47.3	17.1 R	608	(67)	1997 08 05.33242	21 04 39.01	-04 47 29.9	11.3 R	608
1997 PB ₃	1997 08 06.39588	22 02 31.20	-06 46 40.2	17.2 R	608	(67)	1997 08 05.39779	21 04 35.69	-04 47 50.4	11.2 R	608
1997 PB ₃	1997 08 07.34567	22 01 42.08	-06 44 26.5	16.6 R	608	(106)	1997 08 05.35223	19 02 17.95	-27 43 09.9	12.3 R	608
1997 PB ₃	1997 08 07.40379	22 01 38.93	-06 44 19.2	17.1 R	608	(106)	1997 08 05.39649	19 02 16.10	-27 43 12.2	12.4 R	608
1997 PJ ₅	* 1997 08 07.32498	18 01 08.68	-23 17 45.0	18.3 R	608	(185)	1997 08 05.31990	16 27 12.19	+05 25 05.7	11.6 R	608
1997 PJ ₅	1997 08 07.36745	18 01 08.08	-23 17 47.5	18.3 R	608	(185)	1997 08 05.34930	16 27 12.47	+05 24 46.8	11.7 R	608
1997 PJ ₅	1997 08 08.39466	18 00 56.53	-23 18 49.8	17.0 R	608	(218)	1997 08 05.32798	17 51 43.35	-02 40 52.3	13.4 R	608
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1997 PK ₅	1997 08 07.40058	19 36 15.08	-22 04 09.0	18.6 R	608	(218)	1997 08 07.32214	17 51 33.36	-02 58 58.4	13.4 R	608
1997 PK ₅	1997 08 09.36133	19 34 48.14	-22 08 45.9	19.3 R	608	(218)	1997 08 07.36073	17 51 33.15	-02 59 19.5	13.4 R	608
1997 PY ₅	* 1997 08 14.44204	00 20 31.87	+05 59 43.7		608	(297)	1997 08 05.37183	19 45 43.95	-27 30 44.3	13.9 R	608
1997 PY ₅	1997 08 14.58071	00 20 29.78	+05 59 43.7		608	(297)	1997 08 05.40221	19 45 42.49	-27 30 41.6	13.7 R	608
1997 PY ₅	1997 08 15.45017	00 20 18.23	+05 59 31.9		608	(305)	1997 08 01.45252	21 58 24.39	-06 30 07.4	14.3 R	608
1997 PY ₅	1997 08 15.49788	00 20 17.43	+05 59 31.3		608	(305)	1997 08 01.49188	21 58 22.83	-06 30 15.0	14.4 R	608
1997 RA	1997 09 02.48075	21 52 52.73	-24 15 17.1	17.7 R	608	(442)	1997 08 05.33114	20 48 33.84	-17 04 33.6	12.9 R	608
1997 RA	1997 09 02.52538	21 52 51.15	-24 15 12.5	17.8 R	608	(442)	1997 08 05.39063	20 48 30.31	-17 04 58.3	13.0 R	608
1997 RT	1997 09 03.48037	00 46 25.33	+29 09 50.6	16.2 R	608	(513)	1997 08 01.45124	21 58 08.73	-02 13 07.7	14.4 R	608
1997 RT	1997 09 03.52820	00 46 34.83	+29 12 55.2	16.3 R	608	(513)	1997 08 01.49048	21 58 07.24	-02 13 17.5	14.4 R	608
1997 RM ₁	1997 09 06.42380	20 27 19.39	-25 54 59.9	15.7 R	608	(513)	1997 08 06.33790	21 55 01.95	-02 35 15.3	14.3 R	608
1997 RM ₁	1997 09 06.48973	20 27 21.41	-25 54 16.9	15.5 R	608	(513)	1997 08 06.39398	21 54 59.64	-02 35 31.8	14.3 R	608

1997 SEPT.16

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(521)	1997 08 05.38477	16 27 57.65	-20 35 43.2	13.5 R	608
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(1583)	1997 08 15.46223	01 52 24.77	+23 05 03.8	14.9 R	608
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(1943)	1997 08 14.42990	21 42 49.45	+16 46 28.9	15.0 R	608
(1943)	1997 08 15.43032	21 41 15.18	+16 34 46.0	15.2 R	608
(1959)	1997 08 15.51459	01 28 22.23	+18 38 41.4	15.9 R	608
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(2100)	1997 08 15.51642	01 45 29.84	+22 29 15.1	15.9 R	608
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(2966)	1997 08 13.45758	23 05 50.79	-10 12 31.8	17.6 R	608
(2966)	1997 08 13.47844	23 05 49.80	-10 12 38.0	17.7 R	608
(2966)	1997 08 14.43814	23 05 06.68	-10 17 25.6	16.0 R	608
(2966)	1997 08 14.48266	23 05 04.53	-10 17 40.5	16.5 R	608
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(3288)	1997 08 15.45408	00 32 19.50	+09 59 12.6	19.3 R	608
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(3619)	1997 08 28.42975	00 54 39.48	+04 00 32.8	15.9 R	608
(3619)	1997 08 28.48225	00 54 39.42	+04 00 17.5	14.2 R	608
(3750)	1997 08 15.43918	22 59 58.62	-15 39 19.4	16.3 R	608
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(5819)	1997 09 05.52290	02 10 42.26	+07 09 27.2	16.2 R	608
(5879)	1997 09 04.47978	02 02 15.01	-13 22 15.7	19.8 R	608
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(6611)	1997 08 30.45223	23 06 25.97	+08 38 21.7	19.9 R	608
(6611)	1997 08 30.52290	23 06 20.53	+08 37 52.0	19.7 R	608
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(7829)	1997 08 15.46703	21 53 56.60	+19 45 42.1	16.8 R	608

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Observers V. Goretti, A. Boattini

Measurer V. Goretti

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

GSC

1975 UF	1997 08 31.86610	21 59 39.48	-14 27 51.3	17.1 V	610	1989 SF ₁	1997 07 26.97863	20 25 05.27	-10 34 59.7	610
1975 UF	1997 08 31.87840	21 59 38.91	-14 27 54.9		610	1989 SF ₁	1997 07 26.98524	20 25 04.94	-10 35 02.1	610
1975 UF	1997 08 31.88839	21 59 38.45	-14 27 57.9		610	1990 RN ₃	1997 07 15.84821	19 08 29.22	-11 31 59.2	16.0 V 610
1975 UF	1997 09 01.85274	21 58 56.62	-14 32 13.1		610	1990 RN ₃	1997 07 15.86214	19 08 28.50	-11 32 02.8	610
1975 UF	1997 09 01.85966	21 58 56.31	-14 32 14.9		610	1990 RN ₃	1997 07 15.87530	19 08 27.81	-11 32 06.1	610
1975 UF	1997 09 01.86660	21 58 55.99	-14 32 16.7		610	1990 RN ₃	1997 07 22.84666	19 03 15.14	-12 04 09.7	16.0 V 610
1978 QC ₃	1997 07 27.00144	21 25 25.40	-15 12 52.2	16.0 V	610	1990 RN ₃	1997 07 22.85080	19 03 14.96	-12 04 10.9	610
1978 QC ₃	1997 07 27.01758	21 25 24.70	-15 12 59.2		610	1990 RN ₃	1997 07 22.85494	19 03 14.79	-12 04 12.1	610
1978 QC ₃	1997 07 27.02789	21 25 24.25	-15 13 03.6		610	1990 RP ₉	1997 07 15.85541	19 17 40.96	-14 38 43.5	15.8 V 610
1978 QC ₃	1997 07 31.03569	21 22 28.68	-15 42 41.4	16.4 V	610	1990 RP ₉	1997 07 15.86594	19 17 40.34	-14 38 43.2	610
1978 QC ₃	1997 07 31.04428	21 22 28.27	-15 42 45.3		610	1990 RP ₉	1997 07 15.87826	19 17 39.61	-14 38 42.9	610
1978 QC ₃	1997 07 31.05265	21 22 27.87	-15 42 49.1		610	1990 RP ₉	1997 07 22.86391	19 11 09.94	-14 36 28.7	610
1981 EG ₅	1997 07 27.01066	21 47 24.36	-15 18 56.5	16.1 V	610	1990 RP ₉	1997 07 22.86775	19 11 09.77	-14 36 28.7	610
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1981 EK ₂₅	1997 07 27.00782	21 40 31.83	-13 37 14.8	16.6 V	610	1992 PD ₂	1997 07 15.86416	19 11 32.65	-10 15 17.7	610
1981 EK ₂₅	1997 07 27.02170	21 40 31.20	-13 37 16.9		610	1992 PD ₂	1997 07 15.87650	19 11 32.04	-10 15 17.0	610
1981 EK ₂₅	1997 07 27.03201	21 40 30.74	-13 37 18.4		610	1992 PD ₂	1997 07 26.87935	19 03 40.76	-10 39 42.9	16.5 V 610
1981 EK ₂₅	1997 07 31.03844	21 37 22.55	-13 46 31.9	16.5 V	610	1992 PD ₂	1997 07 26.89314	19 03 40.28	-10 39 46.7	610
1981 EK ₂₅	1997 07 31.04704	21 37 22.12	-13 46 33.0		610	1992 PD ₂	1997 07 26.89883	19 03 40.09	-10 39 48.3	610
1981 EK ₂₅	1997 07 31.05541	21 37 21.70	-13 46 34.0		610	1993 FL ₈₄	1997 07 15.89238	20 05 23.78	-04 55 31.3	15.5 V 610
1982 JD ₁	1997 07 15.88877	19 50 54.02	-04 32 06.0	16.3 V	610	1993 FL ₈₄	1997 07 15.90115	20 05 23.28	-04 55 32.9	610
1982 JD ₁	1997 07 15.89837	19 50 53.49	-04 32 06.7		610	1993 FL ₈₄	1997 07 15.91067	20 05 22.74	-04 55 34.6	610
1982 JD ₁	1997 07 15.90793	19 50 52.97	-04 32 07.4		610	1993 FL ₈₄	1997 07 22.88861	19 59 09.24	-05 25 39.0	15.4 V 610
1982 JD ₁	1997 07 26.88365	19 41 08.57	-05 00 57.9	16.7 V	610	1993 FL ₈₄	1997 07 22.89345	19 59 08.96	-05 25 41.0	610
1982 JD ₁	1997 07 26.89679	19 41 07.92	-05 01 00.3		610	1993 FL ₈₄	1997 07 22.89829	19 59 08.67	-05 25 42.9	610
1982 JD ₁	1997 07 26.90248	19 41 07.64	-05 01 01.3		610	1997 QC ₃	* 1997 08 31.86610	21 59 23.72	-14 32 19.3	17.8 V 610
1984 QM	1997 07 27.00391	21 19 58.93	-17 08 17.8	15.9 V	610	1997 QC ₃	1997 08 31.87840	21 59 23.00	-14 32 22.2	610
1984 QM	1997 07 27.01964	21 19 58.03	-17 08 18.6		610	1997 QC ₃	1997 08 31.88839	21 59 22.42	-14 32 24.5	610
1984 QM	1997 07 27.02994	21 19 57.44	-17 08 19.2		610	1997 QC ₃	1997 09 01.85274	21 58 27.83	-14 36 04.0	610
1984 QM	1997 07 31.03294	21 16 22.37	-17 11 21.1	15.7 V	610	1997 QC ₃	1997 09 01.85966	21 58 27.40	-14 36 05.7	610
1984 QM	1997 07 31.04155	21 16 21.85	-17 11 21.5		610	1997 QC ₃	1997 09 01.86660	21 58 26.97	-14 36 07.4	610
1984 QM	1997 07 31.04990	21 16 21.35	-17 11 22.0		610	1997 RB ₁	* 1997 09 01.88206	22 00 56.67	-03 44 07.3	17.1 V 610
1986 RS ₂	1997 07 15.85858	19 24 29.89	-14 45 19.5	16.5 V	610	1997 RB ₁	1997 09 01.88690	22 00 56.41	-03 44 08.8	610
1986 RS ₂	1997 07 15.86861	19 24 29.27	-14 45 21.5		610	1997 RB ₁	1997 09 01.89175	22 00 56.15	-03 44 10.3	610
1986 RS ₂	1997 07 15.88002	19 24 28.57	-14 45 23.9		610	1997 RB ₁	1997 09 02.93999	22 00 01.26	-03 48 54.2	610
1986 RS ₂	1997 07 26.88149	19 13 53.42	-15 21 07.7	17.0 V	610	1997 RB ₁	1997 09 02.94484	22 00 00.96	-03 48 55.2	610
1986 RS ₂	1997 07 26.89497	19 13 52.73	-15 21 10.0		610	1997 RB ₁	1997 09 02.94970	22 00 00.67	-03 48 56.3	610
1986 RS ₂	1997 07 26.90066	19 13 52.43	-15 21 10.9		610	1997 RB ₁	1997 09 06.91087	21 56 44.07	-04 06 58.7	610
1987 RV ₃	1997 07 15.89586	20 08 27.82	-12 18 59.2	16.0 V	610	1997 RB ₁	1997 09 06.91641	21 56 43.77	-04 07 00.0	610
1987 RV ₃	1997 07 15.90387	20 08 27.43	-12 18 59.2		610	1997 RB ₁	1997 09 06.92196	21 56 43.46	-04 07 01.3	610
1987 RV ₃	1997 07 15.91340	20 08 26.95	-12 18 59.3		610	1997 RD ₇	* 1997 09 09.97466	22 15 12.68	-12 11 37.5	17.5 V 610
1987 RV ₃	1997 07 30.83684	19 55 12.97	-12 48 34.6	16.0 V	610	1997 RD ₇	1997 09 09.97744	22 15 12.53	-12 11 38.5	610
1987 RV ₃	1997 07 30.84400	19 55 12.58	-12 48 35.9		610	1997 RD ₇	1997 09 09.98022	22 15 12.38	-12 11 39.5	610
1987 RV ₃	1997 07 30.85116	19 55 12.20	-12 48 37.1		610	1997 RD ₇	1997 09 10.92583	22 14 32.22	-12 14 21.8	610
1989 PU	1997 07 26.97355	20 26 34.62	-04 38 10.2	15.2 V	610	1997 RD ₇	1997 09 10.93168	22 14 31.93	-12 14 23.4	610
1989 PU	1997 07 26.98071	20 26 34.26	-04 38 21.3		610	1997 RD ₇	1997 09 10.93754	22 14 31.64	-12 14 25.0	610
1989 PU	1997 07 26.98730	20 26 33.93	-04 38 31.6		610	6065 P-L	1997 09 09.97466	22 15 14.83	-12 12 05.1	17.0 V 610
1989 PU	1997 07 30.87457	20 23 24.46	-06 21 44.4		610	6065 P-L	1997 09 09.97744	22 15 14.67	-12 12 05.5	610
1989 PU	1997 07 30.88148	20 23 24.11	-06 21 55.5		610	6065 P-L	1997 09 09.98022	22 15 14.51	-12 12 06.0	610
1989 PU	1997 07 30.88841	20 23 23.76	-06 22 06.7		610	6065 P-L	1997 09 10.92583	22 14 31.26	-12 13 13.9	17.1 V 610
1989 SF ₁	1997 07 26.97110	20 25 05.65	-10 34 56.9	16.4 V	610	6065 P-L	1997 09 10.93168	22 14 30.96	-12 13 14.7	610

6065 P-L	1997 09 10.93754	22 14 30.65	-12 13 15.5		610
(2626)	1997 07 27.01414	21 19 02.32	-17 18 05.4	15.8 V	610
(2626)	1997 07 27.02583	21 19 01.78	-17 18 07.8		610
(2626)	1997 07 27.03613	21 19 01.31	-17 18 10.0		610
(6269)	1997 07 31.01372	21 03 18.52	-11 15 48.3	15.6 V	610
(6269)	1997 07 31.01924	21 03 18.24	-11 15 50.8		610
(6269)	1997 07 31.02479	21 03 17.97	-11 15 53.4		610
(6992)	1997 07 27.01414	21 20 02.56	-17 17 32.6	15.5 V	610
(6992)	1997 07 27.02583	21 20 02.09	-17 17 37.2		610
(6992)	1997 07 27.03613	21 20 01.66	-17 17 41.4		610
(7809)	1997 07 15.91992	20 17 47.65	-14 38 38.8	16.4 V	610
(7809)	1997 07 15.92856	20 17 47.18	-14 38 38.1		610
(7809)	1997 07 15.93690	20 17 46.72	-14 38 37.4		610
(7809)	1997 07 26.94084	20 06 44.18	-14 26 49.1	16.7 V	610
(7809)	1997 07 26.94947	20 06 43.58	-14 26 48.8		610
(7809)	1997 07 26.95655	20 06 43.08	-14 26 48.6		610
(7817)	1997 07 26.98277	20 31 36.99	-18 58 16.0	16.3 V	610
(7817)	1997 07 26.98938	20 31 36.59	-18 58 17.6		610
(7817)	1997 07 26.99612	20 31 36.18	-18 58 19.1		610
(7817)	1997 07 30.90662	20 28 10.80	-19 11 16.8	16.4 V	610
(7817)	1997 07 30.91353	20 28 10.41	-19 11 18.2		610
(7817)	1997 07 30.92044	20 28 10.02	-19 11 19.7		610
(7828)	1997 07 15.91749	20 17 31.84	-00 46 24.2	16.4 V	610
(7828)	1997 07 15.92579	20 17 31.44	-00 46 24.7		610
(7828)	1997 07 15.93481	20 17 31.01	-00 46 25.2		610
(7828)	1997 07 26.94348	20 09 28.71	-01 10 02.0	16.5 V	610
(7828)	1997 07 26.95153	20 09 28.38	-01 10 04.0		610
(7828)	1997 07 26.95860	20 09 28.09	-01 10 05.7		610
(7843)	1997 07 15.89056	19 56 22.33	-15 23 11.9	15.3 V	610
(7843)	1997 07 15.89976	19 56 21.78	-15 23 11.3		610
(7843)	1997 07 15.90931	19 56 21.21	-15 23 10.6		610
(7843)	1997 07 22.91166	19 49 08.34	-15 10 16.3	15.2 V	610
(7843)	1997 07 22.91580	19 49 08.10	-15 10 16.1		610
(7843)	1997 07 22.91994	19 49 07.87	-15 10 16.0		610
(7848)	1997 07 26.94700	20 10 45.04	-22 13 55.3	16.2 V	610
(7848)	1997 07 26.95360	20 10 44.67	-22 13 55.8		610
(7848)	1997 07 26.96067	20 10 44.28	-22 13 56.3		610

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F. Hormuth, W. Ernst

Measurers M. Busch, J. Rothmel, F. Hormuth, R. Stoss

0.2-m $f/6$ reflector + CCD

GSC

1991 AC ₃	1997 09 10.97396	00 17 32.06	-03 15 59.6	18.3 R	611
1991 AC ₃	1997 09 10.99410	00 17 31.08	-03 16 08.3	17.8 R	611
1991 OK ₁	1997 08 29.96736	22 00 07.52	-05 35 24.3	16.8 R	611
1991 OK ₁	1997 08 29.98090	22 00 06.93	-05 35 25.4	17.0 R	611
1991 OK ₁	1997 08 31.87257	21 58 39.63	-05 39 38.8	17.0 R	611
1991 OK ₁	1997 09 01.83507	21 57 55.83	-05 41 49.2	16.5 R	611
1991 OK ₁	1997 09 01.84201	21 57 55.47	-05 41 49.9	16.7 R	611
1991 OK ₁	1997 09 09.91551	21 52 08.29	-06 00 02.7	17.1 R	611

1991 RK ₇	1997 08 09.98264	22 19 58.64	-05 24 13.5	16.2 R	611
1991 RK ₇	1997 08 31.82882	21 57 50.99	-06 43 22.6	17.0 R	611
1991 RK ₇	1997 08 31.84132	21 57 50.22	-06 43 25.6	16.8 R	611
1997 PK ₂	1997 08 11.88958	22 17 40.40	-05 19 50.9	16.5 R	611
1997 PK ₂	1997 08 11.91111	22 17 39.15	-05 19 51.1	16.5 R	611
1997 PK ₂	1997 08 12.87153	22 16 47.26	-05 19 58.9	17.1 R	611
1997 PK ₂	1997 08 12.90278	22 16 45.41	-05 19 59.8	17.0 R	611
1997 PK ₂	1997 08 24.02718	22 06 05.75	-05 29 28.9	16.5 R	611
1997 PK ₂	1997 08 24.89826	22 05 15.09	-05 30 42.7	16.1 R	611
1997 PK ₂	1997 08 24.91875	22 05 13.85	-05 30 44.5	16.1 R	611
1997 PK ₂	1997 08 25.86215	22 04 19.02	-05 32 08.4	16.0 R	611
1997 PK ₂	1997 08 25.88160	22 04 17.89	-05 32 10.2	16.4 R	611
1997 PK ₂	1997 08 29.96736	22 00 23.74	-05 38 51.7	16.5 R	611
1997 PK ₂	1997 08 29.98090	22 00 22.94	-05 38 53.0	16.1 R	611
1997 PK ₂	1997 08 31.85556	21 58 39.36	-05 42 11.3	15.8 R	611
1997 PK ₂	1997 08 31.87257	21 58 38.40	-05 42 13.2	16.3 R	611
1997 PK ₂	1997 09 01.83507	21 57 46.34	-05 43 58.1	16.2 R	611
1997 PK ₂	1997 09 01.84201	21 57 45.96	-05 43 59.1	17.1 R	611
1997 PK ₂	1997 09 09.88403	21 51 11.08	-05 58 44.5	16.6 R	611
1997 PK ₂	1997 09 09.90903	21 51 09.95	-05 58 47.7	16.2 R	611
1997 PK ₂	1997 09 11.85503	21 49 48.17	-06 02 11.8	16.7 R	611
1997 PK ₂	1997 09 11.88038	21 49 47.10	-06 02 15.1	16.5 R	611
(2100)	1997 09 09.99010	01 24 20.81	+05 09 26.8	14.3 R	611
(2100)	1997 09 09.99444	01 24 20.15	+05 09 07.6	14.3 R	611

616 Brno

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Observer D. Hanžl

Measurer F. Hroch

0.40-m $f/4.4$ reflector + CCD

GSC

(683)	1997 08 13.89156	19 44 08.64	-02 10 17.5		616
(683)	1997 08 13.89612	19 44 08.46	-02 10 17.9		616
(683)	1997 08 13.90099	19 44 08.30	-02 10 18.7		616
(683)	1997 08 13.90203	19 44 08.25	-02 10 18.5		616
(683)	1997 08 13.90405	19 44 08.17	-02 10 18.6		616
(683)	1997 08 14.83486	19 43 33.46	-02 11 40.0		616
(683)	1997 08 14.83662	19 43 33.36	-02 11 40.3		616
(683)	1997 08 14.83829	19 43 33.26	-02 11 40.3		616
(683)	1997 08 14.84238	19 43 33.12	-02 11 40.6		616
(683)	1997 08 14.84407	19 43 33.08	-02 11 40.8		616
(683)	1997 08 14.84576	19 43 33.01	-02 11 40.8		616
(702)	1997 08 10.09295	04 07 51.85	+38 26 54.5		616
(702)	1997 08 10.09539	04 07 52.05	+38 26 55.5		616
(702)	1997 08 10.10122	04 07 52.50	+38 26 57.6		616
(702)	1997 08 12.10231	04 10 10.46	+38 36 58.3		616
(702)	1997 08 12.10425	04 10 10.57	+38 36 58.4		616
(702)	1997 08 12.10518	04 10 10.66	+38 36 59.0		616
(702)	1997 08 12.11148	04 10 11.09	+38 37 00.9		616

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[astrosab@redestb.es]

Observers F. Casarramona, E. Vigil

0.51-m $f/3.9$ reflector + CCD

GSC

1980 PF	1997 08 28.85154	22 09 56.80	-04 15 25.6	16.4 I	619
1980 PF	1997 08 28.85844	22 09 56.38	-04 15 25.6	16.7 I	619
1980 PF	1997 08 28.89497	22 09 54.00	-04 15 23.3	16.6 I	619
1980 PF	1997 08 29.97257	22 08 46.63	-04 14 12.0		619
1980 PF	1997 08 29.99055	22 08 45.46	-04 14 10.8		619
1981 UT ₇	1997 08 30.03054	22 40 15.54	-09 30 01.1		619
1981 UT ₇	1997 08 30.06409	22 40 14.03	-09 30 11.6		619
1981 UT ₇	1997 08 31.83949	22 38 57.57	-09 39 18.2		619
1981 UT ₇	1997 08 31.84456	22 38 57.26	-09 39 19.4		619
1981 UT ₇	1997 08 31.87422	22 38 56.02	-09 39 29.0	15.7 I	619
1982 TK	1997 08 30.04618	23 53 26.55	-08 26 32.8		619
1982 TK	1997 08 30.07176	23 53 25.51	-08 26 41.1		619
1982 TK	1997 08 30.07719	23 53 25.29	-08 26 42.9		619
1982 TK	1997 08 31.86096	23 52 16.38	-08 36 32.0		619
1982 TK	1997 08 31.88493	23 52 15.40	-08 36 40.8		619
1987 UP ₂	1997 08 28.86899	23 35 04.88	+05 32 12.8	15.3 I	619
1987 UP ₂	1997 08 28.87742	23 35 04.58	+05 32 11.9	15.3 I	619
1987 UP ₂	1997 08 28.88625	23 35 04.28	+05 32 11.2	15.3 I	619
1987 UP ₂	1997 08 28.90399	23 35 03.69	+05 32 09.4	15.3 I	619
1987 UP ₂	1997 08 29.98089	23 34 28.90	+05 30 11.6		619
1987 UP ₂	1997 08 30.01699	23 34 27.59	+05 30 07.3		619
1997 RD ₁	1997 09 03.91311	21 34 05.20	-04 26 19.3	16.3 I	619
1997 RD ₁	1997 09 03.91925	21 34 05.28	-04 26 28.0	16.4 I	619
1997 RD ₁	1997 09 03.92726	21 34 05.37	-04 26 38.6	16.6 I	619
1997 RD ₁	1997 09 06.01418	21 34 40.77	-05 14 28.1		619
1997 RD ₁	1997 09 06.02137	21 34 40.83	-05 14 37.6		619

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Observers R. Pacheco, A. Lopez

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

PPM, GSC 1.2

1993 OG ₁₃	1997 08 25.89086	21 47 46.49	-11 59 32.9	17.3	620
1993 OG ₁₃	1997 08 25.93333	21 47 43.94	-11 59 44.9		620
1993 OG ₁₃	1997 08 25.95891	21 47 42.40	-11 59 52.1	17.3	620
1997 NP ₂	1997 08 13.91042	20 14 43.55	-10 39 05.2	18.1	620
1997 NP ₂	1997 08 13.95162	20 14 41.58	-10 39 18.8		620
1997 NP ₂	1997 08 13.97928	20 14 40.26	-10 39 28.0	17.9	620
1997 NP ₂	1997 08 29.89549	20 06 20.24	-12 06 59.0		620
1997 NP ₂	1997 08 29.93229	20 06 19.58	-12 07 09.4		620
1997 NP ₂	1997 08 29.95359	20 06 19.14	-12 07 15.7		620
1997 OZ	1997 08 11.89271	20 51 40.94	-21 16 00.7		620
1997 OZ	1997 08 11.90440	20 51 40.40	-21 16 03.9		620
1997 OZ	1997 08 11.91701	20 51 39.82	-21 16 07.4		620
1997 OZ	1997 08 29.90197	20 40 18.33	-22 02 33.7		620

1997 OZ	1997 08 29.93588	20 40 17.27	-22 02 37.3		620
1997 OZ	1997 08 29.95648	20 40 16.63	-22 02 39.5		620
1997 OB ₂	1997 08 11.87951	20 47 27.02	-20 13 13.3		620
1997 OB ₂	1997 08 11.89641	20 47 26.03	-20 13 11.3		620
1997 OB ₂	1997 08 11.90961	20 47 25.25	-20 13 09.7		620
1997 OC ₂	1997 08 11.93009	21 13 37.47	-13 41 57.0		620
1997 OC ₂	1997 08 11.96250	21 13 35.54	-13 42 06.2		620
1997 OC ₂	1997 08 11.99132	21 13 33.82	-13 42 14.3		620
1997 OD ₂	1997 08 11.93009	21 14 35.10	-13 48 51.9		620
1997 OD ₂	1997 08 11.96250	21 14 33.38	-13 49 02.8		620
1997 OD ₂	1997 08 11.99132	21 14 31.86	-13 49 12.4		620
1997 OE ₂	1997 08 11.93519	21 14 55.31	-14 23 04.6		620
1997 OE ₂	1997 08 11.96632	21 14 53.62	-14 23 19.3		620
1997 OE ₂	1997 08 11.99653	21 14 51.93	-14 23 33.5		620
1997 OE ₂	1997 08 29.90822	21 01 19.89	-16 31 59.2		620
1997 OE ₂	1997 08 29.93947	21 01 18.71	-16 32 09.3		620
1997 OE ₂	1997 09 03.94734	20 58 48.85	-17 00 09.1		620
1997 OE ₂	1997 09 03.97836	20 58 47.94	-17 00 20.9		620
1997 OE ₂	1997 09 04.00544	20 58 47.14	-17 00 31.3		620
1997 PG ₁	1997 08 11.94155	21 53 27.34	-07 33 47.5	18.1	620
1997 PG ₁	1997 08 11.97002	21 53 24.60	-07 33 26.0	18.2	620
1997 PG ₁	1997 08 11.99988	21 53 21.69	-07 33 02.4	18.6	620
1997 PG ₁	1997 08 25.88461	21 30 51.50	-04 29 45.7	18.0	620
1997 PG ₁	1997 08 25.92975	21 30 47.08	-04 29 11.8		620
1997 PG ₁	1997 08 25.95463	21 30 44.64	-04 28 53.1	18.1	620
1997 PG ₁	1997 09 09.89144	21 09 00.34	-01 26 07.7		620
1997 PG ₁	1997 09 09.93125	21 08 57.37	-01 25 40.4		620
1997 PG ₁	1997 09 09.94109	21 08 56.64	-01 25 33.7		620
1997 PD ₄	* 1997 08 05.91285	22 04 08.92	-08 09 50.7	18.4	620
1997 PD ₄	1997 08 05.95567	22 04 06.65	-08 09 46.9	18.5	620
1997 PD ₄	1997 08 05.99398	22 04 04.62	-08 09 43.6	18.3	620
1997 PD ₄	1997 08 11.97685	21 58 47.05	-08 05 47.9		620
1997 PD ₄	1997 08 12.00625	21 58 45.39	-08 05 45.7	18.3	620
1997 PE ₄	* 1997 08 05.92882	22 02 59.45	-08 24 26.0	17.9	620
1997 PE ₄	1997 08 05.97106	22 02 57.27	-08 24 43.3	18.0	620
1997 PE ₄	1997 08 11.95313	21 57 41.75	-09 00 31.2	17.9	620
1997 PE ₄	1997 08 11.98056	21 57 40.21	-09 00 41.3	18.0	620
1997 PE ₄	1997 08 12.01505	21 57 38.28	-09 00 54.0	18.0	620
1997 PE ₄	1997 08 29.92014	21 41 04.57	-10 58 10.8	17.7	620
1997 PE ₄	1997 08 29.94653	21 41 03.13	-10 58 20.9	17.6	620
1997 PE ₄	1997 08 29.97002	21 41 01.84	-10 58 29.9	17.9	620
1997 PF ₄	* 1997 08 06.91852	21 59 27.56	-08 38 34.0	17.5	620
1997 PF ₄	1997 08 06.93553	21 59 26.67	-08 38 34.2	17.5	620
1997 PF ₄	1997 08 06.95972	21 59 25.41	-08 38 34.5	17.4	620
1997 PF ₄	1997 08 11.98426	21 54 58.57	-08 42 45.5	17.3	620
1997 PF ₄	1997 08 12.01840	21 54 56.62	-08 42 47.2	17.2	620
1997 PF ₄	1997 08 13.92963	21 53 11.15	-08 44 56.1	17.4	620
1997 PF ₄	1997 08 13.99363	21 53 07.38	-08 44 59.9	17.6	620
1997 PF ₄	1997 08 15.93924	21 51 18.38	-08 47 23.5		620
1997 PF ₄	1997 08 15.95972	21 51 17.19	-08 47 26.3		620
1997 PF ₄	1997 08 29.91597	21 38 21.17	-09 09 00.6		620
1997 PF ₄	1997 08 29.94282	21 38 19.70	-09 09 03.6		620

1997 SEPT.16

M.P.C. 30571

1997 PF ₄	1997 08 29.96516	21 38 18.52	-09 09 05.2	620	1997 PG ₅	1997 08 11.96632	21 15 19.18	-14 16 12.6	620
1997 PR ₄	* 1997 08 11.94155	21 53 51.96	-07 37 21.1 17.8	620	1997 PG ₅	1997 08 11.99653	21 15 17.66	-14 16 23.4	620
1997 PR ₄	1997 08 11.97002	21 53 50.27	-07 37 24.4 17.4	620	1997 PG ₅	1997 08 13.91609	21 13 49.61	-14 27 41.4 17.5	620
1997 PR ₄	1997 08 11.99988	21 53 48.48	-07 37 28.7 17.4	620	1997 PG ₅	1997 08 13.95613	21 13 47.62	-14 27 56.2 17.7	620
1997 PR ₄	1997 08 13.93553	21 51 55.24	-07 41 56.0	620	1997 PG ₅	1997 08 13.98970	21 13 45.96	-14 28 08.5 17.8	620
1997 PR ₄	1997 08 13.96424	21 51 53.54	-07 41 59.3 17.5	620	1997 PG ₅	1997 08 25.92627	21 05 38.28	-15 33 54.7	620
1997 PR ₄	1997 08 13.99815	21 51 51.54	-07 42 03.3 17.6	620	1997 PG ₅	1997 08 25.95116	21 05 37.30	-15 34 03.1	620
1997 PR ₄	1997 08 25.90984	21 40 04.21	-08 14 11.8	620	1997 PG ₅	1997 08 25.97245	21 05 36.47	-15 34 10.7 17.7	620
1997 PR ₄	1997 08 25.94086	21 40 02.41	-08 14 16.1	620	1997 QW ₂	* 1997 08 25.89086	21 48 13.57	-11 56 13.9 18.1	620
1997 PR ₄	1997 08 25.96250	21 40 01.07	-08 14 19.0 17.5	620	1997 QW ₂	1997 08 25.93333	21 48 10.92	-11 56 08.8	620
1997 PS ₄	* 1997 08 11.94155	21 54 10.25	-07 31 06.4 16.5	620	1997 QW ₂	1997 08 25.95891	21 48 09.33	-11 56 05.7 18.3	620
1997 PS ₄	1997 08 11.97002	21 54 08.53	-07 31 11.7 16.5	620	1997 QW ₂	1997 08 29.92477	21 44 16.06	-11 47 24.2	620
1997 PS ₄	1997 08 11.99988	21 54 06.70	-07 31 18.1 16.5	620	1997 QW ₂	1997 08 29.94988	21 44 14.56	-11 47 21.6	620
1997 PS ₄	1997 08 13.93553	21 52 12.40	-07 38 38.3	620	1997 QW ₂	1997 08 29.97350	21 44 13.15	-11 47 19.1	620
1997 PS ₄	1997 08 13.96424	21 52 10.63	-07 38 45.4 16.3	620	1997 QD ₄	* 1997 08 29.91597	21 38 11.31	-09 02 33.6	620
1997 PS ₄	1997 08 13.99815	21 52 08.53	-07 38 53.8 16.3	620	1997 QD ₄	1997 08 29.94282	21 38 10.20	-09 02 45.7 18.5	620
1997 PS ₄	1997 08 25.91493	21 40 06.88	-08 30 34.9	620	1997 QD ₄	1997 08 29.96516	21 38 09.28	-09 02 55.8 18.7	620
1997 PS ₄	1997 08 25.94410	21 40 05.10	-08 30 43.5 17.1	620	1997 QD ₄	1997 09 03.95162	21 35 18.41	-09 40 44.6 19.1	620
1997 PS ₄	1997 08 25.96574	21 40 03.78	-08 30 49.9	620	1997 QD ₄	1997 09 03.98310	21 35 17.39	-09 40 58.5 18.8	620
1997 PT ₄	1997 08 06.91852	21 59 20.08	-08 31 36.2 18.5	620	1997 QD ₄	1997 09 04.01667	21 35 16.31	-09 41 13.2	620
1997 PT ₄	1997 08 06.93553	21 59 19.30	-08 31 38.4 18.1	620	1997 QE ₄	* 1997 08 29.92014	21 41 45.76	-10 59 45.5 17.0	620
1997 PT ₄	1997 08 06.95972	21 59 18.14	-08 31 41.3	620	1997 QE ₄	1997 08 29.94653	21 41 44.44	-10 59 52.0 16.7	620
1997 PT ₄	* 1997 08 11.95856	21 55 07.15	-08 41 04.1	620	1997 QE ₄	1997 08 29.97002	21 41 43.27	-10 59 56.8 16.5	620
1997 PT ₄	1997 08 11.98426	21 55 05.78	-08 41 06.9 18.7	620	1997 QE ₄	1997 09 03.95625	21 38 17.91	-11 18 00.3 16.8	620
1997 PT ₄	1997 08 12.01840	21 55 03.95	-08 41 10.5 18.6	620	1997 QE ₄	1997 09 03.98854	21 38 16.62	-11 18 07.3 16.9	620
1997 PT ₄	1997 08 13.92963	21 53 22.74	-08 45 33.2 18.8	620	1997 QE ₄	1997 09 04.01204	21 38 15.62	-11 18 12.3 17.4	620
1997 PT ₄	1997 08 13.96019	21 53 21.03	-08 45 37.7	620	1997 QM ₄	* 1997 08 29.98472	23 50 07.60	-01 03 41.5	620
1997 PT ₄	1997 08 13.99363	21 53 19.16	-08 45 42.6 19.0	620	1997 QM ₄	1997 08 30.00926	23 50 06.63	-01 03 53.0 18.1	620
1997 PT ₄	1997 09 03.95162	21 34 39.20	-09 45 19.7 18.3	620	1997 QM ₄	1997 08 30.03819	23 50 05.47	-01 04 06.6 18.3	620
1997 PT ₄	1997 09 03.98310	21 34 37.61	-09 45 24.4	620	1997 QM ₄	1997 09 03.97025	23 46 49.83	-01 43 41.8	620
1997 PT ₄	1997 09 04.01667	21 34 35.91	-09 45 29.4 18.1	620	1997 QM ₄	1997 09 03.99873	23 46 48.60	-01 43 56.8	620
1997 PT ₄	1997 09 05.97836	21 33 08.02	-09 50 58.3	620	1997 QM ₄	1997 09 04.02674	23 46 47.39	-01 44 11.6	620
1997 PT ₄	1997 09 06.00671	21 33 06.72	-09 51 03.3	620	1997 QN ₄	* 1997 08 29.99479	23 49 51.34	-01 28 30.3	620
1997 PT ₄	1997 09 06.02245	21 33 06.00	-09 51 06.1 17.9	620	1997 QN ₄	1997 08 30.01794	23 49 50.41	-01 28 37.6 17.1	620
1997 PT ₄	1997 09 06.03808	21 33 05.28	-09 51 08.9 18.1	620	1997 QN ₄	1997 08 30.04456	23 49 49.33	-01 28 46.4 17.2	620
1997 PU ₄	* 1997 08 11.97685	21 59 46.52	-08 04 37.2	620	1997 QN ₄	1997 09 03.97396	23 46 38.87	-01 54 34.9	620
1997 PU ₄	1997 08 12.00625	21 59 45.05	-08 04 42.4 17.7	620	1997 QN ₄	1997 09 04.00938	23 46 37.32	-01 54 46.6	620
1997 PU ₄	1997 08 13.94213	21 58 08.11	-08 10 07.6 17.7	620	1997 QN ₄	1997 09 04.02998	23 46 36.49	-01 54 53.2	620
1997 PU ₄	1997 08 14.00185	21 58 05.05	-08 10 18.5 17.6	620	1997 QO ₄	* 1997 08 29.99826	23 48 50.20	-01 32 14.5	620
1997 PU ₄	1997 08 14.03993	21 58 03.10	-08 10 25.5 17.6	620	1997 QO ₄	1997 08 30.02813	23 48 48.89	-01 32 24.7 17.8	620
1997 PU ₄	1997 08 25.92072	21 47 55.58	-08 47 41.7	620	1997 QO ₄	1997 08 30.04931	23 48 47.93	-01 32 32.2 17.8	620
1997 PU ₄	1997 08 25.94763	21 47 54.20	-08 47 45.8	620	1997 QO ₄	1997 09 03.96447	23 45 20.20	-02 00 10.2	620
1997 PU ₄	1997 08 25.96887	21 47 53.10	-08 47 49.8 17.7	620	1997 QO ₄	1997 09 03.99514	23 45 18.80	-02 00 20.8	620
1997 PV ₄	* 1997 08 11.98056	21 57 25.21	-09 11 50.9 16.9	620	1997 QO ₄	1997 09 04.02338	23 45 17.51	-02 00 30.5	620
1997 PV ₄	1997 08 12.01505	21 57 23.65	-09 12 16.6 16.9	620	1997 RD ₁	1997 09 05.88889	21 34 38.98	-05 11 36.6 16.7	620
1997 PV ₄	1997 08 13.97199	21 56 03.25	-09 35 27.9 16.6	620	1997 RD ₁	1997 09 05.90324	21 34 39.19	-05 11 56.2	620
1997 PV ₄	1997 08 14.00498	21 56 01.76	-09 35 52.4 16.7	620	1997 RD ₁	1997 09 05.91829	21 34 39.40	-05 12 16.6	620
1997 PV ₄	1997 08 14.04363	21 56 00.00	-09 36 19.5	620	1997 RM ₁	1997 09 05.87963	20 27 01.67	-26 00 44.1 16.8	620
1997 PV ₄	1997 08 25.89086	21 47 42.07	-11 59 46.2 17.2	620	1997 RM ₁	1997 09 05.89410	20 27 02.10	-26 00 34.9 16.8	620
1997 PV ₄	1997 08 25.93333	21 47 40.25	-12 00 16.0 17.3	620	1997 RM ₁	1997 09 05.90035	20 27 02.28	-26 00 31.0	620
1997 PV ₄	1997 08 25.95891	21 47 39.08	-12 00 33.9	620	1997 RM ₁	1997 09 05.91146	20 27 02.60	-26 00 23.9	620
1997 PG ₅	* 1997 08 11.93519	21 15 20.75	-14 16 01.6 17.7	620	1997 RV ₂	* 1997 09 03.96053	23 43 46.99	-00 47 41.0 17.1	620

1997 RV ₂	1997 09 03.99190	23 43 45.55	-00 47 59.1	17.3	620	1997 QV ₄	1997 09 01.08120	23 43 35.75	+01 10 00.7	20.2 R	621
1997 RV ₂	1997 09 05.99606	23 42 19.76	-01 10 14.6		620	1997 QV ₄	1997 09 03.01888	23 41 55.82	+01 00 02.6	20.1 R	621
1997 RV ₂	1997 09 06.01898	23 42 18.72	-01 10 29.8		620	1997 QV ₄	1997 09 03.02327	23 41 55.57	+01 00 00.2	20.1 R	621
1997 RV ₂	1997 09 06.03391	23 42 18.04	-01 10 39.7	17.2	620	1997 QV ₄	1997 09 03.02765	23 41 55.35	+00 59 59.0	20.2 R	621
1997 RV ₂	1997 09 06.04294	23 42 17.63	-01 10 45.7		620	1997 QV ₄	1997 09 04.00620	23 41 03.74	+00 54 46.8	20.8 R	621
1997 RW ₂	* 1997 09 03.96053	23 44 43.16	-00 48 14.9	18.3	620	1997 QV ₄	1997 09 04.01058	23 41 03.52	+00 54 45.2	20.3 R	621
1997 RW ₂	1997 09 03.99190	23 44 41.58	-00 48 19.7	18.2	620	1997 QV ₄	1997 09 04.01497	23 41 03.20	+00 54 44.2	19.7 R	621
1997 RW ₂	1997 09 04.02002	23 44 40.17	-00 48 24.0	18.2	620	1997 QV ₄	1997 09 10.94918	23 34 41.77	+00 15 13.2	20.6 V	621
1997 RW ₂	1997 09 05.99167	23 43 05.57	-00 54 38.0		620	1997 QV ₄	1997 09 10.95287	23 34 41.60	+00 15 11.4	20.8 V	621
1997 RW ₂	1997 09 06.01516	23 43 04.42	-00 54 41.7	18.0	620	1997 QV ₄	1997 09 10.95657	23 34 41.37	+00 15 09.9	20.6 V	621
1997 RW ₂	1997 09 06.03021	23 43 03.64	-00 54 44.3	18.0	620	1997 QV ₄	1997 09 11.08921	23 34 33.73	+00 14 22.3	20.8 V	621
1997 RU ₆	* 1997 09 05.99606	23 42 48.96	-01 03 37.1	17.1	620	1997 QV ₄	1997 09 11.09290	23 34 33.45	+00 14 20.9	20.6 V	621
1997 RU ₆	1997 09 06.01898	23 42 47.56	-01 03 39.9		620	1997 QV ₄	1997 09 11.99755	23 33 42.52	+00 08 57.5	21.0 V	621
1997 RU ₆	1997 09 06.03391	23 42 46.65	-01 03 41.7		620	1997 QV ₄	1997 09 12.00669	23 33 42.03	+00 08 53.6	21.2 V	621
1997 RU ₆	1997 09 06.04294	23 42 46.10	-01 03 42.8		620	1997 QV ₄	1997 09 12.01038	23 33 41.87	+00 08 51.9	21.3 V	621
1997 RU ₆	1997 09 09.89803	23 38 59.69	-01 13 42.8		620	1997 QV ₄	1997 09 12.01408	23 33 41.61	+00 08 50.6	22.3 V	621
1997 RU ₆	1997 09 09.91898	23 38 58.42	-01 13 46.5		620	1997 RB ₉	* 1997 09 10.94918	23 34 24.78	+00 13 30.8	16.9 V	621
1997 RU ₆	1997 09 09.95069	23 38 56.50	-01 13 52.1		620	1997 RB ₉	1997 09 10.95287	23 34 24.57	+00 13 30.1	16.9 V	621
(314)	1997 09 11.90064	21 34 35.33	-08 02 27.4		620	1997 RB ₉	1997 09 10.95657	23 34 24.38	+00 13 29.5	16.8 V	621
(314)	1997 09 11.90735	21 34 35.14	-08 02 31.0		620	1997 RB ₉	1997 09 11.08921	23 34 17.06	+00 13 07.0	17.0 V	621
(314)	1997 09 11.91360	21 34 34.98	-08 02 34.0		620	1997 RB ₉	1997 09 11.09290	23 34 16.85	+00 13 06.2	17.0 V	621
(314)	1997 09 11.92159	21 34 34.75	-08 02 38.1		620	1997 RB ₉	1997 09 11.99755	23 33 28.59	+00 10 31.7	17.0 V	621
(314)	1997 09 11.92425	21 34 34.69	-08 02 39.4		620	1997 RB ₉	1997 09 12.00669	23 33 28.10	+00 10 30.2	17.0 V	621
(314)	1997 09 11.93061	21 34 34.51	-08 02 42.8		620	1997 RB ₉	1997 09 12.01038	23 33 27.91	+00 10 29.5	17.0 V	621
(314)	1997 09 12.94277	21 34 08.91	-08 11 22.7		620	1997 RB ₉	1997 09 12.01408	23 33 27.69	+00 10 28.9	16.9 V	621
(314)	1997 09 12.96128	21 34 08.43	-08 11 32.0		620	1997 RB ₉	1997 09 14.03957	23 31 38.87	+00 04 30.0	17.0 V	621
(314)	1997 09 12.96354	21 34 08.37	-08 11 33.4		620	1997 RB ₉	1997 09 14.04002	23 31 38.86	+00 04 29.8	16.9 V	621
(314)	1997 09 12.96997	21 34 08.18	-08 11 36.6		620	1997 RC ₉	* 1997 09 10.94918	23 34 31.73	+00 11 54.5	21.3 V	621
(314)	1997 09 12.97922	21 34 07.96	-08 11 41.3		620	1997 RC ₉	1997 09 10.95287	23 34 31.52	+00 11 53.7	21.1 V	621
(314)	1997 09 12.98490	21 34 07.80	-08 11 44.1		620	1997 RC ₉	1997 09 10.95657	23 34 31.32	+00 11 52.2	21.0 V	621
(906)	1997 09 11.94977	04 11 08.83	+22 05 18.2		620	1997 RC ₉	1997 09 11.08921	23 34 24.98	+00 11 13.1	21.2 V	621
(906)	1997 09 11.96412	04 11 09.21	+22 05 22.1		620	1997 RC ₉	1997 09 11.09290	23 34 24.78	+00 11 12.0	22.2 V	621
(906)	1997 09 11.97025	04 11 09.38	+22 05 23.8		620	1997 RC ₉	1997 09 11.99755	23 33 42.52	+00 06 42.3	21.2 V	621
(906)	1997 09 11.97639	04 11 09.53	+22 05 25.5		620	1997 RC ₉	1997 09 12.00669	23 33 42.05	+00 06 39.5	21.1 V	621
(906)	1997 09 11.98171	04 11 09.67	+22 05 27.0		620	1997 RC ₉	1997 09 12.01038	23 33 41.94	+00 06 38.7	21.4 V	621
(906)	1997 09 11.98704	04 11 09.82	+22 05 28.7		620	1997 RC ₉	1997 09 12.01408	23 33 41.71	+00 06 37.6	21.0 V	621
621 Bergisch Gladbach						1997 RD ₉	* 1997 09 10.94918	23 34 53.97	+00 18 01.4	20.8 V	621
W. Bickel, Schau ins Land 21, D-51429 Bergisch Gladbach, Germany [0220455671-0001@t-online.de]						1997 RD ₉	1997 09 10.95287	23 34 53.75	+00 17 59.5	20.5 V	621
0.60-m <i>f</i> /5 reflector + CCD						1997 RD ₉	1997 09 10.95657	23 34 53.59	+00 17 58.5	20.3 V	621
GSC						1997 RD ₉	1997 09 11.08921	23 34 47.43	+00 17 27.6	20.7 V	621
1997 KC	1997 07 29.87243	15 09 21.70	-10 55 44.9	18.3	621	1997 RD ₉	1997 09 11.09290	23 34 47.27	+00 17 26.9	20.3 V	621
1997 KC	1997 07 29.87443	15 09 21.81	-10 55 47.0	18.2	621	1997 RD ₉	1997 09 11.99755	23 34 06.26	+00 13 54.1	21.0 V	621
1997 KC	1997 07 29.87643	15 09 21.92	-10 55 48.9	18.2	621	1997 RD ₉	1997 09 12.00669	23 34 05.87	+00 13 52.2	20.5 V	621
1997 KC	1997 08 04.87013	15 16 18.34	-12 22 43.2	18.7	621	1997 RD ₉	1997 09 12.01038	23 34 05.64	+00 13 51.3	20.8 V	621
1997 KC	1997 08 04.87178	15 16 18.51	-12 22 44.5	18.9	621	1997 RD ₉	1997 09 12.01408	23 34 05.52	+00 13 50.1	21.0 V	621
1997 KC	1997 08 04.87344	15 16 18.65	-12 22 46.4	19.0	621	(1094)	1997 08 05.95475	22 31 13.77	-08 47 28.7	16.1	621
1997 QV ₄	* 1997 08 31.99540	23 43 40.29	+01 10 26.5	20.2 R	621	(1094)	1997 08 05.95740	22 31 13.67	-08 47 29.9	16.1	621
1997 QV ₄	1997 08 31.99909	23 43 40.05	+01 10 25.5	20.4 R	621	(1094)	1997 08 05.96004	22 31 13.56	-08 47 31.4	16.1	621
1997 QV ₄	1997 09 01.00278	23 43 39.93	+01 10 24.5	20.6 R	621	(1094)	1997 08 06.96503	22 30 35.75	-08 56 10.5	16.1	621
1997 QV ₄	1997 09 01.06322	23 43 36.72	+01 10 06.4	20.2 R	621	(1094)	1997 08 06.96676	22 30 35.69	-08 56 11.3	16.2	621
1997 QV ₄	1997 09 01.06691	23 43 36.52	+01 10 05.0	20.4 R	621	(1094)	1997 08 06.96848	22 30 35.63	-08 56 12.3	16.2	621
						(1094)	1997 08 07.94832	22 29 57.81	-09 04 45.6	16.1	621

(1094)	1997 08 07.94993	22 29 57.78	-09 04 46.4	16.1	621	1997 RC ₆	* 1997 09 03.49215	22 56 18.92	-03 11 53.9	17.0	625
(1094)	1997 08 07.95154	22 29 57.70	-09 04 47.2	16.1	621	1997 RC ₆	1997 09 03.50892	22 56 18.63	-03 12 08.1		625
(2966)	1997 08 08.09148	23 09 31.16	-09 47 09.9	17.6	621	1997 RC ₆	1997 09 04.44001	22 55 49.54	-03 26 08.1	17.4	625
(2966)	1997 08 08.09309	23 09 31.06	-09 47 10.1	17.5	621	1997 RC ₆	1997 09 04.47804	22 55 48.18	-03 26 42.7	18.0	625
(2966)	1997 08 08.09470	23 09 31.01	-09 47 10.8	17.6	621	1997 RC ₆	1997 09 04.52238	22 55 46.71	-03 27 21.4	17.7	625
(2966)	1997 08 09.08351	23 08 53.33	-09 51 40.0	17.4	621	1997 RC ₆	1997 09 09.42756	22 53 11.93	-04 43 06.8	18.1	625
(2966)	1997 08 09.08515	23 08 53.25	-09 51 40.3	17.4	621	1997 RC ₆	1997 09 09.46232	22 53 10.76	-04 43 40.0	17.3	625
(2966)	1997 08 09.08680	23 08 53.18	-09 51 40.6	17.4	621	1997 RC ₆	1997 09 09.49322	22 53 09.67	-04 44 09.3	17.3	625
(4033)	1997 08 08.10824	00 04 52.12	-07 23 18.8	18.1	621	(2)	1997 07 18.44765	19 24 57.05	+20 07 16.1	10.3	625
(4033)	1997 08 08.10985	00 04 52.10	-07 23 18.8	18.2	621	(2)	1997 07 18.52185	19 24 53.37	+20 06 51.1	10.3	625
(4033)	1997 08 08.11146	00 04 52.09	-07 23 19.4	18.0	621	(2)	1997 08 05.46283	19 11 38.38	+17 47 57.7	10.4	625
(4033)	1997 08 09.09779	00 04 32.91	-07 26 50.4	18.0	621	(2)	1997 08 05.49831	19 11 37.01	+17 47 36.8	10.6	625
(4033)	1997 08 09.09943	00 04 32.85	-07 26 50.7	17.9	621	(2)	1997 08 05.53003	19 11 35.76	+17 47 18.2	10.6	625
(4033)	1997 08 09.10108	00 04 32.83	-07 26 51.1	18.0	621	(44)	1997 07 24.44421	18 25 29.50	-20 47 12.8	10.6	625
(4033)	1997 08 09.10272	00 04 32.81	-07 26 51.5	17.9	621	(44)	1997 07 24.50202	18 25 26.71	-20 47 20.3	10.8	625
625 Kihei-AMOS Remote Maui Experimental Site						(46)	1997 07 18.40533	15 35 37.42	-16 10 31.3	13.8	625
P. Kervin, Air Force Maui Optical Station, 535 Lipoa Parkway, Suite 200, Kihei,						(46)	1997 07 25.33722	15 37 01.45	-16 21 22.3	13.9	625
Maui, HI 96753, U.S.A. [paul@ulua.mhpcc.af.mil]						(46)	1997 07 25.39247	15 37 02.41	-16 21 28.3	14.0	625
Observers G. Fricke, D. Nishimoto, J. Africano, B. Africano, J. Pye						(51)	1997 07 17.45453	18 48 49.67	-07 08 04.7	10.6	625
Measurers P. Kervin, V. Soo Hoo, P. Sydney, A. Angara, B. McCarthy						(51)	1997 07 17.48433	18 48 48.06	-07 08 13.0	10.8	625
0.30-m Schmidt-Cassegrain + CCD						(57)	1997 07 18.31377	14 19 43.84	-04 35 16.6	13.9	625
1997 PS ₄	1997 09 09.40923	21 27 27.33	-09 35 29.8	17.6	625	(57)	1997 07 18.35825	14 19 44.83	-04 35 22.2	13.8	625
1997 PS ₄	1997 09 09.44604	21 27 25.70	-09 35 39.1	17.7	625	(67)	1997 07 18.50288	21 17 11.03	-03 49 45.8	11.2	625
1997 QG ₂	1997 09 03.48362	21 48 49.87	-06 32 59.0	17.4	625	(67)	1997 07 18.54283	21 17 09.57	-03 49 48.2	11.1	625
1997 QG ₂	1997 09 03.50302	21 48 48.84	-06 33 29.8	17.4	625	(67)	1997 08 05.48665	21 04 31.02	-04 48 18.8	10.8	625
1997 QG ₂	1997 09 04.41296	21 48 09.15	-06 58 36.5	17.6	625	(67)	1997 08 05.51551	21 04 29.60	-04 48 27.2	10.9	625
1997 QG ₂	1997 09 04.45812	21 48 07.07	-06 59 51.3	17.5	625	(67)	1997 08 05.54762	21 04 27.92	-04 48 37.4	11.0	625
1997 QG ₂	1997 09 04.50911	21 48 04.75	-07 01 15.9	17.7	625	(106)	1997 07 15.52156	19 18 38.50	-27 10 40.6	13.2	625
1997 QG ₂	1997 09 09.41277	21 44 43.12	-09 16 11.9	18.0	625	(106)	1997 07 15.54933	19 18 37.06	-27 10 44.2	13.1	625
1997 QG ₂	1997 09 09.45026	21 44 41.64	-09 17 13.5	17.2	625	(108)	1997 07 15.43870	17 40 48.93	-29 12 52.0	13.8	625
1997 QH ₂	1997 09 03.45365	21 27 38.40	-21 33 17.8	16.9	625	(108)	1997 07 15.49452	17 40 46.69	-29 12 45.9	13.6	625
1997 QH ₂	1997 09 03.51303	21 27 35.11	-21 32 48.2	17.0	625	(110)	1997 07 18.31628	14 38 13.08	-16 13 09.5	13.7	625
1997 QH ₂	1997 09 04.39800	21 26 49.28	-21 25 42.6	16.7	625	(110)	1997 07 18.36099	14 38 14.22	-16 13 18.4	13.5	625
1997 QH ₂	1997 09 04.42677	21 26 47.74	-21 25 29.1	17.2	625	(114)	1997 07 18.32022	14 51 04.83	-10 07 16.8	14.0	625
1997 QH ₂	1997 09 09.39339	21 22 56.37	-20 43 12.5	16.7	625	(114)	1997 07 18.39878	14 51 07.38	-10 07 38.0	14.0	625
1997 QH ₂	1997 09 09.43242	21 22 54.59	-20 42 51.8	16.8	625	(119)	1997 07 18.33819	16 44 49.67	-14 43 27.6	14.2	625
1997 QH ₂	1997 09 09.46711	21 22 53.02	-20 42 32.4	16.7	625	(119)	1997 07 18.41725	16 44 48.12	-14 43 30.7	14.1	625
1997 QJ ₂	1997 09 04.40009	21 29 31.16	-22 56 04.8	17.7	625	(119)	1997 07 24.43433	16 43 27.75	-14 49 25.8	13.7	625
1997 QJ ₂	1997 09 04.43086	21 29 30.46	-22 56 18.2	17.5	625	(119)	1997 07 24.49063	16 43 27.27	-14 49 29.2	13.6	625
1997 QJ ₂	1997 09 04.49570	21 29 28.92	-22 56 44.6	16.9	625	(147)	1997 07 24.44754	18 34 14.58	-21 33 31.2	13.4	625
1997 QD ₃	1997 09 03.48362	21 49 35.97	-06 30 20.5	16.9	625	(147)	1997 07 24.50587	18 34 12.21	-21 33 32.2	13.6	625
1997 QD ₃	1997 09 03.50302	21 49 35.04	-06 30 21.7	17.1	625	(163)	1997 07 15.52406	19 23 19.44	-16 17 50.5	13.6	625
1997 RD ₁	1997 09 03.45668	21 33 57.67	-04 15 41.8	16.8	625	(163)	1997 07 15.55188	19 23 17.75	-16 17 55.8	13.6	625
1997 RD ₁	1997 09 03.49881	21 33 58.07	-04 16 38.9	16.6	625	(163)	1997 07 18.44605	19 20 25.40	-16 27 11.5	13.8	625
1997 RD ₁	1997 09 04.40515	21 34 12.66	-04 37 32.7	17.0	625	(163)	1997 07 18.52043	19 20 20.91	-16 27 25.9	14.0	625
1997 RD ₁	1997 09 04.43312	21 34 12.95	-04 38 11.3	16.9	625	(163)	1997 07 25.44217	19 13 41.92	-16 50 11.2	13.7	625
1997 RD ₁	1997 09 09.40000	21 35 54.46	-06 30 25.0	17.3	625	(163)	1997 07 25.48598	19 13 39.40	-16 50 19.7	13.8	625
1997 RD ₁	1997 09 09.43907	21 35 55.25	-06 31 16.3	17.3	625	(163)	1997 07 29.49640	19 10 02.79	-17 03 39.7	13.9	625
1997 RD ₁	1997 09 09.47373	21 35 55.92	-06 32 02.1	17.1	625	(163)	1997 07 29.53843	19 10 00.52	-17 03 48.5	14.2	625
1997 RM ₁	1997 09 03.44918	20 25 47.29	-26 25 54.2	17.1	625	(170)	1997 07 18.49216	20 53 42.70	-15 44 59.4	13.9	625
1997 RM ₁	1997 09 03.47288	20 25 47.55	-26 25 37.8	14.5	625	(170)	1997 07 18.53094	20 53 40.36	-15 44 56.1	14.0	625
1997 RM ₁	1997 09 04.39417	20 26 14.67	-26 16 09.3	17.2	625	(170)	1997 08 05.47875	20 35 03.10	-15 20 47.8	13.6	625

(170)	1997 08 05.51161	20 35 00.99	-15 20 45.2	13.6	625	(396)	1997 07 24.51081	19 01 47.97	-19 44 03.3	13.1	625
(170)	1997 08 05.54371	20 34 58.97	-15 20 41.6	14.0	625	(396)	1997 07 25.43269	19 01 07.33	-19 44 36.1	13.2	625
(185)	1997 07 18.33532	16 27 48.87	+08 25 58.7	12.7	625	(396)	1997 07 25.47779	19 01 05.26	-19 44 37.6	13.3	625
(185)	1997 07 18.41437	16 27 47.64	+08 25 15.3	12.5	625	(396)	1997 07 29.48450	18 58 20.05	-19 46 56.4	13.8	625
(201)	1997 07 18.42674	17 35 29.48	-15 08 42.9	12.2	625	(396)	1997 07 29.52863	18 58 18.31	-19 46 57.6	13.8	625
(201)	1997 07 18.50580	17 35 26.76	-15 08 56.9	12.5	625	(409)	1997 07 15.45640	18 28 56.39	-10 46 35.2	12.8	625
(218)	1997 07 18.42935	17 57 51.41	-00 12 17.2	13.3	625	(409)	1997 07 15.50733	18 28 53.77	-10 46 30.4	12.7	625
(218)	1997 07 18.50863	17 57 48.61	-00 12 51.9	13.3	625	(420)	1997 08 07.55073	22 30 26.17	+00 24 38.2	14.4	625
(234)	1997 07 18.41863	16 54 00.68	-01 32 35.2	13.1	625	(420)	1997 08 07.58422	22 30 25.03	+00 24 34.7	14.3	625
(234)	1997 07 24.43536	16 52 37.95	-02 46 34.5	13.0	625	(430)	1997 08 07.53475	22 04 59.13	+11 28 53.9	15.1	625
(234)	1997 07 24.49168	16 52 37.48	-02 47 18.2	12.8	625	(430)	1997 08 07.56835	22 04 57.58	+11 28 56.1	15.3	625
(236)	1997 07 18.32465	15 29 11.83	-09 50 58.3	13.9	625	(430)	1997 08 07.60577	22 04 55.82	+11 28 57.4	15.5	625
(236)	1997 07 18.40274	15 29 12.19	-09 51 08.4	13.7	625	(442)	1997 07 18.49721	21 04 42.55	-15 01 37.5	13.6	625
(236)	1997 07 25.33312	15 30 19.54	-10 08 55.7	14.2	625	(442)	1997 07 18.53504	21 04 40.63	-15 01 52.2	13.6	625
(236)	1997 07 25.38816	15 30 20.31	-10 09 04.9	14.1	625	(442)	1997 08 05.48400	20 48 24.69	-17 05 38.1	13.4	625
(238)	1997 07 18.33116	15 58 30.50	-05 13 56.2	14.3	625	(442)	1997 08 05.51300	20 48 23.06	-17 05 48.8	13.2	625
(238)	1997 07 18.40662	15 58 30.06	-05 14 10.5	14.3	625	(442)	1997 08 05.54491	20 48 21.19	-17 06 00.6	13.3	625
(238)	1997 07 22.37316	15 58 23.57	-05 27 10.3	14.3	625	(444)	1997 07 18.48737	20 33 28.88	-01 37 05.1	12.2	625
(238)	1997 07 22.44175	15 58 23.58	-05 27 24.9	14.3	625	(444)	1997 07 18.52701	20 33 27.01	-01 37 10.3	12.2	625
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(259)	1997 07 18.40002	14 52 56.47	-11 05 05.1	13.5	625	(444)	1997 08 05.51041	20 19 28.00	-02 48 38.5	12.0	625
(264)	1997 07 25.32190	15 19 34.61	-23 12 47.9	14.8	625	(444)	1997 08 05.54247	20 19 26.45	-02 48 49.6	12.1	625
(264)	1997 07 25.37670	15 19 35.29	-23 12 52.8	15.0	625	(488)	1997 07 18.31217	14 14 42.72	-06 19 09.6	14.2	625
(277)	1997 07 18.50154	21 17 11.00	-13 57 06.9	15.0	625	(488)	1997 07 18.35666	14 14 44.20	-06 19 29.4	14.4	625
(277)	1997 07 18.54157	21 17 09.29	-13 57 12.5	14.9	625	(490)	1997 07 18.33396	16 23 07.26	-09 36 37.0	14.9	625
(277)	1997 07 24.56793	21 12 53.56	-14 14 28.8	14.4	625	(490)	1997 07 18.40921	16 23 06.25	-09 36 46.8	14.6	625
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(286)	1997 07 25.43138	18 59 32.01	-06 18 32.7	14.1	625	(512)	1997 07 24.49954	18 08 22.72	-23 30 42.7	13.1	625
(286)	1997 07 25.47656	18 59 30.13	-06 18 50.2	14.1	625	(517)	1997 07 25.45093	19 33 02.99	-20 08 00.7	15.0	625
(287)	1997 07 24.45409	19 14 35.69	-13 47 51.4	11.1	625	(517)	1997 07 25.49450	19 33 00.82	-20 08 03.8	15.1	625
(287)	1997 07 24.51328	19 14 32.46	-13 48 17.6	11.3	625	(521)	1997 07 18.33672	16 31 43.39	-19 58 40.3	15.4	625
(287)	1997 08 05.46425	19 05 26.66	-15 17 39.8	12.0	625	(521)	1997 07 18.41585	16 31 41.35	-19 58 49.4	15.5	625
(287)	1997 08 05.49974	19 05 25.22	-15 17 55.7	12.0	625	(532)	1997 07 17.46153	19 14 20.11	-23 10 57.3	9.9	625
(287)	1997 08 05.53160	19 05 24.02	-15 18 09.6	12.1	625	(532)	1997 07 17.49430	19 14 18.25	-23 11 10.9	10.0	625
(297)	1997 07 11.52187	20 07 28.86	-27 37 52.1	14.0	625	(561)	1997 08 13.46562	20 42 42.38	-17 10 10.5	17.4	625
(297)	1997 07 11.56397	20 07 26.60	-27 37 53.0	13.9	625	(561)	1997 08 13.48873	20 42 41.33	-17 10 14.0	17.4	625
(297)	1997 08 05.47356	19 45 38.97	-27 30 34.5	14.4	625	(561)	1997 08 13.53673	20 42 39.17	-17 10 22.9	17.2	625
(297)	1997 08 05.53874	19 45 35.90	-27 30 28.6	14.6	625	(603)	1997 09 03.49066	22 52 14.85	-07 44 13.5	16.6	625
(310)	1997 07 25.44339	19 15 25.23	-17 52 40.6	14.2	625	(603)	1997 09 03.50747	22 52 13.84	-07 44 16.1	16.6	625
(310)	1997 07 25.48722	19 15 23.00	-17 52 44.4	14.2	625	(603)	1997 09 04.43573	22 51 21.72	-07 47 19.2	16.7	625
(314)	1997 08 07.52564	21 56 08.40	-03 00 00.6	13.6	625	(603)	1997 09 04.47393	22 51 19.45	-07 47 26.5	16.6	625
(314)	1997 08 07.55919	21 56 07.19	-03 00 16.1	14.2	625	(619)	1997 07 18.34064	17 18 18.17	-02 00 18.3	15.2	625
(314)	1997 08 07.59660	21 56 05.75	-03 00 31.9	14.3	625	(619)	1997 07 18.42000	17 18 15.82	-02 00 39.1	15.3	625
(322)	1997 07 24.44962	18 47 32.33	-15 00 14.8	12.7	625	(635)	1997 08 07.55199	22 40 30.77	+00 25 30.7	14.5	625
(322)	1997 07 24.50825	18 47 29.30	-15 00 11.4	12.7	625	(635)	1997 08 07.58542	22 40 29.64	+00 25 22.6	14.1	625
(354)	1997 07 18.33254	16 22 00.97	+00 20 09.6	12.1	625	(635)	1997 08 07.62305	22 40 28.41	+00 25 11.9	13.9	625
(354)	1997 07 18.40786	16 22 00.16	+00 19 31.6	12.2	625	(640)	1997 08 07.54600	22 23 25.99	+10 31 16.9	13.8	625
(354)	1997 07 22.37755	16 21 33.84	-00 14 13.9	11.9	625	(640)	1997 08 07.61704	22 23 23.36	+10 31 13.7	13.5	625
(354)	1997 07 22.44586	16 21 33.49	-00 14 49.0	12.0	625	(668)	1997 08 07.55324	22 43 25.79	+03 48 32.9	14.8	625
(354)	1997 07 24.42735	16 21 28.45	-00 32 01.4	12.0	625	(668)	1997 08 07.58664	22 43 24.88	+03 48 28.3	14.8	625
(354)	1997 07 24.48352	16 21 28.43	-00 32 30.4	12.3	625	(670)	1997 07 18.49070	20 53 17.45	-07 44 37.5	13.8	625
(396)	1997 07 24.45188	19 01 50.78	-19 44 01.4	13.2	625	(670)	1997 07 18.52962	20 53 15.76	-07 44 45.7	13.7	625

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(670)	1997 07 24.55810	20 48 54.84	-08 09 11.7	13.8	625	(1106)	1997 08 13.58028	20 39 20.87	-24 49 54.6	16.1	625
(670)	1997 07 24.57669	20 48 54.00	-08 09 17.2	13.8	625	(1106)	1997 08 14.50625	20 38 25.84	-24 48 05.4	16.2	625
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(673)	1997 07 29.53674	19 09 05.73	-18 28 10.0	14.7	625	(1129)	1997 08 12.45043	20 26 50.73	-10 27 32.5	15.2	625
(674)	1997 07 11.57842	21 19 51.12	-33 39 52.6	13.5	625	(1129)	1997 08 12.49941	20 26 48.38	-10 27 37.0	15.2	625
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(674)	1997 08 05.48526	20 59 01.71	-35 53 57.7	13.2	625	(1129)	1997 08 13.44522	20 26 05.00	-10 29 11.8	15.2	625
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(683)	1997 07 18.52464	20 04 26.28	-02 09 42.4	15.0	625	(1129)	1997 08 13.52420	20 26 01.23	-10 29 18.7	15.2	625
(683)	1997 08 05.47503	19 49 57.67	-02 01 32.2	14.7	625	(1148)	1997 07 25.42629	18 46 13.72	-12 52 03.8	14.6	625
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(689)	1997 08 07.56279	22 01 37.69	-06 09 33.6	14.5	625	(1169)	1997 09 04.50266	21 34 17.59	-07 17 37.3	16.6	625
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(690)	1997 07 18.40408	15 34 20.30	-19 46 20.3	14.7	625	(1169)	1997 09 09.44385	21 30 20.65	-07 41 20.1	17.0	625
(690)	1997 07 22.37053	15 34 32.05	-19 37 26.5	14.6	625	(1201)	1997 08 12.50602	20 32 48.02	-07 52 34.9	16.1	625
(690)	1997 07 25.33598	15 34 53.49	-19 31 42.2	14.7	625	(1201)	1997 08 12.54697	20 32 46.05	-07 52 46.4	16.0	625
(690)	1997 07 25.39118	15 34 54.00	-19 31 35.9	14.6	625	(1201)	1997 08 13.50147	20 32 01.85	-07 57 32.3	16.1	625
(760)	1997 08 07.55721	22 43 48.70	-07 40 29.5	14.1	625	(1201)	1997 08 13.54944	20 31 59.59	-07 57 45.8	15.9	625
(760)	1997 08 07.59061	22 43 47.35	-07 40 33.1	14.1	625	(1201)	1997 08 14.50084	20 31 16.14	-08 02 32.4	15.6	625
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(799)	1997 07 15.50228	18 15 18.80	-15 45 09.7	14.2	625	(1262)	1997 08 13.52572	20 27 43.59	-20 56 42.6	15.4	625
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(925)	1997 07 11.51680	19 45 42.39	-25 54 53.6	13.6	625	(1413)	1997 09 03.51140	21 10 50.17	-07 40 07.0	16.7	625
(925)	1997 07 11.54822	19 45 40.20	-25 54 45.5	13.3	625	(1413)	1997 09 04.39597	21 10 20.91	-07 45 33.2	16.4	625
(925)	1997 08 05.46951	19 19 37.07	-24 05 26.4	13.3	625	(1413)	1997 09 04.42475	21 10 19.87	-07 45 43.2	16.6	625
(925)	1997 08 05.53492	19 19 33.60	-24 05 06.1	13.5	625	(1433)	1997 08 13.46239	20 41 01.84	-20 34 52.0	16.6	625
(948)	1997 09 04.41534	22 09 52.25	-16 48 55.9	17.2	625	(1433)	1997 08 13.48668	20 41 00.44	-20 34 51.9	16.7	625
(948)	1997 09 04.46762	22 09 49.71	-16 49 02.3	17.2	625	(1433)	1997 08 13.51341	20 40 58.97	-20 34 53.1	16.6	625
(948)	1997 09 09.41503	22 06 06.35	-16 58 07.3	16.4	625	(1433)	1997 08 13.53463	20 40 57.70	-20 34 53.3	16.3	625
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(978)	1997 07 24.45288	19 04 00.48	+10 39 54.7	14.4	625	(1433)	1997 08 14.50831	20 40 04.49	-20 35 18.8	16.0	625
(978)	1997 07 24.51202	19 03 57.83	+10 39 47.7	14.4	625	(1433)	1997 08 14.53534	20 40 03.01	-20 35 19.5	16.0	625
(978)	1997 07 29.48585	19 00 31.58	+10 27 10.9	14.4	625	(1466)	1997 08 07.56399	22 01 50.96	-07 05 46.1	15.7	625
(978)	1997 07 29.53000	19 00 29.75	+10 27 02.4	14.3	625	(1466)	1997 08 07.60142	22 01 49.09	-07 06 10.7	15.9	625
(1001)	1997 08 07.54276	22 19 49.16	+03 27 33.6	14.4	625	(1520)	1997 07 25.44919	19 27 40.57	-06 06 31.2	15.9	625
(1001)	1997 08 07.57626	22 19 47.79	+03 27 32.5	14.4	625	(1520)	1997 07 25.49285	19 27 38.39	-06 06 29.7	16.0	625
(1001)	1997 08 07.61375	22 19 46.31	+03 27 31.6	14.4	625	(1564)	1997 08 07.57000	22 06 31.62	-02 10 50.3	16.1	625
(1106)	1997 08 13.51017	20 39 25.23	-24 50 03.8	16.3	625	(1564)	1997 08 07.60741	22 06 30.17	-02 11 02.5	16.0	625
(1106)	1997 08 13.53229	20 39 23.81	-24 50 00.1	16.2	625	(1564)	1997 09 04.40889	21 47 38.12	-05 21 58.4	15.7	625
(1106)	1997 08 13.55858	20 39 22.29	-24 49 56.7	16.1	625	(1564)	1997 09 04.45619	21 47 36.18	-05 22 19.8	15.6	625

(1564)	1997 09 04.50516	21 47 34.21	-05 22 43.0	15.6	625
(1564)	1997 09 09.41083	21 44 34.95	-06 00 18.7	15.6	625
(1564)	1997 09 09.44801	21 44 33.62	-06 00 35.7	15.6	625
(1564)	1997 09 09.48196	21 44 32.40	-06 00 51.1	15.7	625
(1571)	1997 08 07.55487	22 43 40.87	+07 06 21.7	16.2	625
(1571)	1997 08 07.58829	22 43 39.65	+07 06 25.8	16.3	625
(1734)	1997 08 13.45303	20 32 58.99	-07 28 59.3	15.4	625
(1734)	1997 08 13.50399	20 32 56.62	-07 29 20.0	15.4	625
(1734)	1997 08 14.50226	20 32 12.46	-07 36 13.8	15.5	625
(1734)	1997 08 14.52915	20 32 11.25	-07 36 24.6	15.3	625
(1827)	1997 08 13.48254	20 36 46.01	-11 42 36.4	17.4	625
(1827)	1997 08 13.53023	20 36 43.59	-11 42 47.3	17.4	625
(1943)	1997 09 09.40471	21 14 22.54	+09 40 19.7	16.1	625
(1943)	1997 09 09.47597	21 14 20.22	+09 39 01.5	15.9	625
(1956)	1997 09 04.42000	22 18 05.41	-10 37 26.9	17.6	625
(1956)	1997 09 04.47173	22 18 03.15	-10 37 40.0	17.5	625
(1956)	1997 09 04.51557	22 18 01.28	-10 37 53.2	17.6	625
(1956)	1997 09 09.41729	22 14 42.23	-10 58 11.7	17.6	625
(1956)	1997 09 09.45769	22 14 40.60	-10 58 21.0	17.4	625
(1969)	1997 09 03.49215	22 56 45.54	-03 04 31.9	16.8	625
(1969)	1997 09 03.50892	22 56 44.93	-03 04 39.0	625	625
(1969)	1997 09 04.43797	22 56 04.99	-03 09 13.5	17.4	625
(1969)	1997 09 04.47602	22 56 03.25	-03 09 24.5	17.2	625
(1969)	1997 09 04.52010	22 56 01.34	-03 09 37.9	17.2	625
(1975)	1997 08 13.46900	20 45 20.63	-11 40 42.0	16.2	625
(1975)	1997 08 13.49077	20 45 19.55	-11 40 49.2	16.4	625
(1975)	1997 08 13.51992	20 45 18.26	-11 41 00.1	16.1	625
(1975)	1997 08 13.53875	20 45 17.31	-11 41 05.9	16.2	625
(1975)	1997 08 13.56927	20 45 15.91	-11 41 17.4	16.1	625
(3750)	1997 09 09.41979	22 39 13.59	-16 39 43.8	16.7	625
(3750)	1997 09 09.49095	22 39 09.85	-16 39 49.3	16.3	625
(5143)	1997 09 09.40923	21 26 50.86	-09 26 29.2	18.0	625
(5143)	1997 09 09.44604	21 26 48.10	-09 26 41.9	17.9	625

627 Blauvac

A. Klotz, 82 Rue Maroulet, F-81100 Castres, France [klotz@irsamc1.ups-tlse.fr]

Observer R. Roy

0.26-m $f/4.7$ reflector + CCD

GSC

1986 PN ₄	1997 08 31.94661	00 07 13.35	+20 11 12.6	15.9	627
1986 PN ₄	1997 08 31.95473	00 07 12.98	+20 11 14.7	15.8	627
1986 PN ₄	1997 08 31.96331	00 07 12.58	+20 11 16.9	15.9	627
1997 PY ₃	1997 08 31.88849	22 09 26.43	-04 24 14.8	19.8	F 627
1997 PY ₃	1997 08 31.90535	22 09 25.44	-04 24 21.3	18.8	627
1997 PY ₃	1997 08 31.91931	22 09 24.74	-04 24 25.8	18.0	627
1997 QE	1997 08 24.89094	21 58 38.90	-08 29 36.8	17.9	627
1997 QE	1997 08 24.89946	21 58 38.52	-08 29 41.8	18.0	627
1997 QE	1997 08 24.90809	21 58 38.02	-08 29 47.1	18.0	627
1997 QE	1997 08 29.90318	21 55 29.09	-09 22 27.6	17.7	627
1997 QE	1997 08 29.90788	21 55 28.90	-09 22 31.0	17.9	627
1997 QE	1997 08 29.91258	21 55 28.69	-09 22 33.5	17.9	627

628 Mülheim-Ruhr

A. Martin, Turtle Star Observatory, Friedhostr. 15, D-45478 Mülheim-Ruhr, Germany [axelm@bph.ruhr-uni-bochum.de]

0.2-m Schmidt-Cassegrain + CCD

GSC

1997 PK ₂	1997 09 06.93176	21 53 26.23	-05 53 23.0	16.8 V	628
1997 PK ₂	1997 09 06.94565	21 53 25.53	-05 53 24.0	16.8 V	628
1997 PK ₂	1997 09 06.96162	21 53 24.71	-05 53 26.1	17.0 V	628
1997 PK ₂	1997 09 06.97898	21 53 23.90	-05 53 28.4	16.9 V	628
(7757)	1997 08 18.84356	17 40 21.78	+11 36 20.2	16.3 V	628
(7757)	1997 08 18.85745	17 40 22.36	+11 36 15.8	16.1 V	628
(7757)	1997 08 18.88176	17 40 23.43	+11 36 08.1	16.1 V	628
(7757)	1997 08 18.89981	17 40 24.19	+11 36 01.9	16.2 V	628
(7757)	1997 08 21.82968	17 42 44.37	+11 19 28.3	16.1	628
(7757)	1997 08 21.85398	17 42 45.58	+11 19 19.2	16.5	628

629 JATE Observatory, Szeged

L. Kiss, H-6725 Szeged, Pf. 596, Hungary [l.kiss@physx.u-szeged.hu]

Observers L. Kiss, K. Sárneczky, Gy. Szabó

Measurers K. Sárneczky, L. Kiss

0.28-m Schmidt-Cassegrain + CCD

GSC

1981 VK	1997 08 26.97166	22 19 25.27	-11 27 32.5	16.4	629
1981 VK	1997 08 26.98162	22 19 24.91	-11 27 34.6	16.6	629
1981 VK	1997 08 26.98891	22 19 24.57	-11 27 36.9	17.1	629
1983 PX	1997 08 25.92278	21 38 13.75	-00 17 21.0	16.8	629
1983 PX	1997 08 25.93037	21 38 13.42	-00 17 26.2	16.5	629
1983 PX	1997 08 25.93314	21 38 13.28	-00 17 26.9	16.8	629
1991 CU	1997 08 25.94241	21 47 03.17	-15 37 03.7	16.7	629
1991 CU	1997 08 25.95211	21 47 02.75	-15 37 08.2	16.7	629
1991 CU	1997 08 25.96042	21 47 02.34	-15 37 13.2	16.7	629
1992 EW ₇	1997 08 25.96745	21 45 45.78	-11 06 21.4	16.6	629
1992 EW ₇	1997 08 26.91142	21 44 59.28	-11 10 36.7	16.8	629
1992 EW ₇	1997 08 26.93406	21 44 58.21	-11 10 45.6	16.2	p 629
1992 SS ₂₆	1997 08 27.00440	22 18 22.26	-17 27 40.7	16.5	629
1992 SS ₂₆	1997 08 27.01433	22 18 21.75	-17 27 42.4		629
1992 SS ₂₆	1997 08 27.02155	22 18 21.52	-17 27 43.1	17.0	p 629
(73)	1997 02 20.96178	13 18 09.70	-08 07 17.8	14.1	629
(73)	1997 02 20.98367	13 18 09.46	-08 07 17.8		629
(73)	1997 02 20.99981	13 18 09.26	-08 07 17.4		629
(73)	1997 02 21.01840	13 18 09.06	-08 07 16.4		629
(73)	1997 02 21.04118	13 18 08.83	-08 07 16.8		629
(73)	1997 02 21.05603	13 18 08.55	-08 07 16.3		629
(73)	1997 02 21.08269	13 18 08.23	-08 07 15.9		629
(73)	1997 02 21.09894	13 18 08.00	-08 07 14.9		629
(73)	1997 02 24.01171	13 17 29.02	-08 05 34.9	14.1	p 629
(73)	1997 02 24.02763	13 17 28.82	-08 05 35.1		p 629
(73)	1997 02 24.04178	13 17 28.46	-08 05 34.9		p 629
(73)	1997 02 24.05479	13 17 28.32	-08 05 33.8		p 629
(73)	1997 02 24.07589	13 17 27.97	-08 05 33.2		629
(73)	1997 02 24.11160	13 17 27.31	-08 05 31.8		629
(73)	1997 02 24.13184	13 17 27.01	-08 05 30.0		p 629

(73)	1997 02 24.15997	13 17 26.45	-08 05 28.9	p 629
(73)	1997 02 24.17723	13 17 26.18	-08 05 27.4	p 629
(73)	1997 03 02.89386	13 15 06.17	-07 56 53.1	13.6 629
(73)	1997 03 02.91942	13 15 05.53	-07 56 49.9	629
(73)	1997 03 02.94190	13 15 04.93	-07 56 47.2	629
(73)	1997 03 02.98199	13 15 03.83	-07 56 43.1	629
(73)	1997 03 02.99987	13 15 03.34	-07 56 41.4	629
(73)	1997 03 03.01796	13 15 02.87	-07 56 39.3	629
(73)	1997 03 03.05868	13 15 01.75	-07 56 34.7	629
(73)	1997 03 03.07934	13 15 01.15	-07 56 33.1	p 629
(73)	1997 03 03.10029	13 15 00.58	-07 56 31.6	p 629
(73)	1997 03 03.12507	13 14 59.96	-07 56 28.0	p 629
(73)	1997 03 03.13862	13 14 59.53	-07 56 27.1	p 629
(268)	1997 08 25.99619	22 13 29.70	-12 52 17.3	13.3 629
(268)	1997 08 26.00227	22 13 29.40	-12 52 19.0	13.5 629
(654)	1997 08 17.01066	00 39 17.75	+30 56 47.5	12.9 629
(1139)	1997 08 17.02691	03 47 34.09	+24 11 37.3	15.4 629
(1139)	1997 08 17.02814	03 47 34.27	+24 11 37.9	15.2 629
(1139)	1997 08 17.03134	03 47 34.80	+24 11 38.5	15.6 629
(1139)	1997 08 17.03307	03 47 35.19	+24 11 38.5	15.1 629
(1139)	1997 08 17.03440	03 47 35.46	+24 11 38.4	15.5 629
(1139)	1997 08 17.03572	03 47 35.56	+24 11 38.3	15.5 629
(1139)	1997 08 17.03729	03 47 35.85	+24 11 38.1	15.2 629
(1139)	1997 08 17.03859	03 47 36.07	+24 11 38.4	15.5 629
(1139)	1997 08 17.03992	03 47 36.26	+24 11 39.0	15.0 629
(1139)	1997 08 17.04150	03 47 36.57	+24 11 37.2	15.2 629
(1444)	1997 07 31.00507	00 36 35.41	+23 10 45.1	16.7 629
(1444)	1997 07 31.00830	00 36 35.42	+23 10 47.1	16.7 629
(1444)	1997 08 27.05403	00 29 16.93	+25 49 56.4	17.5 629
(1444)	1997 08 27.07242	00 29 16.55	+25 50 01.0	17.5 629
(1444)	1997 08 27.08787	00 29 15.86	+25 50 04.5	17.0 629
(1546)	1997 07 31.03074	23 22 39.36	+07 23 18.6	16.1 629
(1546)	1997 07 31.03566	23 22 39.25	+07 23 17.9	16.3 629
(1546)	1997 08 16.95396	23 16 15.63	+06 25 44.3	15.5 629
(1546)	1997 08 27.02797	23 10 37.38	+05 29 14.5	15.3 p 629
(1546)	1997 08 27.03573	23 10 37.09	+05 29 11.5	15.8 629
(1546)	1997 08 27.04274	23 10 36.81	+05 29 08.8	15.6 629
(1583)	1997 07 31.06218	01 49 30.64	+22 59 05.4	15.8 629
(1583)	1997 08 16.99250	01 52 31.90	+23 04 33.6	15.1 629
(1980)	1997 08 16.88676	17 20 17.22	+50 05 04.6	14.6 629
(1980)	1997 08 16.89314	17 20 16.94	+50 05 09.5	14.4 629
(1980)	1997 08 16.89749	17 20 16.73	+50 05 12.8	15.1 629
(1980)	1997 08 27.94685	17 16 27.29	+52 13 03.6	14.4 629
(1980)	1997 08 27.95439	17 16 27.44	+52 13 09.8	13.6 629
(1980)	1997 08 27.98160	17 16 27.25	+52 13 24.3	14.0 629
(1980)	1997 08 27.99326	17 16 27.21	+52 13 29.9	14.1 629
(1980)	1997 08 28.00230	17 16 27.23	+52 13 34.4	629
(1980)	1997 08 28.01544	17 16 27.66	+52 13 42.0	14.4 629
(3504)	1997 08 26.00227	22 13 03.63	-12 56 01.4	15.8 629
(3736)	1997 08 25.99049	22 17 38.57	-12 47 16.6	14.9 629
(5647)	1997 08 26.92666	20 34 34.53	+14 40 29.0	16.6 629
(5647)	1997 08 26.96057	20 34 32.87	+14 40 16.8	16.6 629

631 Hamburg-Georgswerder

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

[th.buck@hamburg.netsurf.de]

0.15-m $f/8$ refractor + CCD

GSC

(978)	1997 08 10.87093	18 53 46.10	+09 30 18.8	13.0 R	631
(978)	1997 08 10.94837	18 53 44.09	+09 29 51.0	13.0 R	631
(1980)	1997 08 21.84539	17 17 42.37	+51 06 09.2	14.5 R	631
(1980)	1997 08 21.92626	17 17 40.13	+51 07 03.1	14.2 R	631
(3066)	1997 08 31.84767	16 40 54.43	-05 01 16.5	17.1 R	631
(3066)	1997 09 07.82762	16 47 34.80	-05 57 44.9	16.3 R	631
(5427)	1997 08 10.88977	20 17 18.92	+24 25 33.3	15.5 R	631
(5427)	1997 08 10.96552	20 17 14.81	+24 24 54.9	15.5 R	631

658 Dominion Astrophysical Observatory, Victoria

J. B. Tatum, Dept. of Physics, University of Victoria, P.O. Box 3055, Victoria, BC

V8W 3P6, Canada [universe@uvvm.uvic.ca]

Observers D. D. Balam, G. C. L. Aikman

Measurer D. D. Balam

1.82-m Plaskett telescope + CCD

GSC, USNO-A1.0

1993 MB	1997 08 14.19089	15 05 24.46	-06 02 39.1	658
1993 MB	1997 08 14.19411	15 05 24.72	-06 02 40.5	658
1993 MB	1997 08 14.19679	15 05 24.93	-06 02 41.5	658
1993 PE	1997 08 12.46334	01 25 38.42	+14 56 59.4	658
1993 PE	1997 08 12.46772	01 25 38.57	+14 57 01.1	658
1993 PE	1997 08 12.47174	01 25 38.62	+14 57 01.2	658
1993 PE	1997 08 18.39786	01 28 03.71	+15 24 19.4	658
1993 PE	1997 08 18.40439	01 28 03.86	+15 24 21.0	658
1993 PE	1997 08 18.40591	01 28 03.88	+15 24 21.3	658
1993 PE	1997 09 08.48605	01 28 08.07	+16 08 28.4	658
1993 PE	1997 09 08.49252	01 28 07.93	+16 08 28.4	658
1993 PE	1997 09 08.49825	01 28 07.84	+16 08 28.5	658
1994 QC	1997 08 13.20358	17 57 07.14	+06 20 36.8	658
1994 QC	1997 08 13.20767	17 57 07.54	+06 20 25.1	658
1997 MV ₁	1997 09 10.26056	21 20 38.72	-05 03 21.1	658
1997 MV ₁	1997 09 10.26551	21 20 38.79	-05 03 24.0	658
1997 MV ₁	1997 09 10.27125	21 20 38.83	-05 03 27.8	658
1997 MW ₁	1997 08 12.22807	16 52 41.34	+03 00 56.5	658
1997 MW ₁	1997 08 12.23506	16 52 41.29	+03 00 55.4	658
1997 MW ₁	1997 08 12.24095	16 52 41.20	+03 00 54.4	658
1997 MD ₁₀	1997 08 12.24902	17 29 46.48	-04 23 25.8	658
1997 MD ₁₀	1997 08 12.25375	17 29 46.20	-04 23 15.6	658
1997 MD ₁₀	1997 08 12.25784	17 29 45.90	-04 23 08.8	658
1997 NP ₁₀	1997 09 07.27913	21 39 39.42	-00 02 28.6	658
1997 NP ₁₀	1997 09 07.28226	21 39 39.56	-00 02 29.9	658
1997 NP ₁₀	1997 09 07.28542	21 39 39.67	-00 02 31.2	658
1997 NP ₁₀	1997 09 10.30287	21 42 20.90	-00 28 02.3	658
1997 NP ₁₀	1997 09 10.30786	21 42 21.16	-00 28 06.5	658
1997 NP ₁₀	1997 09 10.31234	21 42 21.39	-00 28 09.4	658
1997 PE	1997 08 12.28075	20 06 16.95	-10 36 16.5	658
1997 PE	1997 08 12.28453	20 06 16.77	-10 36 17.5	658

1997 PE	1997 08 12.29231	20 06 16.38	-10 36 19.7	658
1997 PF	1997 08 12.29512	20 08 34.67	-10 39 44.4	658
1997 PF	1997 08 12.29791	20 08 34.56	-10 39 44.8	658
1997 PF	1997 08 12.30103	20 08 34.41	-10 39 45.3	658
1997 PL	1997 08 12.26330	20 02 28.43	-09 00 48.6	658
1997 PL	1997 08 12.26868	20 02 28.14	-09 00 50.1	658
1997 PL	1997 08 12.27723	20 02 27.68	-09 00 51.8	658
1997 PN	1997 09 10.22405	19 58 01.51	+14 34 16.1	658
1997 PN	1997 09 10.22594	19 58 01.47	+14 34 19.3	20.0 R 658
1997 PN	1997 09 10.22800	19 58 01.50	+14 34 22.1	658
1997 PD ₂	1997 08 12.34428	20 19 26.57	-15 57 16.1	658
1997 PD ₂	1997 08 12.35013	20 19 26.36	-15 57 16.9	658
1997 PD ₂	1997 08 12.35541	20 19 26.15	-15 57 17.7	658
1997 PF ₂	1997 08 14.43736	00 20 18.91	-02 24 25.5	658
1997 PF ₂	1997 08 14.44522	00 20 18.92	-02 24 24.8	658
1997 PF ₂	1997 08 14.46510	00 20 19.02	-02 24 23.8	658
1997 PF ₂	1997 09 08.46583	00 12 30.81	-02 56 40.3	658
1997 PF ₂	1997 09 08.47038	00 12 30.61	-02 56 40.7	658
1997 PF ₂	1997 09 08.47233	00 12 30.53	-02 56 41.5	658
1997 PO ₂	1997 08 12.31025	20 10 55.64	-14 18 15.4	658
1997 PO ₂	1997 08 12.31531	20 10 55.36	-14 18 16.2	658
1997 PO ₂	1997 08 12.32278	20 10 55.00	-14 18 16.8	658
1997 PO ₂	1997 08 14.27765	20 09 21.25	-14 21 12.6	658
1997 PO ₂	1997 08 14.28021	20 09 21.05	-14 21 12.7	658
1997 PO ₂	1997 08 14.29395	20 09 20.45	-14 21 13.9	658
1997 PA ₄	1997 08 12.32977	20 31 55.86	-17 23 30.9	658
1997 PA ₄	1997 08 12.33420	20 31 55.60	-17 23 30.0	658
1997 PA ₄	1997 08 12.33862	20 31 55.32	-17 23 29.1	658
1997 PB ₄	* 1997 08 10.36318	21 33 16.24	-10 54 52.8	19.2 R 658
1997 PB ₄	1997 08 10.36681	21 33 16.06	-10 54 53.2	658
1997 PB ₄	1997 08 10.37091	21 33 15.83	-10 54 53.3	658
1997 PB ₄	1997 08 13.37241	21 30 40.71	-10 57 47.2	658
1997 PB ₄	1997 08 13.38325	21 30 39.94	-10 57 48.4	658
1997 PB ₄	1997 08 13.39426	21 30 39.50	-10 57 48.4	658
1997 PB ₄	1997 08 14.39442	21 29 47.63	-10 58 49.9	658
1997 PB ₄	1997 08 14.39948	21 29 47.35	-10 58 50.0	658
1997 PB ₄	1997 08 14.40167	21 29 47.27	-10 58 50.2	658
1997 PB ₄	1997 08 15.32166	21 28 59.68	-10 59 47.5	658
1997 PB ₄	1997 08 15.32873	21 28 59.27	-10 59 48.3	658
1997 PB ₄	1997 08 15.33238	21 28 59.12	-10 59 47.8	658
1997 PB ₄	1997 08 16.34293	21 28 06.73	-11 00 52.6	658
1997 PB ₄	1997 08 16.34706	21 28 06.56	-11 00 53.0	658
1997 PB ₄	1997 08 16.35353	21 28 06.20	-11 00 52.9	658
1997 PB ₄	1997 09 07.29000	21 11 15.73	-11 22 48.3	658
1997 PB ₄	1997 09 07.29575	21 11 15.57	-11 22 48.8	658
1997 PG ₄	1997 08 14.40806	23 38 23.88	-02 13 08.5	658
1997 PG ₄	1997 08 14.42205	23 38 23.89	-02 13 11.2	658
1997 PG ₄	1997 08 14.42910	23 38 24.00	-02 13 12.6	658
1997 PG ₄	1997 08 15.41826	23 38 31.61	-02 16 54.5	658
1997 PG ₄	1997 08 15.42963	23 38 31.61	-02 16 57.7	658
1997 PG ₄	1997 08 15.43770	23 38 31.65	-02 16 58.2	658
1997 PG ₄	1997 08 15.44556	23 38 31.75	-02 17 01.7	658

1997 PH ₄	* 1997 08 13.31398	21 39 25.10	-06 36 01.0	18.2 R 658
1997 PH ₄	1997 08 13.32184	21 39 24.65	-06 36 12.1	658
1997 PH ₄	1997 08 13.32742	21 39 24.30	-06 36 18.9	658
1997 PH ₄	1997 08 13.36181	21 39 22.23	-06 37 04.7	658
1997 PH ₄	1997 08 14.38120	21 38 23.46	-06 59 37.1	658
1997 PH ₄	1997 08 14.38562	21 38 23.20	-06 59 43.0	658
1997 PH ₄	1997 08 14.38922	21 38 22.98	-06 59 47.7	658
1997 PH ₄	1997 08 15.37169	21 37 26.17	-07 21 42.6	658
1997 PH ₄	1997 08 15.37616	21 37 25.88	-07 21 49.0	658
1997 PH ₄	1997 08 15.38053	21 37 25.62	-07 21 54.7	658
1997 RT	1997 09 07.49446	01 00 28.35	+32 45 01.0	658
1997 RT	1997 09 07.49675	01 00 28.73	+32 45 07.0	658
1997 RT	1997 09 07.49850	01 00 28.98	+32 45 11.7	658
1997 RD ₁	1997 09 07.32417	21 35 07.06	-05 44 10.6	658
1997 RD ₁	1997 09 07.32653	21 35 07.10	-05 44 13.8	658
1997 RD ₁	1997 09 07.33245	21 35 07.19	-05 44 21.7	658
1997 RF ₃	1997 09 08.47758	00 03 41.42	+00 58 44.1	658
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1997 RF ₃	1997 09 08.48194	00 03 41.23	+00 58 41.7	658
1997 RE ₆	* 1997 09 06.38990	23 32 04.76	-01 26 30.3	658
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1997 RE ₆	1997 09 06.41015	23 32 03.48	-01 26 38.6	18.5 R 658
1997 RE ₆	1997 09 10.34925	23 27 38.17	-01 52 19.0	658
1997 RE ₆	1997 09 10.35131	23 27 38.08	-01 52 19.8	658
1997 RE ₆	1997 09 10.35606	23 27 37.83	-01 52 23.1	658

673 Table Mountain Observatory

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0.6-m reflector + CCD

1997 RT	1997 09 03.34654	00 45 54.09	+29 00 48.0	673
1997 RT	1997 09 03.34916	00 45 54.62	+29 00 58.4	673
1997 RD ₁	1997 09 03.29620	21 33 55.73	-04 12 03.5	673
1997 RD ₁	1997 09 03.30188	21 33 55.78	-04 12 11.3	673
1997 RD ₁	1997 09 03.31008	21 33 55.86	-04 12 22.6	673
1997 RM ₁	1997 09 03.25516	20 25 42.45	-26 27 57.3	673
1997 RM ₁	1997 09 03.25944	20 25 42.57	-26 27 54.6	673
1997 RM ₁	1997 09 03.27080	20 25 42.80	-26 27 47.8	673
1997 RM ₁	1997 09 05.25193	20 26 41.25	-26 07 17.1	673
1997 RM ₁	1997 09 05.25631	20 26 41.38	-26 07 14.5	16.0 R 673
1997 RM ₁	1997 09 05.27040	20 26 41.75	-26 07 05.5	673

675 Palomar

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9 = 6 + 3

Observers J. A. Burns (8, H), D. J. Chadwick (3, S), T. Gehrels (4, L),
B. Gladman (8, H), E. F. Helin (2, S), H. E. Holt (3, S), K. Lawrence (2, S),
P. Nicholson (8, H), C. M. Olmstead (3, S), D. K. Williams (3, S)

Measurers B. Gladman (8), B. L. Cummings (6), K. J. Lawrence (2), C. J. van
Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4)

5-m Hale reflector (H), 1.2-m Oschin Schmidt (L), 0.46-m Schmidt (S)

GSC, PPM

1955 UZ ₁	* 1955 10 23.35278	02 57 53.53	-00 01 08.3		6 675
1955 UZ ₁	1955 10 23.37778	02 57 52.32	-00 01 12.7	17.5	6 675
1982 QX ₁	1993 10 10.27014	00 32 47.44	-08 40 19.7	18.2	9 675
1982 QX ₁	1993 10 10.30781	00 32 45.36	-08 40 32.6		9 675
1986 RG ₃	1993 10 10.27014	00 49 23.93	-03 53 05.4	17.8	9 675
1988 GD	1993 10 10.30781	00 41 13.46	-04 39 05.2		9 675
1990 TW ₁₂	1994 09 10.33056	00 29 18.97	-14 32 43.7	17.5	9 675
1990 TW ₁₂	1994 09 10.35990	00 29 17.38	-14 32 48.9		9 675
1990 TL ₁₆	* 1990 10 15.45920	02 54 50.34	+23 27 51.3	16.5	2 675
1990 TL ₁₆	1990 10 15.48229	02 54 49.25	+23 27 46.1		2 675
1990 TL ₁₆	1990 10 17.43142	02 53 23.69	+23 19 07.1		2 675
1990 TL ₁₆	1990 10 17.45747	02 53 22.45	+23 18 59.3		2 675
1990 TM ₁₆	* 1990 10 15.45920	02 54 55.01	+23 20 48.0	17.0	2 675
1990 TM ₁₆	1990 10 15.48229	02 54 53.74	+23 20 50.2		2 675
1990 TM ₁₆	1990 10 17.43142	02 53 16.65	+23 24 52.4		2 675
1990 TM ₁₆	1990 10 17.45747	02 53 15.26	+23 24 52.8		2 675
1990 VD ₈	1990 10 15.45920	02 54 29.75	+23 20 46.3	16.5	2 675
1990 VD ₈	1990 10 15.48229	02 54 28.78	+23 20 44.0		2 675
1990 VD ₈	1990 10 17.43142	02 53 17.49	+23 17 06.2		2 675
1990 VD ₈	1990 10 17.45747	02 53 16.55	+23 17 03.1		2 675
1991 JL ₇	* 1991 05 08.33663	14 49 28.72	-21 06 00.4	16.3	2 675
1991 JL ₇	1991 05 08.36059	14 49 27.39	-21 05 54.6		2 675
1991 JL ₇	1991 05 10.33993	14 47 28.08	-20 59 30.7		2 675
1991 JL ₇	1991 05 10.36649	14 47 26.40	-20 59 23.7		2 675
1991 JM ₇	* 1991 05 08.33663	14 52 29.12	-21 21 25.4	16.5	2 675
1991 JM ₇	1991 05 08.36059	14 52 27.89	-21 21 18.7		2 675
1991 JM ₇	1991 05 10.33993	14 50 37.29	-21 13 15.2		2 675
1991 JM ₇	1991 05 10.36649	14 50 35.84	-21 13 10.0		2 675
1991 PU ₉	1991 07 09.38003	19 44 56.26	+05 20 43.0	16.0	2 675
1991 PU ₉	1991 07 09.40764	19 44 54.92	+05 20 23.2		2 675
1991 PU ₉	1991 07 11.33076	19 43 32.74	+04 56 31.2		2 675
1991 PU ₉	1991 07 11.35825	19 43 31.58	+04 56 09.7		2 675
1993 QV ₁₀	* 1993 08 19.40747	22 42 43.42	-00 40 54.2	16.5	2 675
1993 QV ₁₀	1993 08 19.43212	22 42 42.18	-00 40 57.9		2 675
1993 QV ₁₀	1993 08 21.36302	22 41 08.88	-00 47 37.4		2 675
1993 QV ₁₀	1993 08 21.38542	22 41 07.81	-00 47 43.4		2 675
1993 RO	1997 09 08.44866	23 57 43.50	-00 51 32.3	8 675	
1993 RO	1997 09 08.49495	23 57 43.23	-00 51 34.3	8 675	
1993 TQ ₃₆	1993 10 10.30781	00 43 27.41	-11 16 08.1	9 675	
1994 XC ₁	1993 10 09.35295	01 17 50.41	-14 27 46.4	18.8	9 675
1995 QY ₉	1997 09 08.43744	23 04 37.40	-05 38 05.6	8 675	
1995 QY ₉	1997 09 08.48251	23 04 37.12	-05 38 07.2	8 675	

1995 QZ ₉	1997 09 08.46282	00 54 45.25	+03 46 29.2		8 675
1995 QZ ₉	1997 09 08.50934	00 54 45.03	+03 46 27.5		8 675
1995 US	1992 01 09.51024	08 58 54.92	+31 15 32.1	16.0	2 675
1995 US	1992 01 09.54444	08 58 52.82	+31 15 35.0		2 675
1995 US	1992 01 10.53507	08 57 56.46	+31 16 28.0		2 675
1995 YY ₁	1994 09 10.33056	00 12 46.89	-09 33 31.3	18.0	9 675
1995 YY ₁	1994 09 10.35990	00 12 45.22	-09 33 45.1		9 675
1996 AO ₃	1991 05 08.33663	14 50 11.18	-21 10 01.1	16.3	2 675
1996 AO ₃	1991 05 08.36059	14 50 10.22	-21 09 56.4		2 675
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1996 AO ₃	1991 05 10.36649	14 48 50.73	-21 02 40.9		2 675
1996 AO ₃	1991 06 14.23785	14 30 55.49	-18 58 55.6	17.0	2 675
1996 AO ₃	1991 06 14.25955	14 30 54.99	-18 58 51.8		2 675
1996 AO ₃	1991 06 16.26632	14 30 21.76	-18 53 12.4		2 675
1996 AO ₃	1991 06 16.29062	14 30 21.40	-18 53 10.3		2 675
1996 AO ₃	1993 08 19.40747	22 42 00.13	-00 44 11.9	16.0	2 675
1996 AO ₃	1993 08 19.43212	22 41 59.27	-00 44 15.5		2 675
1996 AO ₃	1993 08 21.36302	22 40 49.90	-00 49 33.0		2 675
1996 AO ₃	1993 08 21.38542	22 40 49.08	-00 49 37.2		2 675
1996 AO ₃	1993 09 14.28073	22 26 08.58	-02 11 27.9		2 675
1996 AO ₃	1993 09 14.30347	22 26 07.69	-02 11 32.9		2 675
1996 AO ₃	1993 09 16.17448	22 25 04.69	-02 18 28.2	16.0	2 675
1996 AO ₃	1993 09 16.19774	22 25 03.90	-02 18 34.0		2 675
1996 CO ₇	1989 11 04.42274	03 39 23.52	+18 19 27.4		9 675
1996 CO ₇	1989 11 04.45694	03 39 21.74	+18 19 25.0		9 675
1996 RQ ₂₀	1997 09 07.44656	00 47 30.10	+05 43 47.9		8 675
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1996 RR ₂₀	1997 09 07.28714	23 00 06.94	-06 24 51.2		8 675
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1996 RR ₂₀	1997 09 08.25432	23 00 02.69	-06 25 19.1		8 675
1996 RR ₂₀	1997 09 08.38924	23 00 02.09	-06 25 23.0		8 675
1996 SZ ₄	1997 09 07.45450	00 50 32.58	+05 06 58.9		8 675
1996 SZ ₄	1997 09 07.47746	00 50 32.45	+05 06 58.2		8 675
1996 TO ₆₆	1997 09 08.44285	23 55 35.57	+01 58 42.5		8 675
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1996 TP ₆₆	1997 09 08.46880	01 25 12.17	+14 46 05.2		8 675
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1996 TQ ₆₆	1997 09 08.47421	01 39 24.25	+15 01 10.1		8 675
1996 TQ ₆₆	1997 09 08.52029	01 39 24.05	+15 01 09.7		8 675
1997 NR ₆	1993 12 07.24688	03 33 44.42	+03 07 44.8	17.5	9 675
1997 NR ₆	1993 12 07.27917	03 33 43.02	+03 07 46.2		9 675
1997 RT ₅	* 1997 09 07.28714	23 00 19.84	-06 23 14.3		8 675
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2082 P-L	* 1960 09 24.45000	00 41 24.01	+11 54 46.4	18.4	4 675
2082 P-L	1960 09 26.37010	00 39 40.62	+11 42 28.7		4 675
2082 P-L	1960 09 28.45140	00 37 46.47	+11 28 27.0		4 675
2082 P-L	1960 10 17.30420	00 21 45.94	+09 05 30.6		4 675
2082 P-L	1960 10 22.27920	00 18 35.87	+08 28 58.6		4 675
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2082 P-L	1960 10 26.36840	00 16 30.55	+08 01 15.7		4 675

2657 P-L	* 1960 09 24.46184	00 41 15.47	+01 30 20.6	19.0	4 675	1252 T-1	1971 03 26.26771	12 16 01.39	-04 41 25.7	4 675
2657 P-L	1960 09 26.37988	00 39 29.04	+01 21 23.0		4 675	1252 T-1	1971 03 27.32500	12 15 06.98	-04 31 29.5	4 675
2657 P-L	1960 09 27.40836	00 38 31.45	+01 16 36.4		4 675	1252 T-1	1971 04 02.40000	12 10 00.74	-03 34 04.7	4 675
2657 P-L	1960 09 28.39725	00 37 35.84	+01 11 58.4		4 675	1252 T-1	1971 04 16.18087	12 00 12.41	-01 32 46.4	4 675
2657 P-L	1960 10 17.31529	00 20 35.59	-00 07 21.1		4 675	1252 T-1	1971 04 16.26458	12 00 09.27	-01 32 06.1	4 675
2657 P-L	1960 10 22.26809	00 16 51.10	-00 22 34.7		4 675	1252 T-1	1971 05 13.17535	11 54 24.59	+00 46 55.1	18.0 4 675
2657 P-L	1960 10 25.25350	00 14 49.79	-00 30 09.3		4 675	1252 T-1	1971 05 14.20694	11 54 35.69	+00 49 04.0	4 675
2657 P-L	1960 10 25.30351	00 14 47.91	-00 30 15.8		4 675	1252 T-1	1971 05 16.31510	11 55 03.65	+00 52 42.4	4 675
2657 P-L	1960 10 26.31531	00 14 09.42	-00 32 31.9		4 675	1290 T-1	1971 03 24.42015	12 21 10.40	-04 22 31.9	4 675
2657 P-L	1960 10 26.35766	00 14 07.89	-00 32 38.0		4 675	1290 T-1	1971 03 25.27326	12 20 27.27	-04 14 56.7	4 675
4535 P-L	* 1960 09 24.41183	00 27 46.43	+02 46 29.7	18.3	4 675	1290 T-1	* 1971 03 25.31562	12 20 24.93	-04 14 35.4	18.3 4 675
4535 P-L	1960 09 26.31530	00 26 23.13	+02 37 39.5		4 675	1290 T-1	1971 03 25.33090	12 20 24.04	-04 14 26.6	4 675
4535 P-L	1960 09 27.40836	00 25 34.67	+02 32 34.8		4 675	1290 T-1	1971 03 26.26771	12 19 36.40	-04 06 07.1	4 675
4535 P-L	1960 09 28.39725	00 24 50.96	+02 27 55.5		4 675	1290 T-1	1971 03 26.29653	12 19 34.68	-04 05 49.6	4 675
4535 P-L	1960 10 17.27085	00 11 44.24	+01 04 44.4		4 675	1290 T-1	1971 03 26.33611	12 19 32.59	-04 05 29.3	4 675
4535 P-L	1960 10 22.22293	00 08 56.77	+00 47 08.1		4 675	1290 T-1	1971 03 27.32500	12 18 42.42	-03 56 41.2	4 675
4535 P-L	1960 10 24.35836	00 07 52.06	+00 40 24.8		4 675	1290 T-1	1971 04 02.40000	12 13 36.61	-03 02 25.0	4 675
4535 P-L	1960 10 26.32573	00 06 57.50	+00 34 42.2		4 675	1290 T-1	1971 04 16.18087	12 03 44.13	-01 09 28.4	4 675
4573 P-L	* 1960 09 26.31530	00 38 12.25	+00 29 38.7	19.2	4 675	1290 T-1	1971 04 16.26458	12 03 40.95	-01 08 52.2	4 675
4573 P-L	1960 09 27.40836	00 37 19.85	+00 26 47.3		4 675	1290 T-1	1971 05 13.17535	11 57 04.56	+00 56 40.6	18.5 4 675
4573 P-L	1960 09 28.39725	00 36 32.35	+00 24 12.9		4 675	1290 T-1	1971 05 14.20694	11 57 12.46	+00 58 28.2	4 675
4573 P-L	1960 10 17.31529	00 21 45.74	-00 18 17.3		4 675	1290 T-1	1971 05 16.31510	11 57 33.74	+01 01 27.0	4 675
4573 P-L	1960 10 22.26809	00 18 22.20	-00 25 30.1		4 675	4339 T-1	1971 03 24.40486	12 42 43.80	+03 16 51.0	4 675
4573 P-L	1960 10 26.35766	00 15 49.95	-00 29 42.7		4 675	4339 T-1	1971 03 26.31007	12 40 49.91	+03 23 58.6	4 675
4800 P-L	* 1960 09 24.41183	00 30 02.01	+00 43 44.0	19.1	4 675	4339 T-1	* 1971 03 26.34896	12 40 47.26	+03 24 06.7	19.2 4 675
4800 P-L	1960 09 26.31530	00 28 24.15	+00 30 01.2		4 675	4339 T-1	1971 03 27.35208	12 39 46.35	+03 27 44.3	4 675
4800 P-L	1960 09 27.40836	00 27 27.51	+00 22 12.9		4 675	4339 T-1	1971 04 02.43993	12 33 32.29	+03 48 01.2	4 675
4800 P-L	1960 09 28.39725	00 26 36.52	+00 15 11.7		4 675	4339 T-1	1971 04 16.21476	12 20 16.62	+04 15 42.6	4 675
4800 P-L	1960 10 22.23406	00 09 48.01	-01 55 51.8		4 675	4339 T-1	1971 04 16.27708	12 20 13.17	+04 15 47.3	4 675
4800 P-L	1960 10 25.25350	00 08 34.07	-02 04 43.7		4 675	4339 T-1	1971 05 13.17535	12 06 34.01	+03 29 29.5	4 675
4800 P-L	1960 10 26.31531	00 08 11.61	-02 07 22.8		4 675	4339 T-1	1971 05 13.20278	12 06 33.58	+03 29 21.1	19.5 4 675
6523 P-L	* 1960 09 26.28543	00 13 41.97	-04 08 55.1	16.4	4 675	4339 T-1	1971 05 14.20694	12 06 28.35	+03 25 02.8	4 675
6523 P-L	1960 09 27.34237	00 12 32.22	-04 06 33.2		4 675	4339 T-1	1971 05 14.23246	12 06 28.02	+03 24 53.9	19.5 4 675
6523 P-L	1960 09 28.33822	00 11 26.88	-04 04 14.6		4 675	4339 T-1	1971 05 16.29774	12 06 22.75	+03 15 25.2	19.5 4 675
6523 P-L	1960 10 17.28198	23 53 22.84	-03 01 42.1		4 675	1069 T-2	1973 09 19.18611	00 12 07.68	+04 27 18.2	4 675
6523 P-L	1960 10 22.15559	23 50 04.75	-02 39 17.9		4 675	1069 T-2	1973 09 19.23785	00 12 04.66	+04 26 54.2	4 675
6523 P-L	1960 10 22.23406	23 50 01.60	-02 38 55.6		4 675	1069 T-2	1973 09 20.22847	00 11 10.06	+04 19 38.6	4 675
6523 P-L	1960 10 24.18787	23 48 54.62	-02 29 09.6		4 675	1069 T-2	1973 09 24.34688	00 07 20.89	+03 48 51.2	4 675
6523 P-L	1960 10 26.26113	23 47 51.04	-02 18 20.0		4 675	1069 T-2	1973 09 24.41597	00 07 16.86	+03 48 19.0	4 675
6570 P-L	1991 02 07.34149	09 24 23.17	+12 07 49.8	18.0	9 675	1069 T-2	1973 09 25.24375	00 06 31.10	+03 42 03.7	4 675
6570 P-L	1991 02 07.37257	09 24 21.23	+12 08 01.6		9 675	1069 T-2	1973 09 25.30729	00 06 27.55	+03 41 36.2	4 675
1148 T-1	1971 03 24.38924	12 10 25.84	-01 26 58.8		4 675	1069 T-2	* 1973 09 29.25330	00 02 51.70	+03 11 35.6	19.6 4 675
1148 T-1	1971 03 25.27326	12 09 31.09	-01 22 26.6		4 675	1069 T-2	1973 09 29.31806	00 02 48.12	+03 11 07.5	4 675
1148 T-1	* 1971 03 25.31562	12 09 28.27	-01 22 12.5	18.7	4 675	1069 T-2	1973 09 30.21007	00 02 00.37	+03 04 23.4	4 675
1148 T-1	1971 03 26.25208	12 08 30.29	-01 17 26.3		4 675	1069 T-2	1973 09 30.27431	00 01 56.87	+03 03 54.0	4 675
1148 T-1	1971 03 26.26771	12 08 29.29	-01 17 20.9		4 675	1069 T-2	1973 10 05.31684	23 57 38.20	+02 26 35.0	4 675
1148 T-1	1971 03 27.31181	12 07 24.11	-01 12 00.8		4 675	1069 T-2	1973 10 05.37917	23 57 35.11	+02 26 08.1	4 675
1148 T-1	1971 03 27.32500	12 07 23.37	-01 11 55.3		4 675	1140 T-3	1977 10 07.24652	01 07 00.01	+18 00 30.0	4 675
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1252 T-1	1971 03 24.38924	12 17 37.71	-04 59 00.1		4 675	1140 T-3	1977 10 11.33351	01 03 48.93	+17 37 35.2	4 675
1252 T-1	1971 03 25.27326	12 16 52.54	-04 50 44.5		4 675	1140 T-3	1977 10 12.26510	01 03 05.45	+17 32 03.2	4 675
1252 T-1	* 1971 03 25.31562	12 16 50.29	-04 50 21.9	18.0	4 675	1140 T-3	1977 10 12.33125	01 03 02.23	+17 31 39.6	4 675

1997 SEPT.16

M.P.C. 30581

1140 T-3	1977 10 16.25156	01 00 00.99	+17 07 17.5	4 675	3133 T-3	1977 10 16.33872	01 23 28.28	+05 24 10.5	4 675
1140 T-3	1977 10 16.31684	00 59 57.84	+17 06 52.2	4 675	3133 T-3	1977 10 17.27552	01 22 44.81	+05 19 48.9	4 675
1140 T-3	* 1977 10 17.25365	00 59 15.42	+17 00 48.3	18.3 4 675	3133 T-3	1977 10 17.34236	01 22 41.52	+05 19 29.8	4 675
1140 T-3	1977 10 17.32083	00 59 12.28	+17 00 23.1	4 675	3133 T-3	1977 10 21.39792	01 19 35.35	+05 00 58.3	4 675
1140 T-3	1977 10 22.42812	00 55 28.53	+16 26 23.9	4 675	3133 T-3	1977 10 21.45799	01 19 32.47	+05 00 43.1	4 675
1140 T-3	1977 10 22.48003	00 55 26.32	+16 26 04.0	4 675	3133 T-3	1977 10 22.39844	01 18 50.12	+04 56 32.0	4 675
2077 T-3	1977 10 11.27743	01 13 43.02	+12 13 12.8	4 675	3133 T-3	1977 10 22.45920	01 18 47.51	+04 56 16.8	4 675
2077 T-3	1977 10 11.34375	01 13 38.60	+12 12 59.3	4 675	3459 T-3	1977 10 07.27031	01 16 15.18	+08 21 35.5	4 675
2077 T-3	1977 10 12.27587	01 12 39.56	+12 09 46.9	4 675	3459 T-3	1977 10 11.28819	01 12 57.92	+07 53 36.0	4 675
2077 T-3	1977 10 12.34271	01 12 35.20	+12 09 32.1	4 675	3459 T-3	1977 10 11.35642	01 12 54.26	+07 53 07.2	4 675
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1997 PA ₃	1997 08 12.36738	22 58 31.13	-18 59 31.7		684	1997 RK ₁	1997 09 09.31117	23 49 53.53	+00 30 16.3	19.3 R	684
1997 PA ₃	1997 08 12.37260	22 58 30.87	-18 59 33.5		684	1997 RK ₁	1997 09 09.31807	23 49 53.23	+00 30 11.8		684
1997 PA ₃	1997 08 13.38576	22 57 40.11	-19 05 11.9	18.8 R	684	1997 RK ₁	1997 09 09.32529	23 49 52.85	+00 30 06.7		684
1997 PA ₃	1997 08 13.39147	22 57 39.85	-19 05 13.5		684	1997 RL ₁	* 1997 09 04.36391	21 44 56.26	-17 37 40.6	18.5 R	E 684
1997 PA ₃	1997 08 13.39698	22 57 39.55	-19 05 15.4		684	1997 RL ₁	1997 09 04.37071	21 44 55.92	-17 37 40.7		E 684
1997 PA ₄	1997 08 13.34036	20 30 54.34	-17 19 54.1	16.9 R	684	1997 RL ₁	1997 09 05.26983	21 44 19.46	-17 38 37.9	18.3 R	684
1997 PA ₄	1997 08 13.35024	20 30 53.73	-17 19 51.9		684	1997 RL ₁	1997 09 05.27653	21 44 19.18	-17 38 38.5		684
1997 QJ	* 1997 08 23.31911	21 47 14.85	-13 55 09.1	17.3 R	684	1997 RL ₁	1997 09 05.28216	21 44 18.94	-17 38 38.7		684
1997 QJ	1997 08 23.32509	21 47 14.50	-13 55 11.1		684	1997 RS ₂	* 1997 09 05.31449	23 56 12.36	+01 58 25.5		684
1997 QJ	1997 08 23.33315	21 47 14.00	-13 55 14.2		684	1997 RS ₂	1997 09 05.36377	23 56 10.13	+01 58 19.2		684
1997 QJ	1997 08 25.26803	21 45 25.30	-14 06 53.4	17.5 R	684	1997 RS ₂	1997 09 05.38756	23 56 09.04	+01 58 16.3		684
1997 QJ	1997 08 25.27287	21 45 25.00	-14 06 54.8		684	1997 RS ₂	1997 09 07.34915	23 54 40.88	+01 53 53.4		684

1997 RS ₂	1997 09 07.35649	23 54 40.53	+01 53 51.6		684
1997 RS ₂	1997 09 07.36863	23 54 39.96	+01 53 50.6	19.0 R	684
1997 RS ₂	1997 09 08.35428	23 53 54.82	+01 51 31.9	19.1 R	684
1997 RS ₂	1997 09 08.36141	23 53 54.47	+01 51 30.9		684
1997 RS ₂	1997 09 08.36829	23 53 54.18	+01 51 30.0		684
1997 RF ₃	1997 09 09.34862	00 02 56.66	+00 51 07.7	18.2 R	684
1997 RF ₃	1997 09 09.35561	00 02 56.28	+00 51 03.7		684
1997 RF ₃	1997 09 10.31471	00 02 06.29	+00 42 34.3	18.0 R	684
1997 RF ₃	1997 09 10.31966	00 02 06.02	+00 42 31.8		684
1997 RF ₃	1997 09 10.32377	00 02 05.80	+00 42 29.6		684
1997 RO ₅	* 1997 09 07.34915	23 54 11.25	+01 50 27.1	19.3 R	684
1997 RO ₅	1997 09 07.35649	23 54 10.82	+01 50 27.2		684
1997 RO ₅	1997 09 07.36863	23 54 10.30	+01 50 26.8		684
1997 RO ₅	1997 09 08.35428	23 53 25.02	+01 49 49.8	19.3 R	684
1997 RO ₅	1997 09 08.36141	23 53 24.71	+01 49 49.1		684
1997 RO ₅	1997 09 08.36829	23 53 24.33	+01 49 49.2		684
1997 RP ₅	* 1997 09 08.33130	23 50 16.29	+00 41 13.7	19.1 R	E 684
1997 RP ₅	1997 09 08.34256	23 50 15.89	+00 41 09.3		E 684
1997 RP ₅	1997 09 09.31117	23 49 42.93	+00 35 17.3	18.9 R	684
1997 RP ₅	1997 09 09.31807	23 49 42.67	+00 35 15.1		684
1997 RP ₅	1997 09 09.32529	23 49 42.43	+00 35 12.4		684
1997 RQ ₅	* 1997 09 08.38496	01 43 06.61	+10 35 39.0		684
1997 RQ ₅	1997 09 08.42363	01 43 05.76	+10 35 33.9	18.7 R	684
1997 RQ ₅	1997 09 09.42809	01 42 43.88	+10 33 21.2	18.7 R	684
1997 RQ ₅	1997 09 09.43682	01 42 43.68	+10 33 20.0		684
1997 RQ ₅	1997 09 09.44475	01 42 43.49	+10 33 19.0		684
1997 RR ₅	* 1997 09 08.38496	01 44 07.17	+10 36 11.6		E 684
1997 RR ₅	1997 09 08.40851	01 44 06.79	+10 36 09.6		684
1997 RR ₅	1997 09 08.43286	01 44 06.37	+10 36 06.5	19.4 R	684
1997 RR ₅	1997 09 09.40828	01 43 50.32	+10 34 13.0		684
1997 RR ₅	1997 09 09.41647	01 43 50.16	+10 34 11.8		684
1997 RR ₅	1997 09 09.45813	01 43 49.37	+10 34 06.8		684
1997 RS ₅	1997 09 08.38496	01 43 03.98	+10 37 34.6	19.2 R	E 684
1997 RS ₅	1997 09 08.42363	01 43 03.22	+10 37 27.7		E 684
1997 RS ₅	* 1997 09 09.42809	01 42 43.42	+10 34 52.4	19.2 R	684
1997 RS ₅	1997 09 09.43682	01 42 43.21	+10 34 50.7		684
1997 RS ₅	1997 09 09.44475	01 42 43.04	+10 34 49.5		684
1997 RW ₆	* 1997 09 09.34862	00 03 03.76	+00 52 17.8	18.5 R	684
1997 RW ₆	1997 09 09.35561	00 03 03.43	+00 52 15.9		684
1997 RW ₆	1997 09 10.31471	00 02 19.91	+00 48 41.2	18.8 R	684
1997 RW ₆	1997 09 10.31966	00 02 19.67	+00 48 40.4		684
1997 RW ₆	1997 09 10.32377	00 02 19.48	+00 48 39.2		684
1997 RX ₆	* 1997 09 09.42809	01 41 56.17	+10 29 51.5	17.5 R	684
1997 RX ₆	1997 09 09.43682	01 41 55.98	+10 29 51.2		684
1997 RX ₆	1997 09 09.44475	01 41 55.80	+10 29 50.4		684
1997 RX ₆	1997 09 10.33146	01 41 36.30	+10 28 29.1	17.5 R	684
1997 RX ₆	1997 09 10.33829	01 41 36.13	+10 28 28.5		684
1997 RX ₆	1997 09 10.41078	01 41 34.38	+10 28 21.5		684
(3049)	1997 08 27.33615	23 22 51.87	-07 47 33.4	16.3 R	684
(3049)	1997 08 27.34053	23 22 51.68	-07 47 34.7		684
(3049)	1997 08 27.34469	23 22 51.51	-07 47 35.9		684
(3049)	1997 08 29.31219	23 21 28.91	-07 57 29.7		684

(3049)	1997 08 29.32023	23 21 28.55	-07 57 32.2	16.3 R	684
(3049)	1997 08 29.32490	23 21 28.36	-07 57 33.5		684
(3318)	1997 08 11.35194	22 57 30.80	-19 01 12.3		684
(3318)	1997 08 11.36574	22 57 30.30	-19 01 18.5	15.5 R	684
(3318)	1997 08 12.30171	22 56 57.05	-19 08 16.5		684
(3318)	1997 08 12.30815	22 56 56.81	-19 08 19.6	15.3 R	684
(3318)	1997 08 12.31394	22 56 56.59	-19 08 22.1		684
(3318)	1997 08 13.36619	22 56 18.11	-19 16 12.0	15.4 R	684
(3318)	1997 08 13.37159	22 56 17.90	-19 16 14.4		684
(3318)	1997 08 13.37810	22 56 17.65	-19 16 17.4		684
(6342)	1997 09 04.36391	21 44 05.51	-17 41 25.7	17.6 R	684
(6342)	1997 09 04.37071	21 44 05.19	-17 41 26.8		684

688 Lowell Observatory, Anderson Mesa Station

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Observers M. W. Buie, B. A. Skiff

1.07-m Hall reflector + CCD, 1.8-m reflector + CCD

USNO-A1.0

1978 SD ₇	1997 03 13.34927	11 35 28.64	-01 53 57.5	17.3 R	688
1978 SD ₇	1997 03 13.35317	11 35 28.42	-01 53 56.2		688
1978 SD ₇	1997 03 13.36804	11 35 27.52	-01 53 50.0		688
1978 SD ₇	1997 03 13.37196	11 35 27.29	-01 53 47.9		688
1980 PF	1997 08 01.29241	22 35 32.76	-05 32 09.8		688
1980 PF	1997 08 01.30774	22 35 32.20	-05 32 07.2		688
1980 VA	1997 08 01.39559	02 57 13.97	+15 29 21.1		688
1980 VA	1997 08 01.40196	02 57 14.86	+15 29 23.8		688
1981 QK	1997 07 31.15472	14 16 48.74	-19 58 18.0		688
1981 QK	1997 07 31.16920	14 16 49.59	-19 58 21.7		688
1981 QK	1997 08 01.15381	14 17 50.90	-20 02 01.8		688
1981 QK	1997 08 01.16874	14 17 51.81	-20 02 05.8		688
1982 BM	1997 08 01.23918	21 02 05.51	-16 31 36.8		688
1982 BM	1997 08 01.25315	21 02 04.75	-16 31 39.5		688
1982 RR	1997 03 12.35782	11 49 13.92	+01 40 05.0		688
1982 TK	1997 08 01.34789	23 58 59.57	-06 37 00.0		688
1982 TK	1997 08 01.36341	23 58 59.80	-06 37 01.3		688
1983 WJ	1997 08 01.29525	23 38 11.07	-06 44 10.6		688
1983 WJ	1997 08 01.32914	23 38 10.63	-06 44 16.7		688
1983 WN	1997 08 01.34410	23 53 48.78	+17 10 00.0		688
1983 WN	1997 08 01.36041	23 53 49.27	+17 10 12.0		688
1985 PO	1997 08 01.23113	20 10 08.81	-17 48 10.2		688
1985 PO	1997 08 01.24433	20 10 08.08	-17 48 14.1		688
1985 RQ	1997 08 01.35103	23 50 52.22	-11 06 41.1		688
1985 RQ	1997 08 01.36729	23 50 52.50	-11 06 39.0		688
1986 RX ₂	1997 08 01.33743	23 59 34.32	-00 08 47.1		688
1986 RX ₂	1997 08 01.37094	23 59 34.37	-00 08 45.1		688
1986 WV ₁	1997 08 01.39559	02 57 36.28	+15 31 34.4		688
1986 WV ₁	1997 08 01.40196	02 57 36.61	+15 31 36.1		688
1987 QF ₆	1997 08 01.21041	18 46 49.42	+05 09 45.1		688
1987 QF ₆	1997 08 01.21289	18 46 49.34	+05 09 44.4		688
1987 QF ₆	1997 08 01.22325	18 46 48.81	+05 09 39.0		I 688
1987 QF ₆	1997 08 01.22574	18 46 48.65	+05 09 37.3		I 688
1988 RC ₇	1997 03 13.16331	06 51 54.95	+11 54 01.2	17.5 R	688

1997 SEPT.16

M.P.C. 30585

1988 RC ₇	1997 03 13.16721	06 51 55.12	+11 54 02.4	688	1997 EA ₅₉	1997 03 13.42190	13 07 22.28	-03 46 18.7	18.1 R	688
1988 RC ₇	1997 03 13.18028	06 51 55.57	+11 54 07.0	688	1997 EA ₅₉	1997 03 13.42580	13 07 22.10	-03 46 18.1		688
1988 RC ₇	1997 03 13.18419	06 51 55.72	+11 54 08.3	688	1997 EA ₅₉	1997 03 13.43888	13 07 21.35	-03 46 14.9		688
1991 FH	1997 07 31.16347	14 52 55.03	-03 24 10.8	688	1997 EA ₅₉	1997 03 13.44279	13 07 21.18	-03 46 13.6		688
1991 FH	1997 08 01.16156	14 53 37.21	-03 27 36.7	688	1997 FL ₂	1997 03 13.25574	08 38 02.04	+19 17 15.7	17.9 R	688
1991 FH	1997 08 01.17661	14 53 37.83	-03 27 39.9	688	1997 FL ₂	1997 03 13.25965	08 38 02.04	+19 17 16.1		688
1991 YL ₁	1997 08 01.23396	20 18 45.96	-19 48 37.4	I 688	1997 FL ₂	1997 03 13.29528	08 38 01.71	+19 17 18.9		688
1991 YL ₁	1997 08 01.24715	20 18 45.11	-19 48 39.5	f 688	1997 FL ₂	1997 03 13.29919	08 38 01.65	+19 17 19.5		688
1992 DJ ₈	1997 08 01.23656	20 28 19.66	-12 20 08.5	688	1997 FM ₂	1997 03 13.42190	13 07 04.04	-03 41 33.4	17.7 R	688
1992 DJ ₈	1997 08 01.25045	20 28 18.85	-12 20 12.1	688	1997 FM ₂	1997 03 13.42580	13 07 03.89	-03 41 33.2		688
1992 RM ₇	1997 08 01.34062	21 19 02.09	-18 56 22.0	688	1997 FM ₂	1997 03 13.43888	13 07 03.16	-03 41 30.4		688
1992 RM ₇	1997 08 01.35728	21 19 01.28	-18 56 25.9	688	1997 FM ₂	1997 03 13.44279	13 07 02.99	-03 41 30.1		688
1994 TR ₁	1997 03 13.39436	12 24 53.55	-09 54 34.5	18.5 R 688	3064 T-1	1997 08 01.26428	20 52 14.45	-17 19 20.1		688
1994 TR ₁	1997 03 13.39826	12 24 53.36	-09 54 33.0	688	3064 T-1	1997 08 01.27837	20 52 13.52	-17 19 23.2		688
1994 TR ₁	1997 03 13.41256	12 24 52.68	-09 54 27.0	688	5041 T-3	1997 08 01.19318	16 51 50.39	-08 37 18.1		688
1994 TR ₁	1997 03 13.41646	12 24 52.50	-09 54 26.0	688	5041 T-3	1997 08 01.20635	16 51 50.41	-08 37 22.9		688
1994 UC ₂	1997 08 01.26684	21 04 09.00	-08 14 09.2	688	(1423)	1997 03 13.42190	13 08 11.09	-03 49 44.2	15.1 R	688
1994 UC ₂	1997 08 01.28096	21 04 08.17	-08 14 11.7	688	(1423)	1997 03 13.42580	13 08 10.98	-03 49 43.4		688
1995 AM	1997 08 01.39218	02 37 27.98	+08 50 13.6	688	(1423)	1997 03 13.43888	13 08 10.44	-03 49 40.1		688
1995 AM	1997 08 01.39895	02 37 29.18	+08 50 17.8	688	(1423)	1997 03 13.44279	13 08 10.31	-03 49 39.3		688
1995 XR ₁	1997 03 13.45668	14 02 21.90	-01 23 31.1	17.5 R 688	(4714)	1997 03 13.34927	11 35 19.96	-01 59 40.5	15.8 R	688
1995 XR ₁	1997 03 13.46059	14 02 21.78	-01 23 29.7	688	(4714)	1997 03 13.35317	11 35 19.77	-01 59 39.6		688
1995 XR ₁	1997 03 13.47444	14 02 21.38	-01 23 25.8	688	(4714)	1997 03 13.36804	11 35 19.00	-01 59 37.2		688
1995 XR ₁	1997 03 13.47836	14 02 21.24	-01 23 24.3	688	(4714)	1997 03 13.37196	11 35 18.81	-01 59 36.5		688
1996 AL	1997 08 01.18760	15 51 35.14	-08 09 17.1	688	(5258)	1997 08 01.37987	00 31 05.49	+09 54 46.8		688
1996 AL	1997 08 01.20098	15 51 35.33	-08 09 23.2	688	(5258)	1997 08 01.40531	00 31 05.40	+09 54 47.6		688
1996 CO ₇	1997 07 31.16058	15 10 30.99	-18 01 14.1	688	(5407)	1997 03 11.15524	07 43 03.83	+30 40 56.4	16.1 R	688
1996 CO ₇	1997 07 31.17448	15 10 31.44	-18 01 16.7	688	(5407)	1997 03 11.15939	07 43 03.85	+30 40 57.7		688
1996 CO ₇	1997 08 01.15897	15 11 03.90	-18 04 05.3	688	(5407)	1997 03 11.16853	07 43 03.88	+30 41 00.5		688
1996 CO ₇	1997 08 01.17402	15 11 04.38	-18 04 08.1	688	(5407)	1997 03 11.17822	07 43 03.93	+30 41 03.4		688
1996 GC ₁₈	1997 08 01.25855	20 43 33.55	-18 16 01.8	688	(5407)	1997 03 11.18736	07 43 03.97	+30 41 06.2		688
1996 GC ₁₈	1997 08 01.27234	20 43 32.72	-18 16 04.2	688	(5407)	1997 03 11.19868	07 43 04.02	+30 41 09.6		688
1996 GG ₂₀	1997 08 01.25589	20 42 46.11	-17 30 59.4	E 688	(5407)	1997 03 11.20781	07 43 04.06	+30 41 12.4		688
1996 GG ₂₀	1997 08 01.26978	20 42 45.25	-17 31 02.5	E 688	(6133)	1997 07 31.15786	13 59 07.12	-11 01 46.2		688
1996 XP ₁₃	1997 03 12.19094	07 02 31.53	+31 18 15.6	688	(6133)	1997 07 31.17189	13 59 08.27	-11 01 51.1	I 688	
1997 AF	1997 03 12.18509	07 18 04.81	+27 00 12.4	17.9 R 688	(6133)	1997 08 01.15641	14 00 30.13	-11 08 39.6		688
1997 AG ₇	1997 03 13.20964	08 32 53.93	+14 59 13.1	19.5 R 688	(6133)	1997 08 01.17140	14 00 31.36	-11 08 46.0		688
1997 AG ₇	1997 03 13.21355	08 32 53.96	+14 59 13.7	688	(6423)	1997 08 01.38622	01 27 39.19	+14 21 20.8		688
1997 AG ₇	1997 03 13.22590	08 32 53.97	+14 59 15.5	688	(6423)	1997 08 01.41203	01 27 40.14	+14 21 35.7		688
1997 AG ₇	1997 03 13.22980	08 32 54.02	+14 59 16.2	688	(6991)	1997 08 01.38269	00 56 57.53	+00 49 15.1		688
1997 BF ₁	1997 03 13.20164	08 32 08.85	+15 57 22.3	18.4 R 688	(6991)	1997 08 01.40906	00 56 58.94	+00 49 15.6		688
1997 BF ₁	1997 03 13.20556	08 32 08.85	+15 57 21.5	688	(7190)	1997 08 01.38928	02 08 36.24	+12 31 17.2		688
1997 BF ₁	1997 03 13.21784	08 32 08.80	+15 57 19.6	688	(7190)	1997 08 01.41539	02 08 37.80	+12 31 24.7		688
1997 BF ₁	1997 03 13.22174	08 32 08.80	+15 57 18.8	688	(7717)	1997 03 13.25574	08 37 55.41	+19 25 53.5	15.9 R	688
1997 CJ ₁	1997 03 13.32118	10 18 27.94	+16 30 03.6	18.5 R 688	(7717)	1997 03 13.25965	08 37 55.46	+19 25 51.8		688
1997 CJ ₁	1997 03 13.32509	10 18 27.69	+16 30 04.8	688	(7717)	1997 03 13.29528	08 37 55.89	+19 25 36.4		688
1997 CJ ₁	1997 03 13.33913	10 18 26.88	+16 30 08.0	688	(7717)	1997 03 13.29919	08 37 55.96	+19 25 34.6		688
1997 CJ ₁	1997 03 13.34304	10 18 26.69	+16 30 08.9	688	(7733)	1997 08 01.18240	15 46 32.19	-14 42 23.0		688
1997 CX ₂₉	1997 03 13.31235	10 03 42.06	+20 39 25.4	18.4 R 688	(7733)	1997 08 01.19582	15 46 32.86	-14 42 26.4		688
1997 CX ₂₉	1997 03 13.31625	10 03 41.84	+20 39 25.9	688						
1997 CX ₂₉	1997 03 13.33105	10 03 41.01	+20 39 27.8	688						
1997 CX ₂₉	1997 03 13.33497	10 03 40.81	+20 39 27.5	688						

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AZ 86002-1149 [rcs@nofs.navy.mil]

Observer A. K. B. Monet, R. C. Stone

0.20-m transit telescope + CCD, 1.55-m astrometric reflector + CCD

GSC, USNO-A1.0

1980 PF	1997 09 08.26183	21 59 49.30	-04 07 02.1	15.6 V	689
1981 EK ₂₅	1997 08 07.32927	21 31 03.23	-14 05 52.8	16.9 V	689
1981 UZ ₉	1997 08 22.30992	22 02 07.03	-25 28 09.3	17.1 V	689
1985 RQ	1997 09 08.33025	23 38 37.35	-10 27 49.8	16.5 V	689
1990 SW	1997 08 23.33399	22 40 49.24	+04 30 48.8	16.7 V	689
1990 SL ₂	1997 08 23.41143	00 32 39.60	-10 09 08.7	17.6 V	689
1990 ST ₈	1997 08 07.31377	21 08 40.15	-24 10 34.3	16.1 V	689
1990 TK ₁₅	1997 09 08.26601	22 05 52.01	-12 57 32.1	15.9 V	689
1991 NE ₇	1997 08 22.31453	22 08 47.04	-03 53 07.3	16.9 V	689
1993 LZ ₁	1997 08 23.25468	20 46 18.30	-10 14 36.0	17.1 V	689
1993 TQ	1997 08 22.25799	20 47 07.81	-32 15 42.9	17.1 V	689
1994 PW ₁₆	1997 07 23.32198	20 21 14.22	-18 37 31.3	17.0 V	689
1994 TD ₂	1997 08 22.36588	23 22 55.31	-16 26 19.1	15.4 V	689
1994 TD ₂	1997 08 23.36268	23 22 15.31	-16 31 54.1	16.6 V	689
(2)	1997 08 22.18609	19 03 19.66	+14 47 04.4	9.3 V	689
(98)	1997 08 07.31919	21 16 29.92	-31 57 34.7	13.1 V	689
(98)	1997 08 23.26432	21 00 12.69	-31 52 48.1	13.3 V	689
(98)	1997 09 07.21501	20 48 16.88	-31 12 22.9	13.6 V	689
(347)	1997 08 23.44609	01 22 41.57	-08 16 52.4	13.7 V	689
(421)	1997 09 08.23398	21 19 37.91	-06 52 52.9	13.9 V	689
(486)	1997 09 08.48291	03 19 04.30	+04 52 36.4	15.9 V	689
(669)	1997 08 07.42257	23 45 45.89	+00 43 09.0	15.2 V	689
(669)	1997 08 22.37779	23 40 07.84	-00 42 32.2	14.1 V	689
(669)	1997 08 23.37470	23 39 36.93	-00 49 24.7	14.0 V	689
(784)	1997 08 22.21799	19 49 22.14	-38 45 25.1	13.0 V	689
(784)	1997 08 23.21498	19 48 58.24	-38 39 28.8	13.1 V	689
(784)	1997 09 07.17239	19 46 45.00	-36 57 35.8	13.3 V	689
(792)	1997 08 23.14517	18 08 10.97	-19 00 16.1	15.7 V	689
(842)	1997 09 07.46096	02 43 25.81	+23 11 01.8	15.4 V	689
(968)	1997 08 22.13598	17 50 58.36	-09 33 20.2	15.9 V	689
(968)	1997 08 23.13331	17 51 04.60	-09 36 47.3	15.5 V	689
(1185)	1997 08 23.40686	00 26 03.32	-07 47 33.9	14.7 V	689
(1386)	1997 08 23.43967	01 13 26.02	+02 56 00.2	16.7 V	689
(1642)	1997 08 23.45954	01 42 07.61	+18 48 56.7	14.6 V	689
(1642)	1997 09 07.41639	01 39 04.03	+19 53 49.0	15.1 V	689
(1842)	1997 08 22.23724	20 17 11.08	-16 25 55.4	14.1 V	689
(1842)	1997 08 23.23424	20 16 48.46	-16 32 33.3	14.1 V	689
(2500)	1997 07 23.31543	20 11 44.91	-32 24 40.8	16.1 V	689
(2500)	1997 08 07.26315	19 55 34.74	-32 59 22.2	15.9 V	689
(2577)	1997 08 23.37899	23 45 48.47	+12 09 13.5	17.3 V	689
(2678)	1997 09 07.28006	22 22 12.52	-16 23 59.0	16.5 V	689
(2962)	1997 09 08.47427	03 06 35.05	+07 17 52.1	16.0 V	689
(3250)	1997 08 22.38630	23 52 24.97	+08 01 59.2	16.1 V	689
(3250)	1997 08 23.38326	23 51 59.03	+07 58 05.3	15.9 V	689
(3250)	1997 09 08.33327	23 42 59.34	+06 30 41.5	14.9 V	689
(3426)	1997 08 22.32770	22 27 47.71	-23 46 53.4	16.4 V	689
(3488)	1997 09 07.39297	01 05 14.97	-09 33 52.5	16.1 V	689

(3488)	1997 09 08.39006	01 04 59.51	-09 46 57.1	16.1 V	689
(3662)	1997 08 22.28628	21 27 58.96	-27 39 26.0	15.1 V	689
(3750)	1997 08 23.34294	22 53 44.90	-16 02 11.0	17.0 V	689
(3820)	1997 08 23.31586	22 14 39.28	-07 50 36.8	15.8 V	689
(3921)	1997 08 07.38500	22 51 31.07	-04 22 32.0	15.3 V	689
(3921)	1997 08 22.34053	22 46 20.53	-07 21 12.4	14.5 V	689
(3921)	1997 08 23.33746	22 45 51.14	-07 34 52.2	14.7 V	689
(3971)	1997 07 23.31116	20 05 37.66	-14 28 00.1	14.5 V	689
(3971)	1997 08 22.21203	19 40 47.16	-13 25 33.5	15.2 V	689
(4659)	1997 08 07.32242	21 21 09.53	-20 02 21.1	16.9 V	689
(4833)	1997 09 07.47419	03 02 32.25	-24 35 08.1	16.0 V	689
(4898)	1997 08 23.34672	22 59 12.02	-26 35 27.0	17.8 V	689
(5292)	1997 07 23.35089	21 02 58.22	-31 39 57.7	14.7 V	689
(5642)	1997 08 22.25142	20 37 39.16	-03 01 48.6	15.1 V	689
(5922)	1997 08 23.42669	00 54 40.84	+15 08 27.3	16.5 V	689
(5942)	1997 09 07.47095	02 57 50.22	+04 18 59.5	16.4 V	689
(6125)	1997 08 07.35194	22 03 46.78	-11 28 12.7	15.8 V	689
(6125)	1997 08 22.30197	21 50 39.53	-12 54 37.6	15.7 V	689
(7021)	1997 09 07.45765	02 38 38.62	-04 57 08.4	16.7 V	689

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0.91-m Spacewatch telescope + CCD

GSC

1973 SJ ₁	1991 12 07.48513	07 23 50.19	+18 42 00.8	18.9 V	691
1973 SJ ₁	1991 12 07.50708	07 23 49.57	+18 42 01.9		691
1973 SJ ₁	1991 12 07.52884	07 23 48.97	+18 42 02.2		691
1981 GO ₁	1997 08 11.37775	23 43 44.89	-03 50 51.5	18.8 V	691
1981 GO ₁	1997 08 11.39870	23 43 44.21	-03 50 55.7	18.9 V	691
1981 GO ₁	1997 08 11.41954	23 43 43.52	-03 50 59.5	18.8 V	691
1982 DC ₂	1997 08 11.42642	23 22 28.69	-03 12 19.6	18.9 V	691
1982 DC ₂	1997 08 11.44990	23 22 27.85	-03 12 27.4	18.8 V	691
1982 DC ₂	1997 08 11.47337	23 22 26.99	-03 12 34.3	18.8 V	691
1986 PW ₄	1997 08 12.43376	23 32 40.22	-01 58 50.8	17.0 V	691
1986 PW ₄	1997 08 12.45687	23 32 39.60	-01 58 54.6	17.2 V	691
1986 PW ₄	1997 08 12.48009	23 32 39.00	-01 58 58.6	17.0 V	691
1989 GF ₁	1997 08 11.43121	23 29 23.71	-03 15 05.3	18.4 V	691
1989 GF ₁	1997 08 11.45469	23 29 22.82	-03 15 08.1	18.4 V	691
1989 GF ₁	1997 08 11.47816	23 29 21.94	-03 15 11.3	18.4 V	691
1989 SN ₄	1997 08 12.44315	23 46 13.31	-02 14 38.0	17.9 V	691
1989 SN ₄	1997 08 12.46625	23 46 12.66	-02 14 44.5	17.9 V	691
1989 SN ₄	1997 08 12.48948	23 46 11.99	-02 14 50.8	18.0 V	691
1990 EZ ₅	1997 08 11.30091	22 32 10.18	-08 59 41.2	17.8 V	691
1990 QK ₃	1997 08 11.37270	23 36 27.14	-03 50 21.4	17.2 V	691
1990 QK ₃	1997 08 11.39365	23 36 26.78	-03 50 29.2	17.2 V	691
1990 QK ₃	1997 08 11.41449	23 36 26.39	-03 50 37.1	17.2 V	691
1990 SW ₄	1997 08 12.30190	22 39 24.16	-08 19 02.7	16.9 V	691
1990 SW ₄	1997 08 12.32290	22 39 23.23	-08 19 11.7	17.0 V	691
1990 SW ₄	1997 08 12.34434	22 39 22.33	-08 19 20.7	16.9 V	691
1990 TV ₁₃	1996 04 20.29961	13 26 02.55	-08 48 08.9	17.5 V	691
1990 TV ₁₃	1996 04 20.32650	13 26 00.85	-08 48 04.5		691

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1990 TV ₁₃	1996 04 20.34769	13 25 59.51	-08 48 00.6		691	1994 CG ₁₉	* 1994 02 10.18245	09 09 45.24	+09 56 24.9		691
1991 AE ₃	1996 04 09.18954	12 51 46.30	+01 28 16.2	17.5 V	691	1994 CG ₁₉	1994 02 10.20469	09 09 43.75	+09 56 29.4	16.5 V	691
1991 AE ₃	1996 04 09.21490	12 51 45.00	+01 28 24.9		691	1994 CG ₁₉	1994 02 10.22660	09 09 42.31	+09 56 33.2		691
1991 AE ₃	1996 04 09.23784	12 51 43.87	+01 28 32.8		691	1994 LK ₁₀	* 1994 06 11.32632	15 48 29.53	-05 33 32.7	17.7 V	691
1991 RK ₃₂	1991 10 10.39753	01 17 31.54	+08 10 22.7	17.0 V	691	1994 LK ₁₀	1994 06 11.35051	15 48 28.31	-05 33 32.0		691
1991 RK ₃₂	1991 10 10.41859	01 17 30.52	+08 10 13.6		691	1994 LK ₁₀	1994 06 11.37195	15 48 27.21	-05 33 31.4		691
1991 RK ₃₂	1991 10 10.44071	01 17 29.42	+08 10 04.0		691	1994 PW ₂₀	1992 02 01.36179	09 12 50.82	+19 34 42.7		691
1991 TT ₁₄	* 1991 10 02.15570	23 25 03.07	-09 58 58.0		691	1994 PW ₂₀	1992 02 01.38761	09 12 49.26	+19 34 47.2	17.8 V	691
1991 TT ₁₄	1991 10 02.17112	23 25 02.39	-09 58 59.6	18.4 V	691	1994 PW ₂₀	1992 02 01.41344	09 12 47.64	+19 34 50.0		691
1991 TT ₁₄	1991 10 02.18460	23 25 01.81	-09 59 01.2		691	1994 RA ₁₁	1993 01 31.46409	09 58 05.72	+13 21 21.7		691
1991 US ₁	1991 11 05.10222	02 02 31.50	+15 09 23.3		691	1994 RA ₁₁	1993 01 31.47238	09 58 05.23	+13 21 23.8	18.5 V	691
1991 US ₁	1991 11 05.12283	02 02 30.33	+15 09 20.0		691	1994 RA ₁₁	1993 01 31.48000	09 58 04.80	+13 21 25.4		691
1991 US ₁	1991 11 05.14352	02 02 29.18	+15 09 17.1	18.0 V	691	1994 UE ₁₃	* 1994 10 31.30519	02 36 02.35	+06 39 46.2	17.5 V	691
1991 VP ₂	1997 08 12.30683	22 46 31.20	-08 22 00.6	18.6 V	691	1994 UE ₁₃	1994 10 31.32562	02 36 01.39	+06 39 42.1		691
1991 VP ₂	1997 08 12.32783	22 46 30.19	-08 22 07.2	18.5 V	691	1994 UE ₁₃	1994 10 31.34260	02 36 00.58	+06 39 38.3		691
1991 VP ₂	1997 08 12.34927	22 46 29.14	-08 22 12.9	18.6 V	691	1995 BW ₁	1997 07 31.36682	22 07 56.12	-14 10 14.1	19.6 V	691
1991 XW ₆	* 1991 12 07.49780	07 42 07.94	+18 44 58.4		691	1995 BW ₁	1997 07 31.39706	22 07 54.84	-14 10 26.3	19.5 V	691
1991 XW ₆	1991 12 07.51975	07 42 07.28	+18 44 59.2	20.2 V	691	1995 BW ₁	1997 07 31.41868	22 07 53.92	-14 10 35.2	19.7 V	691
1991 XW ₆	1991 12 07.54151	07 42 06.68	+18 45 01.4		691	1995 CV ₁₀	* 1995 02 02.25027	09 53 43.51	+16 08 58.2		691
1992 CS	1992 02 25.23493	10 09 45.30	+17 50 38.3	18.4 V	691	1995 CV ₁₀	1995 02 02.27308	09 53 42.47	+16 09 04.6	19.6 V	691
1992 CS	1992 02 25.26034	10 09 44.20	+17 50 51.5		691	1995 CV ₁₀	1995 02 02.29609	09 53 41.46	+16 09 10.7		691
1992 CS	1992 02 25.28571	10 09 43.12	+17 51 05.0		691	1995 DK	1997 08 11.43122	23 29 23.86	-03 23 40.9	18.6 V	691
1992 CM ₈	* 1992 02 05.17295	08 51 20.25	+17 20 20.6		691	1995 DK	1997 08 11.45469	23 29 23.18	-03 23 48.3	18.6 V	691
1992 CM ₈	1992 02 05.19110	08 51 19.31	+17 20 24.6	18.2 V	691	1995 DK	1997 08 11.47816	23 29 22.52	-03 23 56.1	18.6 V	691
1992 CM ₈	1992 02 05.21081	08 51 18.27	+17 20 30.0		691	1995 FJ ₂₁	* 1995 03 27.34285	12 26 26.52	-03 31 03.2	18.2 V	691
1992 DZ ₅	1996 01 13.33913	08 39 06.68	+15 28 05.7	17.6 V	691	1995 FJ ₂₁	1995 03 27.36422	12 26 25.59	-03 30 57.4		691
1992 DZ ₅	1996 01 13.36059	08 39 05.57	+15 28 11.9		691	1995 FJ ₂₁	1995 03 27.38560	12 26 24.68	-03 30 51.4		691
1992 DZ ₅	1996 01 13.38219	08 39 04.44	+15 28 17.8		691	1995 GY ₈	* 1995 04 06.39054	13 08 14.51	-00 22 50.7	17.2 V	691
1992 ES ₅	1993 06 14.18493	14 58 05.98	-01 53 01.9		691	1995 GY ₈	1995 04 06.41494	13 08 13.02	-00 22 40.9		691
1992 ES ₅	1993 06 14.21655	14 58 05.03	-01 53 04.9		691	1995 GY ₈	1995 04 06.43690	13 08 11.68	-00 22 32.1		691
1992 ES ₅	1993 06 14.24855	14 58 04.25	-01 53 08.9	18.2 V	691	1995 GY ₈	1995 04 22.18226	12 53 00.33	+01 11 07.0	17.5 V	691
1992 ES ₅	1997 01 09.50909	10 20 12.88	+11 06 47.9	18.3 V	691	1995 GY ₈	1995 04 22.20473	12 52 59.08	+01 11 14.1		691
1992 ES ₅	1997 01 09.52697	10 20 12.55	+11 06 52.5	18.3 V	691	1995 GY ₈	1995 04 22.22620	12 52 57.90	+01 11 20.1		691
1992 ES ₅	1997 01 09.54520	10 20 12.23	+11 06 57.3	18.4 V	691	1995 OM ₁₀	* 1995 07 19.43181	21 28 18.89	+05 00 13.1	17.7 V	691
1992 EG ₈	1995 09 30.44357	01 35 18.01	+09 31 00.6	17.2 V	691	1995 OM ₁₀	1995 07 19.44789	21 28 18.26	+05 00 11.5		691
1992 EG ₈	1995 09 30.46463	01 35 17.17	+09 30 55.2		691	1995 OM ₁₀	1995 07 19.46431	21 28 17.57	+05 00 10.4		691
1992 EG ₈	1995 09 30.48580	01 35 16.32	+09 30 50.0		691	1995 UH ₅₃	* 1995 10 21.13029	00 27 50.12	+03 04 59.7		691
1992 EG ₈	1997 01 16.31026	09 25 08.55	+14 17 01.2	18.0 V	691	1995 UH ₅₃	1995 10 21.15135	00 27 49.12	+03 04 54.8	18.1 V	691
1992 EG ₈	1997 01 16.32579	09 25 07.88	+14 17 04.4	18.1 V	691	1995 UH ₅₃	1995 10 21.17214	00 27 48.10	+03 04 50.1		691
1992 EG ₈	1997 01 16.33927	09 25 07.26	+14 17 07.0	18.2 V	691	1995 VH ₁₉	* 1995 11 14.29116	03 22 52.39	+18 24 15.6	18.4 V	691
1992 WC ₂	1997 08 11.43681	23 37 28.82	-03 01 50.5	18.0 V	691	1995 VH ₁₉	1995 11 14.32013	03 22 50.38	+18 24 10.0		691
1992 WC ₂	1997 08 11.46029	23 37 28.27	-03 01 54.4	18.1 V	691	1995 VH ₁₉	1995 11 14.35081	03 22 48.23	+18 24 04.4		691
1992 WC ₂	1997 08 11.48377	23 37 27.75	-03 01 58.5	18.1 V	691	1995 WJ ₄₃	* 1995 11 30.47889	09 40 17.22	+12 14 09.4	19.0 V	691
1993 BO ₁₅	* 1993 01 21.24192	07 59 43.18	+20 08 31.2		691	1995 WJ ₄₃	1995 11 30.50748	09 40 17.75	+12 14 07.9		691
1993 BO ₁₅	1993 01 21.27581	07 59 41.48	+20 08 37.7	18.4 V	691	1995 WJ ₄₃	1995 11 30.53606	09 40 18.27	+12 14 06.3		691
1993 BO ₁₅	1993 01 21.30981	07 59 39.81	+20 08 42.8		691	1996 BG ₁₈	* 1996 01 21.46803	10 38 58.88	+17 12 24.6	20.0 V	691
1993 FQ ₈₄	* 1993 03 25.13362	10 07 57.00	+11 02 44.1		691	1996 BG ₁₈	1996 01 21.50929	10 38 57.56	+17 12 38.2		691
1993 FQ ₈₄	1993 03 25.16575	10 07 56.09	+11 02 48.5	19.9 V	691	1996 BG ₁₈	1996 01 21.53201	10 38 56.84	+17 12 45.8		691
1993 FQ ₈₄	1993 03 25.19858	10 07 55.09	+11 02 53.4		691	1996 EX ₁	1993 09 15.25848	23 17 23.11	-00 50 51.8		691
1993 RQ ₅	1997 08 12.24112	21 36 19.37	-06 40 20.4	17.6 V	691	1996 EX ₁	1993 09 15.29089	23 17 21.80	-00 51 09.2	17.1 V	691
1993 RQ ₅	1997 08 12.26206	21 36 18.33	-06 40 27.7	17.6 V	691	1996 EX ₁	1993 09 15.32298	23 17 20.49	-00 51 26.5		691
1993 RQ ₅	1997 08 12.28318	21 36 17.29	-06 40 34.9	17.7 V	691	1996 EJ ₁₆	* 1996 03 13.12451	10 05 53.69	+02 12 19.7	17.7 V	691

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1996 EJ ₁₆	1996 03 13.14882	10 05 52.49	+02 12 27.8		691	1997 EO ₅₅	1997 03 02.35020	12 11 11.84	-01 09 07.6	17.9 V	691
1996 EJ ₁₆	1996 03 13.16989	10 05 51.43	+02 12 34.1		691	1997 ER ₅₅	* 1997 03 12.18307	10 35 14.83	+16 55 39.8	17.7 V	691
1996 EK ₁₆	* 1996 03 12.41861	12 53 27.96	+00 58 49.0		691	1997 ER ₅₅	1997 03 12.20529	10 35 13.45	+16 55 44.9	17.6 V	691
1996 EK ₁₆	1996 03 12.44028	12 53 26.97	+00 58 59.7	19.3 V	691	1997 ER ₅₅	1997 03 12.22772	10 35 12.04	+16 55 48.7	17.6 V	691
1996 EK ₁₆	1996 03 12.46266	12 53 25.94	+00 59 10.7		691	1997 ES ₅₅	* 1997 03 13.32657	10 36 44.46	+17 19 27.1	19.8 V	691
1996 EK ₁₆	1996 04 21.13838	12 19 41.28	+05 59 15.9		691	1997 ES ₅₅	1997 03 13.33063	10 36 44.20	+17 19 27.9	19.8 V	691
1996 EK ₁₆	1996 04 21.15944	12 19 40.38	+05 59 22.5	19.1 V	691	1997 ES ₅₅	1997 03 13.33617	10 36 43.87	+17 19 29.3	19.8 V	691
1996 EK ₁₆	1996 04 21.18046	12 19 39.45	+05 59 28.7		691	1997 ET ₅₅	* 1997 03 13.34266	10 36 47.74	+18 29 56.9	19.5 V	691
1996 EL ₁₆	* 1996 03 11.27490	11 27 02.42	+04 48 28.1		691	1997 ET ₅₅	1997 03 13.36576	10 36 45.73	+18 29 49.6	19.2 V	691
1996 EL ₁₆	1996 03 11.29565	11 27 01.34	+04 48 36.7		691	1997 ET ₅₅	1997 03 13.38797	10 36 43.80	+18 29 42.6	18.9 V	691
1996 EL ₁₆	1996 03 11.31900	11 27 00.10	+04 48 46.7	18.7 V	691	1997 FL ₂	1996 11 12.48993	09 09 34.32	+14 34 32.0	18.4 V	691
1996 FL ₂	1993 09 14.27738	23 26 16.15	-03 17 31.6		691	1997 FL ₂	1996 11 12.51150	09 09 35.68	+14 34 26.5	18.5 V	691
1996 FL ₂	1993 09 14.31202	23 26 14.40	-03 17 41.9		691	1997 FL ₂	1996 11 12.53301	09 09 37.04	+14 34 21.0	18.4 V	691
1996 FL ₂	1993 09 14.34689	23 26 12.70	-03 17 51.3	16.8 V	691	1997 FL ₂	1997 01 02.40503	09 28 37.99	+13 51 44.0	17.4 V	691
1996 FP ₂₃	* 1996 03 27.38104	13 43 51.24	-07 04 05.3	19.9 V	691	1997 FL ₂	1997 01 02.42857	09 28 37.32	+13 51 48.9	17.4 V	691
1996 FP ₂₃	1996 03 27.40222	13 43 50.37	-07 04 00.1		691	1997 FL ₂	1997 01 02.45165	09 28 36.68	+13 51 54.0	17.5 V	691
1996 FP ₂₃	1996 03 27.42331	13 43 49.53	-07 03 55.3		691	1997 FT ₃	1991 09 12.15793	22 44 05.70	-02 03 04.5		691
1996 KO ₉	* 1996 05 20.15873	14 34 18.05	-09 04 29.4		691	1997 FT ₃	1991 09 12.18167	22 44 04.42	-02 03 14.9		691
1996 KO ₉	1996 05 20.17994	14 34 17.28	-09 04 29.7	18.9 V	691	1997 FT ₃	1991 09 12.20382	22 44 03.17	-02 03 25.3	19.7 V	691
1996 KO ₉	1996 05 20.20118	14 34 16.51	-09 04 29.5		691	1997 GJ	1993 04 14.23710	12 39 05.37	-02 11 55.6	19.0 V	691
1996 SS ₈	* 1996 09 17.40702	00 38 09.18	+06 01 54.0	17.9 V	691	1997 GJ	1993 04 14.26902	12 39 03.72	-02 11 47.8		691
1996 SS ₈	1996 09 17.42876	00 38 08.26	+06 01 49.6		691	1997 GJ	1993 04 14.30123	12 39 02.04	-02 11 40.1		691
1996 SS ₈	1996 09 17.45488	00 38 07.16	+06 01 44.1		691	1997 GX ₇	1996 02 14.27205	10 35 33.18	+11 53 47.7		691
1996 VB ₈	1995 03 27.14687	11 13 52.01	+05 29 05.9	17.1 V	691	1997 GX ₇	1996 02 14.29350	10 35 32.19	+11 53 53.5		691
1996 VB ₈	1995 03 27.16833	11 13 50.77	+05 29 15.1		691	1997 GX ₇	1996 02 14.31487	10 35 31.17	+11 54 00.9	18.2 V	691
1996 VB ₈	1995 03 27.18972	11 13 49.56	+05 29 24.4		691	1997 GR ₈	1997 05 08.15096	12 27 30.60	-03 06 01.5	20.1 V	691
1996 XF ₆	1992 04 09.12572	11 26 52.94	+05 55 31.1		691	1997 GR ₈	1997 05 08.17201	12 27 30.07	-03 06 01.0	20.1 V	691
1996 XF ₆	1992 04 09.15006	11 26 52.20	+05 55 34.3	18.0 V	691	1997 GR ₈	1997 05 08.19285	12 27 29.52	-03 06 00.0	20.2 V	691
1996 XF ₆	1992 04 09.17648	11 26 51.37	+05 55 37.4		691	1997 GZ ₃₆	1997 05 06.15268	12 24 52.47	-02 02 39.4	19.4 V	691
1996 XE ₃₇	* 1996 12 12.22996	03 56 41.27	+09 15 46.2	18.6 V	691	1997 GZ ₃₆	1997 05 06.17428	12 24 51.91	-02 02 39.4	19.6 V	691
1996 XE ₃₇	1996 12 12.25171	03 56 40.17	+09 15 42.8	18.6 V	691	1997 GZ ₃₆	1997 05 06.19534	12 24 51.35	-02 02 39.6	19.4 V	691
1996 XE ₃₇	1996 12 12.27367	03 56 38.99	+09 15 38.8	18.8 V	691	1997 HV ₂	1997 05 09.14231	12 11 39.18	-02 48 26.2	19.2 V	691
1996 YB ₂	1994 03 14.28787	12 04 48.71	+01 27 16.9	16.4 V	691	1997 HV ₂	1997 05 09.16324	12 11 38.79	-02 48 26.1	19.5 V	691
1996 YB ₂	1994 03 14.34675	12 04 45.80	+01 27 49.4		691	1997 HV ₂	1997 05 09.18424	12 11 38.50	-02 48 26.2	19.7 V	691
1996 YB ₂	1994 03 14.41501	12 04 42.44	+01 28 27.3		691	1997 HC ₃	1997 05 09.15070	12 24 00.33	-02 39 44.8	18.9 V	691
1997 CJ ₂₉	1994 03 14.47199	14 12 54.53	-09 04 10.5		691	1997 HC ₃	1997 05 09.17163	12 24 00.01	-02 39 41.9	18.9 V	691
1997 CJ ₂₉	1994 03 14.49574	14 12 54.18	-09 04 04.4		691	1997 HC ₃	1997 05 09.19263	12 23 59.66	-02 39 38.2	19.2 V	691
1997 CJ ₂₉	1994 03 14.51808	14 12 53.84	-09 03 58.4	17.0 V	691	1997 JL ₄	1995 12 25.46207	09 14 02.34	+13 46 56.1	18.6 V	691
1997 CX ₂₉	* 1997 02 03.45111	10 41 36.50	+17 58 32.5	19.0 V	691	1997 JL ₄	1995 12 25.48343	09 14 01.77	+13 46 56.6		691
1997 CX ₂₉	1997 02 03.47348	10 41 35.31	+17 58 39.6	19.0 V	691	1997 JL ₄	1995 12 25.50494	09 14 01.21	+13 46 57.3		691
1997 CX ₂₉	1997 02 03.49601	10 41 34.14	+17 58 47.2	18.8 V	691	1997 JL ₄	1996 01 27.32119	08 48 57.06	+15 04 21.3		691
1997 EU ₅₁	1997 04 09.31466	12 12 07.54	+01 01 09.7	17.8 V	691	1997 JL ₄	1996 01 27.34311	08 48 55.71	+15 04 25.5	17.8 V	691
1997 EU ₅₁	1997 04 09.33661	12 12 06.55	+01 01 19.1	17.8 V	691	1997 JL ₄	1996 01 27.36469	08 48 54.37	+15 04 30.3		691
1997 EU ₅₁	1997 04 09.35838	12 12 05.59	+01 01 28.1	18.0 V	691	1997 NA ₁	1992 10 01.20132	23 51 09.11	-00 11 31.1	17.3 V	691
1997 EG ₅₂	1997 04 13.24398	12 12 54.40	+00 54 31.4	17.7 V	691	1997 NA ₁	1992 10 01.22672	23 51 08.06	-00 11 39.5		691
1997 EG ₅₂	1997 04 13.26542	12 12 53.45	+00 54 39.4	17.9 V	691	1997 NA ₁	1992 10 01.25422	23 51 06.92	-00 11 48.1		691
1997 EG ₅₂	1997 04 13.28703	12 12 52.52	+00 54 47.1	17.9 V	691	1997 NP ₁	1997 08 05.32750	20 58 46.22	-17 44 25.8	19.1 V	691
1997 EN ₅₅	* 1997 03 02.21922	08 41 10.14	+15 20 19.7	18.5 V	691	1997 NP ₁	1997 08 05.34915	20 58 45.04	-17 44 42.7	19.3 V	691
1997 EN ₅₅	1997 03 02.24169	08 41 09.52	+15 20 34.8	18.2 V	691	1997 NP ₁	1997 08 05.37088	20 58 43.89	-17 44 59.5	19.5 V	691
1997 EN ₅₅	1997 03 02.26364	08 41 08.93	+15 20 49.6	17.9 V	691	1997 NZ ₂	1996 03 21.18804	11 14 36.51	+11 38 09.7	19.1 V	691
1997 EO ₅₅	* 1997 03 02.30793	12 11 13.49	-01 09 17.3	18.0 V	691	1997 NZ ₂	1996 03 21.20994	11 14 35.36	+11 38 15.2		691
1997 EO ₅₅	1997 03 02.32905	12 11 12.68	-01 09 12.4	18.1 V	691	1997 NZ ₂	1996 03 21.23462	11 14 34.12	+11 38 20.7		691

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1997 NL ₆	1991 11 02.39328	02 29 50.75	+11 11 22.1	18.9 V	691	1997 PQ ₅	1997 08 12.28499	21 38 54.24	-06 50 43.0	19.2 V	691
1997 NL ₆	1991 11 02.41405	02 29 49.43	+11 11 13.2		691	1997 QU	1997 08 12.24121	21 36 27.56	-06 38 22.8	16.9 V	691
1997 NL ₆	1991 11 02.43454	02 29 48.08	+11 11 04.5		691	1997 QU	1997 08 12.26216	21 36 26.49	-06 38 29.4	16.9 V	691
1997 NL ₆	1993 03 19.21759	09 10 13.00	+11 43 46.9	19.0 V	691	1997 QU	1997 08 12.28327	21 36 25.40	-06 38 36.2	16.9 V	691
1997 NL ₆	1993 03 19.22988	09 10 12.65	+11 43 50.6		691	1997 RN ₁	1997 06 15.43446	22 37 22.64	-07 58 52.3	19.8 V	691
1997 NL ₆	1993 03 19.24162	09 10 12.32	+11 43 53.9		691	1997 RN ₁	1997 06 15.44648	22 37 23.51	-07 58 45.8	19.5 V	691
1997 NL ₆	1994 09 14.33365	00 11 12.37	+03 38 28.6	17.5 V	691	1997 RN ₁	1997 06 15.45460	22 37 24.09	-07 58 41.0	19.5 V	691
1997 NL ₆	1994 09 14.35502	00 11 11.19	+03 38 17.1		691	4073 P-L	1995 10 19.29353	02 22 32.49	+18 07 56.5		691
1997 NL ₆	1994 09 14.37635	00 11 09.95	+03 38 05.7		691	4073 P-L	1995 10 19.31539	02 22 31.13	+18 07 49.2	18.2 V	691
1997 NR ₆	1995 02 05.28028	09 29 07.75	+18 27 58.8		691	4073 P-L	1995 10 19.33738	02 22 29.73	+18 07 41.9		691
1997 NR ₆	1995 02 05.30462	09 29 06.53	+18 28 08.6	17.2 V	691	4073 P-L	1995 11 16.19060	01 54 46.33	+15 05 11.3	18.3 V	691
1997 NR ₆	1995 02 05.32890	09 29 05.33	+18 28 18.4		691	4073 P-L	1995 11 16.21219	01 54 45.21	+15 05 03.1		691
1997 OJ ₁	1996 05 20.31161	15 08 13.46	-14 05 42.4	19.1 V	691	4073 P-L	1995 11 16.23444	01 54 44.07	+15 04 54.5		691
1997 OJ ₁	1996 05 20.33333	15 08 12.37	-14 05 39.3		691	6039 P-L	1994 01 07.08597	01 02 24.23	+00 58 13.9	17.6 V	691
1997 OJ ₁	1996 05 20.35526	15 08 11.27	-14 05 36.4		691	6039 P-L	1994 01 07.09421	01 02 24.71	+00 58 15.9		691
1997 OK ₁	1997 08 04.45406	22 09 29.80	-14 53 14.3		691	6039 P-L	1994 01 07.10206	01 02 25.15	+00 58 18.9		691
1997 OK ₁	1997 08 04.45860	22 09 29.66	-14 53 15.5		691	1174 T-1	1997 08 12.43498	23 34 25.93	-02 17 37.9	18.8 V	691
1997 OK ₁	1997 08 04.46630	22 09 29.39	-14 53 18.6		691	1174 T-1	1997 08 12.45809	23 34 25.30	-02 17 41.1	18.7 V	691
1997 OC ₂	1997 07 11.35041	21 39 05.37	-12 01 21.7	19.4 V	691	1174 T-1	1997 08 12.48131	23 34 24.71	-02 17 44.6	18.9 V	691
1997 OC ₂	1997 07 11.37263	21 39 04.71	-12 01 23.2	19.3 V	691	3064 T-1	1991 12 30.19578	04 38 11.53	+22 13 28.6	19.3 V	691
1997 OC ₂	1997 07 11.39478	21 39 04.02	-12 01 25.1	19.3 V	691	3064 T-1	1991 12 30.21792	04 38 10.34	+22 13 26.4		691
1997 OC ₂	1997 08 10.28960	21 15 13.75	-13 35 02.7	18.6 V	691	3064 T-1	1991 12 30.24008	04 38 09.17	+22 13 23.6		691
1997 OC ₂	1997 08 10.31100	21 15 12.43	-13 35 08.4	18.6 V	691	(107)	1997 08 11.21827	21 25 57.14	-07 18 16.0	12.6 V	691
1997 OC ₂	1997 08 10.33241	21 15 11.13	-13 35 13.9	18.6 V	691	(107)	1997 08 11.23957	21 25 56.29	-07 18 21.0	12.4 V	691
1997 OD ₂	1997 07 12.35339	21 34 46.31	-11 34 57.7	19.5 V	691	(107)	1997 08 11.26058	21 25 55.45	-07 18 27.3	12.6 V	691
1997 OD ₂	1997 07 12.37743	21 34 45.83	-11 35 00.7	19.6 V	691	(246)	1997 08 12.43122	23 29 00.24	-02 12 05.6	12.5 V	691
1997 OD ₂	1997 07 12.39903	21 34 45.40	-11 35 03.4	19.5 V	691	(246)	1997 08 12.45433	23 28 59.61	-02 12 17.6	12.8 V	691
1997 OE ₂	1997 07 14.38619	21 37 09.97	-10 54 18.3	19.1 V	691	(246)	1997 08 12.47755	23 28 58.99	-02 12 29.8	12.6 V	691
1997 OE ₂	1997 07 14.40553	21 37 09.31	-10 54 24.9	18.9 V	691	(2650)	1997 08 12.30875	22 49 17.83	-08 23 46.8	13.8 V	691
1997 OE ₂	1997 07 14.42325	21 37 08.72	-10 54 30.9	19.0 V	691	(2650)	1997 08 12.32975	22 49 16.66	-08 23 41.7	13.9 V	691
1997 OU ₂	1997 06 09.42253	21 05 09.97	-06 39 44.5	18.0 V	691	(2650)	1997 08 12.35119	22 49 15.45	-08 23 36.2	13.8 V	691
1997 OU ₂	1997 06 09.43820	21 05 10.60	-06 39 41.7	17.9 V	691	(2977)	1997 08 12.22837	21 17 55.05	-06 37 30.8	15.2 V	691
1997 PM ₁	1997 07 31.36658	22 07 35.14	-14 24 09.8	18.5 V	691	(2977)	1997 08 12.24932	21 17 54.08	-06 37 40.9	15.3 V	691
1997 PM ₁	1997 07 31.39682	22 07 33.96	-14 24 18.6	18.8 V	691	(2977)	1997 08 12.27043	21 17 53.08	-06 37 50.5	15.8 V	691
1997 PM ₁	1997 07 31.41844	22 07 33.17	-14 24 25.4	18.9 V	691	(3293)	1997 08 11.37567	23 40 44.58	-03 50 11.7	18.2 V	691
1997 PJ ₂	1997 07 31.36643	22 07 22.16	-13 59 12.9	18.3 V	691	(3293)	1997 08 11.39661	23 40 43.82	-03 50 15.9	18.1 V	691
1997 PJ ₂	1997 07 31.39667	22 07 21.09	-13 59 25.2	18.1 V	691	(3293)	1997 08 11.41745	23 40 43.11	-03 50 19.9	18.1 V	691
1997 PJ ₂	1997 07 31.41830	22 07 20.34	-13 59 34.1	18.3 V	691	(3869)	1997 08 12.23522	21 27 48.70	-06 41 28.8	15.3 V	691
1997 PP ₂	1997 08 12.24231	21 38 02.64	-06 29 35.2	18.5 V	691	(3869)	1997 08 12.25617	21 27 47.53	-06 41 33.1	15.3 V	691
1997 PP ₂	1997 08 12.26325	21 38 01.40	-06 29 32.4	18.5 V	691	(3869)	1997 08 12.27728	21 27 46.36	-06 41 37.3	15.3 V	691
1997 PP ₂	1997 08 12.28436	21 38 00.13	-06 29 29.2	18.6 V	691	(3924)	1997 08 12.42949	23 26 30.32	-02 04 10.3	16.7 V	691
1997 PA ₄	1997 08 05.31399	20 39 15.77	-17 47 34.2	17.6 V	691	(3924)	1997 08 12.45260	23 26 29.50	-02 04 10.9	16.4 V	691
1997 PA ₄	1997 08 05.33564	20 39 14.35	-17 47 30.0	17.7 V	691	(3924)	1997 08 12.47582	23 26 28.69	-02 04 11.6	16.3 V	691
1997 PA ₄	1997 08 05.35737	20 39 12.95	-17 47 25.6	17.6 V	691	(4196)	1997 08 11.29649	22 25 47.72	-09 12 36.3	16.9 V	691
1997 PG ₄	* 1997 08 12.43749	23 38 02.88	-02 06 28.9	19.7 V	691	(4471)	1997 08 11.37725	23 43 01.38	-03 52 54.4	15.9 V	691
1997 PG ₄	1997 08 12.46060	23 38 03.10	-02 06 33.3	19.6 V	691	(4471)	1997 08 11.39819	23 43 00.70	-03 52 51.5	15.9 V	691
1997 PG ₄	1997 08 12.48384	23 38 03.29	-02 06 37.3	19.8 V	691	(4471)	1997 08 11.41903	23 43 00.04	-03 52 48.3	16.0 V	691
1997 PN ₅	1997 06 29.36979	21 18 20.82	-12 32 50.1	17.6 V	691	(5109)	1997 08 11.37249	23 36 09.51	-03 53 15.7	17.2 V	691
1997 PN ₅	1997 06 29.39104	21 18 20.28	-12 32 44.5	17.5 V	691	(5109)	1997 08 11.39344	23 36 08.88	-03 53 22.4	17.2 V	691
1997 PN ₅	1997 06 29.41236	21 18 19.76	-12 32 38.8	17.4 V	691	(5109)	1997 08 11.41428	23 36 08.24	-03 53 29.2	17.2 V	691
1997 PQ ₅	1997 08 12.24294	21 38 56.83	-06 50 31.0	19.0 V	691	(5919)	1997 08 12.43949	23 40 56.39	-02 24 50.0	18.2 V	691
1997 PQ ₅	1997 08 12.26388	21 38 55.54	-06 50 36.9	19.0 V	691	(5919)	1997 08 12.46260	23 40 55.76	-02 24 53.9	17.8 V	691

(5919)	1997 08 12.48582	23 40 55.12	-02 24 57.9	17.9 V	691
(6295)	1997 08 12.30722	22 47 04.56	-08 16 08.0	16.3 V	691
(6295)	1997 08 12.32822	22 47 03.67	-08 16 09.9	16.2 V	691
(6295)	1997 08 12.34966	22 47 02.73	-08 16 11.7	16.3 V	691
(6978)	1997 08 11.36699	23 28 12.74	-03 55 29.2	16.5 V	691
(6978)	1997 08 11.38793	23 28 11.92	-03 55 29.0	16.8 V	691
(6978)	1997 08 11.40877	23 28 11.11	-03 55 28.8	17.1 V	691

704 Lincoln Laboratory Experimental Test System, New Mexico

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Observers M. Blythe, F. Shelly, M. Bezpalko

Measurers J. Stuart, H. Viggh, J. Sharma

1.0-m $f/2.15$ reflector + CCD

USNO-SA1.0

1978 SB ₃	1997 06 29.24381	18 31 47.37	-29 04 58.3	18.3	704
1978 SB ₃	1997 06 29.26737	18 31 45.62	-29 04 57.7		704
1978 SB ₃	1997 06 29.29096	18 31 43.97	-29 04 58.0	18.0	704
1978 SB ₃	1997 06 29.31452	18 31 42.31	-29 04 57.6		704
1978 SB ₃	1997 06 29.33807	18 31 40.68	-29 04 57.1		704
1978 VT ₈	1997 06 29.23099	18 43 43.54	-17 40 51.6	18.6	704
1978 VT ₈	1997 06 29.25455	18 43 42.26	-17 40 52.7		704
1978 VT ₈	1997 06 29.27811	18 43 41.08	-17 40 52.0	18.8	704
1978 VT ₈	1997 06 29.30170	18 43 39.85	-17 40 51.2	18.9	704
1978 VT ₈	1997 06 29.32525	18 43 38.31	-17 40 51.1		704
1981 EY ₁₀	1997 06 29.23112	18 44 50.68	-18 04 52.8	18.8	704
1981 EY ₁₀	1997 06 29.25468	18 44 49.18	-18 04 53.7	18.5	704
1981 EY ₁₀	1997 06 29.27824	18 44 47.70	-18 04 54.4	18.9	704
1981 EY ₁₀	1997 06 29.30183	18 44 46.21	-18 04 55.3	19.3	704
1981 EY ₁₀	1997 06 29.32538	18 44 44.72	-18 04 55.5		704
1988 XV ₂	1997 06 29.22956	18 45 58.07	-23 45 30.6	19.0	704
1988 XV ₂	1997 06 29.25313	18 45 56.33	-23 45 30.5		704
1988 XV ₂	1997 06 29.27668	18 45 54.67	-23 45 30.6	19.4	704
1988 XV ₂	1997 06 29.30027	18 45 53.03	-23 45 29.6		704
1989 AC ₇	1997 06 29.22658	18 48 49.78	-21 12 31.0	19.6	704
1989 AC ₇	1997 06 29.25014	18 48 48.56	-21 12 32.7	19.1	704
1989 AC ₇	1997 06 29.27370	18 48 47.39	-21 12 35.1		704
1989 AC ₇	1997 06 29.29729	18 48 46.06	-21 12 37.0	19.7	704
1989 AC ₇	1997 06 29.32086	18 48 44.98	-21 12 37.8	19.3	704
1989 BW ₁	1997 06 29.22464	18 52 42.55	-22 47 17.0	18.2	704
1989 BW ₁	1997 06 29.24820	18 52 40.96	-22 47 21.0		704
1989 BW ₁	1997 06 29.27176	18 52 39.43	-22 47 24.1		704
1989 BW ₁	1997 06 29.29535	18 52 37.87	-22 47 27.6		704
1989 BW ₁	1997 06 29.31892	18 52 36.29	-22 47 31.7		704
1989 TB ₁₁	1997 06 29.22814	18 48 52.28	-28 30 06.1		704
1989 TB ₁₁	1997 06 29.25171	18 48 50.82	-28 30 07.2		704
1989 TB ₁₁	1997 06 29.27526	18 48 49.31	-28 30 08.0		704
1989 TB ₁₁	1997 06 29.29885	18 48 47.82	-28 30 09.3		704
1989 TB ₁₁	1997 06 29.32241	18 48 46.33	-28 30 09.4		704
1990 UR	1997 06 29.23941	18 34 32.86	-26 16 56.6	18.1	704
1990 UR	1997 06 29.26297	18 34 31.30	-26 16 56.5		704
1990 UR	1997 06 29.31012	18 34 27.97	-26 16 58.0	18.5	704
1990 UR	1997 06 29.33367	18 34 26.25	-26 16 56.5		704

1992 RQ	1997 06 29.24225	18 33 07.89	-21 53 01.6	18.7	704
1992 RQ	1997 06 29.26582	18 33 06.44	-21 53 05.1	19.2	704
1992 RQ	1997 06 29.28940	18 33 05.30	-21 53 07.0	19.1	704
1992 RQ	1997 06 29.31297	18 33 03.99	-21 53 07.1	19.0	704
1992 RQ	1997 06 29.33652	18 33 02.58	-21 53 09.7		704
1993 FN ₁₄	1997 06 29.22892	18 46 07.26	-26 53 36.5	18.6	704
1993 FN ₁₄	1997 06 29.25248	18 46 05.52	-26 53 42.0	18.5	704
1993 FN ₁₄	1997 06 29.27604	18 46 03.88	-26 53 48.0	18.5	704
1993 FN ₁₄	1997 06 29.32319	18 46 00.47	-26 53 59.4	18.4	704
1993 FL ₃₉	1997 06 29.23837	18 36 52.69	-28 18 23.7	19.6	704
1993 FL ₃₉	1997 06 29.26193	18 36 51.39	-28 18 25.7		704
1993 FL ₃₉	1997 06 29.28550	18 36 50.01	-28 18 29.0		704
1993 FL ₃₉	1997 06 29.30909	18 36 48.60	-28 18 31.6		704
1993 FL ₃₉	1997 06 29.33264	18 36 47.12	-28 18 34.4		704
1994 PR ₂₀	1997 06 29.22542	18 51 54.95	-18 43 33.7	18.3	704
1994 PR ₂₀	1997 06 29.24898	18 51 53.42	-18 43 36.9		704
1994 PR ₂₀	1997 06 29.27254	18 51 51.81	-18 43 40.1		704
1994 PR ₂₀	1997 06 29.29613	18 51 50.35	-18 43 42.7	18.7	704
1994 PR ₂₀	1997 06 29.31969	18 51 48.80	-18 43 45.9	18.7	704
1995 BJ ₁	1997 06 29.22451	18 51 49.09	-23 05 29.7	18.3	704
1995 BJ ₁	1997 06 29.24807	18 51 47.94	-23 05 31.9	18.7	704
1995 BJ ₁	1997 06 29.27163	18 51 46.73	-23 05 33.7	18.7	704
1995 BJ ₁	1997 06 29.29522	18 51 45.59	-23 05 35.6		704
1996 CH ₁	1997 06 29.23552	18 40 28.54	-19 59 15.2	18.4	704
1996 CH ₁	1997 06 29.25909	18 40 27.01	-19 59 19.1		704
1996 CH ₁	1997 06 29.28265	18 40 25.51	-19 59 23.1	18.7	704
1996 CH ₁	1997 06 29.30625	18 40 24.03	-19 59 28.0		704
1996 CH ₁	1997 06 29.32979	18 40 22.48	-19 59 31.0	18.8	704
1997 EP ₅₅	1997 03 06.16818	09 11 22.03	+15 11 02.0		704
1997 EP ₅₅	1997 03 06.31351	09 11 16.55	+15 11 52.9		704
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1997 EQ ₅₅	1997 03 05.31579	09 14 12.82	+14 35 51.6		704
1997 GM ₄₄	1997 04 11.17680	13 06 23.87	-03 23 46.3	19.8	704
1997 GM ₄₄	1997 04 11.23356	13 06 21.19	-03 23 28.9		704
1997 GQ ₄₄	1997 04 11.18400	13 09 58.22	-11 03 33.6	18.8	704
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1997 GR ₄₄	1997 04 11.19265	13 09 07.79	-08 09 42.9	18.1	704
1997 GR ₄₄	1997 04 11.23528	13 09 05.01	-08 09 33.5		704
1997 HT ₁₁	1997 05 05.33561	14 34 43.34	-16 33 38.4	18.5	704
1997 HT ₁₁	1997 05 05.33580	14 34 43.31	-16 33 37.5		704
1997 HT ₁₁	1997 05 05.35297	14 34 42.17	-16 33 37.9	18.7	704
1997 HT ₁₁	1997 05 05.35316	14 34 42.16	-16 33 37.0		704
1997 HT ₁₁	1997 05 05.37033	14 34 41.01	-16 33 36.5	18.7	704
1997 HT ₁₁	1997 05 05.37052	14 34 41.00	-16 33 36.2		704
1997 HT ₁₁	1997 05 05.38769	14 34 39.86	-16 33 35.8	18.7	704
1997 HT ₁₁	1997 05 05.38788	14 34 39.85	-16 33 35.1		704
1997 HT ₁₁	1997 05 05.40505	14 34 38.70	-16 33 36.1	19.0	704
1997 HT ₁₁	1997 05 05.40524	14 34 38.68	-16 33 35.0		704
1997 HK ₁₆	1997 03 31.32716	12 46 51.59	-05 32 54.3	18.3	704
1997 HK ₁₆	1997 03 31.41433	12 46 47.44	-05 32 30.7		704
1997 HG ₁₈	* 1997 04 30.20261	14 24 53.44	-15 29 30.0		704
1997 HG ₁₈	1997 04 30.22486	14 24 52.14	-15 29 19.4		704

1997 HG ₁₈	1997 04 30.24729	14 24 50.85	-15 29 09.2	704	1997 MN ₃	1997 06 29.27305	18 50 11.94	-18 30 36.4	704
1997 HG ₁₈	1997 04 30.26972	14 24 49.54	-15 28 58.7	704	1997 MN ₃	1997 06 29.29665	18 50 09.89	-18 30 13.9	18.3 704
1997 HG ₁₈	1997 04 30.29235	14 24 48.23	-15 28 48.2	18.2 704	1997 MN ₃	1997 06 29.32021	18 50 07.86	-18 29 54.0	18.3 704
1997 JL ₄	1997 04 06.32515	14 58 41.72	-19 30 22.4	18.8 704	1997 MN ₃	1997 07 03.39070	18 44 28.02	-17 30 46.2	704
1997 JL ₄	1997 04 06.32530	14 58 41.77	-19 30 23.0	18.7 704	1997 MN ₃	1997 07 03.39627	18 44 27.54	-17 30 41.2	704
1997 JL ₄	1997 04 06.41974	14 58 38.37	-19 30 09.2	704	1997 MN ₃	1997 07 03.40185	18 44 27.03	-17 30 36.6	704
1997 JL ₄	1997 04 06.41990	14 58 38.39	-19 30 11.5	704	1997 MN ₃	1997 07 03.40742	18 44 26.53	-17 30 31.5	704
1997 JT ₁₈	* 1997 05 07.31290	15 06 28.71	-12 50 50.8	18.9 704	1997 MN ₃	1997 07 03.41288	18 44 26.06	-17 30 26.7	704
1997 JT ₁₈	1997 05 07.32969	15 06 27.67	-12 50 47.4	704	1997 MO ₃	1997 06 29.22594	18 50 11.97	-18 28 53.4	19.4 704
1997 JT ₁₈	1997 05 07.34710	15 06 26.43	-12 50 41.8	19.3 704	1997 MO ₃	1997 06 29.24949	18 50 10.61	-18 28 53.3	19.6 704
1997 JT ₁₈	1997 05 07.36441	15 06 25.32	-12 50 37.9	704	1997 MO ₃	1997 06 29.29665	18 50 07.75	-18 28 50.6	19.7 704
1997 JT ₁₈	1997 05 07.38180	15 06 24.18	-12 50 33.9	18.9 704	1997 MO ₃	1997 06 29.32021	18 50 06.38	-18 28 50.3	19.3 704
1997 JU ₁₈	* 1997 05 07.31657	15 08 27.99	-15 32 17.1	18.9 704	1997 MP ₃	1997 06 29.22555	18 50 50.79	-18 20 14.0	18.3 704
1997 JU ₁₈	1997 05 07.33400	15 08 27.04	-15 32 15.0	19.0 704	1997 MP ₃	1997 06 29.24911	18 50 49.37	-18 20 22.2	18.5 704
1997 JU ₁₈	1997 05 07.35130	15 08 26.08	-15 32 12.4	704	1997 MP ₃	1997 06 29.27266	18 50 47.98	-18 20 30.1	18.6 704
1997 JU ₁₈	1997 05 07.36866	15 08 25.10	-15 32 09.2	19.3 704	1997 MP ₃	1997 06 29.29626	18 50 46.56	-18 20 37.3	18.4 704
1997 MQ ₂	1997 06 29.24872	18 52 24.42	-20 12 58.6	704	1997 MP ₃	1997 06 29.31982	18 50 45.10	-18 20 44.8	18.4 704
1997 MQ ₂	1997 06 29.27228	18 52 22.97	-20 13 00.6	704	1997 MQ ₃	1997 06 29.23086	18 47 27.37	-17 25 00.3	18.4 704
1997 MQ ₂	1997 06 29.29587	18 52 21.59	-20 13 02.3	704	1997 MQ ₃	1997 06 29.25442	18 47 25.90	-17 25 06.7	18.7 704
1997 MQ ₂	1997 06 29.31943	18 52 20.02	-20 13 04.3	704	1997 MQ ₃	1997 06 29.27798	18 47 24.46	-17 25 13.2	18.7 704
1997 ME ₃	1997 06 29.22749	18 49 57.13	-25 36 37.7	18.7 704	1997 MQ ₃	1997 06 29.30157	18 47 23.05	-17 25 19.7	704
1997 ME ₃	1997 06 29.25106	18 49 55.58	-25 36 40.5	18.4 704	1997 MQ ₃	1997 06 29.32512	18 47 21.50	-17 25 25.9	704
1997 ME ₃	1997 06 29.27461	18 49 53.96	-25 36 43.4	704	1997 MS ₃	1997 06 29.22581	18 49 37.45	-17 29 36.0	19.6 704
1997 ME ₃	1997 06 29.29820	18 49 52.34	-25 36 46.4	18.4 704	1997 MS ₃	1997 06 29.24936	18 49 36.08	-17 29 41.6	20.0 704
1997 ME ₃	1997 06 29.32176	18 49 50.66	-25 36 49.2	704	1997 MS ₃	1997 06 29.27292	18 49 34.75	-17 29 44.5	19.3 704
1997 MF ₃	1997 06 29.22736	18 49 55.44	-25 05 10.5	704	1997 MS ₃	1997 06 29.29652	18 49 33.48	-17 29 48.3	19.1 704
1997 MF ₃	1997 06 29.25092	18 49 53.91	-25 05 00.8	704	1997 MS ₃	1997 06 29.32008	18 49 32.17	-17 29 52.4	19.2 704
1997 MF ₃	1997 06 29.27448	18 49 52.59	-25 04 47.8	704	1997 MT ₃	1997 06 29.22633	18 48 09.20	-20 00 11.5	19.7 704
1997 MF ₃	1997 06 29.29807	18 49 50.90	-25 04 39.7	704	1997 MT ₃	1997 06 29.24988	18 48 07.80	-20 00 14.9	704
1997 MF ₃	1997 06 29.32163	18 49 49.30	-25 04 29.0	704	1997 MT ₃	1997 06 29.27344	18 48 06.30	-20 00 18.5	19.2 704
1997 MH ₃	1997 06 29.22697	18 50 07.63	-22 56 29.8	19.2 704	1997 MT ₃	1997 06 29.29703	18 48 04.92	-20 00 22.2	19.2 704
1997 MH ₃	1997 06 29.25053	18 50 06.04	-22 56 39.4	19.2 704	1997 MT ₃	1997 06 29.32060	18 48 03.50	-20 00 26.0	704
1997 MH ₃	1997 06 29.27409	18 50 04.60	-22 56 48.2	704	1997 MU ₃	1997 06 29.23008	18 47 47.24	-21 22 35.3	19.5 704
1997 MH ₃	1997 06 29.29768	18 50 02.87	-22 56 57.0	704	1997 MU ₃	1997 06 29.25365	18 47 45.98	-21 22 38.9	19.5 704
1997 MH ₃	1997 06 29.32125	18 50 01.48	-22 57 07.8	19.3 704	1997 MU ₃	1997 06 29.27720	18 47 44.78	-21 22 41.0	19.7 704
1997 MJ ₃	1997 06 29.22464	18 51 36.62	-22 43 43.5	19.3 704	1997 MU ₃	1997 06 29.32434	18 47 42.24	-21 22 46.4	19.6 704
1997 MJ ₃	1997 06 29.24820	18 51 35.29	-22 43 47.2	19.5 704	1997 MV ₃	1997 06 29.22658	18 48 15.06	-21 13 24.8	18.8 704
1997 MJ ₃	1997 06 29.27176	18 51 33.98	-22 43 50.7	19.2 704	1997 MV ₃	1997 06 29.25014	18 48 13.70	-21 13 31.0	18.6 704
1997 MJ ₃	1997 06 29.29535	18 51 32.50	-22 43 54.7	19.2 704	1997 MV ₃	1997 06 29.27370	18 48 12.26	-21 13 36.7	19.0 704
1997 MJ ₃	1997 06 29.31892	18 51 31.15	-22 43 58.4	19.1 704	1997 MV ₃	1997 06 29.29729	18 48 10.83	-21 13 43.0	19.0 704
1997 MK ₃	1997 06 29.22658	18 50 02.81	-21 00 00.7	18.8 704	1997 MV ₃	1997 06 29.32086	18 48 09.45	-21 13 48.5	18.8 704
1997 MK ₃	1997 06 29.25014	18 50 01.40	-21 00 01.4	704	1997 MV ₃	1997 07 02.19447	18 45 23.79	-21 26 06.2	18.7 704
1997 MK ₃	1997 06 29.27370	18 49 59.74	-21 00 02.8	704	1997 MV ₃	1997 07 02.19931	18 45 23.48	-21 26 08.4	19.1 704
1997 MK ₃	1997 06 29.29729	18 49 58.21	-21 00 04.7	19.2 704	1997 MV ₃	1997 07 02.20415	18 45 23.20	-21 26 08.3	704
1997 MK ₃	1997 06 29.32086	18 49 56.68	-21 00 05.9	704	1997 MV ₃	1997 07 02.21394	18 45 22.50	-21 26 11.4	18.9 704
1997 MM ₃	1997 06 29.22646	18 49 57.68	-20 35 52.1	704	1997 MX ₃	1997 06 29.22956	18 47 25.25	-23 45 29.8	19.5 704
1997 MM ₃	1997 06 29.25001	18 49 55.66	-20 36 20.7	704	1997 MX ₃	1997 06 29.25313	18 47 23.91	-23 45 36.9	19.1 704
1997 MM ₃	1997 06 29.27357	18 49 53.64	-20 36 49.0	704	1997 MX ₃	1997 06 29.27668	18 47 22.66	-23 45 43.0	704
1997 MM ₃	1997 06 29.29716	18 49 51.70	-20 37 17.6	704	1997 MX ₃	1997 06 29.30027	18 47 21.33	-23 45 49.2	19.5 704
1997 MM ₃	1997 06 29.32073	18 49 49.58	-20 37 46.3	704	1997 MX ₃	1997 06 29.32383	18 47 20.03	-23 45 56.2	704
1997 MN ₃	1997 06 29.22594	18 50 16.03	-18 31 15.6	18.6 704	1997 MY ₃	1997 06 29.22710	18 48 23.09	-23 34 49.5	18.7 704
1997 MN ₃	1997 06 29.24949	18 50 13.94	-18 30 55.8	704	1997 MY ₃	1997 06 29.25066	18 48 21.77	-23 34 47.1	704

1997 MY ₃	1997 06 29.27422	18 48 20.52	-23 34 46.5	19.0	704	1997 MO ₄	1997 06 29.32720	18 42 57.03	-26 42 33.9		704
1997 MY ₃	1997 06 29.29781	18 48 19.23	-23 34 44.3		704	1997 MP ₄	1997 06 29.23345	18 43 01.74	-29 06 24.3	18.5	704
1997 MY ₃	1997 06 29.32137	18 48 17.96	-23 34 42.7	19.0	704	1997 MP ₄	1997 06 29.25702	18 43 00.41	-29 06 20.8	18.2	704
1997 MA ₄	1997 06 29.22931	18 47 29.63	-24 58 28.7	18.7	704	1997 MP ₄	1997 06 29.28057	18 42 59.10	-29 06 17.7	18.3	704
1997 MA ₄	1997 06 29.25287	18 47 28.29	-24 58 30.4	18.6	704	1997 MP ₄	1997 06 29.30418	18 42 57.77	-29 06 14.4	18.3	704
1997 MA ₄	1997 06 29.27643	18 47 26.99	-24 58 31.9	18.5	704	1997 MP ₄	1997 06 29.32772	18 42 56.39	-29 06 11.4	18.5	704
1997 MA ₄	1997 06 29.30001	18 47 25.70	-24 58 32.9	18.9	704	1997 MQ ₄	1997 06 29.23798	18 39 22.31	-26 24 18.6	18.2	704
1997 MA ₄	1997 06 29.32357	18 47 24.36	-24 58 34.9	18.7	704	1997 MQ ₄	1997 06 29.26155	18 39 20.71	-26 24 27.9		704
1997 MC ₄	1997 06 29.22762	18 49 16.20	-26 06 07.8		704	1997 MQ ₄	1997 06 29.28511	18 39 19.34	-26 24 36.6		704
1997 MC ₄	1997 06 29.25119	18 49 14.61	-26 06 04.3		704	1997 MQ ₄	1997 06 29.30871	18 39 17.65	-26 24 46.7		704
1997 MC ₄	1997 06 29.27475	18 49 13.04	-26 06 01.0		704	1997 MQ ₄	1997 06 29.33224	18 39 16.10	-26 24 55.3		704
1997 MC ₄	1997 06 29.29833	18 49 11.39	-26 05 57.5		704	1997 MR ₄	1997 06 29.23785	18 38 55.41	-25 41 44.6	18.9	704
1997 MC ₄	1997 06 29.32189	18 49 09.94	-26 05 53.7		704	1997 MR ₄	1997 06 29.26142	18 38 54.01	-25 41 42.7	19.3	704
1997 MC ₄	1997 07 03.35673	18 44 45.20	-25 55 12.6	17.7	704	1997 MR ₄	1997 06 29.28498	18 38 52.61	-25 41 40.4	19.2	704
1997 MC ₄	1997 07 03.35866	18 44 45.08	-25 55 12.1	17.8	704	1997 MR ₄	1997 06 29.30858	18 38 51.19	-25 41 37.5	19.1	704
1997 MC ₄	1997 07 03.36012	18 44 44.89	-25 55 13.6		704	1997 MS ₄	1997 06 29.23435	18 40 14.40	-25 27 00.3	18.2	704
1997 MC ₄	1997 07 03.36206	18 44 44.89	-25 55 11.1		704	1997 MS ₄	1997 06 29.25792	18 40 13.09	-25 27 06.7	17.9	704
1997 MC ₄	1997 07 03.36364	18 44 44.69	-25 55 11.9		704	1997 MS ₄	1997 06 29.28148	18 40 11.84	-25 27 11.4		704
1997 MC ₄	1997 07 03.36557	18 44 44.48	-25 55 10.3		704	1997 MS ₄	1997 06 29.30508	18 40 10.50	-25 27 17.4	17.8	704
1997 MC ₄	1997 07 03.36704	18 44 44.35	-25 55 11.2		704	1997 MS ₄	1997 06 29.32862	18 40 09.21	-25 27 23.3	17.9	704
1997 MC ₄	1997 07 03.36909	18 44 44.30	-25 55 10.1		704	1997 MT ₄	1997 06 29.23500	18 41 25.51	-22 29 53.7	19.0	704
1997 MC ₄	1997 07 03.37055	18 44 44.07	-25 55 08.8		704	1997 MT ₄	1997 06 29.25857	18 41 24.16	-22 30 03.2	19.1	704
1997 MC ₄	1997 07 03.37248	18 44 43.97	-25 55 09.4	18.1	704	1997 MT ₄	1997 06 29.28213	18 41 22.92	-22 30 15.8	19.4	704
1997 MF ₄	1997 06 29.22840	18 46 39.16	-29 23 14.7	17.9	704	1997 MT ₄	1997 06 29.30573	18 41 21.57	-22 30 23.8	19.1	704
1997 MF ₄	1997 06 29.25196	18 46 37.62	-29 23 17.6		704	1997 MT ₄	1997 06 29.32927	18 41 20.21	-22 30 33.3	19.2	704
1997 MF ₄	1997 06 29.29911	18 46 34.56	-29 23 25.7		704	1997 MU ₄	1997 06 29.23513	18 40 20.14	-21 56 17.7	18.6	704
1997 MF ₄	1997 06 29.32267	18 46 33.00	-29 23 28.4	17.9	704	1997 MU ₄	1997 06 29.25870	18 40 18.74	-21 56 31.9		704
1997 MJ ₄	1997 06 29.25520	18 45 10.08	-20 27 04.9		704	1997 MU ₄	1997 06 29.28226	18 40 17.26	-21 56 45.1		704
1997 MJ ₄	1997 06 29.27876	18 45 08.62	-20 27 09.9		704	1997 MU ₄	1997 06 29.30586	18 40 15.79	-21 56 56.3		704
1997 MJ ₄	1997 06 29.30235	18 45 07.18	-20 27 14.2		704	1997 MU ₄	1997 06 29.32940	18 40 14.35	-21 57 09.4		704
1997 MJ ₄	1997 06 29.32590	18 45 05.79	-20 27 19.1		704	1997 MV ₄	1997 06 29.25922	18 41 28.20	-19 39 40.6		704
1997 MK ₄	1997 06 29.25909	18 42 31.97	-19 59 20.0		704	1997 MV ₄	1997 06 29.28278	18 41 26.93	-19 39 45.3		704
1997 MK ₄	1997 06 29.28265	18 42 30.38	-19 59 25.8		704	1997 MV ₄	1997 06 29.30638	18 41 25.72	-19 39 51.1		704
1997 MK ₄	1997 06 29.30625	18 42 28.79	-19 59 31.3		704	1997 MV ₄	1997 06 29.32992	18 41 24.51	-19 39 57.1		704
1997 MK ₄	1997 06 29.32979	18 42 27.15	-19 59 37.2		704	1997 MW ₄	1997 06 29.23565	18 41 11.48	-19 08 46.1	18.8	704
1997 ML ₄	1997 06 29.25857	18 42 03.64	-22 26 34.8		704	1997 MW ₄	1997 06 29.25922	18 41 09.89	-19 09 00.0		704
1997 ML ₄	1997 06 29.28213	18 42 02.23	-22 26 27.8		704	1997 MW ₄	1997 06 29.30638	18 41 06.83	-19 09 29.6		704
1997 ML ₄	1997 06 29.30573	18 42 00.65	-22 26 22.3		704	1997 MW ₄	1997 06 29.32992	18 41 05.00	-19 09 45.1		704
1997 ML ₄	1997 06 29.32927	18 41 58.98	-22 26 16.2		704	1997 MX ₄	1997 06 29.23604	18 40 57.31	-17 47 44.1	18.5	704
1997 MM ₄	1997 06 29.23500	18 42 20.03	-22 23 20.2	18.4	704	1997 MX ₄	1997 06 29.25961	18 40 55.86	-17 47 37.0		704
1997 MM ₄	1997 06 29.25857	18 42 18.61	-22 23 27.8	18.5	704	1997 MX ₄	1997 06 29.30676	18 40 52.83	-17 47 22.0	18.9	704
1997 MM ₄	1997 06 29.28213	18 42 17.18	-22 23 35.2		704	1997 MX ₄	1997 06 29.33031	18 40 51.13	-17 47 15.5		704
1997 MM ₄	1997 06 29.30573	18 42 15.77	-22 23 43.0	18.8	704	1997 MY ₄	1997 06 29.23643	18 38 39.33	-18 44 23.5	18.4	704
1997 MM ₄	1997 06 29.32927	18 42 14.32	-22 23 50.7	18.7	704	1997 MY ₄	1997 06 29.25999	18 38 37.95	-18 44 26.5		704
1997 MN ₄	1997 06 29.23203	18 43 00.09	-22 22 10.0	17.9	704	1997 MY ₄	1997 06 29.28356	18 38 36.45	-18 44 29.2	18.7	704
1997 MN ₄	1997 06 29.25558	18 42 58.61	-22 22 06.4	18.2	704	1997 MY ₄	1997 06 29.30715	18 38 35.02	-18 44 33.0	18.5	704
1997 MN ₄	1997 06 29.27915	18 42 57.16	-22 22 00.4	18.1	704	1997 MY ₄	1997 06 29.33069	18 38 33.37	-18 44 35.3		704
1997 MN ₄	1997 06 29.30274	18 42 55.65	-22 21 57.0		704	1997 MZ ₄	1997 06 29.23720	18 38 43.00	-22 23 38.5		704
1997 MN ₄	1997 06 29.32629	18 42 54.19	-22 21 52.6		704	1997 MZ ₄	1997 06 29.26077	18 38 41.51	-22 23 47.4		704
1997 MO ₄	1997 06 29.25650	18 43 01.61	-26 41 58.3		704	1997 MZ ₄	1997 06 29.28433	18 38 40.05	-22 23 55.8		704
1997 MO ₄	1997 06 29.28006	18 43 00.17	-26 42 10.7		704	1997 MZ ₄	1997 06 29.30793	18 38 38.57	-22 24 05.5		704
1997 MO ₄	1997 06 29.30366	18 42 58.72	-26 42 22.5		704	1997 MZ ₄	1997 06 29.33147	18 38 37.09	-22 24 14.3		704

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1997 MA ₅	1997 06 29.26090	18 37 26.36	-22 52 11.1		704	1997 MW ₁₀	* 1997 06 28.23535	18 45 39.90	-23 49 09.0	19.0	704
1997 MA ₅	1997 06 29.28446	18 37 24.70	-22 52 05.9		704	1997 MW ₁₀	1997 06 28.25905	18 45 38.47	-23 49 17.5		704
1997 MA ₅	1997 06 29.30806	18 37 23.27	-22 52 01.0		704	1997 MW ₁₀	1997 06 28.28254	18 45 36.97	-23 49 27.3		704
1997 MA ₅	1997 06 29.33160	18 37 21.70	-22 51 56.6		704	1997 MW ₁₀	1997 06 29.23229	18 44 41.99	-23 55 30.8	19.1	704
1997 MB ₅	1997 06 29.23992	18 36 46.31	-23 46 35.9	18.8	704	1997 MW ₁₀	1997 06 29.25585	18 44 40.50	-23 55 40.7	19.6	704
1997 MB ₅	1997 06 29.26348	18 36 45.05	-23 46 37.3	18.5	704	1997 MW ₁₀	1997 06 29.27941	18 44 39.20	-23 55 49.5	19.5	704
1997 MB ₅	1997 06 29.28706	18 36 43.79	-23 46 38.7	18.7	704	1997 MW ₁₀	1997 06 29.30300	18 44 37.70	-23 56 00.3		704
1997 MB ₅	1997 06 29.31064	18 36 42.50	-23 46 39.7	18.4	704	1997 MW ₁₀	1997 06 29.32655	18 44 36.27	-23 56 08.2	19.2	704
1997 MB ₅	1997 06 29.33419	18 36 41.06	-23 46 41.6	19.1	704	1997 MX ₁₀	* 1997 06 28.23793	18 44 10.67	-23 06 03.1	18.7	704
1997 MC ₅	1997 06 29.22542	18 53 18.19	-18 50 35.7	19.5	704	1997 MX ₁₀	1997 06 28.26163	18 44 09.17	-23 06 11.8	18.4	704
1997 MC ₅	1997 06 29.24898	18 53 16.74	-18 50 33.5	19.0	704	1997 MX ₁₀	1997 06 28.28513	18 44 07.69	-23 06 20.0	18.8	704
1997 MC ₅	1997 06 29.27254	18 53 15.28	-18 50 32.2	19.7	704	1997 MX ₁₀	1997 06 29.23216	18 43 11.19	-23 11 41.5	19.2	704
1997 MC ₅	1997 06 29.29613	18 53 13.74	-18 50 30.4	19.3	704	1997 MX ₁₀	1997 06 29.27928	18 43 08.28	-23 11 58.1	19.1	704
1997 MC ₅	1997 06 29.31969	18 53 12.37	-18 50 27.8	19.2	704	1997 MX ₁₀	1997 06 29.30287	18 43 06.87	-23 12 05.4	19.6	704
1997 MD ₅	1997 06 29.22529	18 53 19.90	-19 27 34.7	18.6	704	1997 MX ₁₀	1997 06 29.32642	18 43 05.37	-23 12 14.0	19.1	704
1997 MD ₅	1997 06 29.27241	18 53 16.77	-19 27 47.0		704	1997 MY ₁₀	* 1997 06 28.23935	18 40 06.40	-29 06 21.0	18.0	704
1997 MD ₅	1997 06 29.29600	18 53 15.19	-19 27 52.5		704	1997 MY ₁₀	1997 06 28.26305	18 40 04.89	-29 06 20.5	18.4	704
1997 MD ₅	1997 06 29.31956	18 53 13.61	-19 27 58.8	18.7	704	1997 MY ₁₀	1997 06 28.28655	18 40 03.50	-29 06 20.8	18.2	704
1997 MU ₅	1997 06 29.23643	18 38 31.01	-19 05 49.1	18.8	704	1997 MY ₁₀	1997 06 29.23358	18 39 07.12	-29 06 10.9	18.8	704
1997 MU ₅	1997 06 29.25999	18 38 29.80	-19 06 11.0	19.1	704	1997 MY ₁₀	1997 06 29.25715	18 39 05.74	-29 06 11.4		704
1997 MU ₅	1997 06 29.28356	18 38 28.54	-19 06 32.5		704	1997 MY ₁₀	1997 06 29.26219	18 39 05.40	-29 06 11.3		704
1997 MU ₅	1997 06 29.30715	18 38 27.37	-19 06 54.6		704	1997 MY ₁₀	1997 06 29.28070	18 39 04.26	-29 06 12.0	18.9	704
1997 MU ₅	1997 06 29.33069	18 38 25.96	-19 07 16.8		704	1997 MY ₁₀	1997 06 29.28576	18 39 03.96	-29 06 11.4		704
1997 MS ₁₀	* 1997 06 28.23160	18 49 26.09	-17 40 24.2	18.5	704	1997 MY ₁₀	1997 06 29.30431	18 39 02.80	-29 06 10.8	18.7	704
1997 MS ₁₀	1997 06 28.25530	18 49 24.69	-17 40 27.6		704	1997 MY ₁₀	1997 06 29.30935	18 39 02.61	-29 06 10.1		704
1997 MS ₁₀	1997 06 28.27879	18 49 23.20	-17 40 32.6	18.7	704	1997 MY ₁₀	1997 06 29.32785	18 39 01.27	-29 06 10.0	18.3	704
1997 MS ₁₀	1997 06 29.24936	18 48 25.94	-17 43 26.8		704	1997 MY ₁₀	1997 06 29.33290	18 39 00.89	-29 06 09.8		704
1997 MS ₁₀	1997 06 29.27292	18 48 24.50	-17 43 31.0		704	1997 MZ ₁₀	* 1997 06 28.23961	18 39 56.70	-27 47 37.0	18.9	704
1997 MS ₁₀	1997 06 29.29652	18 48 23.05	-17 43 35.1		704	1997 MZ ₁₀	1997 06 28.26331	18 39 55.29	-27 47 45.6	19.2	704
1997 MS ₁₀	1997 06 29.32008	18 48 21.52	-17 43 38.4		704	1997 MZ ₁₀	1997 06 28.28680	18 39 53.88	-27 47 55.1	18.6	704
1997 MT ₁₀	* 1997 06 28.23380	18 50 11.22	-27 57 10.2	19.0	704	1997 MZ ₁₀	1997 06 29.23837	18 38 58.29	-27 53 58.4	18.9	704
1997 MT ₁₀	1997 06 28.25749	18 50 09.85	-27 57 17.8	19.2	704	1997 MZ ₁₀	1997 06 29.26193	18 38 56.91	-27 54 07.2	19.3	704
1997 MT ₁₀	1997 06 28.28099	18 50 08.57	-27 57 24.3	18.6	704	1997 MZ ₁₀	1997 06 29.28550	18 38 55.41	-27 54 16.7	19.4	704
1997 MT ₁₀	1997 06 29.22801	18 49 18.46	-28 01 39.3	19.3	704	1997 MZ ₁₀	1997 06 29.30909	18 38 54.04	-27 54 26.0		704
1997 MT ₁₀	1997 06 29.25158	18 49 17.14	-28 01 45.8	19.3	704	1997 MA ₁₁	* 1997 06 28.23987	18 41 22.29	-27 05 19.8	18.8	704
1997 MT ₁₀	1997 06 29.29872	18 49 14.51	-28 01 58.9	19.3	704	1997 MA ₁₁	1997 06 28.26357	18 41 20.85	-27 05 16.1	19.2	704
1997 MT ₁₀	1997 06 29.32228	18 49 13.25	-28 02 05.5	19.3	704	1997 MA ₁₁	1997 06 28.28706	18 41 19.38	-27 05 12.7	18.6	704
1997 MU ₁₀	* 1997 06 28.23405	18 47 49.27	-29 09 19.9	19.5	704	1997 MA ₁₁	1997 06 29.23410	18 40 24.94	-27 02 45.6	19.8	704
1997 MU ₁₀	1997 06 28.25775	18 47 47.90	-29 09 19.1	19.1	704	1997 MA ₁₁	1997 06 29.25766	18 40 23.51	-27 02 42.9		704
1997 MU ₁₀	1997 06 28.28125	18 47 46.67	-29 09 18.7		704	1997 MA ₁₁	1997 06 29.28122	18 40 22.15	-27 02 40.4		704
1997 MU ₁₀	1997 06 29.22840	18 46 54.63	-29 08 23.0	19.1	704	1997 MA ₁₁	1997 06 29.30483	18 40 20.65	-27 02 35.7		704
1997 MU ₁₀	1997 06 29.25196	18 46 53.38	-29 08 22.7	19.0	704	1997 MA ₁₁	1997 06 29.32836	18 40 19.15	-27 02 31.6	19.3	704
1997 MU ₁₀	1997 06 29.27552	18 46 52.03	-29 08 20.3	19.3	704	1997 MB ₁₁	* 1997 06 28.24064	18 42 06.53	-23 01 45.7	19.2	704
1997 MU ₁₀	1997 06 29.29911	18 46 50.75	-29 08 21.1		704	1997 MB ₁₁	1997 06 28.26434	18 42 05.16	-23 01 54.5	19.4	704
1997 MU ₁₀	1997 06 29.32267	18 46 49.14	-29 08 17.4	19.4	704	1997 MB ₁₁	1997 06 28.28784	18 42 03.94	-23 02 02.6	18.8	704
1997 MV ₁₀	* 1997 06 28.23431	18 46 56.23	-28 22 14.9	18.9	704	1997 MB ₁₁	1997 06 29.23487	18 41 13.19	-23 07 41.6	19.2	704
1997 MV ₁₀	1997 06 28.25801	18 46 54.68	-28 22 18.7	18.6	704	1997 MB ₁₁	1997 06 29.25844	18 41 11.81	-23 07 49.6		704
1997 MV ₁₀	1997 06 28.28150	18 46 53.19	-28 22 22.6		704	1997 MB ₁₁	1997 06 29.30560	18 41 09.11	-23 08 08.0	19.3	704
1997 MV ₁₀	1997 06 29.22853	18 45 56.26	-28 24 44.2	18.5	704	1997 MB ₁₁	1997 06 29.32914	18 41 07.76	-23 08 16.5	19.6	704
1997 MV ₁₀	1997 06 29.25209	18 45 54.79	-28 24 47.7		704	1997 MC ₁₁	* 1997 06 28.24077	18 40 06.35	-22 26 37.2		704
1997 MV ₁₀	1997 06 29.27565	18 45 53.16	-28 24 50.7		704	1997 MC ₁₁	1997 06 28.26447	18 40 04.83	-22 26 47.2		704
1997 MV ₁₀	1997 06 29.32280	18 45 50.23	-28 24 57.6	18.7	704	1997 MC ₁₁	1997 06 28.28797	18 40 03.72	-22 26 55.5		704

1997 MC ₁₁	1997 06 29.23720	18 39 13.42	-22 33 03.6		704	1997 MJ ₁₁	1997 06 28.27261	18 32 54.74	-26 12 18.8	18.3	704
1997 MC ₁₁	1997 06 29.26077	18 39 12.07	-22 33 11.9		704	1997 MJ ₁₁	1997 06 28.29611	18 32 53.45	-26 12 23.8	18.5	704
1997 MC ₁₁	1997 06 29.28433	18 39 10.84	-22 33 21.6		704	1997 MJ ₁₁	1997 06 29.24316	18 32 02.73	-26 15 51.0	18.5	704
1997 MC ₁₁	1997 06 29.30793	18 39 09.50	-22 33 31.6		704	1997 MJ ₁₁	1997 06 29.26673	18 32 01.45	-26 15 56.5	18.5	704
1997 MC ₁₁	1997 06 29.33147	18 39 08.23	-22 33 40.6		704	1997 MJ ₁₁	1997 06 29.29031	18 32 00.20	-26 16 00.6		704
1997 MD ₁₁	* 1997 06 28.24180	18 42 41.79	-17 41 28.9	18.7	704	1997 MJ ₁₁	1997 06 29.31388	18 31 58.84	-26 16 06.0		704
1997 MD ₁₁	1997 06 28.26551	18 42 40.29	-17 41 20.0	18.6	704	1997 MJ ₁₁	1997 06 29.33742	18 31 57.57	-26 16 10.7	18.9	704
1997 MD ₁₁	1997 06 28.28900	18 42 38.77	-17 41 11.5	18.3	704	1997 MK ₁₁	* 1997 06 28.25905	18 45 17.52	-23 30 45.0	19.6	704
1997 MD ₁₁	1997 06 29.23604	18 41 41.85	-17 35 19.5	18.7	704	1997 MK ₁₁	1997 06 28.28254	18 45 16.08	-23 30 52.2		704
1997 MD ₁₁	1997 06 29.25961	18 41 40.39	-17 35 11.2		704	1997 MK ₁₁	1997 06 29.23229	18 44 22.16	-23 37 11.0	18.5	704
1997 MD ₁₁	1997 06 29.30676	18 41 37.33	-17 34 52.8	19.0	704	1997 MK ₁₁	1997 06 29.25585	18 44 20.71	-23 37 20.8	18.1	704
1997 MD ₁₁	1997 06 29.33031	18 41 35.92	-17 34 44.0	18.8	704	1997 MK ₁₁	1997 06 29.27941	18 44 19.31	-23 37 30.0		704
1997 ME ₁₁	* 1997 06 28.24387	18 37 41.93	-26 30 45.1		704	1997 MK ₁₁	1997 06 29.30300	18 44 17.92	-23 37 40.1	18.5	704
1997 ME ₁₁	1997 06 28.26757	18 37 40.62	-26 30 46.0		704	1997 MK ₁₁	1997 06 29.32655	18 44 16.50	-23 37 48.4	18.9	704
1997 ME ₁₁	1997 06 28.29107	18 37 39.02	-26 30 46.4		704	1997 MK ₁₁	1997 07 02.29867	18 41 25.42	-23 57 26.1		704
1997 ME ₁₁	1997 06 29.23811	18 36 44.25	-26 31 08.8		704	1997 MK ₁₁	1997 07 02.32195	18 41 23.98	-23 57 33.8		704
1997 ME ₁₁	1997 06 29.23928	18 36 44.21	-26 31 09.6		704	1997 MK ₁₁	1997 07 02.34526	18 41 22.49	-23 57 43.0		704
1997 ME ₁₁	1997 06 29.26167	18 36 42.85	-26 31 09.8		704	1997 MK ₁₁	1997 07 02.36854	18 41 21.18	-23 57 50.8		704
1997 ME ₁₁	1997 06 29.26284	18 36 42.74	-26 31 10.3		704	1997 ML ₁₁	* 1997 06 29.22464	18 50 51.98	-22 27 41.5	18.7	704
1997 ME ₁₁	1997 06 29.28524	18 36 41.41	-26 31 10.0		704	1997 ML ₁₁	1997 06 29.24820	18 50 50.78	-22 27 44.1		704
1997 ME ₁₁	1997 06 29.28642	18 36 41.33	-26 31 11.4		704	1997 ML ₁₁	1997 06 29.27176	18 50 49.62	-22 27 45.4		704
1997 ME ₁₁	1997 06 29.30883	18 36 39.84	-26 31 09.9		704	1997 ML ₁₁	1997 06 29.29535	18 50 48.32	-22 27 47.4		704
1997 ME ₁₁	1997 06 29.31000	18 36 39.80	-26 31 10.8		704	1997 ML ₁₁	1997 06 29.31892	18 50 47.17	-22 27 49.4		704
1997 ME ₁₁	1997 06 29.33237	18 36 38.39	-26 31 10.9		704	1997 ML ₁₁	1997 07 02.26741	18 48 21.48	-22 32 17.6	18.5	704
1997 ME ₁₁	1997 06 29.33354	18 36 38.38	-26 31 12.8		704	1997 ML ₁₁	1997 07 02.29077	18 48 20.30	-22 32 19.2	18.9	704
1997 ME ₁₁	1997 07 02.28382	18 33 47.18	-26 31 54.8		704	1997 ML ₁₁	1997 07 02.31406	18 48 19.00	-22 32 21.9		704
1997 ME ₁₁	1997 07 02.30719	18 33 45.68	-26 31 55.1		704	1997 ML ₁₁	1997 07 02.33736	18 48 18.00	-22 32 24.0		704
1997 ME ₁₁	1997 07 02.33049	18 33 44.25	-26 31 55.5		704	1997 ML ₁₁	1997 07 02.36065	18 48 16.69	-22 32 24.2		704
1997 ME ₁₁	1997 07 02.35378	18 33 42.81	-26 31 55.6		704	1997 MM ₁₁	* 1997 06 29.22490	18 50 42.97	-21 03 14.8	19.1	704
1997 ME ₁₁	1997 07 02.37709	18 33 41.39	-26 31 54.7		704	1997 MM ₁₁	1997 06 29.27202	18 50 40.18	-21 03 21.3		704
1997 MF ₁₁	* 1997 06 28.24438	18 36 46.58	-29 21 09.3	18.6	704	1997 MM ₁₁	1997 06 29.29561	18 50 38.80	-21 03 24.4		704
1997 MF ₁₁	1997 06 28.26809	18 36 45.10	-29 21 11.8		704	1997 MM ₁₁	1997 06 29.31917	18 50 37.18	-21 03 28.6	19.6	704
1997 MF ₁₁	1997 06 28.29158	18 36 43.63	-29 21 13.7		704	1997 MM ₁₁	1997 07 02.27064	18 47 48.89	-21 10 56.8	19.3	704
1997 MF ₁₁	1997 06 29.23876	18 35 47.22	-29 22 42.6	18.9	704	1997 MM ₁₁	1997 07 02.29400	18 47 47.51	-21 11 01.1	19.5	704
1997 MF ₁₁	1997 06 29.26232	18 35 45.78	-29 22 44.9		704	1997 MM ₁₁	1997 07 02.34060	18 47 44.62	-21 11 08.0	19.1	704
1997 MF ₁₁	1997 06 29.28589	18 35 44.30	-29 22 47.2		704	1997 MM ₁₁	1997 07 02.36388	18 47 43.21	-21 11 11.6		704
1997 MF ₁₁	1997 06 29.30948	18 35 42.84	-29 22 49.8		704	1997 MN ₁₁	* 1997 06 29.22529	18 52 12.31	-19 43 40.0	18.4	704
1997 MG ₁₁	* 1997 06 28.24464	18 34 59.33	-28 46 16.2	17.9	704	1997 MN ₁₁	1997 06 29.24884	18 52 10.90	-19 43 43.0	18.7	704
1997 MG ₁₁	1997 06 28.26835	18 34 57.75	-28 46 21.6		704	1997 MN ₁₁	1997 06 29.29600	18 52 08.17	-19 43 47.7		704
1997 MG ₁₁	1997 06 28.29184	18 34 56.10	-28 46 28.5	18.2	704	1997 MN ₁₁	1997 06 29.31956	18 52 06.76	-19 43 50.8	18.8	704
1997 MG ₁₁	1997 06 29.23889	18 33 54.16	-28 50 29.3	18.0	704	1997 MN ₁₁	1997 07 02.26689	18 49 17.27	-19 49 04.0	18.4	704
1997 MG ₁₁	1997 06 29.26245	18 33 52.55	-28 50 35.3		704	1997 MN ₁₁	1997 07 02.29026	18 49 15.90	-19 49 06.3	18.4	704
1997 MG ₁₁	1997 06 29.30961	18 33 49.29	-28 50 47.2	18.3	704	1997 MN ₁₁	1997 07 02.31354	18 49 14.47	-19 49 08.7	18.4	704
1997 MG ₁₁	1997 06 29.33316	18 33 47.58	-28 50 52.7		704	1997 MN ₁₁	1997 07 02.33685	18 49 13.07	-19 49 11.5		704
1997 MH ₁₁	* 1997 06 28.24529	18 34 21.02	-25 33 35.5	18.4	704	1997 MN ₁₁	1997 07 02.36013	18 49 11.62	-19 49 15.4		704
1997 MH ₁₁	1997 06 28.26899	18 34 19.70	-25 33 41.3	18.9	704	1997 MO ₁₁	* 1997 06 29.22568	18 52 31.26	-17 42 56.6	18.1	704
1997 MH ₁₁	1997 06 28.29249	18 34 18.36	-25 33 47.6	18.4	704	1997 MO ₁₁	1997 06 29.24924	18 52 29.85	-17 42 54.9	18.3	704
1997 MH ₁₁	1997 06 29.24303	18 33 26.00	-25 37 53.8	18.6	704	1997 MO ₁₁	1997 06 29.27279	18 52 28.42	-17 42 52.2	18.5	704
1997 MH ₁₁	1997 06 29.29018	18 33 23.35	-25 38 06.1	19.0	704	1997 MO ₁₁	1997 06 29.29639	18 52 27.03	-17 42 50.8	18.4	704
1997 MH ₁₁	1997 06 29.31375	18 33 21.94	-25 38 11.7	18.6	704	1997 MO ₁₁	1997 06 29.31995	18 52 25.58	-17 42 48.1	18.3	704
1997 MH ₁₁	1997 06 29.33729	18 33 20.60	-25 38 17.7	19.0	704	1997 MO ₁₁	1997 07 02.26637	18 49 36.21	-17 38 20.1		704
1997 MJ ₁₁	* 1997 06 28.24891	18 32 56.12	-26 12 13.7	18.3	704	1997 MO ₁₁	1997 07 02.28974	18 49 34.78	-17 38 17.9		704

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1997 MO ₁₁	1997 07 02.31303	18 49 33.37	-17 38 16.0	704	1997 MT ₁₁	1997 06 29.27526	18 48 10.95	-28 46 11.4	19.3	704
1997 MO ₁₁	1997 07 02.33633	18 49 31.91	-17 38 13.8	704	1997 MT ₁₁	1997 06 29.29885	18 48 09.57	-28 46 11.1	19.5	704
1997 MO ₁₁	1997 07 02.35961	18 49 30.47	-17 38 12.2	704	1997 MT ₁₁	1997 06 29.32241	18 48 08.01	-28 46 13.0	19.4	704
1997 MP ₁₁	* 1997 06 29.22710	18 48 46.68	-23 42 00.4	18.9	1997 MT ₁₁	1997 07 02.26909	18 45 15.40	-28 48 23.7	18.9	704
1997 MP ₁₁	1997 06 29.25066	18 48 45.44	-23 42 03.2	18.6	1997 MT ₁₁	1997 07 02.29245	18 45 13.94	-28 48 23.4		704
1997 MP ₁₁	1997 06 29.27422	18 48 44.14	-23 42 04.7	19.3	1997 MT ₁₁	1997 07 02.31574	18 45 12.64	-28 48 25.4	19.0	704
1997 MP ₁₁	1997 06 29.29781	18 48 42.98	-23 42 08.2		1997 MT ₁₁	1997 07 02.33905	18 45 11.18	-28 48 25.0	19.3	704
1997 MP ₁₁	1997 06 29.32137	18 48 41.80	-23 42 11.3		1997 MU ₁₁	* 1997 06 29.22996	18 46 44.20	-21 39 07.2	19.0	704
1997 MP ₁₁	1997 07 02.27012	18 46 13.72	-23 47 33.8		1997 MU ₁₁	1997 06 29.25352	18 46 42.64	-21 39 11.8		704
1997 MP ₁₁	1997 07 02.29349	18 46 12.48	-23 47 35.9		1997 MU ₁₁	1997 06 29.27707	18 46 41.11	-21 39 17.8	19.5	704
1997 MP ₁₁	1997 07 02.31678	18 46 11.30	-23 47 39.4		1997 MU ₁₁	1997 06 29.32422	18 46 37.74	-21 39 28.2		704
1997 MP ₁₁	1997 07 02.34008	18 46 10.07	-23 47 40.7		1997 MU ₁₁	1997 07 02.27245	18 43 26.21	-21 50 12.5	19.1	704
1997 MQ ₁₁	* 1997 06 29.22723	18 48 32.98	-24 04 12.9	19.6	1997 MU ₁₁	1997 07 02.29581	18 43 24.60	-21 50 16.6	19.5	704
1997 MQ ₁₁	1997 06 29.25079	18 48 31.51	-24 04 05.7	19.6	1997 MU ₁₁	1997 07 02.31910	18 43 23.05	-21 50 22.0	19.6	704
1997 MQ ₁₁	1997 06 29.27435	18 48 30.15	-24 03 58.6	19.9	1997 MU ₁₁	1997 07 02.36570	18 43 19.86	-21 50 31.5	19.2	704
1997 MQ ₁₁	1997 06 29.32150	18 48 27.21	-24 03 42.9	19.8	1997 MV ₁₁	* 1997 06 29.23008	18 45 44.94	-21 13 49.4	19.3	704
1997 MQ ₁₁	1997 07 02.27012	18 45 38.77	-23 48 41.4	19.8	1997 MV ₁₁	1997 06 29.25365	18 45 43.47	-21 13 53.6	19.3	704
1997 MQ ₁₁	1997 07 02.29349	18 45 37.44	-23 48 33.8	19.5	1997 MV ₁₁	1997 06 29.27720	18 45 42.08	-21 13 58.4		704
1997 MQ ₁₁	1997 07 02.31678	18 45 36.01	-23 48 26.4	19.7	1997 MV ₁₁	1997 06 29.32434	18 45 38.93	-21 14 05.9		704
1997 MQ ₁₁	1997 07 02.34008	18 45 34.67	-23 48 18.0	19.5	1997 MV ₁₁	1997 07 02.27581	18 42 40.85	-21 23 14.7	19.0	704
1997 MR ₁₁	* 1997 06 29.22775	18 48 48.34	-26 38 45.1	18.7	1997 MV ₁₁	1997 07 02.29919	18 42 39.38	-21 23 19.0	19.1	704
1997 MR ₁₁	1997 06 29.25132	18 48 47.17	-26 38 50.4		1997 MV ₁₁	1997 07 02.32247	18 42 37.92	-21 23 23.9	18.9	704
1997 MR ₁₁	1997 06 29.27488	18 48 45.98	-26 38 52.4		1997 MV ₁₁	1997 07 02.34578	18 42 36.46	-21 23 29.7	19.1	704
1997 MR ₁₁	1997 06 29.32202	18 48 43.53	-26 38 58.7		1997 MW ₁₁	* 1997 06 29.23151	18 45 12.32	-19 49 07.6	19.0	704
1997 MR ₁₁	1997 07 02.19339	18 46 20.89	-26 46 02.7	18.9	1997 MW ₁₁	1997 06 29.25507	18 45 10.85	-19 49 09.9	18.7	704
1997 MR ₁₁	1997 07 02.19823	18 46 20.72	-26 46 02.8	18.9	1997 MW ₁₁	1997 06 29.27863	18 45 09.32	-19 49 13.1	18.8	704
1997 MR ₁₁	1997 07 02.20307	18 46 20.48	-26 46 04.9	18.8	1997 MW ₁₁	1997 06 29.30222	18 45 07.80	-19 49 15.6	18.7	704
1997 MR ₁₁	1997 07 02.20802	18 46 20.20	-26 46 07.0	18.9	1997 MW ₁₁	1997 06 29.32577	18 45 06.32	-19 49 18.3	18.6	704
1997 MR ₁₁	1997 07 02.26120	18 46 17.43	-26 46 12.9	18.9	1997 MW ₁₁	1997 07 02.27607	18 42 06.45	-19 54 57.3	18.5	704
1997 MR ₁₁	1997 07 02.26131	18 46 17.50	-26 46 12.8	19.0	1997 MW ₁₁	1997 07 02.29944	18 42 04.99	-19 54 58.6		704
1997 MR ₁₁	1997 07 02.26948	18 46 17.01	-26 46 15.2	18.8	1997 MW ₁₁	1997 07 02.32273	18 42 03.48	-19 55 02.8	18.9	704
1997 MR ₁₁	1997 07 02.28447	18 46 16.26	-26 46 16.0	18.7	1997 MW ₁₁	1997 07 02.34604	18 42 01.96	-19 55 04.9	18.5	704
1997 MR ₁₁	1997 07 02.28459	18 46 16.31	-26 46 15.9	18.8	1997 MW ₁₁	1997 07 02.36932	18 42 00.47	-19 55 08.0	18.4	704
1997 MR ₁₁	1997 07 02.29284	18 46 15.87	-26 46 17.8	18.9	1997 MX ₁₁	* 1997 06 29.23151	18 45 20.02	-19 51 33.4	19.0	704
1997 MR ₁₁	1997 07 02.30785	18 46 15.19	-26 46 20.1	19.2	1997 MX ₁₁	1997 06 29.25507	18 45 18.50	-19 51 31.4		704
1997 MR ₁₁	1997 07 02.30797	18 46 15.12	-26 46 21.3	19.1	1997 MX ₁₁	1997 06 29.27863	18 45 16.95	-19 51 29.7	18.8	704
1997 MR ₁₁	1997 07 02.33115	18 46 13.87	-26 46 22.3	19.3	1997 MX ₁₁	1997 06 29.30222	18 45 15.50	-19 51 26.0		704
1997 MR ₁₁	1997 07 02.33127	18 46 13.94	-26 46 23.3	19.0	1997 MX ₁₁	1997 06 29.32577	18 45 13.98	-19 51 23.7		704
1997 MR ₁₁	1997 07 02.33944	18 46 13.42	-26 46 23.7	18.9	1997 MX ₁₁	1997 07 02.27607	18 42 13.59	-19 45 46.2	17.9	704
1997 MR ₁₁	1997 07 02.35444	18 46 12.67	-26 46 25.4	18.9	1997 MX ₁₁	1997 07 02.27619	18 42 13.57	-19 45 46.2	17.9	704
1997 MR ₁₁	1997 07 02.35456	18 46 12.75	-26 46 25.5	18.8	1997 MX ₁₁	1997 07 02.29944	18 42 12.07	-19 45 43.6	17.9	704
1997 MR ₁₁	1997 07 02.36271	18 46 12.12	-26 46 27.2	19.1	1997 MX ₁₁	1997 07 02.29957	18 42 12.06	-19 45 43.4	17.9	704
1997 MS ₁₁	* 1997 06 29.22788	18 49 32.64	-27 18 32.2	19.3	1997 MX ₁₁	1997 07 02.32273	18 42 10.56	-19 45 41.0	17.9	704
1997 MS ₁₁	1997 06 29.25145	18 49 31.10	-27 18 37.0		1997 MX ₁₁	1997 07 02.32285	18 42 10.51	-19 45 40.8	18.1	704
1997 MS ₁₁	1997 06 29.27501	18 49 29.52	-27 18 40.4	18.8	1997 MX ₁₁	1997 07 02.34604	18 42 09.07	-19 45 38.3	17.9	704
1997 MS ₁₁	1997 06 29.29859	18 49 27.90	-27 18 44.3	18.8	1997 MX ₁₁	1997 07 02.34617	18 42 09.05	-19 45 38.0	18.0	704
1997 MS ₁₁	1997 07 02.26935	18 46 16.87	-27 26 16.9	18.9	1997 MX ₁₁	1997 07 02.36932	18 42 07.54	-19 45 36.0		704
1997 MS ₁₁	1997 07 02.29271	18 46 15.30	-27 26 20.1	19.0	1997 MX ₁₁	1997 07 02.36945	18 42 07.52	-19 45 35.4	18.1	704
1997 MS ₁₁	1997 07 02.31600	18 46 13.74	-27 26 23.1	19.2	1997 MY ₁₁	* 1997 06 29.23332	18 42 15.90	-28 42 35.0	18.3	704
1997 MS ₁₁	1997 07 02.33931	18 46 12.18	-27 26 26.4		1997 MY ₁₁	1997 06 29.25689	18 42 14.75	-28 42 40.2		704
1997 MS ₁₁	1997 07 02.36258	18 46 10.39	-27 26 30.3		1997 MY ₁₁	1997 06 29.30405	18 42 11.98	-28 42 52.3	18.7	704
1997 MT ₁₁	* 1997 06 29.22814	18 48 13.82	-28 46 07.6	19.1	1997 MY ₁₁	1997 06 29.32759	18 42 10.60	-28 42 57.2	18.6	704

1997 MY ₁₁	1997 07 02.27426	18 39 30.19	-28 54 28.6	17.9	704	1997 ME ₁₂	1997 06 29.26400	18 35 35.71	-21 33 19.8	18.3	704
1997 MY ₁₁	1997 07 02.29763	18 39 28.84	-28 54 33.9		704	1997 ME ₁₂	1997 06 29.28758	18 35 34.14	-21 33 17.8		704
1997 MY ₁₁	1997 07 02.32092	18 39 27.55	-28 54 39.0	18.3	704	1997 ME ₁₂	1997 06 29.31116	18 35 32.54	-21 33 15.0		704
1997 MY ₁₁	1997 07 02.34422	18 39 26.23	-28 54 44.4		704	1997 ME ₁₂	1997 07 02.28265	18 32 27.94	-21 29 12.0		704
1997 MY ₁₁	1997 07 02.36751	18 39 24.99	-28 54 48.6	17.9	704	1997 ME ₁₂	1997 07 02.30603	18 32 26.47	-21 29 11.0		704
1997 MZ ₁₁	* 1997 06 29.23397	18 41 37.24	-27 40 19.3		704	1997 ME ₁₂	1997 07 02.32933	18 32 24.94	-21 29 07.5		704
1997 MZ ₁₁	1997 06 29.25753	18 41 35.85	-27 40 23.8		704	1997 ME ₁₂	1997 07 02.35262	18 32 23.39	-21 29 05.6		704
1997 MZ ₁₁	1997 06 29.28109	18 41 34.46	-27 40 30.0		704	1997 ME ₁₂	1997 07 02.37593	18 32 21.93	-21 29 02.6		704
1997 MZ ₁₁	1997 06 29.30470	18 41 32.96	-27 40 34.0		704	1997 MF ₁₂	* 1997 06 29.24070	18 36 11.75	-20 01 45.1	17.9	704
1997 MZ ₁₁	1997 06 29.32824	18 41 31.67	-27 40 37.4		704	1997 MF ₁₂	1997 06 29.26426	18 36 10.19	-20 01 46.3		704
1997 MZ ₁₁	1997 07 02.27890	18 38 39.39	-27 49 35.1		704	1997 MF ₁₂	1997 06 29.28784	18 36 08.70	-20 01 47.6	17.9	704
1997 MZ ₁₁	1997 07 02.30228	18 38 38.01	-27 49 38.9		704	1997 MF ₁₂	1997 06 29.31142	18 36 07.23	-20 01 48.3		704
1997 MZ ₁₁	1997 07 02.32557	18 38 36.60	-27 49 43.4		704	1997 MF ₁₂	1997 06 29.33496	18 36 05.67	-20 01 50.1		704
1997 MZ ₁₁	1997 07 02.34888	18 38 35.17	-27 49 47.6		704	1997 MF ₁₂	1997 07 02.28239	18 33 04.75	-20 04 27.1		704
1997 MZ ₁₁	1997 07 02.37217	18 38 33.64	-27 49 51.8		704	1997 MF ₁₂	1997 07 02.30577	18 33 03.24	-20 04 27.3		704
1997 MA ₁₂	* 1997 06 29.23423	18 41 26.55	-26 18 36.2	18.8	704	1997 MF ₁₂	1997 07 02.32907	18 33 01.67	-20 04 28.5		704
1997 MA ₁₂	1997 06 29.25779	18 41 25.24	-26 18 33.5	19.3	704	1997 MF ₁₂	1997 07 02.35236	18 33 00.18	-20 04 30.4		704
1997 MA ₁₂	1997 06 29.28135	18 41 23.90	-26 18 31.0		704	1997 MG ₁₂	* 1997 06 29.24096	18 36 50.85	-18 58 42.5	19.3	704
1997 MA ₁₂	1997 06 29.30495	18 41 22.39	-26 18 26.4	19.3	704	1997 MG ₁₂	1997 06 29.26452	18 36 49.58	-18 58 36.9	19.1	704
1997 MA ₁₂	1997 06 29.32849	18 41 21.09	-26 18 23.8	19.2	704	1997 MG ₁₂	1997 06 29.28810	18 36 48.31	-18 58 30.5	18.8	704
1997 MA ₁₂	1997 07 02.30190	18 38 34.43	-26 10 41.4		704	1997 MG ₁₂	1997 06 29.31167	18 36 46.91	-18 58 23.6	19.2	704
1997 MA ₁₂	1997 07 02.32518	18 38 33.09	-26 10 38.6		704	1997 MG ₁₂	1997 07 02.28214	18 34 06.29	-18 45 08.2	19.2	704
1997 MA ₁₂	1997 07 02.34849	18 38 31.75	-26 10 35.0		704	1997 MG ₁₂	1997 07 02.30551	18 34 04.89	-18 45 02.1	19.5	704
1997 MA ₁₂	1997 07 02.37178	18 38 30.22	-26 10 31.0		704	1997 MG ₁₂	1997 07 02.32881	18 34 03.62	-18 44 55.7	19.5	704
1997 MB ₁₂	* 1997 06 29.23500	18 40 34.21	-22 24 37.5		704	1997 MG ₁₂	1997 07 02.35211	18 34 02.29	-18 44 49.2	19.4	704
1997 MB ₁₂	1997 06 29.25857	18 40 32.76	-22 24 46.0		704	1997 MH ₁₂	* 1997 06 29.24898	18 51 03.88	-18 41 26.5		704
1997 MB ₁₂	1997 06 29.28213	18 40 31.33	-22 24 54.7		704	1997 MH ₁₂	1997 06 29.27254	18 51 02.68	-18 41 28.5		704
1997 MB ₁₂	1997 06 29.30573	18 40 29.87	-22 25 03.3		704	1997 MH ₁₂	1997 06 29.29613	18 51 01.56	-18 41 30.7		704
1997 MB ₁₂	1997 06 29.32927	18 40 28.42	-22 25 12.1		704	1997 MH ₁₂	1997 06 29.31969	18 51 00.21	-18 41 34.7		704
1997 MB ₁₂	1997 07 02.27774	18 37 32.00	-22 43 18.0		704	1997 MH ₁₂	1997 07 02.26663	18 48 33.27	-18 49 04.6	18.7	704
1997 MB ₁₂	1997 07 02.30112	18 37 30.58	-22 43 25.4		704	1997 MH ₁₂	1997 07 02.29000	18 48 32.05	-18 49 08.3	19.2	704
1997 MB ₁₂	1997 07 02.32441	18 37 29.10	-22 43 34.9		704	1997 MH ₁₂	1997 07 02.31329	18 48 30.84	-18 49 12.2	18.5	704
1997 MB ₁₂	1997 07 02.34772	18 37 27.64	-22 43 43.4		704	1997 MH ₁₂	1997 07 02.33659	18 48 29.64	-18 49 15.1	18.6	704
1997 MB ₁₂	1997 07 02.37100	18 37 26.19	-22 43 50.8		704	1997 MH ₁₂	1997 07 02.35987	18 48 28.37	-18 49 18.7	19.2	704
1997 MC ₁₂	* 1997 06 29.23526	18 42 25.48	-21 26 50.4	18.9	704	1997 MJ ₁₂	* 1997 06 29.24924	18 50 51.80	-17 29 03.4		704
1997 MC ₁₂	1997 06 29.25883	18 42 24.18	-21 26 47.5	19.3	704	1997 MJ ₁₂	1997 06 29.27279	18 50 50.30	-17 29 08.7		704
1997 MC ₁₂	1997 06 29.30599	18 42 21.68	-21 26 42.5	19.2	704	1997 MJ ₁₂	1997 06 29.29639	18 50 48.95	-17 29 14.9		704
1997 MC ₁₂	1997 06 29.32953	18 42 20.37	-21 26 40.0	19.0	704	1997 MJ ₁₂	1997 06 29.31995	18 50 47.51	-17 29 19.3		704
1997 MC ₁₂	1997 07 02.27748	18 39 44.87	-21 20 42.3	18.7	704	1997 MJ ₁₂	1997 07 02.27142	18 47 54.72	-17 42 21.5	19.4	704
1997 MC ₁₂	1997 07 02.30086	18 39 43.57	-21 20 39.7	19.0	704	1997 MJ ₁₂	1997 07 02.29478	18 47 53.36	-17 42 28.0	19.4	704
1997 MC ₁₂	1997 07 02.32415	18 39 42.32	-21 20 37.2		704	1997 MJ ₁₂	1997 07 02.34138	18 47 50.40	-17 42 41.0	19.7	704
1997 MC ₁₂	1997 07 02.34746	18 39 41.03	-21 20 34.8	18.6	704	1997 MJ ₁₂	1997 07 02.36466	18 47 48.98	-17 42 47.6	19.3	704
1997 MD ₁₂	* 1997 06 29.23720	18 37 24.40	-22 18 49.4	18.4	704	1997 NN ₁₁	* 1997 07 02.38531	00 43 16.33	+00 11 40.6	19.3	704
1997 MD ₁₂	1997 06 29.26077	18 37 22.77	-22 18 55.4		704	1997 NN ₁₁	1997 07 02.38891	00 43 16.63	+00 11 44.0		704
1997 MD ₁₂	1997 06 29.28433	18 37 21.19	-22 19 02.5		704	1997 NN ₁₁	1997 07 02.39304	00 43 16.68	+00 11 44.8		704
1997 MD ₁₂	1997 06 29.30793	18 37 19.57	-22 19 08.9	18.7	704	1997 NN ₁₁	1997 07 02.39364	00 43 16.73	+00 11 43.4	19.6	704
1997 MD ₁₂	1997 06 29.33147	18 37 17.77	-22 19 15.7		704	1997 NN ₁₁	1997 07 02.39717	00 43 17.06	+00 11 43.5		704
1997 MD ₁₂	1997 07 02.28291	18 34 03.51	-22 33 03.7	19.0	704	1997 NN ₁₁	1997 07 02.39777	00 43 16.94	+00 11 44.9	19.5	704
1997 MD ₁₂	1997 07 02.30629	18 34 01.82	-22 33 10.8	19.2	704	1997 NN ₁₁	1997 07 02.40141	00 43 17.25	+00 11 43.7		704
1997 MD ₁₂	1997 07 02.32959	18 34 00.29	-22 33 17.2	19.5	704	1997 NN ₁₁	1997 07 02.40191	00 43 17.29	+00 11 44.1	19.2	704
1997 MD ₁₂	1997 07 02.35288	18 33 58.54	-22 33 24.3	18.9	704	1997 QW	1997 04 16.36305	17 02 48.07	-13 41 34.3		704
1997 ME ₁₂	* 1997 06 29.24044	18 35 37.20	-21 33 21.3	18.0	704	1997 QW	1997 04 16.44638	17 02 48.10	-13 41 12.7		704

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4084 P-L	1997 06 29.23047	18 47 58.55	-19 18 20.4	18.6	704	(2497)	1997 06 29.32785	18 41 00.21	-28 58 40.8	704
4084 P-L	1997 06 29.25403	18 47 57.23	-19 18 21.4	18.2	704	(2634)	1997 06 29.22555	18 51 57.85	-17 58 34.7	704
4084 P-L	1997 06 29.27759	18 47 55.96	-19 18 21.0	18.5	704	(2634)	1997 06 29.24911	18 51 56.68	-17 58 37.1	704
4084 P-L	1997 06 29.30118	18 47 54.67	-19 18 21.9	18.3	704	(2634)	1997 06 29.27266	18 51 55.66	-17 58 39.4	704
4084 P-L	1997 06 29.32473	18 47 53.36	-19 18 21.7	18.4	704	(2634)	1997 06 29.29626	18 51 54.60	-17 58 41.9	704
(62)	1997 06 29.22490	18 51 40.61	-21 32 19.5		704	(2634)	1997 06 29.31982	18 51 53.56	-17 58 45.2	704
(62)	1997 06 29.24846	18 51 39.45	-21 32 21.3		704	(3003)	1997 06 29.22996	18 46 35.22	-21 36 39.1	19.0 704
(62)	1997 06 29.27202	18 51 38.32	-21 32 23.7		704	(3003)	1997 06 29.25352	18 46 34.14	-21 36 46.0	704
(62)	1997 06 29.29561	18 51 36.77	-21 32 26.5		704	(3003)	1997 06 29.27707	18 46 32.80	-21 36 53.0	704
(62)	1997 06 29.31917	18 51 35.98	-21 32 31.2		704	(3003)	1997 06 29.30066	18 46 31.56	-21 36 57.9	704
(764)	1997 06 29.23073	18 46 47.36	-17 57 31.1		704	(3003)	1997 06 29.32422	18 46 30.25	-21 37 00.5	704
(764)	1997 06 29.25429	18 46 46.21	-17 57 27.4		704	(3082)	1997 06 29.23617	18 38 29.29	-17 18 14.0	19.2 704
(764)	1997 06 29.27786	18 46 44.94	-17 57 27.8		704	(3082)	1997 06 29.25974	18 38 27.87	-17 18 24.2	18.9 704
(764)	1997 06 29.30144	18 46 43.81	-17 57 24.9		704	(3082)	1997 06 29.28330	18 38 26.47	-17 18 29.2	19.3 704
(764)	1997 06 29.32499	18 46 42.63	-17 57 21.6		704	(3082)	1997 06 29.30689	18 38 25.09	-17 18 37.6	704
(792)	1997 06 29.23552	18 40 48.44	-20 03 28.4		704	(3082)	1997 06 29.33044	18 38 23.62	-17 18 44.9	704
(792)	1997 06 29.25909	18 40 47.07	-20 03 26.5		704	(3187)	1997 06 29.24316	18 32 49.34	-26 00 05.8	704
(792)	1997 06 29.28265	18 40 45.60	-20 03 24.2		704	(3187)	1997 06 29.26673	18 32 47.69	-26 00 05.4	704
(792)	1997 06 29.30625	18 40 44.17	-20 03 22.5		704	(3187)	1997 06 29.29031	18 32 46.03	-26 00 05.2	704
(792)	1997 06 29.32979	18 40 42.63	-20 03 20.1		704	(3187)	1997 06 29.31388	18 32 44.36	-26 00 05.3	704
(971)	1997 06 29.22814	18 48 36.99	-28 41 10.6		704	(3187)	1997 06 29.33742	18 32 42.69	-26 00 04.5	704
(971)	1997 06 29.25171	18 48 35.48	-28 41 17.9		704	(3335)	1997 06 29.23203	18 44 47.12	-22 46 10.4	704
(971)	1997 06 29.27526	18 48 33.99	-28 41 23.4		704	(3335)	1997 06 29.25558	18 44 45.59	-22 46 06.6	704
(971)	1997 06 29.29885	18 48 32.60	-28 41 30.9		704	(3335)	1997 06 29.27915	18 44 44.10	-22 46 02.6	704
(971)	1997 06 29.32241	18 48 31.27	-28 41 37.8		704	(3335)	1997 06 29.30274	18 44 42.71	-22 45 59.6	704
(1389)	1997 06 29.23552	18 42 30.41	-20 02 27.4		704	(3335)	1997 06 29.32629	18 44 41.01	-22 45 55.8	704
(1389)	1997 06 29.25909	18 42 29.11	-20 02 29.1		704	(3962)	1997 06 29.23254	18 44 09.77	-25 11 36.8	17.8 704
(1389)	1997 06 29.28265	18 42 27.81	-20 02 30.3		704	(3962)	1997 06 29.25611	18 44 08.57	-25 11 38.8	17.9 704
(1389)	1997 06 29.30625	18 42 26.55	-20 02 32.5		704	(3962)	1997 06 29.27967	18 44 07.36	-25 11 40.4	17.8 704
(1389)	1997 06 29.32979	18 42 25.26	-20 02 33.4		704	(3962)	1997 06 29.30326	18 44 06.15	-25 11 42.5	18.2 704
(1394)	1997 06 29.24148	18 33 45.20	-18 24 55.8		704	(3962)	1997 06 29.32681	18 44 04.95	-25 11 43.8	18.1 704
(1394)	1997 06 29.26504	18 33 43.78	-18 24 57.4		704	(3967)	1997 06 29.23190	18 44 24.25	-21 56 20.3	18.4 704
(1394)	1997 06 29.28862	18 33 42.30	-18 24 58.5		704	(3967)	1997 06 29.25546	18 44 22.96	-21 56 27.4	18.0 704
(1394)	1997 06 29.31219	18 33 40.79	-18 25 01.6		704	(3967)	1997 06 29.27902	18 44 21.84	-21 56 33.8	704
(1394)	1997 06 29.33574	18 33 39.45	-18 25 01.5		704	(3967)	1997 06 29.30261	18 44 20.63	-21 56 40.4	704
(1825)	1997 06 29.23979	18 34 39.03	-24 25 28.2	17.9	704	(3967)	1997 06 29.32616	18 44 19.44	-21 56 47.0	704
(1825)	1997 06 29.26336	18 34 37.61	-24 25 27.0		704	(4643)	1997 06 29.24018	18 34 41.03	-22 35 46.6	17.8 704
(1825)	1997 06 29.28693	18 34 36.14	-24 25 27.7		704	(4643)	1997 06 29.24238	18 34 40.92	-22 35 47.2	17.5 704
(1825)	1997 06 29.31051	18 34 34.74	-24 25 25.8		704	(4643)	1997 06 29.26374	18 34 39.75	-22 35 51.4	17.6 704
(1825)	1997 06 29.33406	18 34 33.20	-24 25 27.9		704	(4643)	1997 06 29.26595	18 34 39.59	-22 35 52.0	17.7 704
(1837)	1997 06 29.23474	18 40 56.55	-23 28 31.9		704	(4643)	1997 06 29.28732	18 34 38.31	-22 35 55.3	704
(1837)	1997 06 29.25831	18 40 54.97	-23 28 29.5		704	(4643)	1997 06 29.28953	18 34 38.18	-22 35 55.4	704
(1837)	1997 06 29.28187	18 40 53.27	-23 28 27.6		704	(4643)	1997 06 29.31090	18 34 36.93	-22 35 57.0	704
(1837)	1997 06 29.30547	18 40 51.49	-23 28 25.8		704	(4643)	1997 06 29.31310	18 34 36.79	-22 35 57.7	704
(1837)	1997 06 29.32901	18 40 49.87	-23 28 21.7		704	(4643)	1997 06 29.33665	18 34 35.43	-22 36 02.0	704
(2418)	1997 06 29.23967	18 36 04.22	-24 53 45.8	18.8	704	(4965)	1997 06 29.23720	18 38 04.33	-22 38 18.3	18.3 704
(2418)	1997 06 29.26323	18 36 03.00	-24 53 47.1	18.5	704	(4965)	1997 06 29.26077	18 38 02.97	-22 38 18.5	704
(2418)	1997 06 29.28680	18 36 01.78	-24 53 48.0	18.7	704	(4965)	1997 06 29.28433	18 38 01.71	-22 38 19.5	18.6 704
(2418)	1997 06 29.31038	18 36 00.54	-24 53 49.3	19.1	704	(4965)	1997 06 29.30793	18 38 00.43	-22 38 20.2	704
(2497)	1997 06 29.23358	18 41 05.95	-28 58 55.8	18.7	704	(4965)	1997 06 29.33147	18 37 59.02	-22 38 20.7	704
(2497)	1997 06 29.25715	18 41 04.52	-28 58 54.6		704	(5180)	1997 06 29.22904	18 47 32.44	-26 22 34.6	18.4 704
(2497)	1997 06 29.30431	18 41 01.60	-28 58 46.2		704	(5180)	1997 06 29.25261	18 47 30.83	-26 22 40.8	18.5 704

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(5180)	1997 06 29.27617	18 47 29.26	-26 22 46.6	704	1997 GZ ₂₅	1997 08 16.14340	15 21 45.11	-13 09 01.6	18.7 V	709
(5180)	1997 06 29.29976	18 47 27.73	-26 22 51.6	704	1997 GZ ₂₅	1997 08 16.15385	15 21 45.98	-13 09 06.0	18.5 V	709
(5180)	1997 06 29.32331	18 47 26.13	-26 22 57.2	704	1997 GZ ₂₅	1997 08 16.15885	15 21 46.27	-13 09 08.6	18.7 V	709
(5231)	1997 06 29.23798	18 39 16.53	-25 58 05.2	704	1997 GZ ₂₅	1997 08 16.16273	15 21 46.62	-13 09 11.3	18.2 V	F 709
(5231)	1997 06 29.26155	18 39 15.09	-25 58 13.6	704	1997 GZ ₂₅	1997 08 28.17443	15 38 36.95	-14 38 41.7	19.3 V	709
(5231)	1997 06 29.28511	18 39 13.57	-25 58 21.0	704	1997 GZ ₂₅	1997 08 28.17779	15 38 37.32	-14 38 43.0	19.6 V	F 709
(5231)	1997 06 29.30871	18 39 12.07	-25 58 29.9	704	1997 GZ ₂₅	1997 08 28.18110	15 38 37.56	-14 38 45.4	19.6 V	I 709
(5231)	1997 06 29.33224	18 39 10.49	-25 58 39.0	704	1997 GZ ₂₅	1997 08 28.18477	15 38 37.91	-14 38 46.6	19.6 V	709
(5340)	1997 06 29.23203	18 44 24.39	-22 27 34.7	704	1997 QX	* 1997 08 29.32381	22 34 10.14	-08 51 27.2	18.5 V	709
(5340)	1997 06 29.25558	18 44 23.09	-22 27 33.9	704	1997 QX	1997 08 29.32659	22 34 09.99	-08 51 27.7	18.4 V	709
(5340)	1997 06 29.27915	18 44 21.84	-22 27 34.5	704	1997 QX	1997 08 29.32936	22 34 09.84	-08 51 28.1	18.4 V	709
(5340)	1997 06 29.30274	18 44 20.59	-22 27 33.8	704	1997 QX	1997 08 29.33213	22 34 09.71	-08 51 28.4	18.5 V	709
(5340)	1997 06 29.32629	18 44 19.34	-22 27 33.2	704	1997 QX	1997 08 29.33492	22 34 09.56	-08 51 28.6	18.5 V	709
(5439)	1997 06 29.24290	18 32 11.12	-24 56 42.6	704	1997 QX	1997 08 29.33770	22 34 09.39	-08 51 28.9	18.4 V	709
(5439)	1997 06 29.26647	18 32 10.05	-24 56 43.4	704	1997 QX	1997 08 29.34048	22 34 09.23	-08 51 29.4	18.5 V	709
(5439)	1997 06 29.29005	18 32 08.99	-24 56 43.5	704	1997 QX	1997 08 29.34325	22 34 09.08	-08 51 29.8	18.3 V	709
(5439)	1997 06 29.31362	18 32 07.84	-24 56 43.8	704	1997 QX	1997 08 29.34603	22 34 08.95	-08 51 30.1	18.3 V	709
(5439)	1997 06 29.33716	18 32 06.62	-24 56 45.5	704	1997 QX	1997 08 29.34881	22 34 08.81	-08 51 30.4	18.3 V	709
(6140)	1997 06 29.24083	18 37 37.78	-19 44 24.8	704	1997 QX	1997 08 29.35159	22 34 08.67	-08 51 30.6	18.2 V	709
(6140)	1997 06 29.26439	18 37 36.13	-19 44 30.4	704	1997 QX	1997 08 30.37466	22 33 17.20	-08 53 31.0	18.3 V	709
(6140)	1997 06 29.28797	18 37 34.65	-19 44 36.4	704	1997 QX	1997 08 30.37906	22 33 16.96	-08 53 31.5	18.4 V	709
(6140)	1997 06 29.31154	18 37 33.18	-19 44 41.6	704	1997 QX	1997 08 30.38696	22 33 16.58	-08 53 32.5	18.4 V	709
(6140)	1997 06 29.33509	18 37 31.68	-19 44 43.8	704	1997 QX	1997 08 30.38975	22 33 16.41	-08 53 32.6	18.5 V	709
(6262)	1997 06 29.23695	18 39 49.58	-21 15 51.2	704	1997 QX	1997 08 30.39252	22 33 16.27	-08 53 33.0	18.4 V	709
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(6262)	1997 06 29.33121	18 39 44.39	-21 16 02.1	704	1997 QX	1997 08 30.40923	22 33 15.42	-08 53 35.0	18.4 V	709
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(6955)	1997 06 29.33406	18 34 37.07	-24 33 24.3	704	1997 QX	1997 08 30.45212	22 33 13.20	-08 53 39.8	18.4 V	709
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(7024)	1997 06 29.26361	18 36 26.93	-22 59 32.5	704	1997 QX	1997 08 31.22132	22 32 34.88	-08 55 09.9	18.4 V	709
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(7024)	1997 06 29.33432	18 36 23.09	-22 59 35.1	704	1997 QX	1997 08 31.23503	22 32 34.20	-08 55 11.5	18.3 V	709
(7816)	1997 06 29.22529	18 51 40.94	-19 25 48.9	704	1997 QX	1997 08 31.23957	22 32 33.96	-08 55 12.1	18.3 V	709
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					1997 QX	1997 09 03.20583	22 30 05.41	-09 00 55.3	18.8 V	709
					1997 QX	1997 09 03.21027	22 30 05.19	-09 00 56.0	19.0 V	709
					1997 QX	1997 09 03.21457	22 30 04.96	-09 00 56.5	18.7 V	709
					1997 QX	1997 09 03.22009	22 30 04.67	-09 00 57.2	18.7 V	709
					1997 QX	1997 09 03.22465	22 30 04.44	-09 00 57.6	18.7 V	709

709 W & B Observatory, Cloudcroft

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0.60-m $f/7$ Ritchey-Chrétien + CCD

USNO-SA1.0

1997 SEPT.16

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1997 QX	1997 09 05.18507	22 28 27.24	-09 04 38.4	18.5 V	709
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1997 QX	1997 09 05.19457	22 28 26.75	-09 04 39.3	18.5 V	709
1997 QX	1997 09 05.20086	22 28 26.42	-09 04 40.1	18.5 V	709
1997 QX	1997 09 05.20657	22 28 26.13	-09 04 40.7	18.6 V	709
1997 QX	1997 09 05.21242	22 28 25.83	-09 04 41.3	18.5 V	709
1997 QX	1997 09 09.31985	22 25 06.29	-09 12 00.1	18.6 V	709
1997 QX	1997 09 09.32648	22 25 05.96	-09 12 00.8	18.6 V	709
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1997 QX	1997 09 09.33454	22 25 05.57	-09 12 01.6	18.5 V	709
1997 QX	1997 09 09.33790	22 25 05.39	-09 12 01.9	18.7 V	709
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1997 QE ₁	1997 08 29.15135	15 39 17.13	-14 45 57.6	18.6 V	709
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1997 QE ₁	1997 08 29.16167	15 39 17.67	-14 46 02.5	18.9 V	709
1997 QE ₁	1997 08 29.16803	15 39 17.99	-14 46 05.1	18.9 V	709
1997 QE ₁	1997 08 31.11500	15 40 58.96	-15 00 05.2	18.3 V	709
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1997 QE ₁	1997 09 01.13205	15 41 52.91	-15 07 22.8	18.3 V	709
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1997 QK ₁	1997 09 02.15862	16 36 00.16	-15 17 59.3	18.0 V	F 709
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1997 QO ₁	1997 08 31.25553	22 32 22.69	-08 57 07.3	17.5 V	709
1997 QO ₁	1997 09 01.18096	22 30 52.79	-08 51 45.7	18.1 V	709
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1997 QO ₁	1997 09 01.19861	22 30 51.01	-08 51 39.7	18.2 V	709
1997 QO ₁	1997 09 01.20343	22 30 50.55	-08 51 38.1	18.1 V	709
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1997 QO ₁	1997 09 05.16454	22 24 28.55	-08 28 26.6	17.7 V	709
1997 QO ₁	1997 09 05.17008	22 24 28.00	-08 28 24.6	17.8 V	709
1997 QO ₁	1997 09 05.17591	22 24 27.44	-08 28 22.8	17.7 V	709
1997 QO ₁	1997 09 07.24412	22 21 12.11	-08 16 02.1	18.1 V	709
1997 QO ₁	1997 09 07.24752	22 21 11.77	-08 16 00.9	18.2 V	709
1997 QO ₁	1997 09 07.25267	22 21 11.26	-08 15 58.8	18.1 V	709
1997 QO ₁	1997 09 07.25826	22 21 10.73	-08 15 57.0	18.1 V	709
1997 QO ₁	1997 09 07.26383	22 21 10.20	-08 15 55.1	18.1 V	709
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1997 RT ₂	* 1997 09 05.14987	22 24 25.59	-08 28 43.1	18.7 V	709
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1997 RT ₂	1997 09 05.17591	22 24 24.51	-08 29 04.8	18.4 V	709
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1997 RT ₂	1997 09 07.20720	22 23 04.52	-08 56 52.6	18.6 V	709
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1997 RT ₂	1997 09 07.21676	22 23 04.13	-08 57 00.7	18.7 V	709
1997 RT ₂	1997 09 07.22372	22 23 03.84	-08 57 06.4	18.8 V	709
1997 RT ₂	1997 09 07.23049	22 23 03.57	-08 57 11.7	18.8 V	709
1997 RT ₂	1997 09 07.23455	22 23 03.40	-08 57 15.1	18.8 V	709
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(2915)	1997 08 17.13631	17 19 25.14	-40 13 35.6	17.8 V	709
(2915)	1997 08 17.14067	17 19 25.26	-40 13 33.4	17.8 V	709

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(3894)	1997 08 04.34462	22 32 20.60	-01 56 03.4	710	(5968)	1997 08 03.29201	22 13 56.20	+21 43 46.6	710
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(4418)	1997 08 04.34705	22 17 26.20	+08 55 04.8	710	(6857)	1997 08 04.32674	22 16 59.22	-05 35 27.1	710
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(6969)	1997 08 04.40226	21 56 07.24	-10 37 43.1	710
(7029)	1997 08 03.30729	22 26 35.40	-05 25 24.9	710
(7029)	1997 08 04.33941	22 26 02.87	-05 30 53.8	710
(7029)	1997 08 04.40538	22 26 00.63	-05 31 15.8	710
(7037)	1997 08 03.30955	20 41 46.59	-09 23 16.1	710
(7037)	1997 08 03.35052	20 41 44.58	-09 23 17.1	710
(7037)	1997 08 04.34149	20 40 55.48	-09 24 08.4	710
(7037)	1997 08 04.35920	20 40 54.46	-09 24 06.8	710

711 McDonald Observatory

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Observers F. Ma, Z. Shang

Measurer Y. Sheffer

0.76-m *f*/3.0 reflector + CCD

GSC

1990 KA	1997 08 30.46584	02 46 41.44	+05 23 29.1	711
1990 KA	1997 08 31.45791	02 46 40.51	+05 19 44.4	711
1993 HO ₁	1997 08 30.33071	22 55 52.47	-14 09 32.5	711
1993 HO ₁	1997 08 30.34389	22 55 51.45	-14 09 37.3	711
1993 HO ₁	1997 08 31.33746	22 54 39.45	-14 15 45.9	711
1993 HO ₁	1997 08 31.35060	22 54 38.47	-14 15 50.9	711
1996 TL ₆₆	1997 09 01.39808	02 11 57.94	+14 52 26.1	711
1996 TL ₆₆	1997 09 01.41124	02 11 57.63	+14 52 25.7	711
1996 TL ₆₆	1997 09 02.44040	02 11 55.35	+14 52 06.7	711
1996 TL ₆₆	1997 09 02.45352	02 11 55.26	+14 52 06.6	711
1997 QK ₁	1997 08 31.12051	16 17 23.99	-15 33 59.7	t 711
1997 QK ₁	1997 08 31.13013	16 17 28.85	-15 33 54.0	t 711
1997 QK ₁	1997 09 01.09277	16 26 05.06	-15 27 14.2	711
1997 QK ₁	1997 09 01.09601	16 26 06.76	-15 27 12.7	711
1997 QK ₁	1997 09 01.09967	16 26 08.74	-15 27 10.8	711
1997 QK ₁	1997 09 02.09116	16 35 22.48	-15 18 38.8	711
1997 QK ₁	1997 09 02.09447	16 35 24.23	-15 18 36.5	711
1997 QK ₁	1997 09 02.09779	16 35 26.08	-15 18 34.8	711
1997 QP ₂	1997 09 01.18644	21 51 11.82	-04 55 10.6	711
1997 QP ₂	1997 09 01.19136	21 51 11.07	-04 55 03.1	711
1997 QP ₂	1997 09 01.19637	21 51 10.30	-04 54 55.6	711
1997 QP ₂	1997 09 01.29871	21 50 54.60	-04 52 21.7	711
1997 QP ₂	1997 09 01.30381	21 50 53.82	-04 52 14.1	711
1997 QP ₂	1997 09 01.30902	21 50 53.03	-04 52 06.2	711
1997 QP ₂	1997 09 02.18805	21 48 44.34	-04 30 08.5	711
1997 QP ₂	1997 09 02.19312	21 48 43.57	-04 30 00.7	711
1997 QP ₂	1997 09 02.19820	21 48 42.81	-04 29 50.1	711
1997 QP ₂	1997 09 02.29444	21 48 28.27	-04 27 29.6	711
1997 QP ₂	1997 09 02.29963	21 48 27.47	-04 27 21.4	711
1997 QP ₂	1997 09 02.30472	21 48 26.72	-04 27 14.3	711
1997 RA	1997 09 02.16061	21 53 03.77	-24 15 44.6	711
1997 RA	1997 09 02.17051	21 53 03.39	-24 15 44.1	711
1997 RA	1997 09 02.18017	21 53 03.05	-24 15 43.4	711
1997 RA	1997 09 02.31255	21 52 58.25	-24 15 32.8	711
1997 RA	1997 09 02.32227	21 52 57.91	-24 15 31.8	711
1997 RA	1997 09 02.33198	21 52 57.56	-24 15 31.0	711

(433)	1997 08 30.47390	05 32 04.88	+35 07 08.2	711
(433)	1997 08 31.48637	05 36 01.43	+35 11 39.8	711
(433)	1997 09 01.46545	05 39 51.39	+35 15 38.9	711
(433)	1997 09 02.47935	05 43 50.48	+35 19 21.0	711
(2201)	1997 09 01.34612	23 43 39.23	-05 29 28.7	711
(2201)	1997 09 01.35944	23 43 38.46	-05 29 33.5	711
(2201)	1997 09 02.39952	23 42 41.70	-05 35 57.3	711
(2703)	1997 08 30.47946	06 52 34.30	+25 31 47.4	711
(2703)	1997 08 31.48136	06 54 27.34	+25 31 18.5	711
(2703)	1997 09 01.47110	06 56 18.65	+25 30 46.2	711
(2703)	1997 09 02.47348	06 58 11.03	+25 30 10.6	711
(3352)	1997 08 30.18812	17 59 01.11	-23 50 37.2	711
(3352)	1997 08 30.20177	17 59 01.29	-23 50 36.8	711
(3352)	1997 08 31.19021	17 59 16.79	-23 51 41.9	711
(3352)	1997 08 31.20403	17 59 17.00	-23 51 41.6	711
(3352)	1997 09 01.13721	17 59 33.28	-23 52 42.6	711
(3352)	1997 09 01.15035	17 59 33.58	-23 52 43.8	711
(3352)	1997 09 02.10925	17 59 51.91	-23 53 44.8	711
(3352)	1997 09 02.12243	17 59 52.12	-23 53 45.3	711
(3361)	1997 08 30.38398	00 31 34.45	+06 32 23.0	711
(3361)	1997 08 30.39719	00 31 33.86	+06 32 18.6	711
(3361)	1997 08 31.39029	00 30 46.13	+06 25 36.0	711
(3361)	1997 08 31.40349	00 30 45.38	+06 25 30.2	711
(3691)	1997 09 01.42340	03 57 57.36	+38 59 35.1	711
(3691)	1997 09 01.43255	03 57 57.79	+38 59 42.7	711
(3691)	1997 09 02.46473	03 58 49.98	+39 13 09.6	711
(3840)	1997 08 31.44918	02 13 59.93	+10 42 51.3	711
(3840)	1997 09 01.38928	02 14 00.85	+10 43 16.3	711
(3840)	1997 09 02.42962	02 13 59.88	+10 43 36.0	711
(4660)	1997 08 30.21517	19 13 04.16	-22 35 09.2	711
(4660)	1997 08 30.22850	19 13 03.69	-22 35 08.5	711
(4886)	1997 08 30.10846	16 14 29.28	-23 55 46.8	711
(4886)	1997 08 30.12157	16 14 29.70	-23 55 47.7	711
(4886)	1997 09 01.11100	16 15 45.01	-23 56 17.3	711
(4886)	1997 09 01.12413	16 15 45.38	-23 56 17.5	711
(4953)	1997 08 30.40793	01 13 32.14	-33 46 29.7	711
(4953)	1997 08 30.41580	01 13 31.71	-33 46 37.2	711
(4953)	1997 08 31.41414	01 12 34.77	-34 02 09.6	711
(4953)	1997 08 31.42223	01 12 34.28	-34 02 16.9	711
(5786)	1997 08 30.43128	01 30 27.44	-04 30 00.6	711
(5786)	1997 08 30.43743	01 30 27.06	-04 30 09.0	711
(5786)	1997 09 01.37761	01 28 20.31	-05 16 16.6	711
(5786)	1997 09 01.38376	01 28 19.86	-05 16 25.7	711
(6611)	1997 08 31.36388	23 05 17.24	+08 31 47.0	711
(6611)	1997 08 31.37706	23 05 16.18	+08 31 40.1	711
(6611)	1997 09 01.31860	23 04 05.00	+08 24 41.6	711
(6611)	1997 09 01.33232	23 04 03.97	+08 24 36.2	711

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M.P.C. 30602

1997 SEPT.16

0.41-m $f/8.0$ reflector + CCD
GSC

(1094)	1997 08 15.26979	22 24 48.62	-10 11 58.4	16.2 V	712
(1094)	1997 08 15.29395	22 24 47.48	-10 12 12.1	16.0 V	712
(1094)	1997 08 15.32617	22 24 45.98	-10 12 30.6	16.0 V	712
(1094)	1997 09 06.30497	22 07 13.28	-13 44 33.8	16.0 V	712
(1094)	1997 09 06.32382	22 07 12.38	-13 44 44.2	15.9 V	712
(1094)	1997 09 11.25256	22 03 33.86	-14 28 21.4	16.0 V	712
(1094)	1997 09 11.29282	22 03 32.08	-14 28 41.9	15.8 V	712
(1386)	1997 08 15.35631	01 09 21.17	+04 13 50.6	16.1 V	712
(1386)	1997 08 15.38118	01 09 22.07	+04 13 38.2	15.8 V	712
(1386)	1997 08 15.41175	01 09 23.17	+04 13 23.0	15.5 V	712
(1386)	1997 09 11.33659	01 13 30.46	-01 16 42.0	15.8 V	712
(1386)	1997 09 11.35828	01 13 29.96	-01 17 01.7	15.6 V	712
(1583)	1997 08 15.37128	01 52 24.22	+23 05 05.0	15.8 V	712
(1583)	1997 08 15.39838	01 52 24.38	+23 05 04.7	15.8 V	712
(1583)	1997 08 15.41860	01 52 24.45	+23 05 04.4	15.7 V	712
(1583)	1997 09 06.40255	01 51 08.32	+22 36 20.3	15.4 V	712
(1583)	1997 09 06.41640	01 51 08.14	+22 36 18.2	15.4 V	712
(1583)	1997 09 11.37368	01 49 58.64	+22 22 55.5	15.3 V	712
(1583)	1997 09 11.38688	01 49 58.41	+22 22 53.5	15.3 V	712
(1959)	1997 08 15.35863	01 28 18.62	+18 37 35.6	16.4 V	712
(1959)	1997 08 15.38903	01 28 19.31	+18 37 48.1	16.3 V	712
(1959)	1997 08 15.41623	01 28 19.89	+18 38 00.1	16.1 V	712
(1959)	1997 09 11.35318	01 27 38.52	+20 33 00.8	15.4 V	712
(1959)	1997 09 11.38267	01 27 37.62	+20 33 02.9	15.7 V	712
(2100)	1997 08 15.40330	01 45 27.80	+22 31 12.6	16.1 V	712
(2100)	1997 08 15.42059	01 45 27.92	+22 30 53.8	16.1 V	712
(2100)	1997 09 11.36675	01 20 56.80	+03 23 24.0	14.2 V	712
(2100)	1997 09 11.37618	01 20 55.15	+03 22 37.3	14.2 V	712
(2100)	1997 09 11.38455	01 20 53.74	+03 21 57.3	14.3 V	712
(2693)	1997 09 06.34226	00 20 38.94	-12 37 51.4	15.8 V	712
(2693)	1997 09 06.36604	00 20 37.81	-12 37 59.3	15.8 V	712
(2693)	1997 09 11.32244	00 16 39.06	-13 05 05.8	15.8 V	712
(2693)	1997 09 11.33946	00 16 38.13	-13 05 11.4	16.0 V	712
(2966)	1997 08 15.27671	23 04 28.00	-10 21 42.8	17.2 V	712
(2966)	1997 08 15.30383	23 04 26.68	-10 21 50.5	17.4 V	712
(2966)	1997 08 15.33115	23 04 25.43	-10 21 59.4	17.3 V	712
(2966)	1997 09 06.31411	22 44 40.66	-12 15 10.7	17.2 V	712
(2966)	1997 09 06.32943	22 44 39.79	-12 15 15.0	17.3 V	712
(2966)	1997 09 11.28192	22 40 11.23	-12 36 51.1	17.3 V	712
(2966)	1997 09 11.31102	22 40 09.65	-12 36 58.8	17.2 V	712
(3619)	1997 08 15.32127	00 51 16.02	+04 35 43.9	16.3 V	712
(3619)	1997 08 15.34385	00 51 16.62	+04 35 42.5	16.7 V	712
(3619)	1997 08 15.37846	00 51 17.53	+04 35 40.2	16.5 V	712
(3619)	1997 09 06.36950	00 53 33.16	+03 12 09.4	16.2 V	712
(3619)	1997 09 06.38914	00 53 32.78	+03 12 01.7	16.3 V	712
(3619)	1997 09 11.32862	00 51 49.90	+02 38 05.5	16.3 V	712
(3619)	1997 09 11.34185	00 51 49.51	+02 37 59.7	16.2 V	712
(3750)	1997 09 06.29556	22 41 51.38	-16 34 45.1	17.4 V	712
(3750)	1997 09 06.32127	22 41 50.01	-16 34 48.0	17.4 V	712
(3750)	1997 09 11.26586	22 37 42.26	-16 42 14.1	17.4 V	712

(3750)	1997 09 11.29809	22 37 40.58	-16 42 16.8	17.3 V	b 712
(4033)	1997 08 15.28716	00 01 53.96	-07 51 54.6	18.0 V	712
(4033)	1997 08 15.30720	00 01 53.30	-07 52 00.2	18.0 V	712
(4033)	1997 08 15.33352	00 01 52.43	-07 52 06.8	18.0 V	712
(4033)	1997 09 11.28844	23 39 44.10	-10 13 14.2	17.2 V	712
(4033)	1997 09 11.31637	23 39 42.33	-10 13 23.3	17.1 V	712

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

GSC

1997 QC ₁	* 1997 08 28.17473	23 00 18.02	-05 06 14.6	17.5 V	721
1997 QC ₁	1997 08 28.21961	23 00 15.65	-05 06 35.7		721
1997 QC ₁	1997 08 31.20531	22 57 42.61	-05 30 04.5	17.5 V	721
1997 QC ₁	1997 08 31.23894	22 57 40.77	-05 30 20.1		721
1997 RP ₇	* 1997 09 11.26677	04 00 37.52	+25 01 06.9	18.4 V	721
1997 RP ₇	1997 09 11.30781	04 00 39.40	+25 01 14.0	18.1 V	721
1997 RP ₇	1997 09 12.29777	04 01 25.96	+25 03 44.0	18.4 V	721
1997 RP ₇	1997 09 12.31833	04 01 26.86	+25 03 47.9	18.1 V	721

727 Zeno Observatory, Edmond

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0.15m $f/6$ refractor + CCD

GSC

1997 RJ ₇	* 1997 09 09.22111	23 28 15.02	+01 16 51.9	17.2 R	727
1997 RJ ₇	1997 09 09.24178	23 28 13.97	+01 16 48.4	17.2 R	727
1997 RJ ₇	1997 09 11.20097	23 26 40.79	+01 11 05.9	17.6 R	727
1997 RJ ₇	1997 09 11.22154	23 26 39.80	+01 11 02.2	17.7 R	727
1997 RJ ₇	1997 09 11.24263	23 26 38.75	+01 10 58.5	17.4 R	727
1997 RJ ₇	1997 09 12.22332	23 25 51.95	+01 08 01.6	17.2 R	727
1997 RJ ₇	1997 09 12.24375	23 25 50.96	+01 07 58.4	17.5 R	727
(1224)	1997 09 11.25943	00 36 21.98	+20 40 03.3	13.4 R	727
(1224)	1997 09 11.27986	00 36 21.28	+20 40 03.6	13.4 R	727
(1224)	1997 09 11.30086	00 36 20.56	+20 40 03.9	13.4 R	727
(1224)	1997 09 12.25733	00 35 50.53	+20 40 00.2	13.4 R	727
(1264)	1997 09 05.22637	22 59 59.69	+30 43 07.9	14.0 R	727
(1264)	1997 09 05.24302	22 59 58.87	+30 43 02.0	14.0 R	727
(1264)	1997 09 09.16686	22 56 53.02	+30 16 53.5	13.8 R	727
(1264)	1997 09 09.18756	22 56 52.01	+30 16 44.6	13.8 R	727
(1264)	1997 09 09.20832	22 56 51.00	+30 16 35.6	13.8 R	727
(2829)	1997 09 11.14556	22 08 33.34	-05 10 13.1	15.0 R	727
(2829)	1997 09 11.16598	22 08 32.31	-05 10 11.9	15.3 R	727
(2829)	1997 09 11.18681	22 08 31.27	-05 10 10.9	15.5 R	727
(2829)	1997 09 12.18602	22 07 43.30	-05 09 16.7	15.0 R	727
(2829)	1997 09 12.20669	22 07 42.28	-05 09 15.6	15.2 R	727

734 Farpoint Observatory, Eskridge

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0.45 $f/4.5$ reflector + CCD

GSC

1997 SEPT.16

M.P.C. 30603

1997 RD ₁	1997 09 05.22021	21 34 26.68	-04 56 20.3	17.1 V	734
1997 RD ₁	1997 09 05.22318	21 34 26.67	-04 56 24.1	17.0 V	734
1997 RD ₁	1997 09 05.22458	21 34 26.71	-04 56 26.2	17.0 V	734
1997 RD ₁	1997 09 06.22285	21 34 45.01	-05 19 13.4	17.1 V	734
1997 RD ₁	1997 09 06.22523	21 34 45.06	-05 19 16.1	16.9 V	734
1997 RD ₁	1997 09 06.22668	21 34 45.07	-05 19 18.5	16.9 V	734

735 George Observatory, Needville

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Measurer W. G. Dillon

0.46-m reflector + CCD

GSC

1981 WC	1997 08 31.39653	02 00 52.89	-02 03 28.5	16.6 R	735
1981 WC	1997 08 31.41042	02 00 53.10	-02 03 28.6	16.6 R	735
4192 T-1	1997 08 31.20590	19 16 27.40	-27 51 56.8	17.5 R	735
4192 T-1	1997 08 31.22118	19 16 27.54	-27 51 55.1	17.6 R	735
4192 T-1	1997 09 01.20799	19 16 37.95	-27 50 07.2	18.0 R I	735
4192 T-1	1997 09 01.21910	19 16 38.01	-27 50 07.9	17.5 R I	735

748 Van Allen Observatory

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Observers B. Nellermeoe, L. Reitzler, J. Armstrong

Measurer R. DeMartino

0.178-m $f/7$ refractor + CCD

GSC

(185)	1997 07 09.15279	16 30 57.99	+09 44 34.4	12.8	748
(218)	1997 07 29.15049	17 53 12.35	-01 37 35.1	13.8	748
(218)	1997 07 30.23326	17 52 53.55	-01 46 53.3	13.6	748
(218)	1997 08 01.22255	17 52 24.05	-02 04 14.7	13.7	748
(287)	1997 07 29.15764	19 10 40.12	-14 23 00.1	11.4	748
(287)	1997 07 29.23712	19 10 36.19	-14 23 36.0	11.3	748
(287)	1997 07 30.15632	19 09 53.19	-14 30 29.8	11.4	748
(409)	1997 07 29.15281	18 19 29.69	-10 38 15.3	12.5	748
(409)	1997 07 29.23479	18 19 26.94	-10 38 15.8	12.4	748
(1165)	1997 07 30.22973	18 07 38.68	-03 41 13.9		748

751 Lake Saint Louis

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[jamesroe@primary.net]

0.20-m $f/3.37$ reflector + CCD

GSC 1.2

1981 UT ₇	1997 09 04.21543	22 36 31.64	-09 56 24.1	16.7	751
1981 UT ₇	1997 09 04.22203	22 36 31.35	-09 56 26.4	16.0	751
1981 UT ₇	1997 09 04.22848	22 36 31.07	-09 56 28.0	15.6	751
1981 UT ₇	1997 09 05.17773	22 35 50.53	-10 01 12.4	15.6	751
1981 UT ₇	1997 09 05.18403	22 35 50.27	-10 01 14.4	15.6	751
1981 UT ₇	1997 09 05.19013	22 35 49.96	-10 01 15.7	15.6	751
1995 DK ₁	1997 08 23.22934	22 01 27.92	-16 49 00.7	16.3	751
1995 DK ₁	1997 08 23.23694	22 01 27.43	-16 49 04.8	17.1	751
1995 DK ₁	1997 08 23.24375	22 01 27.23	-16 49 08.6	17.4	751

1995 DK ₁	1997 09 04.17083	21 53 20.12	-17 59 23.7	16.2	751
1995 DK ₁	1997 09 04.17822	21 53 19.80	-17 59 24.2	16.4	751
1995 DK ₁	1997 09 04.18428	21 53 19.47	-17 59 26.2	16.8	751
1995 DK ₁	1997 09 05.15123	21 52 42.44	-18 04 35.2	17.0	751
1995 DK ₁	1997 09 05.16008	21 52 42.05	-18 04 38.5	16.9	751
1995 DK ₁	1997 09 05.16678	21 52 41.82	-18 04 41.7	16.6	751
(1094)	1997 08 08.23194	22 29 46.67	-09 07 16.5	15.5	751
(1094)	1997 08 08.24186	22 29 46.25	-09 07 21.5	15.6	751
(1094)	1997 08 08.24978	22 29 45.92	-09 07 25.5	15.6	751
(1094)	1997 08 21.20648	22 20 11.54	-11 09 23.1	14.9	751
(1094)	1997 08 21.21477	22 20 11.25	-11 09 28.7	14.8	751
(1386)	1997 08 08.28669	01 03 54.00	+05 04 31.2	16.3	751
(1386)	1997 08 08.29491	01 03 54.38	+05 04 29.7	16.4	751
(1386)	1997 08 08.30286	01 03 54.75	+05 04 25.7	16.7	751
(2092)	1997 08 23.22934	22 01 24.23	-17 04 50.3	15.7	751
(2092)	1997 08 23.23694	22 01 23.83	-17 04 51.8	15.9	751
(2092)	1997 08 23.24375	22 01 23.46	-17 04 53.0	16.1	751
(2092)	1997 09 04.17083	21 51 56.88	-17 51 55.2	15.5	751
(2092)	1997 09 04.17822	21 51 56.50	-17 51 56.3	15.5	751
(2092)	1997 09 04.18428	21 51 56.07	-17 51 57.5	15.7	751
(3583)	1997 08 23.22934	21 59 54.01	-16 55 49.6	16.5	751
(3583)	1997 08 23.23694	21 59 53.90	-16 55 53.1	16.3	751
(3583)	1997 08 23.24375	21 59 53.56	-16 55 55.1	16.3	751
(3750)	1997 08 08.25993	23 04 56.00	-15 18 13.3	17.7	751
(3750)	1997 08 08.26808	23 04 55.67	-15 18 13.9	16.4	751
(3750)	1997 08 08.27597	23 04 55.33	-15 18 16.7	16.6	751

761 Zephyrhills

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0.178-m $f/9.45$ reflector + CCD

GSC

(2)	1997 07 25.19343	19 19 37.66	+19 23 46.0	9.5 R	761
(2)	1997 07 25.24110	19 19 35.32	+19 23 24.3	9.7 R	761
(14)	1997 07 25.21250	18 21 05.01	-27 50 49.3	9.9 R	761
(14)	1997 07 25.25773	18 21 02.94	-27 50 56.1	9.8 R	761
(335)	1997 08 23.19882	00 20 15.42	-01 09 32.5	12.7 V	761
(335)	1997 08 23.22347	00 20 14.75	-01 09 42.1	12.7 V	761
(335)	1997 08 24.21087	00 19 50.07	-01 16 01.8	12.7 V	761
(335)	1997 08 24.23630	00 19 49.37	-01 16 12.0	12.7 V	761

762 Four Winds Observatory, Lake Leelanau

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0.3-m $f/3.3$ reflector + CCD

GSC

(1506)	1997 08 14.13461	21 45 17.85	+12 13 48.6	14.8 V	762
(1506)	1997 08 14.14106	21 45 17.52	+12 13 47.1	14.8 V	762
(1943)	1997 08 07.15231	21 54 39.26	+17 50 38.7	16.0 V	762
(1943)	1997 08 07.15873	21 54 38.55	+17 50 36.5	16.0 V	762
(1943)	1997 08 14.14772	21 43 16.79	+16 49 30.9	15.8 V	762
(1943)	1997 08 14.15647	21 43 15.89	+16 49 24.6	15.7 V	762
(1980)	1997 08 03.21074	17 34 38.69	+46 23 44.0	14.4 V	762

(1980)	1997 08 03.21825	17 34 38.00	+46 23 52.9	14.4 V	762
(1980)	1997 08 14.19704	17 22 16.62	+49 28 37.7	14.7 V	762
(1980)	1997 08 14.21375	17 22 15.73	+49 28 51.1	14.9 V	762
(1980)	1997 08 19.14108	17 18 56.40	+50 33 45.0	15.0 V	762
(1980)	1997 08 19.14730	17 18 56.14	+50 33 49.7	14.8 V	762
(3833)	1997 08 14.16392	21 34 18.05	+07 19 46.3	14.8 V	762
(3833)	1997 08 14.17456	21 34 18.32	+07 19 32.4	14.8 V	762
(3833)	1997 08 14.18590	21 34 18.65	+07 19 18.5	15.0 V	762

784 Alfred University Observatory

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Observers D. R. DeGraff, J. S. Weaver, M. O. Weaver, A. M. Robbins

Measurers D. R. DeGraff, J. S. Weaver, A. M. Robbins

0.81-m $f/4$ reflector + CCD

GSC, USNO A-1.0

1997 QC	* 1997 08 19.20625	20 02 04.05	-13 27 05.1	18.8	784
1997 QC	1997 08 19.21233	20 02 03.91	-13 27 06.4	19.4	784
1997 QC	1997 08 19.22708	20 02 03.11	-13 27 07.9	17.2	784
1997 QC	1997 08 19.23455	20 02 02.87	-13 27 09.3	17.3	784
1997 QC	1997 08 19.23941	20 02 02.65	-13 27 09.4	17.1	784
1997 QC	1997 08 22.07205	20 00 04.90	-13 32 56.9	18.8	784
1997 QC	1997 08 22.07622	20 00 04.68	-13 32 57.9	18.8	784
1997 QC	1997 08 22.08142	20 00 04.54	-13 32 58.1	18.6	784
1997 QC	1997 08 22.09063	20 00 04.16	-13 32 59.4	18.6	784
1997 QC	1997 08 22.09687	20 00 03.88	-13 32 59.9	19.0	784
1997 QC	1997 08 22.11632	20 00 03.08	-13 33 02.1	18.6	784
1997 QC	1997 08 22.12014	20 00 02.94	-13 33 02.6	18.9	784
1997 QC	1997 08 22.12830	20 00 02.53	-13 33 03.8	18.7	784
1997 QC	1997 08 22.13576	20 00 02.28	-13 33 04.6	18.6	784
1997 QC	1997 08 22.14427	20 00 01.91	-13 33 05.8	18.6	784
1997 QC	1997 08 30.09063	19 55 37.71	-13 48 19.8	19.2	784
1997 QC	1997 08 30.10625	19 55 37.08	-13 48 21.7	19.2	784
1997 QC	1997 08 30.15608	19 55 35.83	-13 48 26.5	19.1	784
1997 QC	1997 08 30.19045	19 55 34.89	-13 48 30.4	19.1	784
1997 QC	1997 09 05.06441	19 53 29.42	-13 58 20.3	19.7	784
1997 QC	1997 09 05.07257	19 53 29.20	-13 58 22.0	19.9	784
1997 QC	1997 09 07.04549	19 53 00.74	-14 01 19.1	19.5	784
1997 QC	1997 09 07.06806	19 53 00.43	-14 01 20.9	19.6	784
1997 QC	1997 09 07.08316	19 53 00.22	-14 01 22.4	19.6	784
1997 QC	1997 09 07.10868	19 52 59.85	-14 01 24.6	19.4	784
1997 RH ₃	* 1997 09 05.11233	19 54 58.92	-15 03 03.2	18.0	784
1997 RH ₃	1997 09 05.12413	19 54 59.06	-15 03 04.4	18.6	784
1997 RH ₃	1997 09 05.15347	19 54 59.32	-15 03 07.0	18.6	784
1997 RH ₃	1997 09 05.17344	19 54 59.52	-15 03 08.5	18.2	784
1997 RH ₃	1997 09 05.18663	19 54 59.67	-15 03 09.8	18.1	784
1997 RH ₃	1997 09 07.05556	19 55 26.91	-15 05 48.5	18.8	784
1997 RH ₃	1997 09 07.07569	19 55 27.19	-15 05 50.3	18.4	784
1997 RH ₃	1997 09 07.09983	19 55 27.52	-15 05 52.3	18.5	784
1997 RJ ₃	* 1997 09 05.11233	19 55 11.83	-15 06 05.8	18.1	784
1997 RJ ₃	1997 09 05.12413	19 55 11.85	-15 06 07.0	18.5	784
1997 RJ ₃	1997 09 05.15347	19 55 11.95	-15 06 10.9	18.5	784
1997 RJ ₃	1997 09 05.17344	19 55 12.04	-15 06 13.5	18.5	784

1997 RJ ₃	1997 09 05.18663	19 55 12.06	-15 06 15.2	18.8	784
1997 RJ ₃	1997 09 07.04115	19 55 26.56	-15 10 16.0	18.6	784
1997 RJ ₃	1997 09 07.06424	19 55 26.77	-15 10 19.1	18.9	784
1997 RJ ₃	1997 09 07.07934	19 55 26.86	-15 10 20.4	18.6	784
1997 RJ ₃	1997 09 07.10503	19 55 27.06	-15 10 23.6	18.8	784
(1094)	1997 08 09.11736	22 29 11.61	-09 15 06.7	15.5 R	784
(1094)	1997 08 09.12517	22 29 11.30	-09 15 10.9	15.6 R	784
(1094)	1997 08 09.16684	22 29 09.58	-09 15 33.4	15.7 R	784
(1094)	1997 08 09.22135	22 29 07.32	-09 16 02.8	15.5 R	784
(1094)	1997 08 10.10938	22 28 31.34	-09 24 02.1	15.2 R	784
(1094)	1997 08 10.12274	22 28 30.79	-09 24 09.3	15.2 R	784
(1094)	1997 08 10.15382	22 28 29.46	-09 24 26.3	15.2 R	784
(1094)	1997 08 10.21372	22 28 26.92	-09 24 58.9	15.1 R	784
(1386)	1997 08 09.21215	01 04 42.52	+04 58 49.2	16.0 R	784
(1386)	1997 08 09.21840	01 04 42.83	+04 58 46.8	15.9 R	784
(1386)	1997 08 09.24566	01 04 44.19	+04 58 36.5	15.6 R	784
(1386)	1997 08 10.19792	01 05 32.33	+04 52 26.7	15.7 R	784
(1386)	1997 08 10.21059	01 05 32.97	+04 52 21.4	15.6 R	784
(1386)	1997 08 10.23507	01 05 34.15	+04 52 11.6	15.9 R	784
(2100)	1997 08 09.18090	01 42 58.29	+24 07 15.1	16.2 R	784
(2100)	1997 08 09.18837	01 42 58.53	+24 07 09.6	16.2 R	784
(2100)	1997 08 09.23229	01 42 59.87	+24 06 37.5	16.2 R	784
(2100)	1997 08 10.16580	01 43 29.34	+23 54 14.3	16.3 R	784
(2100)	1997 08 10.16979	01 43 29.48	+23 54 11.2	16.3 R	784
(2966)	1997 08 09.14045	23 08 51.36	-09 51 54.7	16.8 R	784
(2966)	1997 08 09.14410	23 08 51.24	-09 51 55.5	16.8 R	784
(2966)	1997 08 09.16997	23 08 50.19	-09 52 03.0	16.7 R	784
(2966)	1997 08 09.22656	23 08 47.89	-09 52 19.0	16.5 R	784
(2966)	1997 08 10.15677	23 08 11.08	-09 56 37.5	16.9 R	784
(2966)	1997 08 10.17344	23 08 10.38	-09 56 42.1	16.9 R	784
(2966)	1997 08 10.21667	23 08 08.57	-09 56 54.6	16.8 R	784

808 El Leoncito

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J. E. Torres

0.5-m $f/7.5$ double astrograph

PPM

1992 SZ ₂₆	* 1992 09 27.09225	23 03 43.01	-31 05 39.4	808
1992 SZ ₂₆	1992 09 27.12698	23 03 41.48	-31 06 10.8	808

809 European Southern Observatory

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Measurers E. W. Elst, G. Hahn

1.0-m Schmidt, 0.60-m Bochum $f/15$ reflector + CCD

1973 UR ₅	1997 03 10.26875	13 04 27.87	-05 03 05.5	18.7	4 809
1973 UR ₅	1997 03 10.28194	13 04 27.29	-05 03 00.9		4 809
1973 UR ₅	1997 03 10.29514	13 04 26.69	-05 02 59.0		4 809

1997 SEPT.16

M.P.C. 30605

1973 UR ₅	1997 03 11.19653	13 03 46.40	-04 59 16.5	4 809	1991 PR ₁₆	1997 03 10.28194	12 50 38.25	-03 40 54.3	4 809
1973 UR ₅	1997 03 11.20972	13 03 45.73	-04 59 13.8	4 809	1991 PR ₁₆	1997 03 10.29514	12 50 37.65	-03 40 50.9	4 809
1973 UR ₅	1997 03 11.22292	13 03 45.13	-04 59 10.5	4 809	1991 PR ₁₆	1997 03 11.19653	12 49 57.46	-03 35 55.2	4 809
1977 ER ₅	1997 03 10.26875	12 59 17.30	-07 33 28.8	18.5 4 809	1991 PR ₁₆	1997 03 11.20972	12 49 56.84	-03 35 51.2	4 809
1977 ER ₅	1997 03 10.28194	12 59 16.70	-07 33 27.5	4 809	1991 PR ₁₆	1997 03 11.22292	12 49 56.18	-03 35 45.7	4 809
1977 ER ₅	1997 03 10.29514	12 59 16.26	-07 33 24.2	4 809	1992 UM ₉	1996 05 22.16944	15 07 55.52	-10 49 23.9	18.5 4 809
1977 ER ₅	1997 03 11.19653	12 58 43.72	-07 30 10.4	4 809	1992 UM ₉	1996 05 22.18264	15 07 54.95	-10 49 21.0	4 809
1977 ER ₅	1997 03 11.20972	12 58 43.24	-07 30 07.3	4 809	1992 UM ₉	1996 05 22.19583	15 07 54.38	-10 49 18.0	4 809
1977 ER ₅	1997 03 11.22292	12 58 42.69	-07 30 05.2	4 809	1992 UM ₉	1996 05 24.16042	15 06 31.48	-10 42 23.2	4 809
1978 TO ₈	1997 03 10.26875	12 59 06.71	-06 51 01.4	18.6 4 809	1992 UM ₉	1996 05 24.17361	15 06 30.86	-10 42 20.8	4 809
1978 TO ₈	1997 03 10.28194	12 59 06.32	-06 50 59.4	4 809	1992 UM ₉	1996 05 24.18681	15 06 30.32	-10 42 17.9	4 809
1978 TO ₈	1997 03 10.29514	12 59 05.85	-06 50 57.1	4 809	1993 RV ₇	1993 09 18.21181	00 35 44.70	+05 00 56.2	18.3 4 809
1978 TO ₈	1997 03 11.19653	12 58 34.52	-06 47 36.2	4 809	1993 RV ₇	1993 09 18.22222	00 35 44.02	+05 00 54.4	4 809
1978 TO ₈	1997 03 11.20972	12 58 34.00	-06 47 33.4	4 809	1993 RV ₇	1993 09 18.23264	00 35 43.37	+05 00 52.4	4 809
1978 TO ₈	1997 03 11.22292	12 58 33.51	-06 47 30.9	4 809	1994 CG ₂	1994 02 13.27847	11 42 02.70	+09 53 51.9	18.2 4 809
1978 VW ₂	1997 03 10.26875	12 52 13.23	-03 25 12.8	18.6 4 809	1994 CG ₂	1994 02 13.29028	11 42 02.06	+09 53 52.3	4 809
1978 VW ₂	1997 03 10.28194	12 52 12.69	-03 25 09.0	4 809	1994 CG ₂	1994 02 13.30208	11 42 01.47	+09 53 53.8	4 809
1978 VW ₂	1997 03 10.29514	12 52 12.27	-03 25 05.9	4 809	1994 PN ₂₁	1997 03 10.26875	12 55 45.52	-03 37 46.1	18.5 4 809
1978 VW ₂	1997 03 11.19653	12 51 40.55	-03 21 03.4	4 809	1994 PN ₂₁	1997 03 10.28194	12 55 45.01	-03 37 43.4	4 809
1978 VW ₂	1997 03 11.20972	12 51 40.03	-03 20 59.6	4 809	1994 PN ₂₁	1997 03 10.29514	12 55 44.50	-03 37 39.1	4 809
1978 VW ₂	1997 03 11.22292	12 51 39.52	-03 20 56.0	4 809	1994 PN ₂₁	1997 03 11.19653	12 55 12.04	-03 33 30.1	4 809
1984 UN ₂	1997 03 10.26875	12 54 04.97	-06 13 28.5	18.4 4 809	1994 PN ₂₁	1997 03 11.20972	12 55 11.54	-03 33 26.1	4 809
1984 UN ₂	1997 03 10.28194	12 54 04.49	-06 13 24.7	4 809	1994 PN ₂₁	1997 03 11.22292	12 55 11.07	-03 33 23.4	4 809
1984 UN ₂	1997 03 10.29514	12 54 03.96	-06 13 22.1	4 809	1994 PH ₃₀	1997 03 10.26875	13 01 33.40	-06 21 51.7	18.0 4 809
1984 UN ₂	1997 03 11.19653	12 53 31.58	-06 09 35.7	4 809	1994 PH ₃₀	1997 03 10.28194	13 01 32.94	-06 21 45.1	4 809
1984 UN ₂	1997 03 11.20972	12 53 31.02	-06 09 32.5	4 809	1994 PH ₃₀	1997 03 10.29514	13 01 32.51	-06 21 39.7	4 809
1984 UN ₂	1997 03 11.22292	12 53 30.54	-06 09 30.1	4 809	1994 PH ₃₀	1997 03 11.19653	13 01 04.78	-06 15 04.8	4 809
1986 TT ₁₁	1997 03 10.26875	12 56 32.71	-06 58 15.5	18.3 4 809	1994 PH ₃₀	1997 03 11.20972	13 01 04.31	-06 14 59.9	4 809
1986 TT ₁₁	1997 03 10.28194	12 56 32.04	-06 58 15.9	4 809	1994 PH ₃₀	1997 03 11.22292	13 01 03.87	-06 14 53.7	4 809
1986 TT ₁₁	1997 03 10.29514	12 56 31.44	-06 58 15.9	4 809	1994 WQ ₁₂	1997 03 10.26875	13 03 20.74	-05 59 25.5	18.5 4 809
1986 TT ₁₁	1997 03 11.19653	12 55 48.64	-06 57 38.2	4 809	1994 WQ ₁₂	1997 03 10.28194	13 03 20.19	-05 59 22.0	4 809
1986 TT ₁₁	1997 03 11.20972	12 55 47.93	-06 57 38.1	4 809	1994 WQ ₁₂	1997 03 10.29514	13 03 19.77	-05 59 20.4	4 809
1986 TT ₁₁	1997 03 11.22292	12 55 47.28	-06 57 37.6	4 809	1994 WQ ₁₂	1997 03 11.19653	13 02 50.53	-05 56 00.8	4 809
1987 RX	1997 03 10.26875	13 02 31.62	-04 51 40.6	18.7 4 809	1994 WQ ₁₂	1997 03 11.20972	13 02 50.07	-05 55 57.1	4 809
1987 RX	1997 03 10.28194	13 02 31.18	-04 51 38.4	4 809	1994 WQ ₁₂	1997 03 11.22292	13 02 49.62	-05 55 54.2	4 809
1987 RX	1997 03 10.29514	13 02 30.74	-04 51 35.6	4 809	1995 WF ₅	1997 03 10.26875	13 05 46.10	-02 40 48.0	18.4 4 809
1987 RX	1997 03 11.19653	13 02 01.40	-04 48 00.3	4 809	1995 WF ₅	1997 03 10.28194	13 05 45.63	-02 40 43.5	4 809
1987 RX	1997 03 11.20972	13 02 01.00	-04 47 56.7	4 809	1995 WF ₅	1997 03 10.29514	13 05 45.11	-02 40 38.7	4 809
1987 RX	1997 03 11.22292	13 02 00.54	-04 47 53.7	4 809	1995 WF ₅	1997 03 11.19653	13 05 11.50	-02 35 15.3	4 809
1987 UP ₂	1996 05 19.09444	14 13 20.94	-14 59 13.0	18.4 4 809	1995 WF ₅	1997 03 11.20972	13 05 10.97	-02 35 10.0	4 809
1987 UP ₂	1996 05 19.10764	14 13 20.18	-14 59 08.7	4 809	1995 WF ₅	1997 03 11.22292	13 05 10.46	-02 35 05.8	4 809
1987 UP ₂	1996 05 19.12083	14 13 19.53	-14 59 04.4	4 809	1995 WW ₁₇	1997 03 11.19653	13 10 57.05	-05 09 26.9	18.5 4 809
1987 UP ₂	1996 05 22.06597	14 10 56.84	-14 43 10.5	4 809	1995 WW ₁₇	1997 03 11.20972	13 10 56.54	-05 09 25.9	4 809
1987 UP ₂	1996 05 22.07917	14 10 56.19	-14 43 06.2	4 809	1995 WW ₁₇	1997 03 11.22292	13 10 55.98	-05 09 25.0	4 809
1987 UP ₂	1996 05 22.09236	14 10 55.52	-14 43 02.9	4 809	1996 KE ₆	1996 04 17.23681	14 46 49.57	-15 30 18.0	18.3 4 809
1988 BC ₄	1997 03 10.26875	12 57 14.45	-05 10 07.7	18.5 4 809	1996 KE ₆	1996 04 17.25000	14 46 48.84	-15 30 15.2	4 809
1988 BC ₄	1997 03 10.28194	12 57 13.89	-05 10 04.1	4 809	1996 KE ₆	1996 04 17.26319	14 46 48.09	-15 30 12.8	4 809
1988 BC ₄	1997 03 10.29514	12 57 13.33	-05 09 59.4	4 809	1996 RV ₃₃	* 1996 09 08.09236	21 16 50.74	-16 47 08.2	18.4 4 809
1988 BC ₄	1997 03 11.19653	12 56 37.47	-05 05 17.1	4 809	1996 RV ₃₃	1996 09 08.10556	21 16 50.23	-16 47 08.5	4 809
1988 BC ₄	1997 03 11.20972	12 56 36.91	-05 05 12.5	4 809	1996 RV ₃₃	1996 09 08.11875	21 16 49.67	-16 47 08.1	4 809
1988 BC ₄	1997 03 11.22292	12 56 36.32	-05 05 09.4	4 809	1997 EZ ₅₃	1997 03 10.26875	12 50 02.04	-05 12 38.8	18.5 4 809
1991 PR ₁₆	1997 03 10.26875	12 50 38.89	-03 40 59.0	18.5 4 809	1997 EZ ₅₃	1997 03 10.28194	12 50 01.46	-05 12 38.6	4 809

M.P.C. 30606

1997 SEPT.16

1997 EZ ₅₃	1997 03 10.29514	12 50 00.77	-05 12 37.1		4 809	1997 EL ₅₅	1997 03 10.26875	12 53 11.43	-06 57 56.8	18.3	4 809
1997 EB ₅₄	1997 03 10.26875	12 50 23.00	-05 37 50.5	18.3	4 809	1997 EL ₅₅	1997 03 10.28194	12 53 10.86	-06 57 54.5		4 809
1997 EB ₅₄	1997 03 10.28194	12 50 22.36	-05 37 48.0		4 809	1997 EL ₅₅	1997 03 10.29514	12 53 10.33	-06 57 52.9		4 809
1997 EB ₅₄	1997 03 10.29514	12 50 21.77	-05 37 45.7		4 809	1997 EL ₅₅	1997 03 11.19653	12 52 36.02	-06 54 39.7		4 809
1997 EE ₅₄	1997 03 10.26875	12 52 14.17	-05 10 33.1	18.5	4 809	1997 EL ₅₅	1997 03 11.20972	12 52 35.50	-06 54 36.4		4 809
1997 EE ₅₄	1997 03 10.28194	12 52 13.73	-05 10 26.1		4 809	1997 EL ₅₅	1997 03 11.22292	12 52 34.92	-06 54 33.3		4 809
1997 EE ₅₄	1997 03 10.29514	12 52 13.33	-05 10 18.0		4 809	1997 EM ₅₅	1997 03 10.26875	12 54 23.59	-06 09 49.5	18.4	4 809
1997 EE ₅₄	1997 03 11.19653	12 51 47.24	-05 01 36.2		4 809	1997 EM ₅₅	1997 03 10.28194	12 54 23.03	-06 09 48.3		4 809
1997 EE ₅₄	1997 03 11.20972	12 51 46.81	-05 01 28.5		4 809	1997 EM ₅₅	1997 03 10.29514	12 54 22.46	-06 09 46.3		4 809
1997 EE ₅₄	1997 03 11.22292	12 51 46.38	-05 01 20.2		4 809	1997 EM ₅₅	1997 03 11.19653	12 53 44.28	-06 07 12.4		4 809
1997 EF ₅₄	1997 03 11.19653	12 51 21.99	-05 21 40.0		4 809	1997 EM ₅₅	1997 03 11.20972	12 53 43.68	-06 07 10.0		4 809
1997 EF ₅₄	1997 03 11.20972	12 51 21.35	-05 21 38.9		4 809	1997 EM ₅₅	1997 03 11.22292	12 53 43.08	-06 07 08.8		4 809
1997 EF ₅₄	1997 03 11.22292	12 51 20.86	-05 21 37.3		4 809	1997 EU ₅₅	* 1997 03 10.26875	12 51 45.95	-05 12 52.2	18.5	4 809
1997 EH ₅₄	1997 03 11.19653	12 51 28.72	-05 20 57.9		4 809	1997 EU ₅₅	1997 03 10.28194	12 51 45.44	-05 12 50.2		4 809
1997 EH ₅₄	1997 03 11.20972	12 51 28.16	-05 20 52.7		4 809	1997 EU ₅₅	1997 03 10.29514	12 51 44.96	-05 12 47.8		4 809
1997 EH ₅₄	1997 03 11.22292	12 51 27.59	-05 20 47.2		4 809	1997 EU ₅₅	1997 03 11.19653	12 51 12.88	-05 09 41.3		4 809
1997 EK ₅₄	1997 03 10.26875	12 53 17.06	-04 27 58.2	18.4	4 809	1997 EU ₅₅	1997 03 11.20972	12 51 12.37	-05 09 39.1		4 809
1997 EK ₅₄	1997 03 10.28194	12 53 16.56	-04 27 55.5		4 809	1997 EU ₅₅	1997 03 11.22292	12 51 11.84	-05 09 37.2		4 809
1997 EK ₅₄	1997 03 10.29514	12 53 16.09	-04 27 52.8		4 809	1997 EV ₅₅	* 1997 03 10.26875	12 51 52.53	-04 43 30.2	18.6	4 809
1997 EK ₅₄	1997 03 11.19653	12 52 44.93	-04 24 46.5		4 809	1997 EV ₅₅	1997 03 10.28194	12 51 52.07	-04 43 24.5		4 809
1997 EK ₅₄	1997 03 11.20972	12 52 44.42	-04 24 44.2		4 809	1997 EV ₅₅	1997 03 10.29514	12 51 51.67	-04 43 20.9		4 809
1997 EK ₅₄	1997 03 11.22292	12 52 43.92	-04 24 41.5		4 809	1997 EV ₅₅	1997 03 11.19653	12 51 21.98	-04 37 26.7		4 809
1997 EL ₅₄	1997 03 10.26875	12 53 16.59	-04 26 22.4	18.4	4 809	1997 EV ₅₅	1997 03 11.20972	12 51 21.45	-04 37 21.2		4 809
1997 EL ₅₄	1997 03 10.28194	12 53 15.91	-04 26 20.4		4 809	1997 EV ₅₅	1997 03 11.22292	12 51 21.00	-04 37 15.9		4 809
1997 EL ₅₄	1997 03 10.29514	12 53 15.28	-04 26 18.6		4 809	1997 EW ₅₅	* 1997 03 10.26875	12 52 02.14	-05 57 37.8	18.7	4 809
1997 EL ₅₄	1997 03 11.19653	12 52 33.09	-04 24 02.9		4 809	1997 EW ₅₅	1997 03 10.28194	12 52 01.63	-05 57 35.5		4 809
1997 EL ₅₄	1997 03 11.20972	12 52 32.42	-04 24 01.0		4 809	1997 EW ₅₅	1997 03 10.29514	12 52 01.13	-05 57 33.5		4 809
1997 EL ₅₄	1997 03 11.22292	12 52 31.77	-04 23 58.9		4 809	1997 EW ₅₅	1997 03 11.19653	12 51 29.81	-05 54 36.0		4 809
1997 EM ₅₄	1997 03 10.26875	12 53 35.31	-05 19 57.2	18.6	4 809	1997 EW ₅₅	1997 03 11.20972	12 51 29.32	-05 54 34.8		4 809
1997 EM ₅₄	1997 03 10.28194	12 53 34.78	-05 19 56.6		4 809	1997 EW ₅₅	1997 03 11.22292	12 51 28.82	-05 54 32.5		4 809
1997 EM ₅₄	1997 03 10.29514	12 53 34.15	-05 19 53.9		4 809	1997 EX ₅₅	* 1997 03 10.26875	12 52 05.37	-05 02 00.8	18.6	4 809
1997 EM ₅₄	1997 03 11.19653	12 52 54.03	-05 17 47.5		4 809	1997 EX ₅₅	1997 03 10.28194	12 52 04.77	-05 01 55.9		4 809
1997 EM ₅₄	1997 03 11.20972	12 52 53.38	-05 17 45.7		4 809	1997 EX ₅₅	1997 03 10.29514	12 52 04.17	-05 01 52.0		4 809
1997 EM ₅₄	1997 03 11.22292	12 52 52.76	-05 17 44.9		4 809	1997 EX ₅₅	1997 03 11.19653	12 51 25.75	-04 57 09.2		4 809
1997 EH ₅₅	1997 03 10.26875	12 51 06.36	-05 45 39.0	18.6	4 809	1997 EX ₅₅	1997 03 11.20972	12 51 25.04	-04 57 04.5		4 809
1997 EH ₅₅	1997 03 10.28194	12 51 05.74	-05 45 32.3		4 809	1997 EX ₅₅	1997 03 11.22292	12 51 24.44	-04 57 01.3		4 809
1997 EH ₅₅	1997 03 10.29514	12 51 05.11	-05 45 26.8		4 809	1997 EY ₅₅	* 1997 03 10.26875	12 53 08.92	-06 01 05.8	18.6	4 809
1997 EH ₅₅	1997 03 11.19653	12 50 28.38	-05 38 23.6		4 809	1997 EY ₅₅	1997 03 10.28194	12 53 08.30	-06 01 02.0		4 809
1997 EH ₅₅	1997 03 11.20972	12 50 27.76	-05 38 17.8		4 809	1997 EY ₅₅	1997 03 10.29514	12 53 07.70	-06 00 59.7		4 809
1997 EH ₅₅	1997 03 11.22292	12 50 27.21	-05 38 12.2		4 809	1997 EY ₅₅	1997 03 11.19653	12 52 27.09	-05 57 22.8		4 809
1997 EJ ₅₅	1997 03 10.26875	12 51 48.62	-05 55 53.9	18.5	4 809	1997 EY ₅₅	1997 03 11.20972	12 52 26.46	-05 57 19.6		4 809
1997 EJ ₅₅	1997 03 10.28194	12 51 48.23	-05 55 51.7		4 809	1997 EY ₅₅	1997 03 11.22292	12 52 25.79	-05 57 17.2		4 809
1997 EJ ₅₅	1997 03 10.29514	12 51 47.77	-05 55 49.6		4 809	1997 EZ ₅₅	* 1997 03 10.26875	12 53 17.06	-06 10 18.2	19.5	4 809
1997 EJ ₅₅	1997 03 11.19653	12 51 16.39	-05 53 07.3		4 809	1997 EZ ₅₅	1997 03 10.28194	12 53 16.44	-06 10 15.3		4 809
1997 EJ ₅₅	1997 03 11.20972	12 51 15.88	-05 53 05.3		4 809	1997 EZ ₅₅	1997 03 10.29514	12 53 15.95	-06 10 11.5		4 809
1997 EJ ₅₅	1997 03 11.22292	12 51 15.36	-05 53 03.3		4 809	1997 EZ ₅₅	1997 03 11.19653	12 52 42.19	-06 05 34.1		4 809
1997 EK ₅₅	1997 03 10.26875	12 52 03.83	-05 54 11.6	18.6	4 809	1997 EZ ₅₅	1997 03 11.20972	12 52 41.50	-06 05 31.9		4 809
1997 EK ₅₅	1997 03 10.28194	12 52 03.30	-05 54 08.6		4 809	1997 EZ ₅₅	1997 03 11.22292	12 52 40.92	-06 05 28.1		4 809
1997 EK ₅₅	1997 03 10.29514	12 52 02.84	-05 54 06.1		4 809	1997 EA ₅₆	* 1997 03 10.26875	12 53 28.97	-03 23 24.4	18.5	4 809
1997 EK ₅₅	1997 03 11.19653	12 51 31.87	-05 50 51.5		4 809	1997 EA ₅₆	1997 03 10.28194	12 53 28.32	-03 23 26.3		4 809
1997 EK ₅₅	1997 03 11.20972	12 51 31.29	-05 50 48.4		4 809	1997 EA ₅₆	1997 03 10.29514	12 53 27.69	-03 23 26.3		4 809
1997 EK ₅₅	1997 03 11.22292	12 51 30.88	-05 50 46.1		4 809	1997 EA ₅₆	1997 03 11.19653	12 52 45.53	-03 23 53.9		4 809

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1997 EA ₅₆	1997 03 11.20972	12 52 44.84	-03 23 54.1		4 809	1997 EK ₅₆	1997 03 10.29514	12 56 52.65	-04 44 59.9		4 809
1997 EA ₅₆	1997 03 11.22292	12 52 44.21	-03 23 54.9		4 809	1997 EK ₅₆	1997 03 11.19653	12 56 20.68	-04 42 10.3		4 809
1997 EB ₅₆	* 1997 03 10.26875	12 54 13.94	-06 00 14.8	18.6	4 809	1997 EK ₅₆	1997 03 11.20972	12 56 20.20	-04 42 06.3		4 809
1997 EB ₅₆	1997 03 10.28194	12 54 13.21	-06 00 12.9		4 809	1997 EK ₅₆	1997 03 11.22292	12 56 19.67	-04 42 05.3		4 809
1997 EB ₅₆	1997 03 10.29514	12 54 12.63	-06 00 11.8		4 809	1997 EL ₅₆	* 1997 03 10.26875	12 57 05.57	-03 37 54.7	18.5	4 809
1997 EB ₅₆	1997 03 11.19653	12 53 31.28	-05 58 12.8		4 809	1997 EL ₅₆	1997 03 10.28194	12 57 05.07	-03 37 49.4		4 809
1997 EB ₅₆	1997 03 11.20972	12 53 30.50	-05 58 11.4		4 809	1997 EL ₅₆	1997 03 10.29514	12 57 04.63	-03 37 45.4		4 809
1997 EB ₅₆	1997 03 11.22292	12 53 30.00	-05 58 09.7		4 809	1997 EL ₅₆	1997 03 11.19653	12 56 35.03	-03 32 05.7		4 809
1997 EC ₅₆	* 1997 03 10.26875	12 54 24.07	-06 44 30.0	18.5	4 809	1997 EL ₅₆	1997 03 11.20972	12 56 34.61	-03 32 00.8		4 809
1997 EC ₅₆	1997 03 10.28194	12 54 23.40	-06 44 27.0		4 809	1997 EL ₅₆	1997 03 11.22292	12 56 34.17	-03 31 55.9		4 809
1997 EC ₅₆	1997 03 10.29514	12 54 22.73	-06 44 24.1		4 809	1997 EM ₅₆	* 1997 03 10.26875	12 57 05.81	-05 02 53.2	18.5	4 809
1997 EC ₅₆	1997 03 11.19653	12 53 41.64	-06 41 44.1		4 809	1997 EM ₅₆	1997 03 10.28194	12 57 05.24	-05 02 48.9		4 809
1997 EC ₅₆	1997 03 11.20972	12 53 41.03	-06 41 42.5		4 809	1997 EM ₅₆	1997 03 10.29514	12 57 04.75	-05 02 44.3		4 809
1997 EC ₅₆	1997 03 11.22292	12 53 40.37	-06 41 39.9		4 809	1997 EM ₅₆	1997 03 11.19653	12 56 29.92	-04 57 37.2		4 809
1997 ED ₅₆	* 1997 03 10.26875	12 54 34.17	-04 37 35.1	18.5	4 809	1997 EM ₅₆	1997 03 11.20972	12 56 29.33	-04 57 32.4		4 809
1997 ED ₅₆	1997 03 10.28194	12 54 33.71	-04 37 30.5		4 809	1997 EM ₅₆	1997 03 11.22292	12 56 28.82	-04 57 28.0		4 809
1997 ED ₅₆	1997 03 10.29514	12 54 33.21	-04 37 26.8		4 809	1997 EN ₅₆	* 1997 03 10.26875	12 57 24.22	-05 27 36.1	19.0	4 809
1997 ED ₅₆	1997 03 11.19653	12 54 02.43	-04 33 01.6		4 809	1997 EN ₅₆	1997 03 10.28194	12 57 23.57	-05 27 35.4		4 809
1997 ED ₅₆	1997 03 11.20972	12 54 01.90	-04 32 57.6		4 809	1997 EN ₅₆	1997 03 10.29514	12 57 22.93	-05 27 33.5		4 809
1997 ED ₅₆	1997 03 11.22292	12 54 01.42	-04 32 54.2		4 809	1997 EN ₅₆	1997 03 11.19653	12 56 44.82	-05 25 15.3		4 809
1997 EE ₅₆	* 1997 03 10.26875	12 55 15.21	-05 52 44.6	19.0	4 809	1997 EN ₅₆	1997 03 11.20972	12 56 44.08	-05 25 12.8		4 809
1997 EE ₅₆	1997 03 10.28194	12 55 14.68	-05 52 42.0		4 809	1997 EN ₅₆	1997 03 11.22292	12 56 43.52	-05 25 11.5		4 809
1997 EE ₅₆	1997 03 10.29514	12 55 14.08	-05 52 40.5		4 809	1997 EO ₅₆	* 1997 03 10.26875	12 57 24.71	-07 27 09.8	18.4	4 809
1997 EE ₅₆	1997 03 11.19653	12 54 42.13	-05 50 25.6		4 809	1997 EO ₅₆	1997 03 10.28194	12 57 24.10	-07 27 06.7		4 809
1997 EE ₅₆	1997 03 11.20972	12 54 41.64	-05 50 23.9		4 809	1997 EO ₅₆	1997 03 10.29514	12 57 23.55	-07 27 04.2		4 809
1997 EE ₅₆	1997 03 11.22292	12 54 41.06	-05 50 22.8		4 809	1997 EO ₅₆	1997 03 11.19653	12 56 48.15	-07 24 14.4		4 809
1997 EF ₅₆	* 1997 03 10.26875	12 55 26.54	-06 08 36.8	18.5	4 809	1997 EO ₅₆	1997 03 11.20972	12 56 47.58	-07 24 12.2		4 809
1997 EF ₅₆	1997 03 10.28194	12 55 26.05	-06 08 34.5		4 809	1997 EO ₅₆	1997 03 11.22292	12 56 47.03	-07 24 09.7		4 809
1997 EF ₅₆	1997 03 10.29514	12 55 25.59	-06 08 32.6		4 809	1997 EP ₅₆	* 1997 03 10.26875	12 57 31.12	-02 58 30.5	18.8	4 809
1997 EF ₅₆	1997 03 11.19653	12 54 55.38	-06 05 30.4		4 809	1997 EP ₅₆	1997 03 10.28194	12 57 30.55	-02 58 27.4		4 809
1997 EF ₅₆	1997 03 11.20972	12 54 54.87	-06 05 28.4		4 809	1997 EP ₅₆	1997 03 10.29514	12 57 30.08	-02 58 25.3		4 809
1997 EF ₅₆	1997 03 11.22292	12 54 54.39	-06 05 25.7		4 809	1997 EP ₅₆	1997 03 11.19653	12 56 53.29	-02 54 43.8		4 809
1997 EG ₅₆	* 1997 03 10.26875	12 56 24.45	-03 21 17.4	18.5	4 809	1997 EP ₅₆	1997 03 11.20972	12 56 52.71	-02 54 40.6		4 809
1997 EG ₅₆	1997 03 10.28194	12 56 23.87	-03 21 15.2		4 809	1997 EP ₅₆	1997 03 11.22292	12 56 52.09	-02 54 36.1		4 809
1997 EG ₅₆	1997 03 10.29514	12 56 23.25	-03 21 12.1		4 809	1997 EQ ₅₆	* 1997 03 10.26875	12 57 31.96	-05 55 47.9	18.6	4 809
1997 EG ₅₆	1997 03 11.19653	12 55 43.71	-03 17 50.1		4 809	1997 EQ ₅₆	1997 03 10.28194	12 57 31.29	-05 55 48.9		4 809
1997 EG ₅₆	1997 03 11.20972	12 55 43.04	-03 17 48.0		4 809	1997 EQ ₅₆	1997 03 10.29514	12 57 30.69	-05 55 50.6		4 809
1997 EG ₅₆	1997 03 11.22292	12 55 42.48	-03 17 44.3		4 809	1997 EQ ₅₆	1997 03 11.19653	12 56 50.41	-05 57 13.2		4 809
1997 EH ₅₆	* 1997 03 10.26875	12 56 40.38	-05 51 52.7	18.5	4 809	1997 EQ ₅₆	1997 03 11.20972	12 56 49.63	-05 57 14.4		4 809
1997 EH ₅₆	1997 03 10.28194	12 56 39.84	-05 51 52.3		4 809	1997 EQ ₅₆	1997 03 11.22292	12 56 48.89	-05 57 16.2		4 809
1997 EH ₅₆	1997 03 10.29514	12 56 39.32	-05 51 51.2		4 809	1997 ER ₅₆	* 1997 03 10.26875	12 57 40.57	-05 39 36.3	19.3	4 809
1997 EH ₅₆	1997 03 11.19653	12 56 06.10	-05 50 56.1		4 809	1997 ER ₅₆	1997 03 10.28194	12 57 40.01	-05 39 33.1		4 809
1997 EH ₅₆	1997 03 11.20972	12 56 05.57	-05 50 54.9		4 809	1997 ER ₅₆	1997 03 10.29514	12 57 39.44	-05 39 28.8		4 809
1997 EH ₅₆	1997 03 11.22292	12 56 05.06	-05 50 55.2		4 809	1997 ER ₅₆	1997 03 11.19653	12 57 03.46	-05 34 37.7		4 809
1997 EJ ₅₆	* 1997 03 10.26875	12 56 48.88	-04 39 28.8	18.5	4 809	1997 ER ₅₆	1997 03 11.20972	12 57 02.89	-05 34 33.6		4 809
1997 EJ ₅₆	1997 03 10.28194	12 56 48.37	-04 39 27.1		4 809	1997 ER ₅₆	1997 03 11.22292	12 57 02.31	-05 34 28.9		4 809
1997 EJ ₅₆	1997 03 10.29514	12 56 47.79	-04 39 25.9		4 809	1997 ES ₅₆	* 1997 03 10.26875	12 57 47.98	-03 41 44.1	18.7	4 809
1997 EJ ₅₆	1997 03 11.19653	12 56 11.94	-04 37 43.3		4 809	1997 ES ₅₆	1997 03 10.28194	12 57 47.31	-03 41 40.8		4 809
1997 EJ ₅₆	1997 03 11.20972	12 56 11.41	-04 37 41.9		4 809	1997 ES ₅₆	1997 03 10.29514	12 57 46.67	-03 41 37.4		4 809
1997 EJ ₅₆	1997 03 11.22292	12 56 10.84	-04 37 40.5		4 809	1997 ES ₅₆	1997 03 11.19653	12 57 05.46	-03 38 03.6		4 809
1997 EK ₅₆	* 1997 03 10.26875	12 56 53.60	-04 45 04.3	18.5	4 809	1997 ES ₅₆	1997 03 11.20972	12 57 04.73	-03 38 01.4		4 809
1997 EK ₅₆	1997 03 10.28194	12 56 53.13	-04 45 01.9		4 809	1997 ES ₅₆	1997 03 11.22292	12 57 04.10	-03 37 57.7		4 809

1997 ET ₅₆	* 1997 03 10.26875	12 57 53.42	-03 44 03.5	18.6	4 809	1997 EB ₅₇	1997 03 11.20972	12 59 03.10	-03 51 33.9		4 809
1997 ET ₅₆	1997 03 10.28194	12 57 53.04	-03 43 55.0		4 809	1997 EB ₅₇	1997 03 11.22292	12 59 02.64	-03 51 30.1		4 809
1997 ET ₅₆	1997 03 10.29514	12 57 52.58	-03 43 45.7		4 809	1997 EC ₅₇	* 1997 03 10.26875	12 59 48.75	-03 33 14.1	18.7	4 809
1997 ET ₅₆	1997 03 11.19653	12 57 25.84	-03 33 45.5		4 809	1997 EC ₅₇	1997 03 10.28194	12 59 48.22	-03 33 08.9		4 809
1997 ET ₅₆	1997 03 11.20972	12 57 25.44	-03 33 36.8		4 809	1997 EC ₅₇	1997 03 10.29514	12 59 47.80	-03 33 05.0		4 809
1997 ET ₅₆	1997 03 11.22292	12 57 25.03	-03 33 27.9		4 809	1997 EC ₅₇	1997 03 11.19653	12 59 16.00	-03 27 45.7		4 809
1997 EU ₅₆	* 1997 03 10.26875	12 58 06.46	-05 18 58.4	18.4	4 809	1997 EC ₅₇	1997 03 11.20972	12 59 15.56	-03 27 40.7		4 809
1997 EU ₅₆	1997 03 10.28194	12 58 05.93	-05 18 55.4		4 809	1997 EC ₅₇	1997 03 11.22292	12 59 15.08	-03 27 37.0		4 809
1997 EU ₅₆	1997 03 10.29514	12 58 05.35	-05 18 52.7		4 809	1997 ED ₅₇	* 1997 03 10.26875	12 59 59.86	-03 10 40.4	18.5	4 809
1997 EU ₅₆	1997 03 11.19653	12 57 29.43	-05 15 58.0		4 809	1997 ED ₅₇	1997 03 10.28194	12 59 59.28	-03 10 36.5		4 809
1997 EU ₅₆	1997 03 11.20972	12 57 28.84	-05 15 55.1		4 809	1997 ED ₅₇	1997 03 10.29514	12 59 58.84	-03 10 32.0		4 809
1997 EU ₅₆	1997 03 11.22292	12 57 28.27	-05 15 53.0		4 809	1997 ED ₅₇	1997 03 11.19653	12 59 27.98	-03 06 05.0		4 809
1997 EV ₅₆	* 1997 03 10.26875	12 58 15.85	-03 04 14.7	18.3	4 809	1997 ED ₅₇	1997 03 11.20972	12 59 27.61	-03 06 01.9		4 809
1997 EV ₅₆	1997 03 10.28194	12 58 15.38	-03 04 09.8		4 809	1997 ED ₅₇	1997 03 11.22292	12 59 27.10	-03 05 59.3		4 809
1997 EV ₅₆	1997 03 10.29514	12 58 14.87	-03 04 05.1		4 809	1997 EE ₅₇	* 1997 03 10.26875	13 00 04.39	-06 46 13.7	18.5	4 809
1997 EV ₅₆	1997 03 11.19653	12 57 43.13	-02 58 31.4		4 809	1997 EE ₅₇	1997 03 10.28194	13 00 03.78	-06 46 12.9		4 809
1997 EV ₅₆	1997 03 11.20972	12 57 42.65	-02 58 25.6		4 809	1997 EE ₅₇	1997 03 10.29514	13 00 03.28	-06 46 11.9		4 809
1997 EV ₅₆	1997 03 11.22292	12 57 42.16	-02 58 21.8		4 809	1997 EE ₅₇	1997 03 11.19653	12 59 31.12	-06 44 19.3		4 809
1997 EW ₅₆	* 1997 03 10.26875	12 58 40.21	-03 50 30.9	18.4	4 809	1997 EE ₅₇	1997 03 11.20972	12 59 30.57	-06 44 17.2		4 809
1997 EW ₅₆	1997 03 10.28194	12 58 39.72	-03 50 25.6		4 809	1997 EE ₅₇	1997 03 11.22292	12 59 30.04	-06 44 16.4		4 809
1997 EW ₅₆	1997 03 10.29514	12 58 39.21	-03 50 19.8		4 809	1997 EF ₅₇	* 1997 03 10.26875	13 00 18.77	-03 39 03.4	18.8	4 809
1997 EW ₅₆	1997 03 11.19653	12 58 05.96	-03 44 15.3		4 809	1997 EF ₅₇	1997 03 10.28194	13 00 18.11	-03 39 03.8		4 809
1997 EW ₅₆	1997 03 11.20972	12 58 05.41	-03 44 08.9		4 809	1997 EF ₅₇	1997 03 10.29514	13 00 17.64	-03 39 03.3		4 809
1997 EW ₅₆	1997 03 11.22292	12 58 04.88	-03 44 04.2		4 809	1997 EF ₅₇	1997 03 11.19653	12 59 47.88	-03 38 18.3		4 809
1997 EX ₅₆	* 1997 03 10.26875	12 58 45.71	-06 42 26.5	19.0	4 809	1997 EF ₅₇	1997 03 11.20972	12 59 47.32	-03 38 17.1		4 809
1997 EX ₅₆	1997 03 10.28194	12 58 45.23	-06 42 24.9		4 809	1997 EF ₅₇	1997 03 11.22292	12 59 46.75	-03 38 17.3		4 809
1997 EX ₅₆	1997 03 10.29514	12 58 44.74	-06 42 20.8		4 809	1997 EG ₅₇	* 1997 03 10.26875	13 00 21.36	-03 36 30.9	18.4	4 809
1997 EX ₅₆	1997 03 11.19653	12 58 12.91	-06 39 08.9		4 809	1997 EG ₅₇	1997 03 10.28194	13 00 20.71	-03 36 28.0		4 809
1997 EX ₅₆	1997 03 11.20972	12 58 12.38	-06 39 05.6		4 809	1997 EG ₅₇	1997 03 10.29514	13 00 20.22	-03 36 25.1		4 809
1997 EX ₅₆	1997 03 11.22292	12 58 11.87	-06 39 03.2		4 809	1997 EG ₅₇	1997 03 11.19653	12 59 43.10	-03 32 40.6		4 809
1997 EY ₅₆	* 1997 03 10.26875	12 59 12.08	-05 23 17.1	18.5	4 809	1997 EG ₅₇	1997 03 11.20972	12 59 42.49	-03 32 38.7		4 809
1997 EY ₅₆	1997 03 10.28194	12 59 11.53	-05 23 17.1		4 809	1997 EG ₅₇	1997 03 11.22292	12 59 41.96	-03 32 35.4		4 809
1997 EY ₅₆	1997 03 10.29514	12 59 10.84	-05 23 17.2		4 809	1997 EH ₅₇	* 1997 03 10.26875	13 00 29.20	-02 31 58.0	18.4	4 809
1997 EY ₅₆	1997 03 11.19653	12 58 31.69	-05 22 57.7		4 809	1997 EH ₅₇	1997 03 10.28194	13 00 28.64	-02 31 55.8		4 809
1997 EY ₅₆	1997 03 11.20972	12 58 31.06	-05 22 58.6		4 809	1997 EH ₅₇	1997 03 10.29514	13 00 28.04	-02 31 53.4		4 809
1997 EY ₅₆	1997 03 11.22292	12 58 30.55	-05 22 59.0		4 809	1997 EH ₅₇	1997 03 11.19653	12 59 50.34	-02 29 14.6		4 809
1997 EZ ₅₆	* 1997 03 10.26875	12 59 29.93	-04 10 11.7	18.5	4 809	1997 EH ₅₇	1997 03 11.20972	12 59 49.81	-02 29 12.5		4 809
1997 EZ ₅₆	1997 03 10.28194	12 59 29.37	-04 10 09.0		4 809	1997 EH ₅₇	1997 03 11.22292	12 59 49.25	-02 29 10.0		4 809
1997 EZ ₅₆	1997 03 10.29514	12 59 28.84	-04 10 07.0		4 809	1997 EJ ₅₇	* 1997 03 10.26875	13 00 33.38	-04 04 28.9	18.5	4 809
1997 EZ ₅₆	1997 03 11.19653	12 58 54.23	-04 07 07.5		4 809	1997 EJ ₅₇	1997 03 10.28194	13 00 32.97	-04 04 23.1		4 809
1997 EZ ₅₆	1997 03 11.20972	12 58 53.65	-04 07 04.0		4 809	1997 EJ ₅₇	1997 03 10.29514	13 00 32.55	-04 04 18.4		4 809
1997 EZ ₅₆	1997 03 11.22292	12 58 53.10	-04 07 01.5		4 809	1997 EJ ₅₇	1997 03 11.19653	13 00 05.29	-03 58 16.4		4 809
1997 EA ₅₇	* 1997 03 10.26875	12 59 34.06	-06 29 24.0	18.5	4 809	1997 EJ ₅₇	1997 03 11.20972	13 00 04.78	-03 58 10.5		4 809
1997 EA ₅₇	1997 03 10.28194	12 59 33.65	-06 29 19.0		4 809	1997 EJ ₅₇	1997 03 11.22292	13 00 04.36	-03 58 05.3		4 809
1997 EA ₅₇	1997 03 10.29514	12 59 33.25	-06 29 14.1		4 809	1997 EK ₅₇	* 1997 03 10.26875	13 00 34.37	-06 00 21.3	18.4	4 809
1997 EA ₅₇	1997 03 11.19653	12 59 06.39	-06 23 09.6		4 809	1997 EK ₅₇	1997 03 10.28194	13 00 33.90	-06 00 17.3		4 809
1997 EA ₅₇	1997 03 11.20972	12 59 05.95	-06 23 04.8		4 809	1997 EK ₅₇	1997 03 10.29514	13 00 33.37	-06 00 12.0		4 809
1997 EA ₅₇	1997 03 11.22292	12 59 05.49	-06 22 59.7		4 809	1997 EK ₅₇	1997 03 11.19653	13 00 00.28	-05 53 59.5		4 809
1997 EB ₅₇	* 1997 03 10.26875	12 59 35.76	-03 55 49.8	18.5	4 809	1997 EK ₅₇	1997 03 11.20972	12 59 59.71	-05 53 54.6		4 809
1997 EB ₅₇	1997 03 10.28194	12 59 35.32	-03 55 46.4		4 809	1997 EK ₅₇	1997 03 11.22292	12 59 59.21	-05 53 49.1		4 809
1997 EB ₅₇	1997 03 10.29514	12 59 34.75	-03 55 43.1		4 809	1997 EL ₅₇	* 1997 03 10.26875	13 00 51.75	-03 39 56.9	18.6	4 809
1997 EB ₅₇	1997 03 11.19653	12 59 03.62	-03 51 38.5		4 809	1997 EL ₅₇	1997 03 10.28194	13 00 51.02	-03 39 51.8		4 809

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1997 EL ₅₇	1997 03 10.29514	13 00 50.44	-03 39 48.1	4 809	1997 EU ₅₇	1997 03 10.28194	13 02 24.96	-07 04 49.3	4 809
1997 EL ₅₇	1997 03 11.19653	13 00 12.42	-03 35 01.1	4 809	1997 EU ₅₇	1997 03 10.29514	13 02 24.54	-07 04 47.2	4 809
1997 EL ₅₇	1997 03 11.20972	13 00 11.72	-03 34 57.2	4 809	1997 EU ₅₇	1997 03 11.19653	13 01 53.85	-07 01 44.3	4 809
1997 EL ₅₇	1997 03 11.22292	13 00 11.25	-03 34 54.9	4 809	1997 EU ₅₇	1997 03 11.20972	13 01 53.33	-07 01 42.3	4 809
1997 EM ₅₇	* 1997 03 10.26875	13 00 59.38	-04 48 29.6	18.8 4 809	1997 EU ₅₇	1997 03 11.22292	13 01 52.91	-07 01 39.8	4 809
1997 EM ₅₇	1997 03 10.28194	13 00 58.89	-04 48 30.2	4 809	1997 EV ₅₇	* 1997 03 10.26875	13 02 30.14	-06 35 59.7	18.6 4 809
1997 EM ₅₇	1997 03 10.29514	13 00 58.21	-04 48 30.0	4 809	1997 EV ₅₇	1997 03 10.28194	13 02 29.55	-06 35 59.5	4 809
1997 EM ₅₇	1997 03 11.19653	13 00 15.12	-04 48 21.8	4 809	1997 EV ₅₇	1997 03 10.29514	13 02 29.04	-06 35 59.2	4 809
1997 EM ₅₇	1997 03 11.20972	13 00 14.49	-04 48 21.5	4 809	1997 EV ₅₇	1997 03 11.19653	13 01 54.24	-06 35 21.4	4 809
1997 EM ₅₇	1997 03 11.22292	13 00 13.81	-04 48 21.6	4 809	1997 EV ₅₇	1997 03 11.20972	13 01 53.69	-06 35 20.8	4 809
1997 EN ₅₇	* 1997 03 10.26875	13 00 59.41	-06 30 26.2	18.6 4 809	1997 EV ₅₇	1997 03 11.22292	13 01 53.16	-06 35 20.9	4 809
1997 EN ₅₇	1997 03 10.28194	13 00 58.95	-06 30 23.2	4 809	1997 EW ₅₇	* 1997 03 10.26875	13 02 32.16	-04 55 42.6	18.6 4 809
1997 EN ₅₇	1997 03 10.29514	13 00 58.54	-06 30 21.9	4 809	1997 EW ₅₇	1997 03 10.28194	13 02 31.56	-04 55 38.7	4 809
1997 EN ₅₇	1997 03 11.19653	13 00 32.54	-06 27 43.5	4 809	1997 EW ₅₇	1997 03 10.29514	13 02 31.01	-04 55 36.4	4 809
1997 EN ₅₇	1997 03 11.20972	13 00 32.06	-06 27 41.1	4 809	1997 EW ₅₇	1997 03 11.19653	13 01 55.38	-04 52 34.6	4 809
1997 EN ₅₇	1997 03 11.22292	13 00 31.68	-06 27 39.1	4 809	1997 EW ₅₇	1997 03 11.20972	13 01 54.75	-04 52 32.0	4 809
1997 EO ₅₇	* 1997 03 10.26875	13 01 04.03	-03 12 48.8	18.4 4 809	1997 EW ₅₇	1997 03 11.22292	13 01 54.18	-04 52 29.9	4 809
1997 EO ₅₇	1997 03 10.28194	13 01 03.52	-03 12 47.4	4 809	1997 EX ₅₇	* 1997 03 10.26875	13 02 54.13	-06 44 13.5	18.4 4 809
1997 EO ₅₇	1997 03 10.29514	13 01 02.99	-03 12 46.9	4 809	1997 EX ₅₇	1997 03 10.28194	13 02 53.67	-06 44 10.3	4 809
1997 EO ₅₇	1997 03 11.19653	13 00 28.04	-03 11 30.7	4 809	1997 EX ₅₇	1997 03 10.29514	13 02 53.21	-06 44 07.5	4 809
1997 EO ₅₇	1997 03 11.20972	13 00 27.59	-03 11 29.4	4 809	1997 EX ₅₇	1997 03 11.19653	13 02 25.96	-06 40 13.5	4 809
1997 EO ₅₇	1997 03 11.22292	13 00 27.03	-03 11 28.4	4 809	1997 EX ₅₇	1997 03 11.20972	13 02 25.48	-06 40 10.4	4 809
1997 EP ₅₇	* 1997 03 10.26875	13 01 27.57	-06 04 13.6	18.8 4 809	1997 EX ₅₇	1997 03 11.22292	13 02 25.02	-06 40 06.4	4 809
1997 EP ₅₇	1997 03 10.28194	13 01 27.10	-06 04 10.7	4 809	1997 EY ₅₇	* 1997 03 10.26875	13 03 06.90	-05 06 14.0	18.4 4 809
1997 EP ₅₇	1997 03 10.29514	13 01 26.68	-06 04 06.4	4 809	1997 EY ₅₇	1997 03 10.28194	13 03 06.22	-05 06 13.5	4 809
1997 EP ₅₇	1997 03 11.19653	13 00 58.11	-06 00 03.5	4 809	1997 EY ₅₇	1997 03 10.29514	13 03 05.58	-05 06 12.2	4 809
1997 EP ₅₇	1997 03 11.20972	13 00 57.68	-06 00 00.0	4 809	1997 EY ₅₇	1997 03 11.19653	13 02 26.02	-05 05 06.9	4 809
1997 EQ ₅₇	* 1997 03 10.26875	13 01 40.66	-04 24 39.7	18.6 4 809	1997 EY ₅₇	1997 03 11.20972	13 02 25.41	-05 05 06.0	4 809
1997 EQ ₅₇	1997 03 10.28194	13 01 40.14	-04 24 37.1	4 809	1997 EY ₅₇	1997 03 11.22292	13 02 24.79	-05 05 05.3	4 809
1997 EQ ₅₇	1997 03 10.29514	13 01 39.63	-04 24 34.8	4 809	1997 EZ ₅₇	* 1997 03 10.26875	13 03 23.13	-05 39 52.5	18.7 4 809
1997 EQ ₅₇	1997 03 11.19653	13 01 08.05	-04 22 07.0	4 809	1997 EZ ₅₇	1997 03 10.28194	13 03 22.69	-05 39 51.2	4 809
1997 EQ ₅₇	1997 03 11.20972	13 01 07.55	-04 22 04.7	4 809	1997 EZ ₅₇	1997 03 10.29514	13 03 22.19	-05 39 50.4	4 809
1997 EQ ₅₇	1997 03 11.22292	13 01 07.11	-04 22 03.4	4 809	1997 EZ ₅₇	1997 03 11.19653	13 02 51.95	-05 38 30.6	4 809
1997 ER ₅₇	* 1997 03 10.26875	13 02 07.20	-06 07 28.4	18.6 4 809	1997 EZ ₅₇	1997 03 11.20972	13 02 51.33	-05 38 29.4	4 809
1997 ER ₅₇	1997 03 10.28194	13 02 06.67	-06 07 24.3	4 809	1997 EZ ₅₇	1997 03 11.22292	13 02 50.90	-05 38 28.5	4 809
1997 ER ₅₇	1997 03 10.29514	13 02 06.26	-06 07 23.3	4 809	1997 EA ₅₈	* 1997 03 10.26875	13 03 35.62	-02 44 00.0	18.8 4 809
1997 ER ₅₇	1997 03 11.19653	13 01 35.74	-06 03 30.2	4 809	1997 EA ₅₈	1997 03 10.28194	13 03 35.12	-02 43 57.2	4 809
1997 ER ₅₇	1997 03 11.20972	13 01 35.22	-06 03 26.3	4 809	1997 EA ₅₈	1997 03 10.29514	13 03 34.63	-02 43 54.6	4 809
1997 ER ₅₇	1997 03 11.22292	13 01 34.76	-06 03 22.8	4 809	1997 EA ₅₈	1997 03 11.19653	13 03 02.48	-02 40 16.1	4 809
1997 ES ₅₇	* 1997 03 10.26875	13 02 08.61	-05 00 09.1	18.5 4 809	1997 EA ₅₈	1997 03 11.20972	13 03 02.02	-02 40 14.9	4 809
1997 ES ₅₇	1997 03 10.28194	13 02 08.06	-05 00 06.3	4 809	1997 EA ₅₈	1997 03 11.22292	13 03 01.51	-02 40 11.6	4 809
1997 ES ₅₇	1997 03 10.29514	13 02 07.44	-05 00 02.8	4 809	1997 EB ₅₈	* 1997 03 10.26875	13 03 48.68	-05 33 30.6	19.5 4 809
1997 ES ₅₇	1997 03 11.19653	13 01 31.55	-04 56 44.5	4 809	1997 EB ₅₈	1997 03 10.28194	13 03 48.15	-05 33 27.2	4 809
1997 ES ₅₇	1997 03 11.20972	13 01 30.99	-04 56 41.9	4 809	1997 EB ₅₈	1997 03 10.29514	13 03 47.73	-05 33 27.5	4 809
1997 ES ₅₇	1997 03 11.22292	13 01 30.34	-04 56 39.5	4 809	1997 EB ₅₈	1997 03 11.19653	13 03 17.19	-05 30 22.8	4 809
1997 ET ₅₇	* 1997 03 10.26875	13 02 12.19	-03 14 47.6	18.7 4 809	1997 EB ₅₈	1997 03 11.20972	13 03 16.78	-05 30 21.1	4 809
1997 ET ₅₇	1997 03 10.28194	13 02 11.70	-03 14 44.0	4 809	1997 EB ₅₈	1997 03 11.22292	13 03 16.33	-05 30 16.5	4 809
1997 ET ₅₇	1997 03 10.29514	13 02 11.17	-03 14 40.7	4 809	1997 EC ₅₈	* 1997 03 10.26875	13 03 53.81	-02 31 15.8	18.3 4 809
1997 ET ₅₇	1997 03 11.19653	13 01 40.92	-03 10 39.0	4 809	1997 EC ₅₈	1997 03 10.28194	13 03 53.23	-02 31 15.9	4 809
1997 ET ₅₇	1997 03 11.20972	13 01 40.42	-03 10 34.3	4 809	1997 EC ₅₈	1997 03 10.29514	13 03 52.65	-02 31 16.6	4 809
1997 ET ₅₇	1997 03 11.22292	13 01 39.94	-03 10 31.2	4 809	1997 EC ₅₈	1997 03 11.19653	13 03 14.19	-02 31 33.6	4 809
1997 EU ₅₇	* 1997 03 10.26875	13 02 25.48	-07 04 52.2	18.6 4 809	1997 EC ₅₈	1997 03 11.20972	13 03 13.59	-02 31 33.8	4 809

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1997 EC ₅₈	1997 03 11.22292	13 03 12.96	-02 31 33.7		4 809	1997 EN ₅₈	1997 03 11.19653	13 05 36.86	-06 08 40.8		4 809
1997 ED ₅₈	* 1997 03 10.26875	13 03 54.51	-02 41 49.1	19.3	4 809	1997 EN ₅₈	1997 03 11.20972	13 05 36.31	-06 08 39.2		4 809
1997 ED ₅₈	1997 03 10.28194	13 03 53.89	-02 41 47.0		4 809	1997 EN ₅₈	1997 03 11.22292	13 05 35.85	-06 08 38.1		4 809
1997 ED ₅₈	1997 03 10.29514	13 03 53.39	-02 41 45.1		4 809	1997 EO ₅₈	* 1997 03 10.26875	13 06 30.04	-03 02 34.2	18.5	4 809
1997 ED ₅₈	1997 03 11.19653	13 03 19.51	-02 39 46.3		4 809	1997 EO ₅₈	1997 03 10.28194	13 06 29.43	-03 02 32.3		4 809
1997 ED ₅₈	1997 03 11.20972	13 03 19.01	-02 39 43.8		4 809	1997 EO ₅₈	1997 03 10.29514	13 06 28.83	-03 02 29.9		4 809
1997 ED ₅₈	1997 03 11.22292	13 03 18.36	-02 39 42.5		4 809	1997 EO ₅₈	1997 03 11.19653	13 05 50.43	-02 59 53.3		4 809
1997 EF ₅₈	* 1997 03 10.26875	13 04 26.72	-03 15 03.9	18.5	4 809	1997 EO ₅₈	1997 03 11.20972	13 05 49.89	-02 59 50.2		4 809
1997 EF ₅₈	1997 03 10.28194	13 04 26.24	-03 14 57.3		4 809	1997 EO ₅₈	1997 03 11.22292	13 05 49.26	-02 59 47.9		4 809
1997 EF ₅₈	1997 03 10.29514	13 04 25.66	-03 14 49.0		4 809	1997 EP ₅₈	* 1997 03 10.26875	13 07 12.40	-06 23 15.5	19.0	4 809
1997 EF ₅₈	1997 03 11.19653	13 03 53.78	-03 06 16.3		4 809	1997 EP ₅₈	1997 03 10.28194	13 07 11.87	-06 23 12.8		4 809
1997 EF ₅₈	1997 03 11.20972	13 03 53.23	-03 06 08.8		4 809	1997 EP ₅₈	1997 03 10.29514	13 07 11.45	-06 23 11.5		4 809
1997 EF ₅₈	1997 03 11.22292	13 03 52.74	-03 06 01.5		4 809	1997 EP ₅₈	1997 03 11.19653	13 06 39.57	-06 20 47.0		4 809
1997 EG ₅₈	* 1997 03 10.26875	13 04 31.98	-04 10 02.2	18.4	4 809	1997 EP ₅₈	1997 03 11.20972	13 06 38.93	-06 20 44.3		4 809
1997 EG ₅₈	1997 03 10.28194	13 04 31.45	-04 10 00.6		4 809	1997 EP ₅₈	1997 03 11.22292	13 06 38.54	-06 20 41.2		4 809
1997 EG ₅₈	1997 03 10.29514	13 04 30.90	-04 09 59.1		4 809	1997 EQ ₅₈	* 1997 03 10.26875	13 07 24.04	-03 43 23.9	18.5	4 809
1997 EG ₅₈	1997 03 11.19653	13 03 56.76	-04 08 07.5		4 809	1997 EQ ₅₈	1997 03 10.28194	13 07 23.51	-03 43 20.5		4 809
1997 EG ₅₈	1997 03 11.20972	13 03 56.20	-04 08 06.1		4 809	1997 EQ ₅₈	1997 03 10.29514	13 07 23.09	-03 43 17.7		4 809
1997 EG ₅₈	1997 03 11.22292	13 03 55.67	-04 08 04.4		4 809	1997 EQ ₅₈	1997 03 11.19653	13 06 53.81	-03 39 52.8		4 809
1997 EH ₅₈	* 1997 03 10.26875	13 04 38.86	-02 55 20.6	18.6	4 809	1997 EQ ₅₈	1997 03 11.20972	13 06 53.49	-03 39 49.0		4 809
1997 EH ₅₈	1997 03 10.28194	13 04 38.32	-02 55 17.4		4 809	1997 EQ ₅₈	1997 03 11.22292	13 06 53.05	-03 39 46.5		4 809
1997 EH ₅₈	1997 03 10.29514	13 04 37.82	-02 55 14.4		4 809	1997 ER ₅₈	* 1997 03 10.26875	13 07 45.87	-02 38 00.6	18.5	4 809
1997 EH ₅₈	1997 03 11.19653	13 04 05.70	-02 51 03.2		4 809	1997 ER ₅₈	1997 03 10.28194	13 07 45.36	-02 37 57.7		4 809
1997 EH ₅₈	1997 03 11.20972	13 04 05.25	-02 50 58.9		4 809	1997 ER ₅₈	1997 03 10.29514	13 07 44.80	-02 37 53.9		4 809
1997 EH ₅₈	1997 03 11.22292	13 04 04.70	-02 50 55.2		4 809	1997 ER ₅₈	1997 03 11.19653	13 07 09.36	-02 33 57.3		4 809
1997 EJ ₅₈	* 1997 03 10.26875	13 04 45.78	-02 43 17.7	19.0	4 809	1997 ER ₅₈	1997 03 11.20972	13 07 08.81	-02 33 54.0		4 809
1997 EJ ₅₈	1997 03 10.28194	13 04 45.16	-02 43 15.9		4 809	1997 ER ₅₈	1997 03 11.22292	13 07 08.28	-02 33 50.1		4 809
1997 EJ ₅₈	1997 03 10.29514	13 04 44.67	-02 43 13.0		4 809	1997 ES ₅₈	* 1997 03 10.26875	13 07 56.87	-02 48 55.4	18.4	4 809
1997 EJ ₅₈	1997 03 11.19653	13 04 10.68	-02 40 01.6		4 809	1997 ES ₅₈	1997 03 10.28194	13 07 56.34	-02 48 50.9		4 809
1997 EJ ₅₈	1997 03 11.20972	13 04 10.09	-02 39 58.5		4 809	1997 ES ₅₈	1997 03 10.29514	13 07 55.87	-02 48 45.4		4 809
1997 EJ ₅₈	1997 03 11.22292	13 04 09.59	-02 39 56.7		4 809	1997 ES ₅₈	1997 03 11.19653	13 07 24.21	-02 43 14.9		4 809
1997 EK ₅₈	* 1997 03 10.26875	13 04 59.63	-06 56 10.6	18.6	4 809	1997 ES ₅₈	1997 03 11.20972	13 07 23.74	-02 43 10.5		4 809
1997 EK ₅₈	1997 03 10.28194	13 04 59.10	-06 56 10.6		4 809	1997 ES ₅₈	1997 03 11.22292	13 07 23.29	-02 43 05.7		4 809
1997 EK ₅₈	1997 03 10.29514	13 04 58.52	-06 56 12.1		4 809	1997 ET ₅₈	* 1997 03 10.26875	13 08 25.52	-03 05 22.9	18.4	4 809
1997 EK ₅₈	1997 03 11.19653	13 04 24.10	-06 56 36.6		4 809	1997 ET ₅₈	1997 03 10.28194	13 08 25.03	-03 05 20.3		4 809
1997 EK ₅₈	1997 03 11.20972	13 04 23.45	-06 56 37.5		4 809	1997 ET ₅₈	1997 03 10.29514	13 08 24.55	-03 05 16.5		4 809
1997 EK ₅₈	1997 03 11.22292	13 04 22.95	-06 56 37.7		4 809	1997 ET ₅₈	1997 03 11.19653	13 07 53.46	-03 01 47.3		4 809
1997 EL ₅₈	* 1997 03 10.26875	13 05 09.91	-02 51 20.1	18.6	4 809	1997 ET ₅₈	1997 03 11.20972	13 07 52.94	-03 01 44.3		4 809
1997 EL ₅₈	1997 03 10.28194	13 05 09.49	-02 51 15.2		4 809	1997 ET ₅₈	1997 03 11.22292	13 07 52.50	-03 01 41.2		4 809
1997 EL ₅₈	1997 03 10.29514	13 05 08.99	-02 51 09.4		4 809	1997 EU ₅₈	* 1997 03 10.26875	13 08 27.08	-03 20 58.0	18.8	4 809
1997 EL ₅₈	1997 03 11.19653	13 04 39.68	-02 44 47.3		4 809	1997 EU ₅₈	1997 03 10.28194	13 08 26.62	-03 20 54.8		4 809
1997 EL ₅₈	1997 03 11.20972	13 04 39.20	-02 44 42.2		4 809	1997 EU ₅₈	1997 03 10.29514	13 08 26.20	-03 20 51.3		4 809
1997 EL ₅₈	1997 03 11.22292	13 04 38.75	-02 44 37.1		4 809	1997 EU ₅₈	1997 03 11.19653	13 07 56.27	-03 17 16.2		4 809
1997 EM ₅₈	* 1997 03 10.26875	13 05 10.16	-03 06 00.2	18.3	4 809	1997 EU ₅₈	1997 03 11.20972	13 07 55.78	-03 17 13.4		4 809
1997 EM ₅₈	1997 03 10.28194	13 05 09.65	-03 05 53.8		4 809	1997 EU ₅₈	1997 03 11.22292	13 07 55.37	-03 17 11.2		4 809
1997 EM ₅₈	1997 03 10.29514	13 05 09.17	-03 05 47.9		4 809	1997 EV ₅₈	* 1997 03 10.26875	13 08 34.61	-03 34 10.1	18.3	4 809
1997 EM ₅₈	1997 03 11.19653	13 04 38.93	-02 59 16.5		4 809	1997 EV ₅₈	1997 03 10.28194	13 08 34.13	-03 34 03.6		4 809
1997 EM ₅₈	1997 03 11.20972	13 04 38.43	-02 59 10.9		4 809	1997 EV ₅₈	1997 03 10.29514	13 08 33.64	-03 33 57.7		4 809
1997 EM ₅₈	1997 03 11.22292	13 04 37.95	-02 59 04.9		4 809	1997 EV ₅₈	1997 03 11.19653	13 08 01.02	-03 27 11.3		4 809
1997 EN ₅₈	* 1997 03 10.26875	13 06 08.76	-06 10 38.6	19.0	4 809	1997 EV ₅₈	1997 03 11.20972	13 08 00.47	-03 27 05.6		4 809
1997 EN ₅₈	1997 03 10.28194	13 06 08.19	-06 10 37.9		4 809	1997 EV ₅₈	1997 03 11.22292	13 07 59.97	-03 26 59.1		4 809
1997 EN ₅₈	1997 03 10.29514	13 06 07.77	-06 10 36.1		4 809	1997 EW ₅₈	* 1997 03 10.26875	13 08 48.88	-03 29 45.5	18.5	4 809

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1997 EW ₅₈	1997 03 10.28194	13 08 48.43	-03 29 42.4	4 809	1997 FO ₂	1997 03 11.22292	13 02 46.90	-06 27 47.9		4 809
1997 EW ₅₈	1997 03 10.29514	13 08 47.95	-03 29 39.2	4 809	1997 FQ ₂	1997 03 10.26875	13 02 41.06	-07 11 00.0	18.8	4 809
1997 EW ₅₈	1997 03 11.19653	13 08 19.37	-03 26 25.5	4 809	1997 FQ ₂	1997 03 10.28194	13 02 40.63	-07 10 53.8		4 809
1997 EW ₅₈	1997 03 11.20972	13 08 18.94	-03 26 21.4	4 809	1997 FQ ₂	1997 03 10.29514	13 02 40.28	-07 10 48.7		4 809
1997 EW ₅₈	1997 03 11.22292	13 08 18.49	-03 26 19.0	4 809	1997 FQ ₂	1997 03 11.19653	13 02 15.34	-07 04 24.6		4 809
1997 EX ₅₈	* 1997 03 10.26875	13 08 54.86	-03 22 46.2	18.4 4 809	1997 FQ ₂	1997 03 11.20972	13 02 14.86	-07 04 16.5		4 809
1997 EX ₅₈	1997 03 10.28194	13 08 54.28	-03 22 42.2	4 809	1997 FQ ₂	1997 03 11.22292	13 02 14.43	-07 04 10.8		4 809
1997 EX ₅₈	1997 03 10.29514	13 08 53.73	-03 22 38.1	4 809	1997 FR ₂	1997 03 11.19653	13 10 42.64	-06 06 10.6	18.8	4 809
1997 EX ₅₈	1997 03 11.19653	13 08 18.80	-03 17 51.9	4 809	1997 FR ₂	1997 03 11.20972	13 10 41.99	-06 06 10.6		4 809
1997 EX ₅₈	1997 03 11.20972	13 08 18.28	-03 17 48.7	4 809	1997 FR ₂	1997 03 11.22292	13 10 41.28	-06 06 09.9		4 809
1997 EX ₅₈	1997 03 11.22292	13 08 17.71	-03 17 44.0	4 809	1997 FK ₃	1997 03 10.26875	13 06 07.01	-06 03 24.3	19.2	4 809
1997 EY ₅₈	* 1997 03 10.26875	13 09 27.01	-05 42 47.4	18.5 4 809	1997 FK ₃	1997 03 10.28194	13 06 06.55	-06 03 18.6		4 809
1997 EY ₅₈	1997 03 10.28194	13 09 26.60	-05 42 41.7	4 809	1997 FK ₃	1997 03 10.29514	13 06 06.09	-06 03 12.6		4 809
1997 EY ₅₈	1997 03 10.29514	13 09 26.18	-05 42 35.8	4 809	1997 FK ₃	1997 03 11.19653	13 05 36.66	-05 56 55.2		4 809
1997 EY ₅₈	1997 03 11.19653	13 09 00.22	-05 36 04.6	4 809	1997 FK ₃	1997 03 11.20972	13 05 36.11	-05 56 48.1		4 809
1997 EY ₅₈	1997 03 11.20972	13 08 59.87	-05 35 59.8	4 809	1997 FK ₃	1997 03 11.22292	13 05 35.61	-05 56 42.1		4 809
1997 EY ₅₈	1997 03 11.22292	13 08 59.42	-05 35 52.6	4 809	1997 FN ₃	1997 03 10.26875	13 10 56.25	-04 23 19.5	18.5	4 809
1997 EZ ₅₈	* 1997 03 10.26875	13 09 42.85	-03 34 30.8	18.7 4 809	1997 FN ₃	1997 03 10.28194	13 10 55.65	-04 23 17.9		4 809
1997 EZ ₅₈	1997 03 10.28194	13 09 42.31	-03 34 27.6	4 809	1997 FN ₃	1997 03 10.29514	13 10 55.19	-04 23 15.0		4 809
1997 EZ ₅₈	1997 03 10.29514	13 09 41.80	-03 34 24.7	4 809	1997 FN ₃	1997 03 11.19653	13 10 19.83	-04 20 33.6		4 809
1997 EZ ₅₈	1997 03 11.19653	13 09 10.07	-03 30 34.4	4 809	1997 FN ₃	1997 03 11.20972	13 10 19.25	-04 20 31.9		4 809
1997 EZ ₅₈	1997 03 11.20972	13 09 09.58	-03 30 30.9	4 809	1997 FN ₃	1997 03 11.22292	13 10 18.77	-04 20 28.8		4 809
1997 EZ ₅₈	1997 03 11.22292	13 09 08.99	-03 30 27.3	4 809	1997 FO ₃	1997 03 10.26875	13 07 18.32	-05 06 02.4	18.5	4 809
1997 EA ₅₉	* 1997 03 10.26875	13 09 54.15	-03 57 43.7	18.5 4 809	1997 FO ₃	1997 03 10.28194	13 07 17.86	-05 05 58.1		4 809
1997 EA ₅₉	1997 03 10.28194	13 09 53.44	-03 57 41.1	4 809	1997 FO ₃	1997 03 10.29514	13 07 17.44	-05 05 54.5		4 809
1997 EA ₅₉	1997 03 10.29514	13 09 52.83	-03 57 38.0	4 809	1997 FO ₃	1997 03 11.19653	13 06 49.20	-05 01 23.9		4 809
1997 EA ₅₉	1997 03 11.19653	13 09 11.08	-03 54 25.7	4 809	1997 FO ₃	1997 03 11.20972	13 06 48.85	-05 01 19.8		4 809
1997 EA ₅₉	1997 03 11.20972	13 09 10.42	-03 54 23.4	4 809	1997 FO ₃	1997 03 11.22292	13 06 48.37	-05 01 15.4		4 809
1997 EA ₅₉	1997 03 11.22292	13 09 09.79	-03 54 19.9	4 809	1997 FA ₅	1997 03 10.26875	13 01 32.41	-06 55 54.4	18.5	4 809
1997 FX	1997 03 10.26875	12 55 55.87	-03 17 31.1	18.5 4 809	1997 FA ₅	1997 03 10.28194	13 01 32.02	-06 55 49.7		4 809
1997 FX	1997 03 10.28194	12 55 55.24	-03 17 29.4	4 809	1997 FA ₅	1997 03 10.29514	13 01 31.61	-06 55 45.8		4 809
1997 FX	1997 03 10.29514	12 55 54.71	-03 17 28.4	4 809	1997 FA ₅	1997 03 11.19653	13 01 07.10	-06 50 52.2		4 809
1997 FX	1997 03 11.19653	12 55 17.21	-03 15 49.4	4 809	1997 FA ₅	1997 03 11.20972	13 01 06.64	-06 50 46.9		4 809
1997 FX	1997 03 11.20972	12 55 16.61	-03 15 48.7	4 809	1997 FA ₅	1997 03 11.22292	13 01 06.25	-06 50 42.5		4 809
1997 FX	1997 03 11.22292	12 55 16.04	-03 15 46.9	4 809	1997 FB ₅	1997 03 10.26875	13 05 56.59	-06 40 32.6	18.7	4 809
1997 FM ₂	1997 03 10.26875	13 09 33.93	-03 50 14.8	18.5 4 809	1997 FB ₅	1997 03 10.28194	13 05 55.95	-06 40 30.0		4 809
1997 FM ₂	1997 03 10.28194	13 09 33.28	-03 50 12.6	4 809	1997 FB ₅	1997 03 10.29514	13 05 55.48	-06 40 28.2		4 809
1997 FM ₂	1997 03 10.29514	13 09 32.68	-03 50 11.2	4 809	1997 FB ₅	1997 03 11.19653	13 05 20.47	-06 37 25.5		4 809
1997 FM ₂	1997 03 11.19653	13 08 51.33	-03 47 45.0	4 809	1997 FB ₅	1997 03 11.20972	13 05 19.85	-06 37 24.0		4 809
1997 FM ₂	1997 03 11.20972	13 08 50.68	-03 47 43.1	4 809	1997 FB ₅	1997 03 11.22292	13 05 19.28	-06 37 21.8		4 809
1997 FM ₂	1997 03 11.22292	13 08 50.07	-03 47 41.2	4 809	1997 FC ₅	1997 03 11.19653	13 06 55.36	-04 53 17.3		4 809
1997 FN ₂	1997 03 10.26875	13 07 18.36	-03 59 48.1	18.4 4 809	1997 FC ₅	1997 03 11.20972	13 06 54.85	-04 53 13.5		4 809
1997 FN ₂	1997 03 10.28194	13 07 17.81	-03 59 46.6	4 809	1997 FC ₅	1997 03 11.22292	13 06 54.41	-04 53 09.4		4 809
1997 FN ₂	1997 03 10.29514	13 07 17.30	-03 59 44.5	4 809	1997 FE ₅	1997 03 10.26875	12 56 01.31	-03 37 34.1	18.6	4 809
1997 FN ₂	1997 03 11.19653	13 06 44.40	-03 57 15.7	4 809	1997 FE ₅	1997 03 10.28194	12 56 00.82	-03 37 32.3		4 809
1997 FN ₂	1997 03 11.20972	13 06 43.85	-03 57 12.8	4 809	1997 FE ₅	1997 03 10.29514	12 56 00.30	-03 37 29.2		4 809
1997 FN ₂	1997 03 11.22292	13 06 43.34	-03 57 10.4	4 809	1997 FE ₅	1997 03 11.19653	12 55 27.63	-03 34 20.3		4 809
1997 FO ₂	1997 03 10.26875	13 03 13.53	-06 34 56.3	18.5 4 809	1997 FE ₅	1997 03 11.20972	12 55 27.10	-03 34 17.1		4 809
1997 FO ₂	1997 03 10.28194	13 03 13.05	-06 34 49.2	4 809	1997 FE ₅	1997 03 11.22292	12 55 26.58	-03 34 15.8		4 809
1997 FO ₂	1997 03 10.29514	13 03 12.73	-06 34 44.5	4 809	1997 GR ₈	1997 03 10.26875	13 09 02.84	-05 17 52.2	20.0	4 809
1997 FO ₂	1997 03 11.19653	13 02 47.70	-06 28 00.1	4 809	1997 GR ₈	1997 03 10.28194	13 09 02.29	-05 17 50.5		4 809
1997 FO ₂	1997 03 11.20972	13 02 47.24	-06 27 54.3	4 809	1997 GR ₈	1997 03 10.29514	13 09 01.80	-05 17 49.9		4 809

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1997 GR ₈	1997 03 11.19653	13 08 28.52	-05 16 03.0	4 809	1997 HK ₁₆	1997 03 11.20972	13 01 10.11	-06 55 22.0	4 809
1997 GR ₈	1997 03 11.20972	13 08 28.09	-05 16 01.2	4 809	1997 HK ₁₆	1997 03 11.22292	13 01 09.52	-06 55 19.4	4 809
1997 GR ₈	1997 03 11.22292	13 08 27.54	-05 16 00.8	4 809	1997 JS ₁₈	1997 03 10.26875	13 04 00.13	-03 08 37.1	18.5 4 809
1997 GZ ₃₆	1997 03 10.26875	13 04 55.37	-03 46 16.7	18.6 4 809	1997 JS ₁₈	1997 03 10.28194	13 03 59.63	-03 08 34.0	4 809
1997 GZ ₃₆	1997 03 10.28194	13 04 54.84	-03 46 14.7	4 809	1997 JS ₁₈	1997 03 10.29514	13 03 59.20	-03 08 31.1	4 809
1997 GZ ₃₆	1997 03 10.29514	13 04 54.30	-03 46 14.5	4 809	1997 JS ₁₈	1997 03 11.19653	13 03 28.82	-03 05 12.3	4 809
1997 GZ ₃₆	1997 03 11.19653	13 04 20.32	-03 44 37.9	4 809	1997 JS ₁₈	1997 03 11.20972	13 03 28.35	-03 05 09.4	4 809
1997 GZ ₃₆	1997 03 11.20972	13 04 19.83	-03 44 35.8	4 809	1997 JS ₁₈	1997 03 11.22292	13 03 27.88	-03 05 07.0	4 809
1997 GZ ₃₆	1997 03 11.22292	13 04 19.33	-03 44 34.8	4 809	1997 QW	* 1997 08 28.00925	16 31 51.33	-14 56 35.3	17.0 V 9 809
1997 HO ₁	1997 03 10.26875	12 58 36.24	-07 30 54.0	18.7 4 809	1997 QW	1997 08 28.01350	16 31 51.61	-14 56 36.8	9 809
1997 HO ₁	1997 03 10.28194	12 58 35.65	-07 30 50.3	4 809	1997 QW	1997 08 28.01773	16 31 51.89	-14 56 38.3	9 809
1997 HO ₁	1997 03 10.29514	12 58 35.05	-07 30 47.6	4 809	1997 QW	1997 08 28.02197	16 31 52.17	-14 56 39.8	9 809
1997 HO ₁	1997 03 11.19653	12 57 58.52	-07 26 55.8	4 809	1997 QW	1997 08 28.02622	16 31 52.45	-14 56 41.3	9 809
1997 HO ₁	1997 03 11.20972	12 57 57.94	-07 26 51.7	4 809	1997 QW	1997 08 28.03045	16 31 52.73	-14 56 42.8	9 809
1997 HO ₁	1997 03 11.22292	12 57 57.35	-07 26 49.3	4 809	1997 QW	1997 08 28.06846	16 31 55.24	-14 56 56.1	9 809
1997 HQ ₁	1997 03 10.26875	13 07 45.21	-05 55 10.6	18.4 4 809	1997 QW	1997 08 28.07271	16 31 55.52	-14 56 57.7	9 809
1997 HQ ₁	1997 03 10.28194	13 07 44.64	-05 55 09.3	4 809	1997 QW	1997 08 28.11529	16 31 58.35	-14 57 12.7	9 809
1997 HQ ₁	1997 03 10.29514	13 07 44.09	-05 55 08.0	4 809	1997 QW	1997 08 28.11955	16 31 58.63	-14 57 14.1	9 809
1997 HQ ₁	1997 03 11.19653	13 07 10.76	-05 53 33.4	4 809	1997 QW	1997 08 28.12391	16 31 58.91	-14 57 15.5	9 809
1997 HQ ₁	1997 03 11.20972	13 07 10.20	-05 53 31.5	4 809	1997 QW	1997 08 28.97253	16 32 56.82	-15 02 19.5	9 809
1997 HQ ₁	1997 03 11.22292	13 07 09.67	-05 53 30.7	4 809	1997 QW	1997 08 28.97684	16 32 57.11	-15 02 21.1	9 809
1997 HV ₂	1997 03 10.26875	12 59 52.65	-05 54 03.4	18.7 4 809	1997 QW	1997 08 28.98245	16 32 57.47	-15 02 23.0	9 809
1997 HV ₂	1997 03 10.28194	12 59 52.05	-05 54 02.9	4 809	2098 P-L	1997 03 10.26875	12 52 15.86	-07 05 22.4	18.4 4 809
1997 HV ₂	1997 03 10.29514	12 59 51.50	-05 53 59.6	4 809	2098 P-L	1997 03 10.28194	12 52 15.30	-07 05 17.4	4 809
1997 HV ₂	1997 03 11.19653	12 59 14.40	-05 51 51.5	4 809	2098 P-L	1997 03 10.29514	12 52 14.77	-07 05 12.0	4 809
1997 HV ₂	1997 03 11.20972	12 59 13.85	-05 51 51.3	4 809	2098 P-L	1997 03 11.19653	12 51 40.88	-06 59 26.1	4 809
1997 HV ₂	1997 03 11.22292	12 59 13.22	-05 51 49.5	4 809	2098 P-L	1997 03 11.20972	12 51 40.33	-06 59 20.8	4 809
1997 HC ₃	1997 03 09.26944	12 54 50.62	-06 57 25.1	18.6 4 809	2098 P-L	1997 03 11.22292	12 51 39.83	-06 59 16.1	4 809
1997 HC ₃	1997 03 09.28264	12 54 50.16	-06 57 22.2	4 809	3051 T-1	1997 03 10.26875	13 03 01.93	-06 51 38.2	18.5 4 809
1997 HC ₃	1997 03 09.29583	12 54 49.82	-06 57 19.5	4 809	3051 T-1	1997 03 10.28194	13 03 01.49	-06 51 32.4	4 809
1997 HC ₃	1997 03 10.26875	12 54 22.82	-06 53 40.1	18.5 4 809	3051 T-1	1997 03 10.29514	13 03 01.10	-06 51 27.5	4 809
1997 HC ₃	1997 03 10.28194	12 54 22.47	-06 53 37.3	4 809	3051 T-1	1997 03 11.19653	13 02 33.78	-06 45 54.3	4 809
1997 HC ₃	1997 03 10.29514	12 54 22.05	-06 53 34.4	4 809	3051 T-1	1997 03 11.20972	13 02 33.39	-06 45 50.4	4 809
1997 HC ₃	1997 03 11.19653	12 53 56.39	-06 50 02.5	4 809	3051 T-1	1997 03 11.22292	13 02 32.91	-06 45 45.6	4 809
1997 HC ₃	1997 03 11.20972	12 53 56.03	-06 50 00.3	4 809	3212 T-1	1997 03 10.26875	12 55 26.90	-05 39 41.0	18.2 4 809
1997 HC ₃	1997 03 11.22292	12 53 55.57	-06 49 57.9	4 809	3212 T-1	1997 03 10.28194	12 55 26.18	-05 39 39.1	4 809
1997 HL ₃	1997 03 10.26875	12 59 41.26	-05 44 07.6	18.5 4 809	3212 T-1	1997 03 10.29514	12 55 25.54	-05 39 36.6	4 809
1997 HL ₃	1997 03 10.28194	12 59 40.71	-05 44 07.8	4 809	3212 T-1	1997 03 11.19653	12 54 41.27	-05 36 52.1	4 809
1997 HL ₃	1997 03 10.29514	12 59 40.14	-05 44 06.8	4 809	3212 T-1	1997 03 11.20972	12 54 40.58	-05 36 49.8	4 809
1997 HL ₃	1997 03 11.19653	12 59 05.40	-05 43 12.9	4 809	3212 T-1	1997 03 11.22292	12 54 39.89	-05 36 47.6	4 809
1997 HL ₃	1997 03 11.20972	12 59 04.85	-05 43 12.0	4 809	2258 T-2	1997 03 10.26875	13 03 03.61	-04 55 39.9	18.8 4 809
1997 HL ₃	1997 03 11.22292	12 59 04.25	-05 43 11.4	4 809	2258 T-2	1997 03 10.28194	13 03 03.08	-04 55 36.3	4 809
1997 HE ₁₄	1997 03 10.26875	12 54 36.63	-07 22 03.6	18.4 4 809	2258 T-2	1997 03 10.29514	13 03 02.64	-04 55 33.8	4 809
1997 HE ₁₄	1997 03 10.28194	12 54 36.13	-07 22 01.3	4 809	2258 T-2	1997 03 11.19653	13 02 29.58	-04 51 15.4	4 809
1997 HE ₁₄	1997 03 10.29514	12 54 35.60	-07 21 59.4	4 809	2258 T-2	1997 03 11.20972	13 02 29.12	-04 51 12.2	4 809
1997 HE ₁₄	1997 03 11.19653	12 54 02.29	-07 18 48.5	4 809	2258 T-2	1997 03 11.22292	13 02 28.70	-04 51 09.9	4 809
1997 HE ₁₄	1997 03 11.20972	12 54 01.75	-07 18 45.5	4 809	(161)	1997 03 10.26875	13 09 20.70	-04 12 16.3	15.0 4 809
1997 HE ₁₄	1997 03 11.22292	12 54 01.26	-07 18 43.0	4 809	(161)	1997 03 10.28194	13 09 20.22	-04 12 14.7	4 809
1997 HK ₁₆	1997 03 10.26875	13 01 43.68	-06 58 28.8	18.5 4 809	(161)	1997 03 10.29514	13 09 19.57	-04 12 13.7	4 809
1997 HK ₁₆	1997 03 10.28194	13 01 43.17	-06 58 26.5	4 809	(161)	1997 03 11.19653	13 08 40.59	-04 10 46.3	4 809
1997 HK ₁₆	1997 03 10.29514	13 01 42.68	-06 58 25.6	4 809	(161)	1997 03 11.20972	13 08 39.91	-04 10 45.7	4 809
1997 HK ₁₆	1997 03 11.19653	13 01 10.57	-06 55 24.0	4 809	(161)	1997 03 11.22292	13 08 39.27	-04 10 44.2	4 809

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(300)	1997 03 10.26875	12 52 26.29	-04 57 25.6	17.5	4 809	(2499)	1997 03 10.28194	12 57 36.35	-06 15 56.5	4 809
(300)	1997 03 10.28194	12 52 25.81	-04 57 22.2		4 809	(2499)	1997 03 10.29514	12 57 35.91	-06 15 53.8	4 809
(300)	1997 03 10.29514	12 52 25.30	-04 57 19.6		4 809	(2499)	1997 03 11.19653	12 57 06.65	-06 12 36.3	4 809
(300)	1997 03 11.19653	12 51 53.94	-04 54 03.9		4 809	(2499)	1997 03 11.20972	12 57 06.18	-06 12 33.8	4 809
(300)	1997 03 11.20972	12 51 53.39	-04 54 01.6		4 809	(2499)	1997 03 11.22292	12 57 05.71	-06 12 30.8	4 809
(300)	1997 03 11.22292	12 51 52.88	-04 53 59.1		4 809	(3945)	1997 03 10.26875	12 55 35.33	-05 54 04.6	18.4 4 809
(831)	1997 03 10.26875	12 52 19.83	-04 42 05.5	17.8	4 809	(3945)	1997 03 10.28194	12 55 34.82	-05 54 02.2	4 809
(831)	1997 03 10.28194	12 52 19.16	-04 42 00.1		4 809	(3945)	1997 03 10.29514	12 55 34.32	-05 53 59.7	4 809
(831)	1997 03 10.29514	12 52 18.51	-04 41 54.4		4 809	(3945)	1997 03 11.19653	12 55 02.66	-05 50 59.1	4 809
(831)	1997 03 11.19653	12 51 37.66	-04 35 31.2		4 809	(3945)	1997 03 11.20972	12 55 02.18	-05 50 56.6	4 809
(831)	1997 03 11.20972	12 51 36.99	-04 35 25.8		4 809	(3945)	1997 03 11.22292	12 55 01.65	-05 50 54.2	4 809
(831)	1997 03 11.22292	12 51 36.37	-04 35 20.3		4 809	(4412)	1997 03 10.26875	13 08 27.23	-04 45 29.4	18.5 4 809
(938)	1997 03 10.26875	12 56 33.97	-02 27 39.9	18.3	4 809	(4412)	1997 03 10.28194	13 08 26.75	-04 45 25.6	4 809
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(938)	1997 03 10.29514	12 56 33.02	-02 27 33.7		4 809	(4412)	1997 03 11.19653	13 07 57.67	-04 41 48.0	4 809
(981)	1997 03 10.26875	12 56 16.71	-04 09 33.0	18.0	4 809	(4412)	1997 03 11.20972	13 07 57.17	-04 41 44.7	4 809
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(1423)	1997 03 10.26875	13 10 05.40	-04 01 35.5	18.0	4 809	(5125)	1997 03 11.20972	12 52 37.64	-03 13 09.7	4 809
(1423)	1997 03 10.28194	13 10 04.96	-04 01 33.2		4 809	(5125)	1997 03 11.22292	12 52 36.97	-03 13 07.1	4 809
(1423)	1997 03 10.29514	13 10 04.40	-04 01 29.9		4 809	(5210)	1997 03 10.26875	12 58 03.51	-06 32 22.0	18.4 4 809
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(1451)	1997 03 11.20972	13 10 03.20	-05 42 33.9		4 809	(5837)	1997 03 10.29514	13 05 32.11	-03 35 04.4	4 809
(1451)	1997 03 11.22292	13 10 02.83	-05 42 28.3		4 809	(5837)	1997 03 11.19653	13 05 04.20	-03 31 30.4	4 809
(1500)	1997 03 10.26875	13 05 28.36	-04 01 38.5	17.9	4 809	(5837)	1997 03 11.20972	13 05 03.78	-03 31 27.6	4 809
(1500)	1997 03 10.28194	13 05 27.65	-04 01 35.5		4 809	(5837)	1997 03 11.22292	13 05 03.32	-03 31 24.0	4 809
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(1519)	1997 03 10.26875	12 54 09.84	-03 08 41.9	18.3	4 809	(6146)	1997 03 11.20972	13 05 35.60	-03 16 11.6	4 809
(1519)	1997 03 10.28194	12 54 09.31	-03 08 40.1		4 809	(6146)	1997 03 11.22292	13 05 35.07	-03 16 08.6	4 809
(1519)	1997 03 10.29514	12 54 08.73	-03 08 38.4		4 809	(6814)	1997 03 10.26875	13 05 45.07	-07 23 46.7	18.4 4 809
(1519)	1997 03 11.19653	12 53 34.12	-03 06 34.8		4 809	(6814)	1997 03 10.28194	13 05 44.65	-07 23 44.4	4 809
(1519)	1997 03 11.20972	12 53 33.58	-03 06 33.3		4 809	(6814)	1997 03 10.29514	13 05 44.15	-07 23 40.8	4 809
(1519)	1997 03 11.22292	12 53 33.05	-03 06 31.5		4 809	(6814)	1997 03 11.19653	13 05 14.33	-07 20 01.3	4 809
(2499)	1997 03 10.26875	12 57 36.84	-06 15 59.6	18.1	4 809	(6814)	1997 03 11.20972	13 05 13.78	-07 19 58.3	4 809

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(6814)	1997 03 11.22292	13 05 13.32	-07 19 55.0		4 809
(7746)	1997 03 10.26875	12 58 41.25	-05 21 43.3	18.3	4 809
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(7746)	1997 03 10.29514	12 58 40.30	-05 21 38.4		4 809
(7746)	1997 03 11.19653	12 58 10.15	-05 18 37.5		4 809
(7746)	1997 03 11.20972	12 58 09.71	-05 18 34.6		4 809
(7746)	1997 03 11.22292	12 58 09.22	-05 18 33.5		4 809
(7855)	1997 03 10.26875	12 53 32.74	-04 15 06.6	18.0	4 809
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(7855)	1997 03 10.29514	12 53 31.88	-04 14 51.0		4 809
(7855)	1997 03 11.19653	12 53 04.98	-04 05 41.8		4 809
(7855)	1997 03 11.20972	12 53 04.54	-04 05 33.9		4 809
(7855)	1997 03 11.22292	12 53 04.08	-04 05 24.9		4 809

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0.37-m $f/6$ reflector + CCD

GSC, USNO-SA1.0

1981 EV ₂₂	1997 09 09.22527	00 34 08.51	+02 32 43.6	16.7 R	816
1981 EV ₂₂	1997 09 09.23266	00 34 08.27	+02 32 41.0	16.8 R	816
1981 EV ₂₂	1997 09 10.17775	00 33 38.49	+02 27 20.7	16.7 R	816
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1989 AN ₅	1997 08 07.19091	20 57 28.83	-18 08 30.5	17.8 R	816
1989 AN ₅	1997 08 07.19817	20 57 28.52	-18 08 33.1	18.0 R	816
1989 AN ₅	1997 08 08.12865	20 56 45.48	-18 14 11.6	17.9 R	816
1989 AN ₅	1997 08 08.13623	20 56 45.10	-18 14 14.8	17.7 R	816
1989 AN ₅	1997 08 08.14073	20 56 44.91	-18 14 16.7	17.8 R	816
1989 AN ₅	1997 08 08.14515	20 56 44.71	-18 14 18.2	17.9 R	816
1991 VL ₁	1997 06 28.23088	20 30 06.48	-20 40 36.3	17.8 R	816
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1991 VL ₁	1997 06 28.24490	20 30 06.04	-20 40 41.8	17.7 R	816
1991 VL ₁	1997 07 06.20366	20 25 05.90	-21 35 49.5	17.6 R	816
1991 VL ₁	1997 07 06.21439	20 25 05.39	-21 35 54.4	17.7 R	816
1991 VL ₁	1997 07 06.22340	20 25 04.97	-21 35 58.1	17.7 R	816
1991 VL ₁	1997 07 08.25524	20 23 30.31	-21 51 06.5	17.4 R	816
1991 VL ₁	1997 07 08.25919	20 23 30.11	-21 51 08.2	17.4 R	816
1991 VL ₁	1997 07 08.26479	20 23 29.81	-21 51 10.7	17.3 R	816
1992 OM ₇	1997 08 10.29736	22 31 52.24	-05 52 48.4	16.4 R	816
1992 OM ₇	1997 08 10.30501	22 31 51.89	-05 52 49.7	16.4 R	816
1992 OM ₇	1997 08 10.31293	22 31 51.54	-05 52 50.9	16.4 R	816
1996 HT ₁₇	1997 08 07.17178	20 37 53.29	-17 29 19.8	18.1 R	p 816
1996 HT ₁₇	1997 08 07.17911	20 37 52.93	-17 29 21.4	18.2 R	p 816
1996 HT ₁₇	1997 08 10.15666	20 35 28.39	-17 40 56.6	18.3 R	816
1996 HT ₁₇	1997 08 10.16218	20 35 28.13	-17 40 57.9	18.3 R	816
1996 HT ₁₇	1997 08 10.25703	20 35 23.46	-17 41 19.9	18.1 R	816
1996 HT ₁₇	1997 08 10.26126	20 35 23.25	-17 41 20.7	18.3 R	816
1997 NP ₁	1997 08 07.19091	20 57 07.59	-18 08 18.9	18.8 R	816
1997 NP ₁	1997 08 07.19817	20 57 07.22	-18 08 24.8	18.5 R	816
1997 NP ₁	1997 08 07.20375	20 57 06.86	-18 08 28.0	18.3 R	816
1997 NP ₁	1997 08 08.14515	20 56 16.99	-18 20 28.6	18.0 R	816

1997 NP ₁	1997 08 10.17604	20 54 29.46	-18 46 14.2	18.1 R	816
1997 NR ₂	1997 08 10.21498	20 33 41.84	-17 35 53.9	17.9 R	816
1997 NR ₂	1997 08 10.22214	20 33 41.45	-17 35 55.5	17.8 R	816
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1997 OM	1997 08 10.15666	20 34 59.93	-17 38 09.2	19.3 R	816
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1997 OM	1997 08 10.26126	20 34 54.76	-17 38 34.0	19.2 R	816
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1997 OF ₁	1997 08 07.22001	21 44 55.60	-12 08 39.7	17.4 R	816
1997 OF ₁	1997 08 07.23069	21 44 55.03	-12 08 41.7	17.4 R	816
1997 OF ₁	1997 08 10.19662	21 42 23.31	-12 17 27.6	17.4 R	816
1997 OF ₁	1997 08 10.20411	21 42 22.90	-12 17 28.8	17.4 R	816
1997 PL ₂	1997 08 10.27067	22 32 48.36	-05 48 25.8	18.1 R	816
1997 PL ₂	1997 08 10.27829	22 32 48.03	-05 48 27.3	18.1 R	816
1997 PL ₂	1997 08 10.28611	22 32 47.70	-05 48 28.4	18.2 R	816
1997 PL ₂	1997 09 05.19360	22 12 56.46	-07 51 08.4	17.7 R	816
1997 PL ₂	1997 09 05.20113	22 12 56.10	-07 51 10.8	17.5 R	816
1997 PL ₂	1997 09 05.20611	22 12 55.88	-07 51 12.7	17.5 R	816
1997 PL ₂	1997 09 09.14575	22 10 05.11	-08 11 38.2	18.0 R	816
1997 PL ₂	1997 09 09.15345	22 10 04.79	-08 11 40.0	17.7 R	816
1997 PL ₂	1997 09 09.15888	22 10 04.56	-08 11 42.0	18.0 R	816
1997 PL ₂	1997 09 10.11289	22 09 26.02	-08 16 29.4	18.2 R	816
1997 PL ₂	1997 09 10.12023	22 09 25.68	-08 16 31.8	17.9 R	816
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1997 PM ₂	1997 08 10.29736	22 32 13.47	-05 57 22.7	18.0 R	816
1997 PM ₂	1997 08 10.30501	22 32 13.14	-05 57 23.5	18.0 R	816
1997 PM ₂	1997 08 10.31293	22 32 12.78	-05 57 24.7	18.2 R	816
1997 PM ₂	1997 09 02.12719	22 13 33.22	-07 06 20.2	17.3 R	S 816
1997 PM ₂	1997 09 02.13152	22 13 32.99	-07 06 20.9	17.1 R	S 816
1997 PM ₂	1997 09 05.17139	22 11 00.66	-07 16 50.3	17.1 R	816
1997 PM ₂	1997 09 05.17903	22 11 00.26	-07 16 51.7	17.1 R	816
1997 PM ₂	1997 09 05.18483	22 10 59.99	-07 16 53.2	17.0 R	816
1997 PM ₂	1997 09 09.12716	22 07 49.46	-07 30 15.6	17.6 R	816
1997 PM ₂	1997 09 09.13448	22 07 49.10	-07 30 17.0	17.5 R	816
1997 PM ₂	1997 09 09.13910	22 07 48.87	-07 30 17.7	17.2 R	816
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1997 PM ₂	1997 09 10.10288	22 07 03.86	-07 33 30.3	17.6 R	816
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1997 PA ₄	1997 08 10.23031	20 34 05.42	-17 30 53.0	16.8 R	816
1997 PA ₄	1997 08 26.11809	20 19 09.84	-16 31 36.2	17.3 R	816
1997 PA ₄	1997 08 26.12198	20 19 09.65	-16 31 35.3	17.4 R	816
1997 RF ₃	* 1997 09 05.21645	00 06 24.98	+01 26 44.4	18.1 R	816
1997 RF ₃	1997 09 05.22433	00 06 24.57	+01 26 40.3	18.0 R	816
1997 RF ₃	1997 09 05.27818	00 06 21.85	+01 26 13.3	17.9 R	816

1997 SEPT.16

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1997 RF ₃	1997 09 05.28285	00 06 21.61	+01 26 10.6	18.1 R	816
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1997 RF ₃	1997 09 09.17713	00 03 05.67	+00 52 36.7	18.0 R	816
1997 RF ₃	1997 09 09.18512	00 03 05.24	+00 52 32.4	17.9 R	816
1997 RF ₃	1997 09 09.18907	00 03 05.03	+00 52 30.8	17.9 R	816
1997 RF ₃	1997 09 10.13479	00 02 15.88	+00 44 08.9	17.9 R	816
1997 RF ₃	1997 09 10.14031	00 02 15.55	+00 44 06.1	17.8 R	816
1997 RF ₃	1997 09 10.14853	00 02 15.10	+00 44 01.8	18.0 R	816
1997 RF ₃	1997 09 10.15552	00 02 14.71	+00 43 57.8	18.0 R	816
1997 RW ₆	1997 09 09.16951	00 03 11.94	+00 52 56.9	18.5 R	816
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1997 RW ₆	1997 09 09.18512	00 03 11.23	+00 52 53.4	18.7 R	816
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1997 RW ₆	1997 09 10.14853	00 02 27.56	+00 49 17.3	18.4 R	816
1997 RZ ₆	* 1997 09 09.22527	00 34 02.52	+02 34 27.7	18.1 R	816
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1997 RZ ₆	1997 09 09.23772	00 34 01.93	+02 34 24.4	18.1 R	816
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1997 RZ ₆	1997 09 10.18169	00 33 16.47	+02 30 32.6	17.9 R	816
1997 RZ ₆	1997 09 10.18933	00 33 16.04	+02 30 30.9	18.2 R	816
1997 RZ ₆	1997 09 10.19687	00 33 15.70	+02 30 29.4	18.3 R	816
6581 P-L	1997 09 05.21645	00 06 08.59	+01 30 14.2	17.3 R	816
6581 P-L	1997 09 05.22433	00 06 08.38	+01 30 13.1	17.4 R	816
6581 P-L	1997 09 05.27818	00 06 06.91	+01 30 05.8	17.4 R	816
6581 P-L	1997 09 05.28285	00 06 06.78	+01 30 05.4	17.3 R	816
(3698)	1997 08 26.08851	19 04 22.25	-22 12 01.8	15.3 R	816
(3698)	1997 08 26.09254	19 04 22.32	-22 12 02.5	15.3 R	816

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0.28-m Schmidt-Cassegrain + CCD
GSC

1997 PC ₂	1997 08 25.16359	22 14 58.14	-10 17 58.7	17.6	823
1997 PC ₂	1997 08 25.17839	22 14 57.24	-10 18 02.5	17.5	823
1997 PC ₂	1997 08 26.18426	22 14 00.06	-10 22 36.6	17.6	823
1997 PC ₂	1997 08 26.20755	22 13 58.72	-10 22 43.3	17.7	823
1997 QO	* 1997 08 25.16359	22 14 52.86	-10 19 22.4	18.0	823
1997 QO	1997 08 25.17839	22 14 52.02	-10 19 29.9	18.3	823
1997 QO	1997 08 26.18426	22 14 01.23	-10 28 13.9	17.9	823
1997 QO	1997 08 26.20755	22 14 00.02	-10 28 26.0	17.5	823

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0.41-m *f*/5.0 reflector + CCD
GSC

1992 DZ	1997 08 10.06901	17 07 23.05	-09 12 17.2	19.1 R	824
1992 DZ	1997 08 10.07307	17 07 23.10	-09 12 18.6	19.2 R	824
1992 DZ	1997 08 10.07712	17 07 23.18	-09 12 20.9	19.9 R	824
1992 EX ₁₇	1997 08 10.08836	19 39 02.30	-09 13 44.1	20.2 R	824
1992 EX ₁₇	1997 08 10.09240	19 39 02.01	-09 13 44.5	19.3 R	824
1993 RQ ₅	1997 08 25.14206	21 26 04.54	-07 58 32.5	17.5 R	824

1993 RQ ₅	1997 08 25.15516	21 26 03.93	-07 58 37.1	18.5 R	824
1993 RQ ₅	1997 08 25.15928	21 26 03.74	-07 58 38.8	18.5 R	824
1993 RQ ₅	1997 08 25.16296	21 26 03.59	-07 58 39.9	18.6 R	824
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1993 RQ ₅	1997 08 26.11005	21 25 20.50	-08 04 34.4	18.4 R	824
1993 RQ ₅	1997 08 26.11792	21 25 20.24	-08 04 37.5	18.7 R	824
1993 RQ ₅	1997 08 26.12163	21 25 20.06	-08 04 38.8	18.6 R	824
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1993 RQ ₅	1997 09 02.11286	21 20 21.73	-08 48 02.5	17.9 R	824
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1993 RQ ₅	1997 09 09.05372	21 16 09.63	-09 29 21.3	18.8 R	824
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1996 HV ₂₄	1997 08 10.13157	20 26 11.90	-07 28 45.5	18.6 R	824
1996 HV ₂₄	1997 08 10.13698	20 26 11.61	-07 28 47.6	19.4 R	824
1997 PE ₂	1997 08 15.12024	19 38 02.06	-11 44 39.0	15.5 R	824
1997 PE ₂	1997 08 15.16692	19 38 01.23	-11 45 38.2	15.9 R	824
1997 PE ₂	1997 08 15.17071	19 38 01.17	-11 45 43.2	15.9 R	824
1997 PE ₂	1997 08 25.04574	19 37 16.91	-15 07 17.8	15.9 R	824
1997 PE ₂	1997 08 25.05272	19 37 16.95	-15 07 26.2	16.1 R	824
1997 PE ₂	1997 08 25.07076	19 37 17.01	-15 07 47.9	16.2 R	824
1997 PE ₂	1997 08 26.08533	19 37 24.51	-15 27 28.8	16.2 R	824
1997 PE ₂	1997 08 26.08986	19 37 24.55	-15 27 34.5	16.3 R	824
1997 PE ₂	1997 08 26.09362	19 37 24.58	-15 27 39.3	16.3 R	824
1997 PE ₂	1997 09 02.04531	19 39 21.13	-17 35 36.4	16.7 R	824
1997 PE ₂	1997 09 02.05662	19 39 21.37	-17 35 48.4	16.5 R	824
1997 PE ₂	1997 09 02.06029	19 39 21.44	-17 35 52.1	16.6 R	824
1997 PP ₂	1997 08 15.17778	21 35 12.19	-06 22 55.2	18.7 R	824
1997 PP ₂	1997 08 15.18260	21 35 11.89	-06 22 54.2	18.7 R	824
1997 PP ₂	1997 08 15.18688	21 35 11.69	-06 22 54.0	18.6 R	824
1997 PP ₂	1997 08 20.07528	21 30 28.75	-06 12 50.2	18.7 R	824
1997 PP ₂	1997 08 20.07925	21 30 28.54	-06 12 50.0	18.6 R	824
1997 PP ₂	1997 08 20.08294	21 30 28.36	-06 12 49.8	18.4 R	824
1997 PQ ₂	1997 09 09.07581	21 22 04.67	-10 17 48.8	19.7 R	824
1997 PQ ₂	1997 09 09.07950	21 22 04.48	-10 17 50.1	19.3 R	824
1997 PQ ₂	1997 09 09.08698	21 22 04.27	-10 17 51.5	19.8 R	824
1997 PH ₄	1997 08 15.19510	21 37 36.50	-07 17 46.0	18.9 R	824
1997 PH ₄	1997 08 15.19920	21 37 36.28	-07 17 51.1	18.3 R	824
1997 PH ₄	1997 08 15.20301	21 37 36.03	-07 17 56.3	18.8 R	824
1997 PQ ₅	* 1997 08 09.21050	21 41 56.72	-06 36 42.3	18.8 R	824
1997 PQ ₅	1997 08 09.21762	21 41 56.33	-06 36 43.9	18.9 R	824
1997 PQ ₅	1997 08 09.22186	21 41 56.09	-06 36 44.4	18.8 R	824
1997 PQ ₅	1997 08 10.16417	21 41 00.43	-06 40 58.2	19.4 R	824
1997 PQ ₅	1997 08 10.16809	21 41 00.17	-06 40 59.0	19.8 R	824
1997 PQ ₅	1997 08 10.17245	21 40 59.88	-06 41 00.4	19.0 R	824
1997 QU	* 1997 08 25.13725	21 25 53.55	-07 55 49.9	17.3 R	824
1997 QU	1997 08 25.14206	21 25 53.28	-07 55 52.3	17.7 R	824
1997 QU	1997 08 25.14755	21 25 53.03	-07 55 54.9	17.5 R	824
1997 QU	1997 08 26.10177	21 25 08.08	-08 02 09.2	17.5 R	824

1997 QU	1997 08 26.10603	21 25 07.90	−08 02 10.8	17.4 R	824
1997 QU	1997 08 26.11005	21 25 07.72	−08 02 12.5	17.5 R	824
1997 QU	1997 09 02.11286	21 20 03.00	−08 48 43.6	17.6 R	824
1997 QU	1997 09 02.11664	21 20 02.84	−08 48 45.0	17.5 R	824
1997 QU	1997 09 02.12044	21 20 02.67	−08 48 46.5	17.6 R	824
1997 QU	1997 09 09.05372	21 16 03.96	−09 33 39.3	17.8 R	824
1997 QU	1997 09 09.05772	21 16 03.82	−09 33 41.1	18.0 R	824
1997 QU	1997 09 09.06216	21 16 03.68	−09 33 42.9	17.9 R	824
1997 QV	* 1997 08 25.15516	21 26 54.10	−08 02 21.7	18.6 R	824
1997 QV	1997 08 25.15928	21 26 53.91	−08 02 24.4	18.6 R	824
1997 QV	1997 08 25.16296	21 26 53.71	−08 02 26.7	18.5 R	824
1997 QV	1997 08 26.11792	21 26 07.65	−08 13 16.3	18.9 R	824
1997 QV	1997 08 26.12163	21 26 07.45	−08 13 18.7	18.8 R	824
1997 QV	1997 08 26.12461	21 26 07.28	−08 13 21.1	18.1 R	824
1997 QV	1997 09 09.10953	21 16 40.58	−10 48 50.0	19.6 R	824
1997 QV	1997 09 09.11332	21 16 40.47	−10 48 52.1	19.3 R	824
1997 QV	1997 09 09.11720	21 16 40.36	−10 48 54.3	19.5 R	824
(4684)	1997 08 25.08020	19 32 46.24	−12 47 26.6	17.0 R	824
(4684)	1997 08 25.08443	19 32 46.19	−12 47 27.1	17.0 R	824
(4684)	1997 08 25.09332	19 32 46.05	−12 47 29.1	16.8 R	824
(4684)	1997 08 26.07000	19 32 36.09	−12 50 54.6	17.4 R	824
(4684)	1997 08 26.07387	19 32 36.04	−12 50 55.3	17.4 R	824
(4684)	1997 08 26.07757	19 32 36.01	−12 50 56.0	17.3 R	824

844 Los Molinos

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Observer N. Sosa

0.35-m reflector + CCD

GSC

(1094)	1997 08 30.06101	22 12 59.29	−12 36 03.1		844
(1094)	1997 08 30.06206	22 12 59.23	−12 36 03.6		844
(1094)	1997 08 30.09197	22 12 57.72	−12 36 21.3		844
(1094)	1997 08 30.09610	22 12 57.54	−12 36 23.6		844
(1094)	1997 08 30.11354	22 12 56.64	−12 36 33.9		844

861 Barão Geraldo

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

GSC

1991 ES ₁	1997 09 03.01729	19 48 43.75	−09 37 53.1	16.2 R	861
1991 ES ₁	1997 09 03.02492	19 48 43.55	−09 37 56.1	16.3 R	861
1991 ES ₁	1997 09 03.03419	19 48 43.48	−09 37 59.9	16.4 R	861
1991 ES ₁	1997 09 08.07330	19 47 32.82	−10 14 34.4	17.2 R	861
1991 ES ₁	1997 09 08.08509	19 47 32.69	−10 14 39.4	17.2 R	861
1991 ES ₁	1997 09 08.09282	19 47 32.61	−10 14 43.1	17.3 R	861
1993 HH ₇	1997 08 29.06801	19 09 05.27	−25 25 54.8	17.0 R	861
1993 HH ₇	1997 08 29.11352	19 09 05.45	−25 25 47.5	16.7 R	861
1993 HH ₇	1997 09 08.03957	19 12 01.38	−24 59 24.9	17.7 R	861
1993 HH ₇	1997 09 08.05288	19 12 01.76	−24 59 22.2	17.4 R	861
1993 HH ₇	1997 09 08.05768	19 12 01.83	−24 59 21.6	17.0 R	861
1994 LX	1997 08 02.34141	01 36 15.76	−47 24 04.5	16.5 R	861

1994 LX	1997 08 02.34484	01 36 16.49	−47 24 14.2	16.6 R	861
1994 LX	1997 08 02.35128	01 36 17.89	−47 24 32.0	16.8 R	861
1996 BV ₃	1997 08 27.05213	19 33 11.53	−29 46 16.9	16.8 R	861
1996 BV ₃	1997 08 27.05713	19 33 11.53	−29 46 16.7	17.0 R	861
1996 BV ₃	1997 08 29.04025	19 33 15.05	−29 45 31.1	16.8 R	861
1996 BV ₃	1997 08 29.05086	19 33 15.07	−29 45 30.8	16.7 R	861
1997 BR	1997 08 02.36530	02 01 41.44	−36 46 34.2	16.1 R	861
1997 BR	1997 08 02.36883	02 01 41.13	−36 46 51.5	16.2 R	861
1997 BR	1997 08 02.37265	02 01 40.80	−36 47 07.4	15.9 R	861
1997 PF	1997 08 02.97828	20 15 07.27	−10 14 53.2	18.3 R	861
1997 PF	1997 08 02.99481	20 15 06.36	−10 14 54.4	17.7 R	861
1997 PF	1997 08 03.00880	20 15 05.80	−10 14 56.8	18.2 R	861
1997 PF	1997 08 03.02135	20 15 05.17	−10 14 58.0	18.1 R	861
1997 PF	1997 08 03.03374	20 15 04.51	−10 15 00.7	18.5 R	861
1997 PF	1997 08 11.10957	20 09 21.13	−10 36 20.1	18.1 R	861
1997 PF	1997 08 11.11751	20 09 20.81	−10 36 21.8	17.4 R	861
1997 PF	1997 08 11.13111	20 09 20.24	−10 36 24.0	18.0 R	861
1997 PO	1997 08 27.10610	20 13 10.56	−22 03 18.4	18.0 R	861
1997 PO	1997 08 27.11148	20 13 10.65	−22 03 26.0	18.2 R	861
1997 PO	1997 08 29.09387	20 13 50.50	−22 49 59.5	18.3 R	861
1997 PO	1997 08 29.09925	20 13 50.67	−22 50 07.1	18.2 R	861
1997 PO	1997 08 29.10368	20 13 50.81	−22 50 12.4	18.4 R	861
1997 QK	1997 08 26.12964	21 33 25.39	−06 29 20.5	17.0 R	861
1997 QK	1997 08 26.19597	21 33 22.06	−06 29 25.0	17.0 R	861
1997 QK	1997 08 26.20730	21 33 21.59	−06 29 27.1	16.6 R	861
1997 QK	1997 08 26.98817	21 32 44.23	−06 30 23.7	16.8 R	861
1997 QK	1997 08 27.01320	21 32 42.96	−06 30 25.7	17.1 R	861
1997 QK	1997 08 27.03326	21 32 41.95	−06 30 27.3	16.9 R	861
1997 QP ₂	1997 09 02.13551	21 48 51.51	−04 31 15.7	17.7 R	861
1997 QP ₂	1997 09 02.13999	21 48 50.80	−04 31 08.2	17.4 R	861
1997 QP ₂	1997 09 02.14623	21 48 49.84	−04 30 59.3	17.7 R	861
1997 QP ₂	1997 09 02.15992	21 48 47.77	−04 30 36.7	17.3 R	861
1997 RD ₁	1997 09 08.10584	21 35 24.03	−06 01 28.4	17.1 R	861
1997 RD ₁	1997 09 08.11069	21 35 24.11	−06 01 34.7	17.1 R	861
(5606)	1997 08 11.10957	20 08 35.87	−10 36 43.5	17.4 R	861
(5606)	1997 08 11.11751	20 08 35.37	−10 36 47.5	16.7 R	861

867 Saji Observatory

M. Yamanishi, 1071-1 Takayama, Saji, Yazu-Gun, Tottori-Ken, 689-13 Japan
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Observers M. Yamanishi, A. Miyamoto, M. Aimoto, T. Oribe

1.03-m $f/4.2$ reflector + CCD

GSC

1997 RT	1997 09 02.71910	00 43 16.81	+28 18 57.8	16.1 V	867
1997 RT	1997 09 02.72153	00 43 17.34	+28 19 07.6		867
1997 RT	1997 09 02.72396	00 43 17.87	+28 19 17.6		867
1997 RT	1997 09 09.63333	01 06 38.20	+34 11 45.6	17.0 V	867
1997 RT	1997 09 09.63611	01 06 38.56	+34 11 51.9		867
1997 RT	1997 09 09.63924	01 06 38.95	+34 11 58.9		867

886 Susono

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

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

1979 QC ₁	1997 08 27.53807	22 06 44.70	-09 05 18.4	17.2 V	886
1979 QC ₁	1997 08 27.55101	22 06 43.74	-09 05 16.3		886
1979 QC ₁	1997 09 03.55797	21 58 43.71	-08 49 07.4		886
1979 QC ₁	1997 09 03.56609	21 58 43.08	-08 49 05.9		886
1980 PB ₂	1997 09 04.59630	23 10 58.11	+01 39 50.2	17.5 V	886
1980 PB ₂	1997 09 04.60978	23 10 57.51	+01 39 44.4		886
1980 PB ₂	1997 09 10.60155	23 06 58.79	+00 54 38.6		886
1980 PB ₂	1997 09 10.60971	23 06 58.42	+00 54 34.9		886
1981 EO ₁₈	1997 09 04.56319	22 41 43.24	-07 34 30.4	17.4 V	886
1981 EO ₁₈	1997 09 04.58390	22 41 41.98	-07 34 36.2		886
1981 EO ₁₈	1997 09 10.56805	22 36 05.35	-08 00 41.5		886
1981 EO ₁₈	1997 09 10.57647	22 36 04.75	-08 00 43.0		886
1981 UT ₇	1997 09 04.57982	22 36 15.96	-09 58 13.8	16.8 V	886
1981 UT ₇	1997 09 04.58801	22 36 15.62	-09 58 16.2		886
1981 UT ₇	1997 09 10.58485	22 32 05.49	-10 27 08.9		886
1981 UT ₇	1997 09 10.59320	22 32 05.16	-10 27 10.9		886
1992 OM ₇	1997 08 27.53389	22 18 03.42	-06 51 42.0	17.4 V	886
1992 OM ₇	1997 08 27.54694	22 18 02.75	-06 51 44.2		886
1992 OM ₇	1997 09 03.55262	22 12 15.77	-07 19 03.6		886
1992 OM ₇	1997 09 03.57645	22 12 14.78	-07 19 08.5		886
1994 VJ ₇	1997 08 27.55505	22 04 55.88	-09 50 07.0	16.5 V	886
1994 VJ ₇	1997 08 27.56314	22 04 55.46	-09 50 08.7		886
1994 VJ ₇	1997 09 03.57236	21 58 32.86	-10 16 17.8		886
1994 VJ ₇	1997 09 03.58922	21 58 31.91	-10 16 22.0		886
1997 RT	1997 09 04.54200	00 50 34.55	+30 14 10.6	17.1 V	886
1997 RT	1997 09 04.55057	00 50 36.09	+30 14 43.8		886
1997 RT	1997 09 04.55886	00 50 37.74	+30 15 10.1		886
1997 RT	1997 09 05.59647	00 54 21.04	+31 12 55.7	17.5 V	886
1997 RT	1997 09 05.61354	00 54 24.04	+31 13 51.7		886
6065 P-L	1997 08 27.55909	22 27 03.25	-11 46 33.3	17.4 V	886
6065 P-L	1997 08 27.56719	22 27 02.77	-11 46 35.3		886
6065 P-L	1997 09 03.58515	22 20 34.83	-12 01 49.8		886
6065 P-L	1997 09 03.60169	22 20 33.90	-12 01 52.7		886
3241 T-3	1997 08 27.59611	22 37 22.97	-13 33 22.0	17.3 V	886
3241 T-3	1997 08 27.60457	22 37 22.32	-13 33 23.6		886
3241 T-3	1997 09 10.58080	22 24 43.92	-14 26 40.7	17.6 V	886
3241 T-3	1997 09 10.58902	22 24 43.42	-14 26 41.6		886
(7732)	1997 09 04.56727	22 37 28.02	-07 19 55.0	17.3 V	886
(7732)	1997 09 04.57570	22 37 27.59	-07 19 57.7		886
(7732)	1997 09 10.54732	22 32 52.93	-07 45 52.4		886
(7732)	1997 09 10.55573	22 32 52.54	-07 45 54.4		886
(7810)	1997 07 14.60790	19 42 48.92	-14 14 48.1	18.0 V	886
(7810)	1997 07 14.62520	19 42 47.82	-14 14 49.3		886

888 Gekko Observatory

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

Observer T. Kagawa

Measurer T. Urata

0.50-m $f/4.0$ reflector

GSC

1997 RP ₁	* 1997 09 03.67014	23 35 32.76	-02 33 02.7	17.5	888
1997 RP ₁	1997 09 03.68264	23 35 32.07	-02 33 04.5		888
1997 RP ₁	1997 09 10.67917	23 29 46.93	-02 45 37.1	17.5	888
1997 RP ₁	1997 09 10.69306	23 29 46.08	-02 45 38.7		888
1997 RZ ₇	* 1997 09 04.69167	23 49 55.77	+05 09 39.4	16.5	888
1997 RZ ₇	1997 09 04.70417	23 49 54.92	+05 09 43.2		888
1997 RZ ₇	1997 09 10.70000	23 43 36.24	+05 33 30.5	16.5	888
1997 RZ ₇	1997 09 10.71389	23 43 35.22	+05 33 34.2		888
1997 RZ ₇	1997 09 11.68819	23 42 31.15	+05 36 58.9	16	888
1997 RZ ₇	1997 09 11.70208	23 42 30.20	+05 37 02.0		888
1997 RF ₈	* 1997 09 04.72292	23 48 16.83	-06 38 46.4	17.5	888
1997 RF ₈	1997 09 04.73542	23 48 15.95	-06 38 45.6		888
1997 RF ₈	1997 09 11.69514	23 40 32.32	-06 31 21.9	17.5	888
1997 RF ₈	1997 09 11.70903	23 40 31.45	-06 31 21.1		888

896 Yatsugatake South Base Observatory

O. Muramatsu, 8-119-1, Sakura-zutsumi 2 Chome, Musashino, Tokyo, 180 Japan

Observers Y. Kushida, R. Kushida

Measurer Y. Kushida

0.40-m $f/4.1$ reflector + CCD

GSC

1997 RT	1997 09 03.57222	00 46 49.90	+29 15 08.4	16.5	896
1997 RT	1997 09 03.57639	00 46 50.78	+29 15 25.2		896
1997 RT	1997 09 03.57917	00 46 51.37	+29 15 36.3		896
1997 RT	1997 09 03.58403	00 46 52.40	+29 15 55.6		896
1997 RT	1997 09 03.59063	00 46 53.78	+29 16 21.6		896
1997 RT	1997 09 03.59896	00 46 55.53	+29 16 54.3		896
1997 RT	1997 09 03.60417	00 46 56.62	+29 17 14.9		896

897 YGCO Chiyoda Station

T. Kojima, 45 Shimonakamori, Chiyoda, Ohra-Gun, Gunma-Ken, 370-07 Japan

[kojitaku@scorpius.bekkoame.or.jp]

0.25-m $f/6.0$ reflector + CCD

GSC

1997 CZ ₅	1997 03 09.49097	05 42 25.05	+08 50 55.8	16.0 R	897
1997 CZ ₅	1997 03 09.50486	05 42 27.08	+08 50 42.0		897
1997 RT	1997 09 02.55628	00 42 40.44	+28 07 28.2		897
1997 RT	1997 09 02.55878	00 42 41.15	+28 07 40.1		897
1997 RT	1997 09 02.56317	00 42 42.13	+28 07 58.5	15.8 R	897
1997 RT	1997 09 02.56832	00 42 43.19	+28 08 20.0		897
1997 RT	1997 09 02.57361	00 42 44.42	+28 08 44.1		897
1997 RT	1997 09 03.66925	00 47 09.81	+29 21 27.1		897
1997 RT	1997 09 03.67536	00 47 10.98	+29 21 49.6	16.1 R	897
1997 RT	1997 09 03.67807	00 47 11.55	+29 21 59.9		897

900 Moriyama

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0.25-m $f/6.3$ reflector + CCD

GSC

1977 QQ ₅	1997 08 11.73601	02 48 59.49	-13 31 25.5	16.7 V	900
1977 QQ ₅	1997 08 11.74545	02 49 02.23	-13 31 40.3	16.7 V	900
1997 NR ₁₀	1997 08 11.58682	19 46 49.68	-15 47 06.2	18.7 V	900
1997 NR ₁₀	1997 08 11.63568	19 46 48.36	-15 47 26.9	18.3 V	900

1997 RE	1997 09 10.62163	22 56 42.82	-10 30 03.2	17.7 V	900	1997 QX ₁	1997 08 27.55017	20 42 25.63	-06 35 36.7		905
1997 RE	1997 09 10.64543	22 56 41.73	-10 30 15.8		900	1997 QY ₁	* 1997 08 24.59630	23 21 54.14	-10 32 36.4	16.5	905
1997 RT	1997 09 04.49821	00 50 25.30	+30 11 25.2	16.5 V	900	1997 QY ₁	1997 08 24.61088	23 21 53.35	-10 32 41.0		905
1997 RT	1997 09 04.50744	00 50 27.24	+30 11 59.5		900	1997 QY ₁	1997 08 27.55972	23 19 43.30	-10 46 22.5	16.5	905
1997 RT	1997 09 09.68836	01 06 45.12	+34 13 49.4	16.7 V	900	1997 QY ₁	1997 08 27.57766	23 19 42.28	-10 46 28.2		905
1997 RT	1997 09 09.70096	01 06 46.74	+34 14 17.1		900	1997 QZ ₁	* 1997 08 24.59630	23 22 14.67	-09 35 56.5	17.5	905
1997 RT	1997 09 10.75104	01 09 24.78	+34 50 30.9	17.1 V	900	1997 QZ ₁	1997 08 24.61088	23 22 13.79	-09 36 03.8		905
1997 RT	1997 09 10.76366	01 09 26.36	+34 50 55.1		900	1997 QZ ₁	1997 08 27.55972	23 19 48.88	-10 02 28.2	18	905
1997 RD ₁	1997 09 04.60401	21 34 15.95	-04 42 11.7	16.8 V	900	1997 QZ ₁	1997 08 27.57766	23 19 48.00	-10 02 37.0		905
1997 RD ₁	1997 09 04.61317	21 34 16.07	-04 42 24.5		900	1997 QB ₂	* 1997 08 27.58628	23 27 09.85	-09 06 21.8	16.5	905
1997 RM ₁	1997 09 04.47241	20 26 17.69	-26 15 23.6	17.0 V	900	1997 QB ₂	1997 08 27.60295	23 27 08.95	-09 06 19.4		905
1997 RM ₁	1997 09 04.48172	20 26 17.92	-26 15 17.9		900	1997 QB ₂	1997 08 28.53061	23 26 23.80	-09 04 04.5	17	905
1997 RG ₇	1997 09 10.63149	23 14 27.94	-03 03 59.7	17.6 V	900	1997 QB ₂	1997 08 28.53941	23 26 23.24	-09 04 03.4		905
1997 RG ₇	1997 09 10.65479	23 14 26.67	-03 04 05.3		900	1997 QB ₂	1997 09 01.57338	23 22 51.53	-08 54 04.7	17	905
1997 RA ₈	1997 09 10.66406	23 15 17.43	-01 21 46.0	17.9 V	900	1997 QB ₂	1997 09 01.58929	23 22 50.64	-08 54 02.0		905
1997 RA ₈	1997 09 10.69289	23 15 15.85	-01 21 52.8		900	1997 QC ₂	* 1997 08 27.58628	23 30 04.52	-10 06 04.7	16.5	905
(1959)	1997 08 24.68142	01 30 47.13	+19 34 27.2	16.0 V	900	1997 QC ₂	1997 08 27.60295	23 30 04.03	-10 06 14.9		905
(1959)	1997 08 24.68882	01 30 47.19	+19 34 29.6		900	1997 QC ₂	1997 08 28.53061	23 29 32.14	-10 15 00.4	17	905
(2100)	1997 08 24.70426	01 45 00.73	+18 46 44.5	16.1 V	900	1997 QC ₂	1997 08 28.53941	23 29 31.73	-10 15 05.4		905
(2100)	1997 08 24.71345	01 45 00.43	+18 46 27.4		900	1997 QC ₂	1997 09 09.57147	23 21 41.37	-12 05 03.7	17.5	905
(2693)	1997 08 23.72748	00 27 51.13	-11 21 47.2	16.1 V	900	1997 QC ₂	1997 09 09.57963	23 21 41.00	-12 05 07.5		905
(2693)	1997 08 23.73487	00 27 50.97	-11 21 49.2		900	1997 QD ₂	* 1997 08 27.61082	23 35 34.13	-09 20 45.3	17	905
(3619)	1997 08 23.74591	00 54 07.31	+04 18 08.2		900	1997 QD ₂	1997 08 27.62407	23 35 33.65	-09 20 52.1		905
(3619)	1997 08 23.75331	00 54 07.39	+04 18 06.8	16.3 V	900	1997 QD ₂	1997 08 28.56516	23 34 58.53	-09 28 08.3	17	905
(3750)	1997 08 23.67711	22 53 28.26	-16 03 06.3	17.2 V	900	1997 QD ₂	1997 08 28.58079	23 34 57.94	-09 28 15.3		905
(3750)	1997 08 23.68450	22 53 27.89	-16 03 07.4		900	1997 QD ₂	1997 09 09.57963	23 26 50.66	-11 00 39.9	18	905
(4033)	1997 08 23.69755	23 56 36.28	-08 32 45.5	17.5 V	900	1997 QE ₂	* 1997 08 27.61082	23 37 09.09	-08 38 31.2	18	905
(4033)	1997 08 23.71128	23 56 35.58	-08 32 50.2		900	1997 QE ₂	1997 08 27.62407	23 37 08.46	-08 38 33.9		905
905 Nachi-Katsuura Observatory						1997 QE ₂	1997 08 28.55017	23 36 28.48	-08 42 16.8	18	905
T. Urata, 1-8, Dobayashi 1 Chome, Shimizu, Shizuoka-Ken 424, Japan						1997 QE ₂	1997 08 28.58079	23 36 27.18	-08 42 22.7		905
Observer Y. Shimizu						1997 QF ₂	* 1997 08 27.61082	23 40 41.36	-09 58 39.5	18	905
Measurer T. Urata						1997 QF ₂	1997 08 27.62407	23 40 40.65	-09 58 39.4		905
0.40-m $f/3.3$ Baker-Schmidt						1997 QF ₂	1997 08 28.56516	23 39 55.92	-09 59 29.0	18	905
GSC						1997 QF ₂	1997 08 28.58079	23 39 55.34	-09 59 31.1		905
1997 PN ₅	* 1997 08 11.50104	20 42 18.38	-10 33 22.5	17	905	1997 QB ₄	* 1997 08 27.58628	23 31 10.38	-08 55 14.0	18	905
1997 PN ₅	1997 08 11.52176	20 42 17.06	-10 33 21.0		905	1997 QB ₄	1997 08 27.60295	23 31 09.38	-08 55 11.6		905
1997 PN ₅	1997 08 22.54329	20 31 52.63	-10 20 17.1	17.5	905	1997 QB ₄	1997 09 01.57338	23 25 46.74	-08 42 00.8	17.5	905
1997 PN ₅	1997 08 22.54873	20 31 52.38	-10 20 17.1		905	1997 QB ₄	1997 09 01.58929	23 25 45.62	-08 41 57.4		905
1997 PO ₅	* 1997 08 11.50104	20 42 20.81	-11 29 36.8	16	905	1997 QC ₄	* 1997 08 30.58692	21 54 42.45	+02 58 33.5	17	905
1997 PO ₅	1997 08 11.52176	20 42 19.94	-11 29 47.0		905	1997 QC ₄	1997 08 30.60347	21 54 41.74	+02 58 28.3		905
1997 PO ₅	1997 08 22.56591	20 36 11.74	-12 57 53.1	16	905	1997 QG ₄	* 1997 08 27.58628	23 31 25.20	-08 56 40.6	18	905
1997 PO ₅	1997 08 22.57679	20 36 11.42	-12 57 57.9		905	1997 QG ₄	1997 08 27.60295	23 31 24.60	-08 56 49.3		905
1997 PO ₅	1997 08 22.58258	20 36 11.35	-12 58 00.6		905	1997 QG ₄	1997 09 04.54907	23 26 07.77	-10 06 45.9	17.5	905
1997 QW ₁	* 1997 08 22.56591	20 39 04.15	-12 40 04.7	17.5	905	1997 QG ₄	1997 09 04.55793	23 26 07.34	-10 06 49.8		905
1997 QW ₁	1997 08 22.58258	20 39 03.33	-12 40 03.8		905	1997 QG ₄	1997 09 09.57147	23 22 35.42	-10 50 02.9	17.5	905
1997 QW ₁	1997 08 27.52216	20 36 37.50	-12 33 40.5	16.5	905	1997 QG ₄	1997 09 09.57963	23 22 35.15	-10 50 07.4		905
1997 QW ₁	1997 08 27.52951	20 36 37.31	-12 33 40.1		905	1997 RO ₃	* 1997 09 04.56997	00 56 37.22	+03 47 24.6	17.5	905
1997 QW ₁	1997 08 30.56030	20 35 31.15	-12 29 42.8	17	905	1997 RO ₃	1997 09 04.58252	00 56 36.94	+03 47 20.4		905
1997 QW ₁	1997 08 30.56921	20 35 30.99	-12 29 42.0		905	1997 RO ₃	1997 09 05.57679	00 56 15.66	+03 41 09.8	17.5	905
1997 QX ₁	* 1997 08 23.47922	20 44 51.08	-06 35 18.4	16.5	905	1997 RO ₃	1997 09 05.59126	00 56 15.34	+03 41 04.2		905
1997 QX ₁	1997 08 23.49832	20 44 50.31	-06 35 18.6		905	1997 RO ₃	1997 09 09.60487	00 54 32.55	+03 14 17.9	18	905
1997 QX ₁	1997 08 27.53825	20 42 26.04	-06 35 36.5	16.5	905	1997 RO ₃	1997 09 09.62164	00 54 32.00	+03 14 10.9		905

1997 RP ₃	1997 09 04.56997	00 59 04.59	+03 19 06.7	18	905
1997 RP ₃	1997 09 04.58252	00 59 04.49	+03 19 03.4		905
1997 RP ₃	* 1997 09 05.57679	00 58 41.78	+03 15 25.2	18	905
1997 RP ₃	1997 09 05.59126	00 58 41.31	+03 15 22.8		905
1997 RP ₃	1997 09 09.61319	00 56 57.30	+02 59 30.5	18	905
1997 RP ₃	1997 09 09.62164	00 56 56.92	+02 59 28.2		905
1997 RQ ₃	1997 09 04.56997	00 59 59.88	+03 22 32.9	18	905
1997 RQ ₃	1997 09 04.58252	00 59 59.47	+03 22 29.3		905
1997 RQ ₃	* 1997 09 05.57679	00 59 34.93	+03 18 39.6	18	905
1997 RQ ₃	1997 09 05.59126	00 59 34.55	+03 18 35.5		905
1997 RQ ₃	1997 09 09.61319	00 57 42.88	+03 01 50.2	18	905
1997 RQ ₃	1997 09 09.62164	00 57 42.74	+03 01 48.4		905
1997 RR ₃	1997 09 04.56997	01 01 05.39	+04 13 05.3	18	905
1997 RR ₃	1997 09 04.58252	01 01 05.18	+04 12 59.7		905
1997 RR ₃	* 1997 09 05.57679	01 00 43.37	+04 04 34.7	18	905
1997 RR ₃	1997 09 05.59126	01 00 43.05	+04 04 27.2		905
1997 RR ₃	1997 09 09.61319	00 59 01.13	+03 28 37.3	18	905
1997 RR ₃	1997 09 09.62164	00 59 00.82	+03 28 31.5		905

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0.43-m reflector $f/6$ + CCD

GSC

(5240)	1997 09 10.75023	01 59 17.93	+19 04 26.3	15.7 V	908
(5240)	1997 09 10.79093	01 59 17.61	+19 04 26.0		908
(5240)	1997 09 10.82005	01 59 17.38	+19 04 25.9		908

910 Caussols-ODAS

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Measurers A. Maury, M. Hoffmann, G. Hahn

0.90-m Schmidt + CCD

GSC

1978 RR ₈	1997 09 03.88400	22 22 41.28	-07 43 02.0	18.7 V	910
1978 RR ₈	1997 09 03.90814	22 22 40.03	-07 43 14.1	18.7 V	910
1978 RR ₈	1997 09 03.93199	22 22 38.79	-07 43 25.9	18.8 V	910
1981 EU ₁₃	1997 09 07.03804	03 29 41.89	+16 59 09.8	18.8 V	910
1981 EU ₁₃	1997 09 07.06128	03 29 43.02	+16 59 07.9	18.6 V	910
1981 EU ₁₃	1997 09 07.08525	03 29 44.15	+16 59 05.9	19.0 V	910
1981 EW ₄₁	1997 09 07.03692	03 28 03.75	+17 05 26.5	19.8 V	910
1981 EW ₄₁	1997 09 07.06016	03 28 04.38	+17 05 27.8	19.8 V	910
1981 EW ₄₁	1997 09 07.08412	03 28 05.06	+17 05 28.8	19.6 V	910
1982 UR ₆	1997 09 07.12075	04 15 19.25	+20 24 42.6	18.3 V	910
1982 UR ₆	1997 09 07.13650	04 15 20.40	+20 24 46.9	17.9 V	910
1982 UR ₆	1997 09 07.15476	04 15 21.73	+20 24 51.7	17.9 V	910
1986 WV ₁	1997 09 07.03471	03 24 54.01	+16 53 37.8	19.0 V	910
1986 WV ₁	1997 09 07.05795	03 24 54.57	+16 53 38.8	18.6 V	910
1986 WV ₁	1997 09 07.08191	03 24 55.15	+16 53 40.0	18.3 V	910
1990 HO ₃	1997 09 04.01838	03 00 00.33	+14 39 03.8	19.1 V	910
1990 HO ₃	1997 09 04.04285	03 00 00.86	+14 39 05.7	19.3 V	910

1990 HO ₃	1997 09 04.06918	03 00 01.40	+14 39 08.0	19.1 V	910
1990 HO ₃	1997 09 05.08612	03 00 23.03	+14 40 29.5	19.1 V	910
1990 HO ₃	1997 09 05.10943	03 00 23.50	+14 40 31.3	19.4 V	910
1990 HO ₃	1997 09 05.13945	03 00 24.04	+14 40 33.9	19.3 V	910
1991 NE ₇	1997 09 07.93626	21 56 35.06	-04 54 03.0	18.3 V	910
1991 NE ₇	1997 09 07.96124	21 56 34.02	-04 54 08.8	18.4 V	910
1991 NE ₇	1997 09 07.98529	21 56 33.02	-04 54 14.2	18.2 V	910
1991 NE ₇	1997 09 09.95039	21 55 15.61	-05 01 44.7	17.8 V	910
1991 NE ₇	1997 09 09.97625	21 55 14.58	-05 01 50.7	17.9 V	910
1991 NE ₇	1997 09 09.99958	21 55 13.65	-05 01 55.9	18.0 V	910
1992 ES ₁	1997 09 01.11282	02 59 19.96	+14 50 05.7	18.9 V	910
1992 ES ₁	1997 09 01.13654	02 59 20.21	+14 50 09.7	18.9 V	910
1992 ES ₁	1997 09 01.16004	02 59 20.42	+14 50 13.5	18.9 V	910
1992 ES ₁	1997 09 09.04275	02 59 57.04	+15 08 58.9	19.3 V	910
1992 ES ₁	1997 09 09.06559	02 59 56.96	+15 09 01.6	19.2 V	910
1992 ES ₁	1997 09 09.08853	02 59 56.90	+15 09 04.5	19.1 V	910
1992 OM ₇	1997 09 03.87659	22 12 00.50	-07 20 19.4	17.6 V	910
1992 OM ₇	1997 09 03.90073	22 11 59.30	-07 20 25.0	17.6 V	910
1992 OM ₇	1997 09 03.92458	22 11 58.12	-07 20 30.6	17.7 V	910
1993 RQ ₅	1997 08 31.89951	21 21 10.72	-08 40 34.4	19.0 V	910
1993 RQ ₅	1997 08 31.92347	21 21 09.71	-08 40 43.4	18.9 V	910
1993 RQ ₅	1997 08 31.94845	21 21 08.65	-08 40 52.6	18.9 V	910
1994 WU ₁	1997 09 09.94564	21 48 23.78	-05 01 42.1	18.3 V	910
1994 WU ₁	1997 09 09.97150	21 48 23.00	-05 02 04.1	18.5 V	910
1994 WU ₁	1997 09 09.99483	21 48 22.29	-05 02 24.0	18.4 V	910
1995 DE ₂	1997 09 06.90435	23 15 51.37	-02 09 24.4	17.4 V	910
1995 DE ₂	1997 09 06.92874	23 15 50.05	-02 09 30.1	17.3 V	910
1995 DE ₂	1997 09 06.95189	23 15 48.79	-02 09 35.2	17.4 V	910
1995 YN ₃	1997 09 07.83246	20 15 34.61	-13 10 06.7	18.6 V	910
1995 YN ₃	1997 09 07.85551	20 15 34.23	-13 10 08.4	18.5 V	910
1995 YN ₃	1997 09 07.87873	20 15 33.85	-13 10 10.0	18.6 V	910
1997 FO ₃	1997 05 02.86823	12 30 31.28	-00 08 44.7	19.6 V	910
1997 FO ₃	1997 05 02.89161	12 30 30.61	-00 08 40.2	19.7 V	910
1997 FO ₃	1997 05 02.91567	12 30 29.93	-00 08 35.5	19.6 V	910
1997 JS ₁₈	* 1997 05 02.86762	12 29 37.74	+00 07 16.6	18.9 V	910
1997 JS ₁₈	1997 05 02.89099	12 29 37.05	+00 07 19.4	19.4 V	910
1997 JS ₁₈	1997 05 02.91505	12 29 36.36	+00 07 22.4	19.0 V	910
1997 NP ₂	1997 09 07.82524	20 05 09.98	-12 48 40.0	19.8 V	910
1997 NP ₂	1997 09 07.84829	20 05 09.95	-12 48 46.1	19.8 V	910
1997 NP ₂	1997 09 07.87151	20 05 09.93	-12 48 51.9	19.9 V	910
1997 OF ₂	1997 08 01.98766	21 36 42.92	-10 30 50.2	18.9 V	910
1997 OF ₂	1997 08 02.01174	21 36 41.71	-10 30 51.6	19.0 V	910
1997 OF ₂	1997 08 02.03501	21 36 40.55	-10 30 52.8	18.8 V	910
1997 OG ₂	1997 08 01.99066	21 41 03.38	-10 29 21.5	18.2 V	910
1997 OG ₂	1997 08 02.01474	21 41 02.28	-10 29 27.7	18.1 V	910
1997 OG ₂	1997 08 02.03801	21 41 01.23	-10 29 33.6	18.2 V	910
1997 OH ₂	1997 08 01.99141	21 42 07.92	-10 33 29.7	19.9 V	910
1997 OH ₂	1997 08 02.01549	21 42 06.77	-10 33 35.7	19.9 V	910
1997 OH ₂	1997 08 02.03876	21 42 05.67	-10 33 41.8	19.9 V	910
1997 OJ ₂	1997 08 01.99434	21 46 21.66	-10 30 29.6	19.7 V	910
1997 OJ ₂	1997 08 02.01841	21 46 20.44	-10 30 38.0	19.7 V	910
1997 OJ ₂	1997 08 02.04169	21 46 19.28	-10 30 46.5	19.8 V	910

1997 OK ₂	1997 08 01.99863	21 52 32.88	-10 36 46.9	18.6 V	910	1997 OE ₃	1997 08 02.01992	21 48 30.01	-10 45 58.6	20.7 V	910
1997 OK ₂	1997 08 02.02270	21 52 31.45	-10 36 49.3	18.6 V	910	1997 OE ₃	1997 08 02.04319	21 48 28.54	-10 45 59.2	20.4 V	910
1997 OK ₂	1997 08 02.04597	21 52 30.05	-10 36 51.4	18.6 V	910	1997 OF ₃	* 1997 07 30.99989	21 54 45.35	-10 32 31.2	19.1 V	910
1997 OL ₂	1997 08 01.99959	21 53 57.08	-10 31 14.4	18.3 V	910	1997 OF ₃	1997 07 31.02362	21 54 44.38	-10 32 36.4	19.1 V	910
1997 OL ₂	1997 08 02.02367	21 53 56.05	-10 31 17.9	18.2 V	910	1997 OF ₃	1997 07 31.04645	21 54 43.45	-10 32 41.1	19.0 V	910
1997 OL ₂	1997 08 02.04694	21 53 55.04	-10 31 21.1	18.1 V	910	1997 OF ₃	1997 08 01.99922	21 53 23.79	-10 39 25.5	19.2 V	910
1997 OM ₂	1997 08 02.00062	21 55 25.75	-10 34 03.0	18.1 V	910	1997 OF ₃	1997 08 02.02330	21 53 22.75	-10 39 30.8	19.1 V	910
1997 OM ₂	1997 08 02.02470	21 55 24.76	-10 34 10.3	18.1 V	910	1997 OF ₃	1997 08 02.04657	21 53 21.74	-10 39 35.6	19.1 V	910
1997 OM ₂	1997 08 02.04797	21 55 23.79	-10 34 17.5	18.2 V	910	1997 OG ₃	* 1997 07 31.00193	21 57 41.25	-10 31 39.4	18.4 V	910
1997 OV ₂	1997 09 08.84816	21 10 15.78	-08 20 45.9	18.7 V	910	1997 OG ₃	1997 07 31.02565	21 57 40.50	-10 31 46.5	18.4 V	910
1997 OV ₂	1997 09 08.87055	21 10 14.95	-08 20 48.5	18.8 V	910	1997 OG ₃	1997 07 31.04849	21 57 39.78	-10 31 53.5	18.1 V	910
1997 OV ₂	1997 09 08.89325	21 10 14.10	-08 20 50.9	18.8 V	910	1997 OG ₃	1997 08 02.00151	21 56 41.98	-10 42 05.9	18.3 V	910
1997 OY ₂	* 1997 07 30.98308	21 30 29.58	-10 23 43.5	18.6 V	910	1997 OG ₃	1997 08 02.02559	21 56 41.14	-10 42 13.9	18.3 V	910
1997 OY ₂	1997 07 31.00680	21 30 28.65	-10 23 52.8	18.6 V	910	1997 OG ₃	1997 08 02.04887	21 56 40.33	-10 42 21.5	18.3 V	910
1997 OY ₂	1997 07 31.02964	21 30 27.77	-10 24 01.9	18.5 V	910	1997 PS	1997 08 01.98524	21 33 12.79	-10 45 58.5	18.2 V	910
1997 OY ₂	1997 08 01.98248	21 29 13.74	-10 37 09.5	19.1 V	910	1997 PS	1997 08 02.00931	21 33 11.39	-10 45 55.4	18.4 V	910
1997 OY ₂	1997 08 02.00656	21 29 12.77	-10 37 19.3	19.1 V	910	1997 PS	1997 08 02.03258	21 33 10.05	-10 45 52.1	18.3 V	910
1997 OY ₂	1997 08 02.02983	21 29 11.83	-10 37 28.9	19.1 V	910	1997 PV	1997 08 01.99943	21 53 42.69	-10 34 48.4	19.2 V	910
1997 OZ ₂	* 1997 07 30.98398	21 31 47.88	-10 20 18.9	20.0 V	910	1997 PV	1997 08 02.02351	21 53 41.52	-10 34 50.3	19.3 V	910
1997 OZ ₂	1997 07 31.00770	21 31 46.39	-10 20 21.5	20.3 V	910	1997 PV	1997 08 02.04678	21 53 40.38	-10 34 52.3	19.2 V	910
1997 OZ ₂	1997 07 31.03053	21 31 44.94	-10 20 23.8	19.9 V	910	1997 PW	1997 08 01.99342	21 45 03.16	-10 20 50.7	20.3 V	910
1997 OZ ₂	1997 08 01.98284	21 29 45.46	-10 23 58.2	20.1 V	910	1997 PW	1997 08 02.01750	21 45 02.32	-10 20 55.9	20.0 V	910
1997 OZ ₂	1997 08 02.00691	21 29 43.92	-10 24 01.1	20.3 V	910	1997 PW	1997 08 02.04078	21 45 01.46	-10 21 00.5	20.0 V	910
1997 OZ ₂	1997 08 02.03018	21 29 42.43	-10 24 03.2	20.1 V	910	1997 PY	1997 08 02.00147	21 56 40.84	-10 21 44.4	19.3 V	910
1997 OA ₃	* 1997 07 30.98496	21 33 12.47	-10 41 40.9	19.9 V	910	1997 PY	1997 08 02.02555	21 56 39.77	-10 21 49.6	19.9 V	910
1997 OA ₃	1997 07 31.00868	21 33 11.22	-10 41 40.3	19.6 V	910	1997 PY	1997 08 02.04882	21 56 38.78	-10 21 55.1	19.7 V	910
1997 OA ₃	1997 07 31.03151	21 33 10.01	-10 41 39.9	19.7 V	910	1997 PL ₂	1997 09 03.87795	22 13 57.25	-07 44 08.5	19.4 V	910
1997 OA ₃	1997 08 01.98407	21 31 31.83	-10 41 07.7	19.5 V	910	1997 PL ₂	1997 09 03.90208	22 13 56.06	-07 44 16.4	19.4 V	910
1997 OA ₃	1997 08 02.00815	21 31 30.53	-10 41 07.2	19.7 V	910	1997 PL ₂	1997 09 03.92594	22 13 54.90	-07 44 24.0	19.3 V	910
1997 OA ₃	1997 08 02.03142	21 31 29.27	-10 41 07.2	19.6 V	910	1997 PQ ₅	1997 08 31.89911	21 20 36.83	-08 30 04.5	20.4 V	910
1997 OB ₃	* 1997 07 30.99007	21 40 35.09	-10 28 46.2	19.3 V	910	1997 PQ ₅	1997 08 31.92307	21 20 35.65	-08 30 11.9	20.6 V	910
1997 OB ₃	1997 07 31.01379	21 40 34.07	-10 28 52.8	19.1 V	910	1997 PQ ₅	1997 08 31.94805	21 20 34.40	-08 30 19.4	20.3 V	910
1997 OB ₃	1997 07 31.03663	21 40 33.10	-10 28 59.5	18.8 V	910	1997 PR ₅	* 1997 08 01.99095	21 41 27.53	-10 43 03.0	21.0 V	910
1997 OB ₃	1997 08 01.98940	21 39 13.36	-10 38 37.0	18.8 V	910	1997 PR ₅	1997 08 02.01502	21 41 26.11	-10 43 01.4	20.6 V	910
1997 OB ₃	1997 08 02.01348	21 39 12.27	-10 38 45.1	19.0 V	910	1997 PR ₅	1997 08 02.03829	21 41 24.72	-10 42 59.2	20.6 V	910
1997 OB ₃	1997 08 02.03675	21 39 11.23	-10 38 52.2	19.0 V	910	1997 PR ₅	1997 08 06.01703	21 37 31.16	-10 37 35.8	21.0 V	910
1997 OC ₃	* 1997 07 30.99221	21 43 40.48	-10 24 04.0	20.2 V	910	1997 PR ₅	1997 08 06.04065	21 37 29.71	-10 37 34.0	21.3 V	910
1997 OC ₃	1997 07 31.01593	21 43 39.48	-10 24 13.1	19.4 V	910	1997 PR ₅	1997 08 06.06437	21 37 28.27	-10 37 32.2	20.8 V	910
1997 OC ₃	1997 07 31.03877	21 43 38.50	-10 24 22.3	19.5 V	910	1997 PS ₅	* 1997 08 01.99174	21 42 36.36	-10 33 20.2	19.8 V	910
1997 OC ₃	1997 08 01.99151	21 42 16.19	-10 37 10.7	19.4 V	910	1997 PS ₅	1997 08 02.01582	21 42 35.25	-10 33 28.7	19.6 V	910
1997 OC ₃	1997 08 02.01559	21 42 15.08	-10 37 19.8	19.6 V	910	1997 PS ₅	1997 08 02.03909	21 42 34.17	-10 33 37.4	19.4 V	910
1997 OC ₃	1997 08 02.03886	21 42 14.05	-10 37 29.3	19.3 V	910	1997 PS ₅	1997 08 03.90134	21 41 11.54	-10 45 03.1	19.4 V	910
1997 OD ₃	* 1997 07 30.99516	21 47 55.02	-10 33 41.0	19.2 V	910	1997 PS ₅	1997 08 03.92645	21 41 10.36	-10 45 12.9	19.9 V	910
1997 OD ₃	1997 07 31.01888	21 47 53.74	-10 33 46.1	19.3 V	910	1997 PS ₅	1997 08 03.95065	21 41 09.24	-10 45 22.1	19.1 V	910
1997 OD ₃	1997 07 31.04171	21 47 52.53	-10 33 50.7	19.3 V	910	1997 PT ₅	* 1997 08 01.99560	21 48 11.80	-10 23 36.0	20.0 V	910
1997 OD ₃	1997 08 01.99421	21 46 09.77	-10 40 42.8	19.2 V	910	1997 PT ₅	1997 08 02.01968	21 48 10.63	-10 23 41.0	19.7 V	910
1997 OD ₃	1997 08 02.01828	21 46 08.42	-10 40 47.9	19.4 V	910	1997 PT ₅	1997 08 02.04295	21 48 09.47	-10 23 45.2	20.0 V	910
1997 OD ₃	1997 08 02.04155	21 46 07.12	-10 40 52.9	19.2 V	910	1997 PT ₅	1997 08 06.02215	21 44 54.01	-10 37 04.9	20.0 V	910
1997 OE ₃	* 1997 07 30.99701	21 50 34.85	-10 45 48.9	20.1 V	910	1997 PT ₅	1997 08 06.04577	21 44 52.76	-10 37 09.8	20.0 V	910
1997 OE ₃	1997 07 31.02073	21 50 33.36	-10 45 49.1	20.1 V	910	1997 PT ₅	1997 08 06.06949	21 44 51.49	-10 37 15.0	20.4 V	910
1997 OE ₃	1997 07 31.04356	21 50 31.93	-10 45 49.1	20.3 V	910	1997 PU ₅	* 1997 08 01.99591	21 48 39.03	-10 18 05.5	20.5 V	910
1997 OE ₃	1997 08 01.99585	21 48 31.60	-10 45 59.0	20.1 V	910	1997 PU ₅	1997 08 02.01999	21 48 37.79	-10 18 11.2	20.3 V	910

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1997 PU ₅	1997 08 02.04326	21 48 36.54	-10 18 16.0	20.2 V	910	1997 QP ₃	1997 09 12.10861	02 49 24.23	+14 56 34.6	18.9 V	910
1997 PU ₅	1997 08 06.02228	21 45 05.86	-10 33 12.8	20.1 V	910	1997 QP ₃	1997 09 12.12489	02 49 24.32	+14 56 32.9	18.9 V	910
1997 PU ₅	1997 08 06.04591	21 45 04.52	-10 33 18.8	20.0 V	910	1997 QP ₃	1997 09 12.15110	02 49 24.45	+14 56 30.0	18.8 V	910
1997 PU ₅	1997 08 06.06962	21 45 03.18	-10 33 23.9	20.6 V	910	1997 QQ ₃	* 1997 08 30.04204	02 45 11.09	+15 01 45.7	19.9 V	910
1997 QU	1997 08 31.89930	21 20 51.99	-08 40 39.4	18.2 V	910	1997 QQ ₃	1997 08 30.07192	02 45 11.65	+15 01 47.2	19.4 V	910
1997 QU	1997 08 31.92325	21 20 50.94	-08 40 49.0	18.2 V	910	1997 QQ ₃	1997 08 30.09623	02 45 12.07	+15 01 48.7	19.2 V	910
1997 QU	1997 08 31.94823	21 20 49.86	-08 40 58.9	18.1 V	910	1997 QQ ₃	1997 09 01.10347	02 45 48.45	+15 02 57.6	20.6 V	910
1997 QV	1997 08 30.91673	21 22 26.82	-09 07 45.7	19.3 V	910	1997 QQ ₃	1997 09 01.12720	02 45 48.80	+15 02 58.5	20.7 V	910
1997 QV	1997 08 30.94103	21 22 25.70	-09 08 02.2	19.6 V	910	1997 QQ ₃	1997 09 01.15070	02 45 49.17	+15 02 59.1	20.8 V	910
1997 QV	1997 08 30.96742	21 22 24.47	-09 08 20.1	19.4 V	910	1997 QR ₃	* 1997 08 30.04300	02 46 34.57	+15 04 50.7	20.2 V	910
1997 QL ₁	1997 09 08.85390	21 18 32.92	-08 27 41.3	20.8 V	910	1997 QR ₃	1997 08 30.07289	02 46 35.88	+15 04 52.4	20.0 V	910
1997 QL ₁	1997 09 08.87629	21 18 32.32	-08 27 49.7	20.5 V	910	1997 QR ₃	1997 08 30.09722	02 46 36.93	+15 04 52.7	20.0 V	910
1997 QL ₁	1997 09 08.89900	21 18 31.65	-08 27 58.6	20.8 V	910	1997 QR ₃	1997 09 01.10505	02 48 04.36	+15 05 22.0	20.4 V	910
1997 QK ₂	1997 08 31.89421	21 13 30.64	-08 44 43.8	18.7 V	910	1997 QR ₃	1997 09 01.12877	02 48 05.31	+15 05 22.2	20.4 V	910
1997 QK ₂	1997 08 31.91816	21 13 29.43	-08 44 31.8	18.7 V	910	1997 QR ₃	1997 09 01.15229	02 48 06.26	+15 05 22.1	20.2 V	910
1997 QK ₂	1997 08 31.94314	21 13 28.17	-08 44 19.2	18.7 V	910	1997 QR ₃	1997 09 09.03777	02 52 47.21	+15 00 43.0	20.1 V	910
1997 QZ ₂	1997 09 06.90259	23 13 19.14	-01 48 39.2	18.1 V	910	1997 QR ₃	1997 09 09.06063	02 52 47.84	+15 00 41.4	20.2 V	910
1997 QZ ₂	1997 09 06.92698	23 13 17.68	-01 48 45.6	18.3 V	910	1997 QR ₃	1997 09 09.08357	02 52 48.46	+15 00 39.5	20.2 V	910
1997 QZ ₂	1997 09 06.95013	23 13 16.27	-01 48 51.8	18.5 V	910	1997 QS ₃	* 1997 08 30.04533	02 49 56.32	+15 05 14.2	20.1 V	910
1997 QL ₃	* 1997 08 30.03433	02 34 03.59	+15 06 14.7	18.9 V	910	1997 QS ₃	1997 08 30.07521	02 49 56.44	+15 05 18.7	19.9 V	910
1997 QL ₃	1997 08 30.06422	02 34 04.74	+15 06 22.8	19.2 V	910	1997 QS ₃	1997 08 30.09952	02 49 56.52	+15 05 22.0	20.3 V	910
1997 QL ₃	1997 08 30.08854	02 34 05.64	+15 06 29.1	19.6 V	910	1997 QS ₃	1997 09 01.10642	02 50 03.01	+15 09 48.6	20.3 V	910
1997 QL ₃	1997 09 01.09622	02 35 19.74	+15 14 53.4	19.3 V	910	1997 QS ₃	1997 09 01.13014	02 50 03.02	+15 09 51.7	20.3 V	910
1997 QL ₃	1997 09 01.11995	02 35 20.52	+15 14 59.2	19.2 V	910	1997 QS ₃	1997 09 01.15364	02 50 03.05	+15 09 54.6	20.3 V	910
1997 QL ₃	1997 09 01.14346	02 35 21.32	+15 15 05.0	18.9 V	910	1997 QT ₃	* 1997 08 30.04582	02 50 38.00	+15 05 43.4	19.2 V	910
1997 QM ₃	* 1997 08 30.03462	02 34 28.60	+14 46 22.7	17.8 V	910	1997 QT ₃	1997 08 30.07570	02 50 39.06	+15 05 37.0	19.0 V	910
1997 QM ₃	1997 08 30.06451	02 34 30.08	+14 46 36.7	17.9 V	910	1997 QT ₃	1997 08 30.10002	02 50 39.94	+15 05 31.7	19.0 V	910
1997 QM ₃	1997 08 30.08883	02 34 31.26	+14 46 48.4	17.5 V	910	1997 QT ₃	1997 09 01.10765	02 51 50.93	+14 57 46.5	19.0 V	910
1997 QM ₃	1997 09 01.09679	02 36 09.56	+15 02 15.3	17.8 V	910	1997 QT ₃	1997 09 01.13138	02 51 51.70	+14 57 40.9	19.1 V	910
1997 QM ₃	1997 09 01.12052	02 36 10.62	+15 02 26.2	17.9 V	910	1997 QT ₃	1997 09 01.15489	02 51 52.46	+14 57 35.2	19.0 V	910
1997 QM ₃	1997 09 01.14403	02 36 11.66	+15 02 37.0	18.2 V	910	1997 QU ₃	* 1997 08 30.04918	02 55 27.92	+15 13 26.2	20.9 V	910
1997 QN ₃	* 1997 08 30.03796	02 39 18.90	+14 46 14.7	17.5 V	910	1997 QU ₃	1997 08 30.07906	02 55 28.44	+15 13 28.7	21.5 V	910
1997 QN ₃	1997 08 30.06784	02 39 19.49	+14 46 23.5	18.0 V	910	1997 QU ₃	1997 08 30.10337	02 55 28.80	+15 13 30.5	20.8 V	910
1997 QN ₃	1997 08 30.09216	02 39 20.01	+14 46 30.3	17.8 V	910	1997 QU ₃	1997 09 01.11059	02 56 03.34	+15 15 56.4	20.7 V	910
1997 QN ₃	1997 09 01.09949	02 40 03.70	+14 55 32.0	17.9 V	910	1997 QU ₃	1997 09 01.13431	02 56 03.70	+15 15 58.1	20.7 V	910
1997 QN ₃	1997 09 01.12321	02 40 04.14	+14 55 38.4	18.2 V	910	1997 QU ₃	1997 09 01.15782	02 56 04.06	+15 15 59.6	20.8 V	910
1997 QN ₃	1997 09 01.14672	02 40 04.57	+14 55 44.6	18.9 V	910	1997 QV ₃	* 1997 08 30.05004	02 56 43.27	+15 08 37.8	20.1 V	910
1997 QO ₃	* 1997 08 30.03910	02 40 57.27	+14 47 20.7	18.2 V	910	1997 QV ₃	1997 08 30.07992	02 56 43.94	+15 08 36.6	20.0 V	910
1997 QO ₃	1997 08 30.06898	02 40 57.79	+14 47 23.6	18.3 V	910	1997 QV ₃	1997 08 30.10424	02 56 44.49	+15 08 35.3	20.0 V	910
1997 QO ₃	1997 08 30.09329	02 40 58.21	+14 47 26.2	18.2 V	910	1997 QV ₃	1997 09 01.11158	02 57 29.78	+15 06 53.4	19.8 V	910
1997 QO ₃	1997 09 01.10051	02 41 32.57	+14 50 25.8	18.6 V	910	1997 QV ₃	1997 09 01.13530	02 57 30.25	+15 06 51.9	19.8 V	910
1997 QO ₃	1997 09 01.12423	02 41 32.89	+14 50 27.9	18.6 V	910	1997 QV ₃	1997 09 01.15881	02 57 30.72	+15 06 50.6	20.0 V	910
1997 QO ₃	1997 09 01.14774	02 41 33.22	+14 50 29.7	18.7 V	910	1997 QV ₃	1997 09 09.04239	02 59 28.60	+14 54 58.6	18.6 V	910
1997 QP ₃	* 1997 08 30.04202	02 45 09.50	+15 05 51.6	19.1 V	910	1997 QV ₃	1997 09 09.06525	02 59 28.78	+14 54 55.8	18.6 V	910
1997 QP ₃	1997 08 30.07191	02 45 10.42	+15 05 52.2	18.6 V	910	1997 QV ₃	1997 09 09.08819	02 59 28.95	+14 54 53.0	18.6 V	910
1997 QP ₃	1997 08 30.09623	02 45 11.13	+15 05 52.9	18.9 V	910	1997 QW ₃	* 1997 08 30.05043	02 57 17.68	+15 06 25.9	20.4 V	910
1997 QP ₃	1997 09 01.10374	02 46 10.80	+15 06 13.0	19.7 V	910	1997 QW ₃	1997 08 30.08032	02 57 18.95	+15 06 30.4	20.1 V	910
1997 QP ₃	1997 09 01.12746	02 46 11.41	+15 06 12.8	19.9 V	910	1997 QW ₃	1997 08 30.10464	02 57 19.96	+15 06 34.0	19.9 V	910
1997 QP ₃	1997 09 01.15097	02 46 12.03	+15 06 12.9	19.6 V	910	1997 QW ₃	1997 09 01.11245	02 58 44.75	+15 11 21.7	20.4 V	910
1997 QP ₃	1997 09 09.03508	02 48 53.70	+15 01 13.9	19.6 V	910	1997 QW ₃	1997 09 01.13618	02 58 45.66	+15 11 25.1	20.2 V	910
1997 QP ₃	1997 09 09.05793	02 48 53.97	+15 01 12.1	19.5 V	910	1997 QW ₃	1997 09 01.15969	02 58 46.59	+15 11 28.3	20.2 V	910
1997 QP ₃	1997 09 09.08087	02 48 54.22	+15 01 10.5	19.9 V	910	1997 QX ₃	* 1997 08 30.05143	02 58 44.19	+15 07 29.6	21.0 V	910

1997 QX ₃	1997 08 30.08131	02 58 44.42	+15 07 28.2	21.0 V	910	1997 RB	1997 09 06.95956	23 26 53.71	-02 02 59.0	19.7 V	910
1997 QX ₃	1997 08 30.10562	02 58 44.57	+15 07 26.4	20.4 V	910	1997 RC ₁	1997 09 03.88432	22 23 09.06	-07 40 07.5	19.4 V	910
1997 QX ₃	1997 09 01.11259	02 58 57.67	+15 05 11.5	19.3 V	910	1997 RC ₁	1997 09 03.90846	22 23 07.87	-07 40 16.5	19.4 V	910
1997 QX ₃	1997 09 01.13631	02 58 57.79	+15 05 09.7	19.2 V	910	1997 RC ₁	1997 09 03.93231	22 23 06.69	-07 40 25.2	19.4 V	910
1997 QX ₃	1997 09 01.15981	02 58 57.93	+15 05 08.0	19.3 V	910	1997 RV ₁	* 1997 09 03.99903	02 32 06.21	+14 28 50.8	20.3 V	910
1997 QX ₃	1997 09 09.04227	02 59 17.76	+14 53 46.8	19.5 V	910	1997 RV ₁	1997 09 04.02349	02 32 06.32	+14 28 46.5	20.6 V	910
1997 QX ₃	1997 09 09.06512	02 59 17.74	+14 53 44.4	19.4 V	910	1997 RV ₁	1997 09 04.04982	02 32 06.50	+14 28 41.1	20.7 V	910
1997 QX ₃	1997 09 09.08805	02 59 17.69	+14 53 42.1	19.3 V	910	1997 RV ₁	1997 09 05.06657	02 32 12.08	+14 25 29.8	20.3 V	910
1997 QY ₃	* 1997 08 30.90853	21 10 37.84	-08 45 20.1	20.3 V	910	1997 RV ₁	1997 09 05.08987	02 32 12.21	+14 25 25.1	20.8 V	910
1997 QY ₃	1997 08 30.93284	21 10 36.88	-08 45 25.3	20.4 V	910	1997 RV ₁	1997 09 05.11989	02 32 12.28	+14 25 18.8	20.5 V	910
1997 QY ₃	1997 08 30.95923	21 10 35.87	-08 45 30.8	20.3 V	910	1997 RW ₁	* 1997 09 03.99925	02 32 25.67	+14 22 42.9	19.2 V	910
1997 QY ₃	1997 08 31.89181	21 10 02.64	-08 48 43.2	20.3 V	910	1997 RW ₁	1997 09 04.02372	02 32 25.83	+14 22 48.5	19.4 V	910
1997 QY ₃	1997 08 31.91577	21 10 01.73	-08 48 48.2	20.5 V	910	1997 RW ₁	1997 09 04.05004	02 32 26.01	+14 22 54.8	19.3 V	910
1997 QY ₃	1997 08 31.94075	21 10 00.77	-08 48 53.3	20.4 V	910	1997 RW ₁	1997 09 05.06681	02 32 33.01	+14 26 48.9	19.7 V	910
1997 QZ ₃	* 1997 08 30.91744	21 23 30.36	-08 46 01.7	20.4 V	910	1997 RW ₁	1997 09 05.09011	02 32 33.13	+14 26 54.3	19.5 V	910
1997 QZ ₃	1997 08 30.94175	21 23 29.26	-08 46 09.0	20.1 V	910	1997 RW ₁	1997 09 05.12013	02 32 33.25	+14 27 01.3	19.6 V	910
1997 QZ ₃	1997 08 30.96814	21 23 28.08	-08 46 16.8	20.0 V	910	1997 RX ₁	* 1997 09 04.00084	02 34 43.27	+14 17 13.7	20.1 V	910
1997 QZ ₃	1997 08 31.90064	21 22 47.87	-08 50 58.5	20.7 V	910	1997 RX ₁	1997 09 04.02530	02 34 43.40	+14 17 16.2	20.2 V	910
1997 QZ ₃	1997 08 31.92459	21 22 46.79	-08 51 05.9	20.1 V	910	1997 RX ₁	1997 09 04.05163	02 34 43.56	+14 17 18.8	20.1 V	910
1997 QZ ₃	1997 08 31.94958	21 22 45.69	-08 51 13.4	20.2 V	910	1997 RX ₁	1997 09 05.06840	02 34 50.18	+14 19 00.5	20.3 V	910
1997 QA ₄	* 1997 08 30.91770	21 23 52.79	-08 48 36.7	20.8 V	910	1997 RX ₁	1997 09 05.09170	02 34 50.31	+14 19 02.9	19.7 V	910
1997 QA ₄	1997 08 30.94201	21 23 51.50	-08 48 36.7	20.8 V	910	1997 RX ₁	1997 09 05.12172	02 34 50.44	+14 19 05.7	20.6 V	910
1997 QA ₄	1997 08 30.96840	21 23 50.00	-08 48 37.6	21.0 V	910	1997 RY ₁	* 1997 09 04.00110	02 35 05.05	+14 43 50.0	19.8 V	910
1997 QA ₄	1997 08 31.90079	21 23 01.19	-08 48 58.4	20.7 V	910	1997 RY ₁	1997 09 04.02557	02 35 05.51	+14 43 52.0	19.8 V	910
1997 QA ₄	1997 08 31.92474	21 22 59.92	-08 48 58.9	21.1 V	910	1997 RY ₁	1997 09 04.05190	02 35 06.03	+14 43 53.1	20.0 V	910
1997 QA ₄	1997 08 31.94972	21 22 58.57	-08 48 59.4	21.0 V	910	1997 RY ₁	1997 09 05.06881	02 35 25.17	+14 44 52.1	19.7 V	910
1997 QK ₄	* 1997 08 30.03543	02 35 38.59	+14 51 52.7	18.8 V	910	1997 RY ₁	1997 09 05.09211	02 35 25.59	+14 44 53.3	19.6 V	910
1997 QK ₄	1997 08 30.06531	02 35 39.12	+14 51 50.9	18.7 V	910	1997 RY ₁	1997 09 05.12214	02 35 26.05	+14 44 55.1	19.6 V	910
1997 QK ₄	1997 08 30.08962	02 35 39.53	+14 51 49.5	18.5 V	910	1997 RY ₁	1997 09 09.02641	02 36 23.36	+14 47 19.9	19.5 V	910
1997 QK ₄	1997 09 05.06997	02 37 05.52	+14 43 10.6	19.0 V	910	1997 RY ₁	1997 09 09.04926	02 36 23.58	+14 47 20.6	19.8 V	910
1997 QK ₄	1997 09 05.09327	02 37 05.71	+14 43 08.1	18.9 V	910	1997 RY ₁	1997 09 09.07220	02 36 23.81	+14 47 20.9	19.9 V	910
1997 QK ₄	1997 09 05.12329	02 37 05.96	+14 43 04.6	18.9 V	910	1997 RZ ₁	* 1997 09 04.00127	02 35 20.41	+14 25 22.0	20.1 V	910
1997 QL ₄	* 1997 08 31.06904	03 54 42.73	+19 07 03.6	19.8 V	910	1997 RZ ₁	1997 09 04.02574	02 35 20.88	+14 25 21.4	19.8 V	910
1997 QL ₄	1997 08 31.09685	03 54 44.59	+19 07 26.3	20.1 V	910	1997 RZ ₁	1997 09 04.05207	02 35 21.41	+14 25 20.5	19.8 V	910
1997 QL ₄	1997 08 31.12184	03 54 46.27	+19 07 46.1	20.0 V	910	1997 RZ ₁	1997 09 05.06899	02 35 41.47	+14 24 47.9	20.1 V	910
1997 QL ₄	1997 09 07.11175	04 02 19.30	+20 41 49.9	19.9 V	910	1997 RZ ₁	1997 09 05.09229	02 35 41.87	+14 24 46.9	20.1 V	910
1997 QL ₄	1997 09 07.12750	04 02 20.22	+20 42 02.9	20.0 V	910	1997 RZ ₁	1997 09 05.12232	02 35 42.36	+14 24 45.7	19.9 V	910
1997 QL ₄	1997 09 07.14575	04 02 21.28	+20 42 18.0	20.0 V	910	1997 RA ₂	* 1997 09 04.00618	02 42 25.87	+14 26 01.3	18.8 V	910
1997 QQ ₄	* 1997 08 30.03476	02 34 41.12	+14 50 24.4	19.1 V	910	1997 RA ₂	1997 09 04.03065	02 42 26.28	+14 26 03.6	19.2 V	910
1997 QQ ₄	1997 08 30.06464	02 34 41.69	+14 50 28.7	19.2 V	910	1997 RA ₂	1997 09 04.05698	02 42 26.66	+14 26 06.8	19.6 V	910
1997 QQ ₄	1997 08 30.08896	02 34 42.12	+14 50 32.6	19.0 V	910	1997 RA ₂	1997 09 05.07385	02 42 42.41	+14 28 00.2	19.7 V	910
1997 QQ ₄	1997 09 09.02660	02 36 38.58	+15 09 53.2	19.1 V	910	1997 RA ₂	1997 09 05.09715	02 42 42.73	+14 28 02.9	19.5 V	910
1997 QQ ₄	1997 09 09.04944	02 36 38.63	+15 09 55.3	19.0 V	910	1997 RA ₂	1997 09 05.12717	02 42 43.11	+14 28 06.0	19.8 V	910
1997 QQ ₄	1997 09 09.07239	02 36 38.69	+15 09 57.3	19.1 V	910	1997 RB ₂	* 1997 09 04.00634	02 42 39.19	+14 35 38.5	18.4 V	910
1997 QR ₄	* 1997 08 31.89234	21 10 48.61	-08 46 22.4	21.1 V	910	1997 RB ₂	1997 09 04.03081	02 42 39.43	+14 35 37.6	18.9 V	910
1997 QR ₄	1997 08 31.91629	21 10 47.34	-08 46 18.8	21.3 V	910	1997 RB ₂	1997 09 04.05714	02 42 39.68	+14 35 36.3	18.8 V	910
1997 QR ₄	1997 08 31.94127	21 10 46.09	-08 46 15.3	20.9 V	910	1997 RB ₂	1997 09 05.07395	02 42 50.32	+14 34 34.1	18.7 V	910
1997 QR ₄	1997 09 08.84461	21 05 08.44	-08 28 46.0	21.5 V	910	1997 RB ₂	1997 09 05.09725	02 42 50.51	+14 34 32.4	18.5 V	910
1997 QR ₄	1997 09 08.86700	21 05 07.60	-08 28 43.1	21.4 V	910	1997 RB ₂	1997 09 05.12726	02 42 50.75	+14 34 30.7	18.9 V	910
1997 QR ₄	1997 09 08.88971	21 05 06.67	-08 28 39.9	21.4 V	910	1997 RC ₂	* 1997 09 04.00747	02 44 17.05	+14 28 19.4	20.0 V	910
1997 RB	1997 09 06.91202	23 26 56.18	-02 02 54.8	19.3 V	910	1997 RC ₂	1997 09 04.03194	02 44 17.33	+14 28 12.1	20.1 V	910
1997 RB	1997 09 06.93641	23 26 54.93	-02 02 57.0	19.5 V	910	1997 RC ₂	1997 09 04.05827	02 44 17.65	+14 28 03.5	20.5 V	910

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1997 RC ₂	1997 09 05.07508	02 44 29.10	+14 22 51.4	20.2 V	910	1997 RM ₂	1997 09 04.04082	02 57 08.17	+14 16 55.8	21.3 V	910
1997 RC ₂	1997 09 05.09838	02 44 29.30	+14 22 44.1	20.4 V	910	1997 RM ₂	1997 09 04.06715	02 57 08.52	+14 16 59.1	21.2 V	910
1997 RC ₂	1997 09 05.12840	02 44 29.58	+14 22 34.7	20.3 V	910	1997 RM ₂	1997 09 05.08401	02 57 23.28	+14 18 51.9	21.4 V	910
1997 RD ₂	* 1997 09 04.00981	02 47 39.23	+14 32 14.8	20.6 V	910	1997 RM ₂	1997 09 05.10731	02 57 23.55	+14 18 54.4	21.3 V	910
1997 RD ₂	1997 09 04.03428	02 47 39.87	+14 32 14.9	20.6 V	910	1997 RM ₂	1997 09 05.13733	02 57 23.91	+14 18 57.8	21.4 V	910
1997 RD ₂	1997 09 04.06061	02 47 40.58	+14 32 15.2	20.6 V	910	1997 RN ₂	* 1997 09 04.01653	02 57 20.34	+14 35 25.9	21.0 V	910
1997 RD ₂	1997 09 05.07762	02 48 07.86	+14 32 06.2	20.5 V	910	1997 RN ₂	1997 09 04.04101	02 57 21.47	+14 35 31.7	21.2 V	910
1997 RD ₂	1997 09 05.10092	02 48 08.44	+14 32 06.0	21.0 V	910	1997 RN ₂	1997 09 04.06734	02 57 22.69	+14 35 38.0	21.0 V	910
1997 RD ₂	1997 09 05.13094	02 48 09.14	+14 32 05.4	20.1 V	910	1997 RN ₂	1997 09 05.08458	02 58 09.88	+14 39 31.0	21.0 V	910
1997 RE ₂	* 1997 09 04.01176	02 50 28.20	+14 29 57.3	21.0 V	910	1997 RN ₂	1997 09 05.10789	02 58 10.90	+14 39 36.8	20.9 V	910
1997 RE ₂	1997 09 04.03623	02 50 28.50	+14 29 56.9	21.2 V	910	1997 RN ₂	1997 09 05.13792	02 58 12.24	+14 39 43.3	21.1 V	910
1997 RE ₂	1997 09 04.06255	02 50 28.88	+14 29 56.2	21.3 V	910	1997 RO ₂	* 1997 09 04.01700	02 58 00.48	+14 42 57.4	20.6 V	910
1997 RE ₂	1997 09 05.07939	02 50 42.08	+14 29 16.6	21.4 V	910	1997 RO ₂	1997 09 04.04148	02 58 01.14	+14 42 56.8	20.7 V	910
1997 RE ₂	1997 09 05.10270	02 50 42.32	+14 29 15.9	21.4 V	910	1997 RO ₂	1997 09 04.06781	02 58 01.85	+14 42 55.9	20.8 V	910
1997 RE ₂	1997 09 05.13271	02 50 42.63	+14 29 14.7	21.7 V	910	1997 RO ₂	1997 09 05.08481	02 58 29.30	+14 42 13.0	18.8 V	910
1997 RF ₂	* 1997 09 04.01217	02 51 05.08	+14 17 56.4	21.4 V	910	1997 RO ₂	1997 09 05.10812	02 58 29.89	+14 42 12.2	18.4 V	910
1997 RF ₂	1997 09 04.03664	02 51 05.84	+14 17 54.3	21.7 V	910	1997 RO ₂	1997 09 05.13814	02 58 30.63	+14 42 10.7	18.6 V	910
1997 RF ₂	1997 09 04.06298	02 51 06.65	+14 17 52.4	20.6 V	910	1997 RP ₂	* 1997 09 04.01767	02 59 00.04	+14 31 45.0	19.7 V	910
1997 RF ₂	1997 09 05.08004	02 51 39.74	+14 16 19.1	21.8 V	910	1997 RP ₂	1997 09 04.04214	02 59 00.43	+14 31 43.1	19.6 V	910
1997 RF ₂	1997 09 05.10335	02 51 40.43	+14 16 16.9	22.0 V	910	1997 RP ₂	1997 09 04.06847	02 59 00.90	+14 31 41.0	19.8 V	910
1997 RF ₂	1997 09 05.13337	02 51 41.30	+14 16 14.4	21.9 V	910	1997 RP ₂	1997 09 05.08535	02 59 17.30	+14 30 28.6	19.1 V	910
1997 RG ₂	* 1997 09 04.01323	02 52 36.72	+14 21 25.7	21.0 V	910	1997 RP ₂	1997 09 05.10865	02 59 17.59	+14 30 26.8	19.2 V	910
1997 RG ₂	1997 09 04.03771	02 52 37.45	+14 21 30.8	21.0 V	910	1997 RP ₂	1997 09 05.13867	02 59 18.04	+14 30 25.0	19.4 V	910
1997 RG ₂	1997 09 04.06404	02 52 38.21	+14 21 35.7	20.9 V	910	1997 RQ ₂	* 1997 09 04.01797	02 59 26.48	+14 27 52.5	18.2 V	910
1997 RG ₂	1997 09 05.08108	02 53 08.74	+14 24 45.3	21.1 V	910	1997 RQ ₂	1997 09 04.04245	02 59 27.40	+14 27 51.1	18.6 V	910
1997 RG ₂	1997 09 05.10439	02 53 09.37	+14 24 49.7	21.4 V	910	1997 RQ ₂	1997 09 04.06878	02 59 28.36	+14 27 49.0	18.4 V	910
1997 RG ₂	1997 09 05.13441	02 53 10.20	+14 24 55.3	21.0 V	910	1997 RQ ₂	1997 09 05.08591	03 00 06.45	+14 26 25.7	18.6 V	910
1997 RH ₂	* 1997 09 04.01328	02 52 40.94	+14 18 34.0	22.0 V	910	1997 RQ ₂	1997 09 05.10922	03 00 07.26	+14 26 23.8	19.2 V	910
1997 RH ₂	1997 09 04.03776	02 52 42.16	+14 18 35.6	21.5 V	910	1997 RQ ₂	1997 09 05.13924	03 00 08.30	+14 26 21.1	18.7 V	910
1997 RH ₂	1997 09 04.06410	02 52 43.47	+14 18 38.3	22.2 V	910	1997 RR ₂	* 1997 09 01.09853	02 38 40.33	+14 59 38.6	20.3 V	910
1997 RH ₂	1997 09 05.08138	02 53 35.09	+14 19 39.5	21.5 V	910	1997 RR ₂	1997 09 01.12225	02 38 40.81	+14 59 33.0	20.1 V	910
1997 RH ₂	1997 09 05.10469	02 53 36.19	+14 19 41.2	22.0 V	910	1997 RR ₂	1997 09 01.14576	02 38 41.27	+14 59 27.5	20.3 V	910
1997 RH ₂	1997 09 05.13472	02 53 37.58	+14 19 43.0	21.2 V	910	1997 RR ₂	1997 09 05.07192	02 39 54.24	+14 42 42.0	19.9 V	910
1997 RJ ₂	* 1997 09 04.01335	02 52 46.79	+14 27 13.5	21.1 V	910	1997 RR ₂	1997 09 05.09522	02 39 54.59	+14 42 35.4	20.0 V	910
1997 RJ ₂	1997 09 04.03783	02 52 47.86	+14 27 14.9	21.2 V	910	1997 RR ₂	1997 09 05.12524	02 39 54.92	+14 42 27.3	20.6 V	910
1997 RJ ₂	1997 09 04.06417	02 52 49.03	+14 27 16.7	20.8 V	910	1997 RS ₃	* 1997 09 01.09271	02 30 16.51	+14 47 18.0	18.8 V	910
1997 RJ ₂	1997 09 05.08139	02 53 34.61	+14 28 15.5	21.1 V	910	1997 RS ₃	1997 09 01.11643	02 30 16.66	+14 47 20.8	18.7 V	910
1997 RJ ₂	1997 09 05.10470	02 53 35.59	+14 28 16.9	20.9 V	910	1997 RS ₃	1997 09 01.13994	02 30 16.82	+14 47 23.4	18.8 V	910
1997 RJ ₂	1997 09 05.13472	02 53 36.84	+14 28 18.5	20.8 V	910	1997 RS ₃	1997 09 09.02235	02 30 30.76	+15 00 05.5	18.2 V	910
1997 RK ₂	* 1997 09 04.01455	02 54 29.59	+14 35 30.2	19.7 V	910	1997 RS ₃	1997 09 09.04519	02 30 30.65	+15 00 07.2	18.1 V	910
1997 RK ₂	1997 09 04.03903	02 54 30.54	+14 35 29.4	19.7 V	910	1997 RS ₃	1997 09 09.06813	02 30 30.52	+15 00 09.1	18.0 V	910
1997 RK ₂	1997 09 04.06537	02 54 31.55	+14 35 28.4	19.7 V	910	1997 RS ₃	1997 09 12.09532	02 30 12.50	+15 03 25.0	18.1 V	910
1997 RK ₂	1997 09 05.08251	02 55 11.48	+14 34 39.9	19.9 V	910	1997 RS ₃	1997 09 12.11160	02 30 12.36	+15 03 25.7	18.3 V	910
1997 RK ₂	1997 09 05.10582	02 55 12.32	+14 34 38.7	19.9 V	910	1997 RS ₃	1997 09 12.13780	02 30 12.11	+15 03 27.3	18.4 V	910
1997 RK ₂	1997 09 05.13585	02 55 13.44	+14 34 37.2	19.8 V	910	1997 RT ₃	* 1997 09 01.09343	02 31 18.68	+14 51 01.1	18.6 V	910
1997 RL ₂	* 1997 09 04.01482	02 54 53.92	+14 25 59.1	20.8 V	910	1997 RT ₃	1997 09 01.11715	02 31 18.81	+14 51 03.2	19.0 V	910
1997 RL ₂	1997 09 04.03930	02 54 54.91	+14 26 00.1	21.3 V	910	1997 RT ₃	1997 09 01.14065	02 31 18.93	+14 51 05.6	18.9 V	910
1997 RL ₂	1997 09 04.06563	02 54 55.94	+14 26 01.4	22.1 V	910	1997 RT ₃	1997 09 09.02291	02 31 20.09	+15 00 00.2	20.2 V	910
1997 RL ₂	1997 09 05.08280	02 55 37.38	+14 26 28.4	21.0 V	910	1997 RT ₃	1997 09 09.04576	02 31 19.94	+15 00 00.7	20.4 V	910
1997 RL ₂	1997 09 05.10611	02 55 38.26	+14 26 29.1	20.9 V	910	1997 RT ₃	1997 09 09.06870	02 31 19.77	+15 00 01.8	20.4 V	910
1997 RL ₂	1997 09 05.13614	02 55 39.41	+14 26 29.6	21.1 V	910	1997 RT ₃	1997 09 12.09580	02 30 53.94	+15 01 32.7	19.0 V	910
1997 RM ₂	* 1997 09 04.01635	02 57 07.81	+14 16 53.0	21.6 V	910	1997 RT ₃	1997 09 12.11207	02 30 53.73	+15 01 33.6	19.3 V	910

1997 RT ₃	1997 09 12.13828	02 30 53.41	+15 01 33.9	19.4 V	910	1997 RB ₄	1997 09 09.04127	02 57 51.84	+14 49 15.2	20.9 V	910
1997 RU ₃	* 1997 09 01.09493	02 33 27.81	+15 07 05.1	20.1 V	910	1997 RB ₄	1997 09 09.06412	02 57 51.94	+14 49 13.6	20.9 V	910
1997 RU ₃	1997 09 01.11865	02 33 28.22	+15 07 02.7	20.4 V	910	1997 RB ₄	1997 09 09.08706	02 57 52.05	+14 49 11.7	21.1 V	910
1997 RU ₃	1997 09 01.14215	02 33 28.53	+15 07 00.8	20.7 V	910	1997 RC ₄	* 1997 09 01.11068	02 56 15.09	+14 46 16.8	22.8 V	910
1997 RU ₃	1997 09 09.02530	02 34 47.00	+14 49 33.9	20.4 V	910	1997 RC ₄	1997 09 01.13441	02 56 15.55	+14 46 19.8	22.6 V	910
1997 RU ₃	1997 09 09.04815	02 34 47.03	+14 49 29.7	20.2 V	910	1997 RC ₄	1997 09 01.15791	02 56 16.01	+14 46 22.8	21.7 V	910
1997 RU ₃	1997 09 09.07109	02 34 47.04	+14 49 25.8	20.0 V	910	1997 RC ₄	1997 09 09.04146	02 58 06.78	+14 58 15.0	21.9 V	910
1997 RV ₃	* 1997 09 01.09496	02 33 30.68	+14 49 40.5	20.1 V	910	1997 RC ₄	1997 09 09.06431	02 58 06.90	+14 58 16.5	21.7 V	910
1997 RV ₃	1997 09 01.11868	02 33 31.58	+14 49 42.9	20.1 V	910	1997 RC ₄	1997 09 09.08725	02 58 07.04	+14 58 18.0	21.6 V	910
1997 RV ₃	1997 09 01.14219	02 33 32.47	+14 49 45.8	20.1 V	910	1997 RD ₄	* 1997 09 03.99981	02 33 14.09	+14 40 13.1	19.3 V	910
1997 RV ₃	1997 09 09.02749	02 37 56.52	+14 59 42.8	19.7 V	910	1997 RD ₄	1997 09 04.02428	02 33 14.37	+14 40 20.5	19.4 V	910
1997 RV ₃	1997 09 09.05035	02 37 57.07	+14 59 44.1	19.6 V	910	1997 RD ₄	1997 09 04.05061	02 33 14.63	+14 40 28.4	19.4 V	910
1997 RV ₃	1997 09 09.07329	02 37 57.66	+14 59 44.5	19.6 V	910	1997 RD ₄	1997 09 09.02461	02 33 47.25	+15 04 07.6	19.0 V	910
1997 RV ₃	1997 09 12.10152	02 39 09.67	+15 00 53.7	19.7 V	910	1997 RD ₄	1997 09 09.04746	02 33 47.23	+15 04 13.6	18.9 V	910
1997 RV ₃	1997 09 12.11780	02 39 09.97	+15 00 53.9	19.7 V	910	1997 RD ₄	1997 09 09.07040	02 33 47.22	+15 04 19.6	18.9 V	910
1997 RV ₃	1997 09 12.14402	02 39 10.45	+15 00 53.8	19.6 V	910	1997 RE ₄	* 1997 09 04.00489	02 40 33.02	+14 44 14.6	19.6 V	910
1997 RW ₃	* 1997 09 01.09639	02 35 34.74	+14 47 43.8	20.2 V	910	1997 RE ₄	1997 09 04.02937	02 40 34.11	+14 44 22.8	19.6 V	910
1997 RW ₃	1997 09 01.12011	02 35 35.14	+14 47 47.7	20.5 V	910	1997 RE ₄	1997 09 04.05571	02 40 35.25	+14 44 31.3	19.9 V	910
1997 RW ₃	1997 09 01.14361	02 35 35.56	+14 47 51.9	20.3 V	910	1997 RE ₄	1997 09 09.03165	02 43 56.58	+15 09 34.1	19.9 V	910
1997 RW ₃	1997 09 09.02695	02 37 09.16	+15 06 27.8	20.9 V	910	1997 RE ₄	1997 09 09.05451	02 43 57.30	+15 09 40.9	19.9 V	910
1997 RW ₃	1997 09 09.04980	02 37 09.26	+15 06 30.5	20.1 V	910	1997 RE ₄	1997 09 09.07746	02 43 58.04	+15 09 46.9	20.0 V	910
1997 RW ₃	1997 09 09.07274	02 37 09.31	+15 06 32.8	21.0 V	910	1997 RF ₄	* 1997 09 04.00560	02 41 33.97	+14 43 12.7	19.2 V	910
1997 RX ₃	* 1997 09 01.10137	02 42 45.56	+15 06 23.6	19.7 V	910	1997 RF ₄	1997 09 04.03006	02 41 34.10	+14 43 17.3	19.6 V	910
1997 RX ₃	1997 09 01.12509	02 42 46.41	+15 06 25.5	20.4 V	910	1997 RF ₄	1997 09 04.05639	02 41 34.27	+14 43 22.4	19.5 V	910
1997 RX ₃	1997 09 01.14860	02 42 47.26	+15 06 27.6	20.6 V	910	1997 RF ₄	1997 09 09.03015	02 41 47.16	+14 58 10.0	19.2 V	910
1997 RX ₃	1997 09 09.03370	02 46 53.26	+15 13 10.1	21.4 V	910	1997 RF ₄	1997 09 09.05300	02 41 47.11	+14 58 13.8	19.2 V	910
1997 RX ₃	1997 09 09.05655	02 46 53.77	+15 13 10.8	21.2 V	910	1997 RF ₄	1997 09 09.07594	02 41 47.03	+14 58 17.6	19.2 V	910
1997 RX ₃	1997 09 09.07950	02 46 54.31	+15 13 10.9	21.6 V	910	1997 RF ₄	1997 09 12.10319	02 41 34.15	+15 06 05.2	18.8 V	910
1997 RX ₃	1997 09 12.10766	02 48 00.67	+15 13 17.6	20.7 V	910	1997 RF ₄	1997 09 12.11947	02 41 34.01	+15 06 07.5	18.9 V	910
1997 RX ₃	1997 09 12.12394	02 48 00.96	+15 13 17.2	20.6 V	910	1997 RF ₄	1997 09 12.14567	02 41 33.79	+15 06 11.2	18.8 V	910
1997 RX ₃	1997 09 12.15016	02 48 01.39	+15 13 17.0	20.7 V	910	1997 RG ₄	* 1997 09 04.01614	02 56 47.38	+14 33 29.3	21.4 V	910
1997 RY ₃	* 1997 09 01.10567	02 48 58.08	+15 08 29.6	21.5 V	910	1997 RG ₄	1997 09 09.04129	02 57 52.48	+14 54 53.6	21.5 V	910
1997 RY ₃	1997 09 01.12939	02 48 58.58	+15 08 28.2	21.8 V	910	1997 RG ₄	1997 09 09.06414	02 57 52.72	+14 54 59.6	22.4 V	910
1997 RY ₃	1997 09 01.15290	02 48 59.05	+15 08 27.3	21.8 V	910	1997 RG ₄	1997 09 09.08708	02 57 52.86	+14 55 04.9	22.1 V	910
1997 RY ₃	1997 09 09.03652	02 50 59.11	+14 59 10.9	21.6 V	910	1997 RH ₄	* 1997 09 05.06812	02 34 26.41	+14 20 00.9	18.9 V	910
1997 RY ₃	1997 09 09.05937	02 50 59.27	+14 59 08.5	21.7 V	910	1997 RH ₄	1997 09 05.09144	02 34 27.77	+14 20 16.5	18.9 V	910
1997 RY ₃	1997 09 09.08231	02 50 59.45	+14 59 06.4	21.7 V	910	1997 RH ₄	1997 09 05.12147	02 34 29.52	+14 20 36.9	19.3 V	910
1997 RZ ₃	* 1997 09 01.10713	02 51 06.31	+14 51 58.9	22.0 V	910	1997 RH ₄	1997 09 09.02772	02 38 16.28	+15 04 31.9	18.8 V	910
1997 RZ ₃	1997 09 01.13085	02 51 06.70	+14 52 01.8	21.7 V	910	1997 RH ₄	1997 09 09.05058	02 38 17.45	+15 04 47.4	18.8 V	910
1997 RZ ₃	1997 09 01.15436	02 51 07.16	+14 52 04.0	22.1 V	910	1997 RH ₄	1997 09 09.07354	02 38 18.64	+15 05 02.7	18.9 V	910
1997 RZ ₃	1997 09 09.03792	02 52 59.89	+15 03 05.5	21.8 V	910	1997 RJ ₄	* 1997 09 05.07237	02 40 33.60	+14 40 20.4	20.0 V	910
1997 RZ ₃	1997 09 09.06077	02 53 00.03	+15 03 06.6	21.5 V	910	1997 RJ ₄	1997 09 05.09568	02 40 34.16	+14 40 26.5	19.9 V	910
1997 RZ ₃	1997 09 09.08371	02 53 00.19	+15 03 07.7	21.6 V	910	1997 RJ ₄	1997 09 05.12570	02 40 34.88	+14 40 34.2	20.1 V	910
1997 RA ₄	* 1997 09 01.11050	02 55 58.44	+14 52 51.9	21.6 V	910	1997 RJ ₄	1997 09 09.03034	02 42 03.31	+14 56 21.9	19.7 V	910
1997 RA ₄	1997 09 01.13422	02 55 58.89	+14 52 54.4	21.6 V	910	1997 RJ ₄	1997 09 09.05319	02 42 03.71	+14 56 26.3	20.1 V	910
1997 RA ₄	1997 09 01.15773	02 55 59.28	+14 52 56.3	21.8 V	910	1997 RJ ₄	1997 09 09.07613	02 42 04.09	+14 56 31.6	20.1 V	910
1997 RA ₄	1997 09 09.04128	02 57 50.63	+15 02 19.6	21.7 V	910	1997 RJ ₄	1997 09 12.10409	02 42 52.08	+15 07 37.6	20.6 V	910
1997 RA ₄	1997 09 09.06413	02 57 50.80	+15 02 20.7	21.4 V	910	1997 RJ ₄	1997 09 12.12037	02 42 52.24	+15 07 40.6	20.1 V	910
1997 RA ₄	1997 09 09.08707	02 57 50.94	+15 02 22.0	21.3 V	910	1997 RJ ₄	1997 09 12.14659	02 42 52.54	+15 07 46.6	20.2 V	910
1997 RB ₄	* 1997 09 01.11060	02 56 06.39	+14 55 31.1	21.6 V	910	1997 RK ₄	* 1997 09 08.01800	23 01 29.09	-01 18 00.5	21.2 V	910
1997 RB ₄	1997 09 01.13432	02 56 06.83	+14 55 30.9	21.5 V	910	1997 RK ₄	1997 09 08.03056	23 01 28.31	-01 18 03.0	21.1 V	910
1997 RB ₄	1997 09 01.15782	02 56 07.27	+14 55 30.5	21.6 V	910	1997 RK ₄	1997 09 08.04316	23 01 27.49	-01 18 05.3	21.4 V	910

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1997 RK ₄	1997 09 08.93087	23 00 33.08	-01 20 49.4	19.7 V	910	1997 RT ₄	1997 09 08.03416	23 06 39.83	-01 30 36.6	21.1 V	910
1997 RK ₄	1997 09 08.95368	23 00 31.63	-01 20 53.7	19.0 V	910	1997 RT ₄	1997 09 08.04675	23 06 39.11	-01 30 37.9	21.1 V	910
1997 RK ₄	1997 09 08.97645	23 00 30.20	-01 20 58.4	19.6 V	910	1997 RT ₄	1997 09 08.93455	23 05 51.34	-01 32 53.6	21.3 V	910
1997 RL ₄	* 1997 09 08.01865	23 02 25.63	-01 20 10.0	20.5 V	910	1997 RT ₄	1997 09 08.95736	23 05 50.06	-01 32 57.5	21.4 V	910
1997 RL ₄	1997 09 08.03122	23 02 24.99	-01 20 15.1	20.3 V	910	1997 RT ₄	1997 09 08.98013	23 05 48.77	-01 33 01.2	21.5 V	910
1997 RL ₄	1997 09 08.04381	23 02 24.38	-01 20 20.3	20.3 V	910	1997 RU ₄	* 1997 09 08.02242	23 07 51.99	-01 40 10.4	19.9 V	910
1997 RL ₄	1997 09 08.93167	23 01 42.29	-01 26 17.5	20.4 V	910	1997 RU ₄	1997 09 08.03498	23 07 51.16	-01 40 10.6	19.9 V	910
1997 RL ₄	1997 09 08.95449	23 01 41.16	-01 26 26.8	20.4 V	910	1997 RU ₄	1997 09 08.04758	23 07 50.34	-01 40 10.5	19.9 V	910
1997 RL ₄	1997 09 08.97726	23 01 40.04	-01 26 35.7	20.3 V	910	1997 RU ₄	1997 09 08.93527	23 06 54.25	-01 40 18.1	19.9 V	910
1997 RM ₄	* 1997 09 08.01894	23 02 50.05	-01 23 35.5	19.5 V	910	1997 RU ₄	1997 09 08.95808	23 06 52.76	-01 40 18.5	19.9 V	910
1997 RM ₄	1997 09 08.03150	23 02 49.44	-01 23 41.0	19.5 V	910	1997 RU ₄	1997 09 08.98085	23 06 51.28	-01 40 18.6	19.9 V	910
1997 RM ₄	1997 09 08.04409	23 02 48.86	-01 23 46.6	19.5 V	910	1997 RV ₄	* 1997 09 08.02312	23 08 52.13	-01 27 55.7	20.8 V	910
1997 RM ₄	1997 09 08.93197	23 02 08.42	-01 30 15.4	19.6 V	910	1997 RV ₄	1997 09 08.03568	23 08 51.50	-01 28 01.2	20.8 V	910
1997 RM ₄	1997 09 08.95479	23 02 07.35	-01 30 25.3	19.5 V	910	1997 RV ₄	1997 09 08.04827	23 08 50.88	-01 28 06.2	20.4 V	910
1997 RM ₄	1997 09 08.97756	23 02 06.28	-01 30 35.2	19.6 V	910	1997 RV ₄	1997 09 08.93611	23 08 07.22	-01 34 03.2	20.4 V	910
1997 RN ₄	* 1997 09 08.01962	23 03 48.88	-01 32 12.0	19.9 V	910	1997 RV ₄	1997 09 08.95893	23 08 06.06	-01 34 12.5	20.4 V	910
1997 RN ₄	1997 09 08.03218	23 03 48.09	-01 32 12.3	19.8 V	910	1997 RV ₄	1997 09 08.98170	23 08 04.91	-01 34 21.9	20.5 V	910
1997 RN ₄	1997 09 08.04477	23 03 47.31	-01 32 12.7	19.6 V	910	1997 RW ₄	* 1997 09 08.02327	23 09 05.43	-01 41 29.2	20.8 V	910
1997 RN ₄	1997 09 08.93249	23 02 53.45	-01 32 32.0	19.7 V	910	1997 RW ₄	1997 09 08.03583	23 09 04.84	-01 41 31.8	21.5 V	910
1997 RN ₄	1997 09 08.95530	23 02 52.02	-01 32 32.5	19.9 V	910	1997 RW ₄	1997 09 08.04843	23 09 04.23	-01 41 33.5	20.8 V	910
1997 RN ₄	1997 09 08.97808	23 02 50.59	-01 32 33.1	19.7 V	910	1997 RW ₄	1997 09 08.93630	23 08 22.95	-01 44 43.9	21.2 V	910
1997 RO ₄	* 1997 09 08.01989	23 04 12.73	-01 35 52.0	20.3 V	910	1997 RW ₄	1997 09 08.95911	23 08 21.85	-01 44 49.1	21.9 V	910
1997 RO ₄	1997 09 08.03245	23 04 12.14	-01 35 59.6	20.2 V	910	1997 RW ₄	1997 09 08.98189	23 08 20.76	-01 44 54.3	21.6 V	910
1997 RO ₄	1997 09 08.04505	23 04 11.54	-01 36 07.1	20.4 V	910	1997 RX ₄	* 1997 09 08.02336	23 09 13.17	-01 30 48.3	19.7 V	910
1997 RO ₄	1997 09 08.93293	23 03 31.32	-01 44 57.8	20.8 V	910	1997 RX ₄	1997 09 08.03592	23 09 12.54	-01 30 52.8	20.0 V	910
1997 RO ₄	1997 09 08.95575	23 03 30.22	-01 45 11.5	21.0 V	910	1997 RX ₄	1997 09 08.04852	23 09 11.92	-01 30 57.3	19.9 V	910
1997 RO ₄	1997 09 08.97852	23 03 29.14	-01 45 25.1	20.7 V	910	1997 RX ₄	1997 09 08.93637	23 08 29.45	-01 36 20.1	19.8 V	910
1997 RP ₄	* 1997 09 08.02010	23 04 30.92	-01 20 08.5	20.8 V	910	1997 RX ₄	1997 09 08.95919	23 08 28.31	-01 36 28.4	19.7 V	910
1997 RP ₄	1997 09 08.03266	23 04 30.30	-01 20 12.7	21.0 V	910	1997 RX ₄	1997 09 08.98196	23 08 27.17	-01 36 37.0	20.0 V	910
1997 RP ₄	1997 09 08.04526	23 04 29.67	-01 20 17.6	21.2 V	910	1997 RY ₄	* 1997 09 08.02389	23 09 59.52	-01 27 02.4	20.3 V	910
1997 RP ₄	1997 09 08.93313	23 03 48.35	-01 25 38.6	20.6 V	910	1997 RY ₄	1997 09 08.03645	23 09 58.79	-01 27 07.9	20.8 V	910
1997 RP ₄	1997 09 08.95594	23 03 47.25	-01 25 46.8	21.0 V	910	1997 RY ₄	1997 09 08.04905	23 09 58.07	-01 27 12.5	20.5 V	910
1997 RP ₄	1997 09 08.97872	23 03 46.14	-01 25 55.0	21.0 V	910	1997 RY ₄	1997 09 08.93683	23 09 08.98	-01 33 18.6	20.4 V	910
1997 RQ ₄	* 1997 09 08.02078	23 05 29.83	-01 38 38.7	20.7 V	910	1997 RY ₄	1997 09 08.95964	23 09 07.66	-01 33 27.9	20.6 V	910
1997 RQ ₄	1997 09 08.03334	23 05 29.15	-01 38 42.0	21.1 V	910	1997 RY ₄	1997 09 08.98241	23 09 06.35	-01 33 37.5	20.5 V	910
1997 RQ ₄	1997 09 08.04594	23 05 28.43	-01 38 44.9	21.2 V	910	1997 RZ ₄	* 1997 09 08.02451	23 10 52.70	-01 31 04.9	21.2 V	910
1997 RQ ₄	1997 09 08.93374	23 04 41.35	-01 42 43.0	20.7 V	910	1997 RZ ₄	1997 09 08.03707	23 10 52.11	-01 31 07.2	21.2 V	910
1997 RQ ₄	1997 09 08.95655	23 04 40.09	-01 42 49.0	21.1 V	910	1997 RZ ₄	1997 09 08.04967	23 10 51.48	-01 31 09.9	21.4 V	910
1997 RQ ₄	1997 09 08.97933	23 04 38.85	-01 42 55.2	21.3 V	910	1997 RZ ₄	1997 09 08.93752	23 10 09.37	-01 33 50.0	21.3 V	910
1997 RR ₄	* 1997 09 08.02120	23 06 06.47	-01 31 42.5	19.4 V	910	1997 RZ ₄	1997 09 08.96034	23 10 08.27	-01 33 54.0	21.2 V	910
1997 RR ₄	1997 09 08.03376	23 06 05.75	-01 31 47.8	19.5 V	910	1997 RZ ₄	1997 09 08.98312	23 10 07.16	-01 33 58.4	21.2 V	910
1997 RR ₄	1997 09 08.04636	23 06 05.03	-01 31 53.1	19.7 V	910	1997 RA ₅	* 1997 09 08.02483	23 11 20.84	-01 33 51.9	18.7 V	910
1997 RR ₄	1997 09 08.93415	23 05 17.31	-01 38 11.7	20.0 V	910	1997 RA ₅	1997 09 08.03740	23 11 20.24	-01 33 57.4	18.8 V	910
1997 RR ₄	1997 09 08.95697	23 05 16.03	-01 38 21.5	19.8 V	910	1997 RA ₅	1997 09 08.04999	23 11 19.64	-01 34 03.3	18.8 V	910
1997 RR ₄	1997 09 08.97974	23 05 14.75	-01 38 31.2	19.9 V	910	1997 RA ₅	1997 09 08.93787	23 10 39.18	-01 40 42.3	18.8 V	910
1997 RS ₄	* 1997 09 08.02139	23 06 22.87	-01 21 22.6	20.7 V	910	1997 RA ₅	1997 09 08.96069	23 10 38.08	-01 40 52.6	18.8 V	910
1997 RS ₄	1997 09 08.03395	23 06 22.17	-01 21 28.7	20.1 V	910	1997 RA ₅	1997 09 08.98346	23 10 36.98	-01 41 02.9	18.8 V	910
1997 RS ₄	1997 09 08.04655	23 06 21.46	-01 21 35.6	20.2 V	910	1997 RB ₅	* 1997 09 08.02499	23 11 34.10	-01 40 04.3	20.6 V	910
1997 RS ₄	1997 09 08.93434	23 05 33.97	-01 29 08.6	20.6 V	910	1997 RB ₅	1997 09 08.03755	23 11 33.43	-01 40 08.5	20.7 V	910
1997 RS ₄	1997 09 08.95716	23 05 32.66	-01 29 20.3	20.6 V	910	1997 RB ₅	1997 09 08.05014	23 11 32.66	-01 40 13.1	20.9 V	910
1997 RS ₄	1997 09 08.97993	23 05 31.39	-01 29 32.1	20.6 V	910	1997 RB ₅	1997 09 08.93791	23 10 42.37	-01 45 08.5	20.8 V	910
1997 RT ₄	* 1997 09 08.02160	23 06 40.49	-01 30 33.8	21.1 V	910	1997 RB ₅	1997 09 08.96072	23 10 41.04	-01 45 16.2	21.0 V	910

1997 RB ₅	1997 09 08.98349	23 10 39.72	-01 45 23.9	20.7 V	910	1997 RH ₆	1997 09 09.94136	21 42 13.47	-05 07 07.8	20.6 V	910
1997 RC ₅	* 1997 09 08.02548	23 12 16.45	-01 41 42.5	20.3 V	910	1997 RH ₆	1997 09 09.96722	21 42 12.70	-05 07 13.5	20.5 V	910
1997 RC ₅	1997 09 08.03804	23 12 15.79	-01 41 45.4	19.9 V	910	1997 RH ₆	1997 09 09.99056	21 42 11.97	-05 07 18.5	20.3 V	910
1997 RC ₅	1997 09 08.05063	23 12 15.15	-01 41 48.4	20.0 V	910	1997 RJ ₆	* 1997 09 07.92722	21 43 31.85	-04 57 42.7	20.3 V	910
1997 RC ₅	1997 09 08.93848	23 11 31.68	-01 45 26.2	20.6 V	910	1997 RJ ₆	1997 09 07.95220	21 43 30.98	-04 57 51.8	20.1 V	910
1997 RC ₅	1997 09 08.96129	23 11 30.51	-01 45 31.9	20.5 V	910	1997 RJ ₆	1997 09 07.97626	21 43 30.14	-04 58 00.6	19.9 V	910
1997 RC ₅	1997 09 08.98407	23 11 29.33	-01 45 37.6	20.6 V	910	1997 RJ ₆	1997 09 09.94158	21 42 31.84	-05 09 56.8	20.0 V	910
1997 RD ₅	* 1997 09 08.02569	23 12 34.66	-01 33 32.4	18.1 V	910	1997 RJ ₆	1997 09 09.96744	21 42 31.05	-05 10 05.7	20.1 V	910
1997 RD ₅	1997 09 08.03825	23 12 33.87	-01 33 34.1	18.2 V	910	1997 RJ ₆	1997 09 09.99077	21 42 30.33	-05 10 14.4	20.3 V	910
1997 RD ₅	1997 09 08.05084	23 12 33.09	-01 33 35.8	18.1 V	910	1997 RK ₆	* 1997 09 07.93019	21 47 49.68	-04 51 27.5	20.3 V	910
1997 RD ₅	1997 09 08.93857	23 11 39.97	-01 35 35.2	19.2 V	910	1997 RK ₆	1997 09 07.95517	21 47 48.46	-04 51 35.2	20.3 V	910
1997 RD ₅	1997 09 08.96138	23 11 38.54	-01 35 38.4	19.2 V	910	1997 RK ₆	1997 09 07.97922	21 47 47.25	-04 51 41.9	20.2 V	910
1997 RD ₅	1997 09 08.98415	23 11 37.13	-01 35 41.3	19.1 V	910	1997 RK ₆	1997 09 09.94416	21 46 16.29	-05 01 10.0	20.4 V	910
1997 RE ₅	* 1997 09 08.02632	23 13 29.42	-01 26 58.7	19.6 V	910	1997 RK ₆	1997 09 09.97002	21 46 15.05	-05 01 17.8	20.3 V	910
1997 RE ₅	1997 09 08.03888	23 13 28.79	-01 27 02.7	19.9 V	910	1997 RK ₆	1997 09 09.99335	21 46 13.98	-05 01 24.4	20.4 V	910
1997 RE ₅	1997 09 08.05148	23 13 28.15	-01 27 07.1	19.7 V	910	1997 RL ₆	* 1997 09 07.93127	21 49 22.64	-05 01 10.5	20.4 V	910
1997 RE ₅	1997 09 08.93931	23 12 44.38	-01 32 03.5	20.6 V	910	1997 RL ₆	1997 09 07.95625	21 49 21.30	-05 01 21.9	21.1 V	910
1997 RE ₅	1997 09 08.96213	23 12 43.19	-01 32 11.8	21.0 V	910	1997 RL ₆	1997 09 07.98030	21 49 20.04	-05 01 32.7	20.8 V	910
1997 RE ₅	1997 09 08.98490	23 12 42.05	-01 32 19.2	20.6 V	910	1997 RL ₆	1997 09 09.94515	21 47 41.13	-05 16 27.7	20.9 V	910
1997 RF ₅	* 1997 09 08.02665	23 13 58.48	-01 23 02.9	18.2 V	910	1997 RL ₆	1997 09 09.97100	21 47 39.82	-05 16 39.5	21.1 V	910
1997 RF ₅	1997 09 08.03921	23 13 57.72	-01 23 02.4	18.2 V	910	1997 RL ₆	1997 09 09.99433	21 47 38.66	-05 16 49.8	21.0 V	910
1997 RF ₅	1997 09 08.05181	23 13 56.98	-01 23 02.0	18.3 V	910	1997 RM ₆	* 1997 09 07.93174	21 50 03.44	-05 00 44.7	20.1 V	910
1997 RF ₅	1997 09 08.93955	23 13 05.12	-01 22 23.2	18.6 V	910	1997 RM ₆	1997 09 07.95672	21 50 02.21	-05 00 51.5	20.2 V	910
1997 RF ₅	1997 09 08.96237	23 13 03.75	-01 22 22.2	18.5 V	910	1997 RM ₆	1997 09 07.98077	21 50 01.02	-05 00 58.2	19.7 V	910
1997 RF ₅	1997 09 08.98514	23 13 02.37	-01 22 21.1	18.5 V	910	1997 RM ₆	1997 09 09.94571	21 48 29.59	-05 09 56.1	20.0 V	910
1997 RG ₅	* 1997 09 08.02701	23 14 29.24	-01 23 26.0	19.6 V	910	1997 RM ₆	1997 09 09.97156	21 48 28.38	-05 10 03.2	20.3 V	910
1997 RG ₅	1997 09 08.03957	23 14 28.43	-01 23 25.3	19.7 V	910	1997 RM ₆	1997 09 09.99489	21 48 27.30	-05 10 09.6	20.2 V	910
1997 RG ₅	1997 09 08.05216	23 14 27.59	-01 23 25.1	19.6 V	910	1997 RN ₆	* 1997 09 07.93340	21 52 27.33	-04 52 13.4	20.5 V	910
1997 RG ₅	1997 09 08.93985	23 13 31.23	-01 23 05.7	20.2 V	910	1997 RN ₆	1997 09 07.95838	21 52 26.19	-04 52 29.9	20.0 V	910
1997 RG ₅	1997 09 08.96267	23 13 29.72	-01 23 05.1	20.4 V	910	1997 RN ₆	1997 09 07.98243	21 52 25.12	-04 52 45.8	20.0 V	910
1997 RG ₅	1997 09 08.98544	23 13 28.22	-01 23 04.6	20.3 V	910	1997 RN ₆	1997 09 09.94747	21 51 01.95	-05 14 08.5	20.6 V	910
1997 RH ₅	* 1997 09 08.02771	23 15 30.01	-01 31 37.6	19.9 V	910	1997 RN ₆	1997 09 09.97332	21 51 00.86	-05 14 25.0	20.2 V	910
1997 RH ₅	1997 09 08.04027	23 15 29.32	-01 31 41.6	19.7 V	910	1997 RN ₆	1997 09 09.99665	21 50 59.84	-05 14 39.9	20.1 V	910
1997 RH ₅	1997 09 08.05287	23 15 28.67	-01 31 45.4	19.6 V	910	1997 RO ₆	* 1997 09 07.93382	21 53 04.04	-04 58 26.2	19.4 V	910
1997 RH ₅	1997 09 08.94068	23 14 42.96	-01 36 17.0	19.4 V	910	1997 RO ₆	1997 09 07.95880	21 53 03.08	-04 58 37.0	19.4 V	910
1997 RH ₅	1997 09 08.96350	23 14 41.74	-01 36 24.1	19.4 V	910	1997 RO ₆	1997 09 07.98286	21 53 02.16	-04 58 47.1	19.2 V	910
1997 RH ₅	1997 09 08.98627	23 14 40.52	-01 36 31.0	19.5 V	910	1997 RO ₆	1997 09 09.94806	21 51 53.14	-05 12 40.3	19.6 V	910
1997 RF ₆	* 1997 09 07.91990	21 32 58.01	-04 58 53.5	20.4 V	910	1997 RO ₆	1997 09 09.97392	21 51 52.21	-05 12 51.1	19.7 V	910
1997 RF ₆	1997 09 07.94488	21 32 57.12	-04 59 02.5	20.2 V	910	1997 RO ₆	1997 09 09.99725	21 51 51.37	-05 13 00.7	19.8 V	910
1997 RF ₆	1997 09 07.96894	21 32 56.26	-04 59 10.7	20.1 V	910	1997 RP ₆	* 1997 09 07.93493	21 54 40.17	-04 55 04.6	19.3 V	910
1997 RF ₆	1997 09 09.93418	21 31 50.96	-05 11 05.4	20.4 V	910	1997 RP ₆	1997 09 07.95991	21 54 39.10	-04 55 14.2	19.4 V	910
1997 RF ₆	1997 09 09.96004	21 31 50.11	-05 11 15.4	20.6 V	910	1997 RP ₆	1997 09 07.98397	21 54 38.05	-04 55 22.9	19.3 V	910
1997 RF ₆	1997 09 09.98337	21 31 49.34	-05 11 23.9	20.7 V	910	1997 RP ₆	1997 09 09.94904	21 53 18.56	-05 07 37.7	19.4 V	910
1997 RG ₆	* 1997 09 07.92267	21 36 58.03	-05 01 17.2	20.9 V	910	1997 RP ₆	1997 09 09.97490	21 53 17.49	-05 07 47.2	19.3 V	910
1997 RG ₆	1997 09 07.94765	21 36 57.12	-05 01 24.1	21.3 V	910	1997 RP ₆	1997 09 09.99823	21 53 16.54	-05 07 55.7	18.8 V	910
1997 RG ₆	1997 09 07.97171	21 36 56.25	-05 01 31.2	21.3 V	910	1997 RQ ₆	* 1997 09 07.93529	21 55 11.16	-05 02 15.8	20.2 V	910
1997 RG ₆	1997 09 09.93692	21 35 48.62	-05 10 39.0	20.7 V	910	1997 RQ ₆	1997 09 07.96027	21 55 09.90	-05 02 21.0	20.4 V	910
1997 RG ₆	1997 09 09.96278	21 35 47.70	-05 10 46.2	21.0 V	910	1997 RQ ₆	1997 09 07.98432	21 55 08.65	-05 02 25.6	20.5 V	910
1997 RG ₆	1997 09 09.98611	21 35 46.88	-05 10 52.4	21.6 V	910	1997 RQ ₆	1997 09 09.94924	21 53 36.12	-05 08 58.0	20.4 V	910
1997 RH ₆	* 1997 09 07.92699	21 43 11.52	-04 59 52.8	20.3 V	910	1997 RQ ₆	1997 09 09.97510	21 53 34.85	-05 09 03.0	20.3 V	910
1997 RH ₆	1997 09 07.95197	21 43 10.66	-04 59 58.2	20.2 V	910	1997 RQ ₆	1997 09 09.99843	21 53 33.72	-05 09 08.0	20.1 V	910
1997 RH ₆	1997 09 07.97602	21 43 09.85	-05 00 03.4	20.2 V	910	1997 RR ₆	* 1997 09 07.93593	21 56 05.91	-05 15 05.3	20.8 V	910

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1997 RR ₆	1997 09 07.96091	21 56 04.54	-05 15 05.9	20.7 V	910	1997 RV ₇	1997 09 12.13921	02 32 13.82	+15 05 41.3	18.7 V	910
1997 RR ₆	1997 09 07.98496	21 56 03.24	-05 15 06.4	20.6 V	910	1997 RW ₇	* 1997 09 09.02706	02 37 19.34	+14 50 59.6	20.3 V	910
1997 RR ₆	1997 09 09.94977	21 54 21.37	-05 16 05.6	20.8 V	910	1997 RW ₇	1997 09 09.04990	02 37 19.18	+14 50 57.9	20.3 V	910
1997 RR ₆	1997 09 09.97563	21 54 20.03	-05 16 06.3	20.6 V	910	1997 RW ₇	1997 09 09.07284	02 37 19.03	+14 50 56.7	20.6 V	910
1997 RR ₆	1997 09 09.99895	21 54 18.80	-05 16 06.9	20.0 V	910	1997 RW ₇	1997 09 12.09998	02 36 57.25	+14 46 54.9	20.1 V	910
1997 RS ₆	* 1997 09 07.93612	21 56 22.64	-05 03 36.2	20.9 V	910	1997 RW ₇	1997 09 12.11626	02 36 57.09	+14 46 53.8	20.0 V	910
1997 RS ₆	1997 09 07.96110	21 56 21.39	-05 03 42.8	20.6 V	910	1997 RW ₇	1997 09 12.14247	02 36 56.84	+14 46 51.2	20.0 V	910
1997 RS ₆	1997 09 07.98515	21 56 20.20	-05 03 49.3	20.7 V	910	1997 RX ₇	* 1997 09 09.03142	02 43 37.52	+14 59 15.7	19.3 V	910
1997 RS ₆	1997 09 09.95009	21 54 49.12	-05 12 37.8	20.3 V	910	1997 RX ₇	1997 09 09.05427	02 43 37.34	+14 59 15.0	19.3 V	910
1997 RS ₆	1997 09 09.97595	21 54 47.89	-05 12 44.5	20.3 V	910	1997 RX ₇	1997 09 09.07721	02 43 37.18	+14 59 14.5	19.2 V	910
1997 RS ₆	1997 09 09.99927	21 54 46.79	-05 12 50.9	20.3 V	910	1997 RX ₇	1997 09 12.10431	02 43 11.70	+14 57 30.5	19.1 V	910
1997 RT ₆	* 1997 09 07.93689	21 57 29.51	-05 07 16.7	18.9 V	910	1997 RX ₇	1997 09 12.12059	02 43 11.51	+14 57 29.8	19.3 V	910
1997 RT ₆	1997 09 07.96187	21 57 28.34	-05 07 19.2	18.9 V	910	1997 RX ₇	1997 09 12.14679	02 43 11.22	+14 57 28.7	19.2 V	910
1997 RT ₆	1997 09 07.98592	21 57 27.22	-05 07 21.5	18.5 V	910	1997 RY ₇	* 1997 09 09.03244	02 45 04.83	+15 10 35.5	21.9 V	910
1997 RT ₆	1997 09 09.95091	21 55 59.85	-05 10 29.2	18.9 V	910	1997 RY ₇	1997 09 09.05530	02 45 05.20	+15 10 35.5	21.2 V	910
1997 RT ₆	1997 09 09.97676	21 55 58.68	-05 10 31.6	18.7 V	910	1997 RY ₇	1997 09 09.07824	02 45 05.53	+15 10 35.8	21.5 V	910
1997 RT ₆	1997 09 10.00009	21 55 57.63	-05 10 33.8	18.6 V	910	1997 RY ₇	1997 09 12.10613	02 45 48.01	+15 10 13.5	21.1 V	910
1997 RQ ₇	* 1997 09 01.09462	02 33 01.08	+15 12 21.9	20.9 V	910	1997 RY ₇	1997 09 12.12241	02 45 48.16	+15 10 13.1	21.2 V	910
1997 RQ ₇	1997 09 01.11834	02 33 01.36	+15 12 21.9	20.2 V	910	1997 RY ₇	1997 09 12.14862	02 45 48.36	+15 10 12.5	21.6 V	910
1997 RQ ₇	1997 09 01.14184	02 33 01.66	+15 12 20.7	19.9 V	910	2218 T-2	1997 09 03.99779	02 30 18.85	+14 40 05.4	17.5 V	910
1997 RQ ₇	1997 09 12.09790	02 33 55.90	+14 58 23.4	20.9 V	910	2218 T-2	1997 09 04.02226	02 30 19.36	+14 40 07.8	17.6 V	910
1997 RQ ₇	1997 09 12.11417	02 33 55.80	+14 58 20.6	20.6 V	910	2218 T-2	1997 09 04.04859	02 30 19.89	+14 40 10.5	17.6 V	910
1997 RQ ₇	1997 09 12.14038	02 33 55.65	+14 58 17.6	20.3 V	910	2218 T-2	1997 09 05.06552	02 30 40.97	+14 41 43.5	17.1 V	910
1997 RR ₇	* 1997 09 01.09883	02 39 05.42	+15 09 18.3	20.3 V	910	2218 T-2	1997 09 05.08883	02 30 41.38	+14 41 45.6	17.0 V	910
1997 RR ₇	1997 09 01.12255	02 39 05.84	+15 09 17.6	19.9 V	910	2218 T-2	1997 09 05.11885	02 30 41.90	+14 41 48.2	17.1 V	910
1997 RR ₇	1997 09 01.14605	02 39 06.26	+15 09 17.7	20.1 V	910	2218 T-2	1997 09 09.02319	02 31 43.88	+14 46 11.5	18.1 V	910
1997 RR ₇	1997 09 12.10267	02 40 49.97	+14 56 20.6	20.2 V	910	2218 T-2	1997 09 09.04604	02 31 44.11	+14 46 12.7	18.1 V	910
1997 RR ₇	1997 09 12.11895	02 40 49.93	+14 56 18.5	20.4 V	910	2218 T-2	1997 09 09.06898	02 31 44.33	+14 46 13.9	18.1 V	910
1997 RR ₇	1997 09 12.14516	02 40 49.83	+14 56 15.2	19.9 V	910	(79)	1997 09 07.12131	04 16 07.98	+20 23 12.0	11.6 V	910
1997 RS ₇	* 1997 09 04.00901	02 46 29.73	+14 41 41.0	20.1 V	910	(79)	1997 09 07.13706	04 16 09.25	+20 23 12.4	11.6 V	910
1997 RS ₇	1997 09 04.03348	02 46 29.72	+14 41 46.2	20.1 V	910	(79)	1997 09 07.15533	04 16 10.76	+20 23 13.2	11.6 V	910
1997 RS ₇	1997 09 04.05980	02 46 29.70	+14 41 52.0	20.1 V	910	(107)	1997 08 30.91070	21 13 45.19	-08 56 28.6	12.8 V	910
1997 RS ₇	1997 09 12.10602	02 45 38.87	+15 06 40.4	20.4 V	910	(107)	1997 08 30.93500	21 13 44.36	-08 56 35.9	12.9 V	910
1997 RS ₇	1997 09 12.12229	02 45 38.63	+15 06 43.1	20.3 V	910	(107)	1997 08 30.96140	21 13 43.45	-08 56 43.9	12.9 V	910
1997 RS ₇	1997 09 12.14850	02 45 38.24	+15 06 47.5	20.0 V	910	(200)	1997 09 06.89468	23 01 54.25	-01 51 14.9	12.1 V	910
1997 RT ₇	* 1997 09 05.07529	02 44 48.09	+14 16 04.1	20.4 V	910	(200)	1997 09 06.91908	23 01 52.89	-01 51 18.6	12.1 V	910
1997 RT ₇	1997 09 05.09859	02 44 48.18	+14 16 10.9	20.6 V	910	(200)	1997 09 06.94222	23 01 51.61	-01 51 22.2	12.2 V	910
1997 RT ₇	1997 09 05.12861	02 44 48.32	+14 16 19.3	20.6 V	910	(239)	1997 08 02.07290	01 28 18.64	+09 29 19.3	14.7 V	910
1997 RT ₇	1997 09 12.10539	02 44 45.67	+14 47 35.7	19.7 V	910	(239)	1997 08 02.08559	01 28 19.28	+09 29 21.2	14.7 V	910
1997 RT ₇	1997 09 12.12166	02 44 45.52	+14 47 39.8	19.6 V	910	(239)	1997 08 02.09837	01 28 19.91	+09 29 23.1	14.8 V	910
1997 RT ₇	1997 09 12.14787	02 44 45.32	+14 47 46.2	19.7 V	910	(489)	1997 09 08.86235	21 30 42.60	-08 45 23.7	14.9 V	910
1997 RU ₇	* 1997 09 09.02274	02 31 05.02	+15 04 49.5	18.5 V	910	(489)	1997 09 08.88474	21 30 41.88	-08 45 32.7	14.8 V	910
1997 RU ₇	1997 09 09.04559	02 31 05.02	+15 04 53.3	18.5 V	910	(489)	1997 09 08.90744	21 30 41.15	-08 45 41.8	14.8 V	910
1997 RU ₇	1997 09 09.06853	02 31 05.00	+15 04 57.6	18.6 V	910	(774)	1997 09 09.94039	21 40 49.69	-04 47 33.9	13.3 V	910
1997 RU ₇	1997 09 12.09586	02 30 59.27	+15 13 25.3	18.5 V	910	(774)	1997 09 09.96625	21 40 48.78	-04 47 40.6	13.2 V	910
1997 RU ₇	1997 09 12.11214	02 30 59.15	+15 13 27.9	18.6 V	910	(774)	1997 09 09.98958	21 40 47.97	-04 47 46.8	13.2 V	910
1997 RV ₇	1997 09 12.13835	02 30 59.00	+15 13 32.1	18.6 V	910	(994)	1997 08 02.08106	01 40 05.23	+09 38 56.5	13.5 V	910
1997 RV ₇	* 1997 09 09.02277	02 31 07.03	+15 07 27.5	17.7 V	910	(994)	1997 08 02.09374	01 40 05.66	+09 39 03.7	13.3 V	910
1997 RV ₇	1997 09 09.04562	02 31 07.56	+15 07 27.2	17.7 V	910	(994)	1997 08 02.10652	01 40 06.13	+09 39 11.6	13.3 V	910
1997 RV ₇	1997 09 09.06857	02 31 08.07	+15 07 26.9	17.7 V	910	(1014)	1997 09 06.89812	23 06 52.37	-02 06 12.8	17.4 V	910
1997 RV ₇	1997 09 12.09671	02 32 13.13	+15 05 43.4	18.6 V	910	(1014)	1997 09 06.92252	23 06 51.18	-02 06 20.2	17.3 V	910
1997 RV ₇	1997 09 12.11299	02 32 13.39	+15 05 42.7	18.7 V	910	(1014)	1997 09 06.94567	23 06 50.05	-02 06 27.0	17.4 V	910

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1997 SEPT.16

(1129)	1997 08 01.87450	20 35 25.45	-10 12 12.3	14.9 V	910	(3260)	1997 08 01.90299	20 42 51.77	-10 07 15.5	16.7 V	910
(1129)	1997 08 01.89781	20 35 24.23	-10 12 13.9	14.9 V	910	(3260)	1997 08 01.92775	20 42 50.18	-10 07 20.0	16.8 V	910
(1129)	1997 08 01.92258	20 35 22.96	-10 12 15.8	14.9 V	910	(3833)	1997 09 07.93404	21 53 23.11	-04 49 33.3	14.7 V	910
(1422)	1997 09 07.11610	04 08 36.58	+20 18 38.4	17.0 V	910	(3833)	1997 09 07.95905	21 53 24.55	-04 50 23.0	14.9 V	910
(1422)	1997 09 07.13185	04 08 37.82	+20 18 40.1	16.8 V	910	(3833)	1997 09 07.98313	21 53 25.95	-04 51 11.2	15.1 V	910
(1422)	1997 09 07.15011	04 08 39.23	+20 18 42.1	17.1 V	910	(3869)	1997 09 08.84636	21 07 39.30	-08 31 31.8	16.8 V	910
(1692)	1997 08 30.03570	02 36 01.48	+15 12 20.2	15.7 V	910	(3869)	1997 09 08.86875	21 07 38.68	-08 31 36.9	16.7 V	910
(1692)	1997 08 30.06558	02 36 01.93	+15 12 21.0	15.7 V	910	(3869)	1997 09 08.89146	21 07 38.05	-08 31 42.2	16.7 V	910
(1692)	1997 08 30.08989	02 36 02.30	+15 12 21.7	15.8 V	910	(4020)	1997 08 30.04786	02 53 35.47	+15 03 42.9	18.4 V	910
(1692)	1997 09 01.09705	02 36 31.44	+15 12 56.0	16.2 V	910	(4020)	1997 08 30.07775	02 53 36.59	+15 03 39.9	18.4 V	910
(1692)	1997 09 01.12077	02 36 31.70	+15 12 56.3	16.0 V	910	(4020)	1997 08 30.10207	02 53 37.51	+15 03 37.4	18.3 V	910
(1692)	1997 09 01.14427	02 36 31.98	+15 12 56.5	15.8 V	910	(4020)	1997 09 01.10975	02 54 52.67	+14 59 47.9	18.6 V	910
(1827)	1997 09 07.83603	20 20 43.77	-13 11 32.9	18.4 V	910	(4020)	1997 09 01.13348	02 54 53.48	+14 59 44.8	18.7 V	910
(1827)	1997 09 07.85908	20 20 43.19	-13 11 37.2	18.3 V	910	(4020)	1997 09 01.15699	02 54 54.29	+14 59 42.0	18.6 V	910
(1827)	1997 09 07.88229	20 20 42.62	-13 11 41.3	18.2 V	910	(4208)	1997 08 01.87289	20 33 06.19	-10 02 43.6	16.5 V	910
(1960)	1997 08 30.03698	02 37 53.34	+14 57 53.3	16.6 V	910	(4208)	1997 08 01.89620	20 33 05.15	-10 02 54.3	16.5 V	910
(1960)	1997 08 30.06686	02 37 53.64	+14 58 00.0	16.5 V	910	(4208)	1997 08 01.92097	20 33 04.05	-10 03 05.4	16.5 V	910
(1960)	1997 08 30.09117	02 37 53.87	+14 58 05.4	16.4 V	910	(4686)	1997 09 09.94068	21 41 15.17	-04 48 20.4	17.1 V	910
(1960)	1997 09 01.09821	02 38 12.52	+15 05 18.7	16.5 V	910	(4686)	1997 09 09.96654	21 41 14.19	-04 48 29.2	17.1 V	910
(1960)	1997 09 01.12193	02 38 12.67	+15 05 23.7	16.6 V	910	(4686)	1997 09 09.98987	21 41 13.31	-04 48 37.1	17.0 V	910
(1960)	1997 09 01.14543	02 38 12.82	+15 05 28.7	16.8 V	910	(4850)	1997 09 03.88940	22 30 28.38	-07 45 36.1	16.4 V	910
(2094)	1997 08 30.91833	21 24 46.48	-08 51 03.7	16.3 V	910	(4850)	1997 09 03.91354	22 30 27.27	-07 45 43.0	17.2 V	910
(2094)	1997 08 30.94263	21 24 45.13	-08 51 09.3	16.5 V	910	(4850)	1997 09 03.93739	22 30 26.13	-07 45 50.5	17.3 V	910
(2094)	1997 08 30.96902	21 24 43.70	-08 51 15.1	16.7 V	910	(5228)	1997 08 31.05952	03 40 58.75	+19 04 29.9	19.0 V	910
(2235)	1997 09 09.03055	02 42 21.88	+14 53 20.6	15.8 V	910	(5228)	1997 08 31.08732	03 40 59.67	+19 04 32.2	18.9 V	910
(2235)	1997 09 09.05340	02 42 21.96	+14 53 14.4	15.8 V	910	(5228)	1997 08 31.11230	03 41 00.47	+19 04 34.5	18.7 V	910
(2235)	1997 09 09.07634	02 42 22.03	+14 53 08.2	15.8 V	910	(5248)	1997 09 01.09636	02 35 32.26	+14 47 02.1	18.0 V	910
(2275)	1997 09 07.02308	03 08 05.42	+16 54 34.4	16.9 V	910	(5248)	1997 09 01.12008	02 35 32.60	+14 47 03.6	18.1 V	910
(2275)	1997 09 07.04632	03 08 06.39	+16 54 32.5	16.2 V	910	(5248)	1997 09 01.14358	02 35 32.90	+14 47 05.3	17.7 V	910
(2275)	1997 09 07.07028	03 08 07.39	+16 54 30.7	15.9 V	910	(5248)	1997 09 12.09956	02 36 20.55	+14 50 08.3	17.5 V	910
(2292)	1997 09 09.95270	21 58 35.63	-04 58 08.2	13.7 V	910	(5248)	1997 09 12.11584	02 36 20.41	+14 50 07.7	17.3 V	910
(2292)	1997 09 09.97856	21 58 34.94	-04 58 31.1	13.6 V	910	(5248)	1997 09 12.14205	02 36 20.18	+14 50 06.7	17.2 V	910
(2292)	1997 09 10.00189	21 58 34.32	-04 58 51.6	13.4 V	910	(5270)	1997 08 30.03588	02 36 17.60	+14 47 08.5	17.9 V	910
(2342)	1997 09 07.11133	04 01 43.18	+20 28 41.6	17.8 V	910	(5270)	1997 08 30.06575	02 36 17.93	+14 47 04.5	17.9 V	910
(2342)	1997 09 07.12707	04 01 43.77	+20 28 43.2	17.7 V	910	(5270)	1997 08 30.09007	02 36 18.17	+14 47 00.8	18.0 V	910
(2342)	1997 09 07.14532	04 01 44.46	+20 28 44.9	17.7 V	910	(5270)	1997 09 04.00239	02 36 57.28	+14 33 15.9	17.8 V	910
(2348)	1997 09 04.01276	02 51 54.70	+14 36 41.9	18.6 V	910	(5270)	1997 09 04.02686	02 36 57.37	+14 33 11.3	17.8 V	910
(2348)	1997 09 04.03724	02 51 55.31	+14 36 41.2	18.6 V	910	(5270)	1997 09 04.05318	02 36 57.44	+14 33 06.5	17.8 V	910
(2348)	1997 09 04.06357	02 51 55.95	+14 36 40.4	18.6 V	910	(5270)	1997 09 05.06991	02 37 00.98	+14 29 48.5	17.8 V	910
(2348)	1997 09 05.08055	02 52 21.16	+14 36 01.2	18.3 V	910	(5270)	1997 09 05.09321	02 37 01.01	+14 29 43.9	17.8 V	910
(2348)	1997 09 05.10385	02 52 21.69	+14 36 00.2	18.3 V	910	(5270)	1997 09 05.12323	02 37 01.06	+14 29 38.0	17.8 V	910
(2348)	1997 09 05.13387	02 52 22.36	+14 35 58.9	18.4 V	910	(5748)	1997 09 07.92931	21 46 32.71	-04 54 43.4	18.2 V	910
(2360)	1997 09 07.11255	04 03 29.10	+20 31 38.0	17.7 V	910	(5748)	1997 09 07.95428	21 46 31.61	-04 54 57.8	18.3 V	910
(2360)	1997 09 07.12830	04 03 30.08	+20 31 42.2	17.7 V	910	(5748)	1997 09 07.97834	21 46 30.61	-04 55 11.6	18.4 V	910
(2360)	1997 09 07.14656	04 03 31.20	+20 31 47.2	17.6 V	910	(5748)	1997 09 09.94342	21 45 11.15	-05 14 00.7	18.4 V	910
(2529)	1997 09 08.86093	21 28 41.99	-08 22 37.7	16.2 V	910	(5748)	1997 09 09.96927	21 45 10.09	-05 14 15.5	18.3 V	910
(2529)	1997 09 08.88332	21 28 41.21	-08 22 45.2	16.2 V	910	(5748)	1997 09 09.99260	21 45 09.13	-05 14 28.9	18.2 V	910
(2529)	1997 09 08.90603	21 28 40.41	-08 22 52.9	16.2 V	910	(5881)	1997 09 04.00748	02 44 19.12	+14 18 16.1	17.5 V	910
(2712)	1997 09 07.02600	03 12 17.40	+17 11 32.1	18.1 V	910	(5881)	1997 09 04.03195	02 44 19.43	+14 18 18.1	17.3 V	910
(2712)	1997 09 07.04924	03 12 18.06	+17 11 34.1	18.0 V	910	(5881)	1997 09 04.05828	02 44 19.74	+14 18 20.2	17.7 V	910
(2712)	1997 09 07.07320	03 12 18.76	+17 11 36.2	17.9 V	910	(5881)	1997 09 05.07512	02 44 32.52	+14 19 37.6	17.5 V	910
(3260)	1997 08 01.87968	20 42 53.26	-10 07 11.3	16.7 V	910	(5881)	1997 09 05.09842	02 44 32.76	+14 19 39.4	17.4 V	910

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(5881)	1997 09 05.12843	02 44 33.08	+14 19 41.6	17.8 V	910
(6038)	1997 09 03.86939	22 01 36.62	-07 45 58.8	18.0 V	910
(6038)	1997 09 03.89353	22 01 35.43	-07 46 02.5	18.0 V	910
(6038)	1997 09 03.91738	22 01 34.25	-07 46 05.9	17.9 V	910
(6101)	1997 08 01.87834	20 40 58.08	-09 54 20.9	17.1 V	910
(6101)	1997 08 01.90165	20 40 56.70	-09 54 28.5	17.0 V	910
(6101)	1997 08 01.92641	20 40 55.21	-09 54 36.6	17.1 V	910
(6101)	1997 09 07.83420	20 18 04.98	-13 16 12.6	18.2 V	910
(6101)	1997 09 07.85726	20 18 04.79	-13 16 18.5	18.2 V	910
(6101)	1997 09 07.88047	20 18 04.60	-13 16 24.6	18.1 V	910
(6121)	1997 09 07.84026	20 26 51.25	-13 00 34.9	16.9 V	910
(6121)	1997 09 07.86332	20 26 50.96	-13 00 39.4	17.2 V	910
(6121)	1997 09 07.88653	20 26 50.68	-13 00 44.0	17.2 V	910
(6374)	1997 09 07.84255	20 30 10.44	-12 55 15.1	17.6 V	910
(6374)	1997 09 07.86561	20 30 09.99	-12 55 22.2	17.7 V	910
(6374)	1997 09 07.88882	20 30 09.53	-12 55 29.4	17.7 V	910
(6387)	1997 09 08.94470	23 20 30.66	-01 32 28.8	18.0 V	910
(6387)	1997 09 08.96751	23 20 29.44	-01 32 35.7	17.9 V	910
(6387)	1997 09 08.99029	23 20 28.23	-01 32 42.7	18.0 V	910
(6408)	1997 09 07.12117	04 15 53.53	+20 41 41.6	18.4 V	910
(6408)	1997 09 07.13692	04 15 54.11	+20 41 42.7	18.5 V	910
(6408)	1997 09 07.15517	04 15 54.73	+20 41 43.7	18.5 V	910
(6956)	1997 09 07.82212	20 00 39.72	-12 53 09.4	18.6 V	910
(6956)	1997 09 07.84517	20 00 39.36	-12 53 13.0	19.0 V	910
(6956)	1997 09 07.86839	20 00 38.99	-12 53 16.5	18.4 V	910
(6969)	1997 08 02.00242	21 58 03.09	-10 18 25.8	18.7 V	910
(6969)	1997 08 02.02649	21 58 01.89	-10 18 37.2	18.5 V	910
(6969)	1997 08 02.04977	21 58 00.74	-10 18 48.2	18.3 V	910
(7001)	1997 08 01.99756	21 51 01.63	-10 20 18.6	17.2 V	910
(7001)	1997 08 02.02163	21 51 00.47	-10 20 28.4	17.5 V	910
(7001)	1997 08 02.04491	21 50 59.35	-10 20 38.0	17.7 V	910
(7111)	1997 08 31.07109	03 57 41.81	+18 57 29.7	18.5 V	910
(7111)	1997 08 31.09890	03 57 43.22	+18 57 29.5	18.5 V	910
(7111)	1997 08 31.12388	03 57 44.49	+18 57 29.2	18.9 V	910
(7126)	1997 08 01.99969	21 54 05.01	-10 40 01.8	18.6 V	910
(7126)	1997 08 02.02377	21 54 03.94	-10 40 07.1	18.6 V	910
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(7838)	1997 08 24.90613	16 36 55.27	-01 36 12.2	19.7 V	910

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Canterbury, Kent CT2 7N2, England [N.McBride@ukc.ac.uk]

Observers S. F. Green, N. McBride
4.2-m William Herschel Telescope + CCD
GSC

1994 TA	1997 09 07.07656	02 28 25.74	+08 53 15.5	23.3 R	950
1994 TA	1997 09 07.12968	02 28 25.41	+08 53 12.4		950
1994 TA	1997 09 07.20546	02 28 25.05	+08 53 09.7		950
1994 TA	1997 09 07.23010	02 28 24.92	+08 53 09.1		950
1994 TB	1997 09 06.96505	23 40 12.66	+06 46 37.6	22.2 R	950
1994 TB	1997 09 07.00791	23 40 12.42	+06 46 36.3		950

1994 TB	1997 09 07.18564	23 40 11.35	+06 46 30.8		950
1994 TB	1997 09 07.21435	23 40 11.17	+06 46 30.1		950
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1994 TB	1997 09 10.04862	23 39 54.27	+06 45 01.2		950
1994 TB	1997 09 11.05709	23 39 48.20	+06 44 29.3		950
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1994 TB	1997 09 11.09755	23 39 47.92	+06 44 28.4		950
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1996 RR ₂₀	1997 09 06.95833	23 00 08.37	-06 24 42.2	22.6 R	950
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1996 RR ₂₀	1997 09 07.06715	23 00 07.89	-06 24 45.1		950
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1996 TS ₆₆	1997 09 10.22370	02 14 05.38	+20 51 05.4	21.8 R	950
1996 TS ₆₆	1997 09 10.24097	02 14 05.33	+20 51 05.2		950
1996 TS ₆₆	1997 09 10.24803	02 14 05.28	+20 51 05.3		950
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1997 RY ₆	1997 09 07.18564	23 40 16.67	+06 45 45.8		950
1997 RY ₆	1997 09 07.21435	23 40 16.54	+06 45 46.0		950
1997 RY ₆	1997 09 11.05709	23 39 58.98	+06 44 11.1	22.4 R	950
1997 RY ₆	1997 09 11.08053	23 39 58.84	+06 44 10.2		950
1997 RY ₆	1997 09 11.09755	23 39 58.79	+06 44 09.8		950

M.P.C. 30630

1997 SEPT.16

1997 RY₆ 1997 09 11.17910 23 39 58.44 +06 44 07.7 950
 1997 RY₆ 1997 09 11.19622 23 39 58.37 +06 44 07.6 950

951 Highworth

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 [0C34@dial.pipex.com]

0.30-m Newtonian reflector + CCD
 GSC

(444) 1997 09 09.90938 20 03 52.71 -06 58 26.1 12.8 R 951
 (444) 1997 09 09.93160 20 03 52.69 -06 58 35.8 12.8 R 951
 (444) 1997 09 12.87882 20 04 03.52 -07 19 09.6 13.3 R 951
 (444) 1997 09 12.89028 20 04 03.59 -07 19 14.4 13.7 R 951

952 Marxuquera

J. J. Gomez D., Cardenal Cisneros 55-4-8, E-46700 Gandia, Spain
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0.25-m *f*/6.3 Schmidt-Cassegrain + CCD
 GSC

1980 PF 1997 09 03.89625 22 03 50.68 -04 09 49.7 952
 1980 PF 1997 09 03.90696 22 03 49.95 -04 09 49.3 952
 1980 PF 1997 09 03.93803 22 03 48.12 -04 09 48.0 952
 1980 PF 1997 09 05.91944 22 01 55.76 -04 08 26.6 952
 1980 PF 1997 09 05.95251 22 01 53.81 -04 08 25.2 952
 1981 UT₇ 1997 08 31.02588 22 39 32.44 -09 35 08.3 952
 1981 UT₇ 1997 08 31.03141 22 39 32.23 -09 35 09.4 952
 1981 UT₇ 1997 08 31.06450 22 39 30.69 -09 35 20.1 952
 1981 UT₇ 1997 09 03.97022 22 36 42.14 -09 55 11.1 952
 1981 UT₇ 1997 09 03.97515 22 36 41.93 -09 55 12.3 952
 1981 UT₇ 1997 09 03.99848 22 36 40.92 -09 55 19.6 952
 1981 VK 1997 08 30.99308 22 16 23.03 -11 43 38.6 952
 1981 VK 1997 08 30.99846 22 16 22.80 -11 43 39.8 952
 1981 VK 1997 08 31.04326 22 16 20.74 -11 43 50.8 952
 1981 VK 1997 09 03.94537 22 13 27.95 -11 58 47.1 952
 1981 VK 1997 09 03.98032 22 13 26.33 -11 58 55.0 952
 1983 PX 1997 08 30.91369 21 35 27.88 -01 03 22.9 952
 1983 PX 1997 08 30.92079 21 35 27.62 -01 03 27.2 952
 1983 PX 1997 08 30.96557 21 35 26.16 -01 03 52.3 952
 1983 PX 1997 09 03.88115 21 33 33.91 -01 41 01.6 952
 1983 PX 1997 09 03.88615 21 33 33.78 -01 41 04.9 952
 1983 PX 1997 09 03.91135 21 33 33.08 -01 41 19.1 952
 1983 PX 1997 09 03.91517 21 33 32.94 -01 41 21.2 952
 1983 PX 1997 09 05.96242 21 32 41.54 -02 00 53.1 952
 1983 PX 1997 09 05.96411 21 32 41.50 -02 00 54.3 952
 1983 PX 1997 09 06.00003 21 32 40.58 -02 01 15.0 952
 1983 PX 1997 09 06.00264 21 32 40.51 -02 01 16.2 952
 1990 TX 1997 08 31.01928 22 20 12.41 -20 52 22.1 952
 1990 TX 1997 08 31.05193 22 20 10.65 -20 52 32.1 952
 1990 TX 1997 09 03.92943 22 16 59.94 -21 11 09.2 952
 1990 TX 1997 09 05.93628 22 15 24.51 -21 19 17.9 952
 (306) 1997 09 03.83618 20 39 44.00 -18 46 56.1 952
 (306) 1997 09 03.86145 20 39 43.61 -18 47 06.0 952
 (306) 1997 09 05.89275 20 39 18.93 -18 59 02.3 952
 (306) 1997 09 05.92721 20 39 18.51 -18 59 14.1 952

(532) 1997 09 03.81946 18 51 42.01 -27 00 04.6 952
 (532) 1997 09 03.87032 18 51 42.32 -27 00 12.5 952
 (532) 1997 09 05.87559 18 52 00.84 -27 05 12.6 952
 (532) 1997 09 05.90259 18 52 01.06 -27 05 15.9 952
 (2693) 1997 08 31.07008 00 24 42.81 -12 02 08.0 952
 (2693) 1997 08 31.07554 00 24 42.69 -12 02 09.9 952
 (2693) 1997 08 31.09486 00 24 41.93 -12 02 16.7 952
 (2693) 1997 09 05.99311 00 20 54.51 -12 35 52.9 952
 (2693) 1997 09 05.99473 00 20 54.44 -12 35 53.8 952
 (2693) 1997 09 06.02175 00 20 53.20 -12 36 02.9 952

954 Teide Observatory

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 Measurer R. Casas

0.8-m *f*/11.3 Cassegrain + CCD
 GSC 1.1

1995 QY₉ 1997 08 09.04954 23 07 32.10 -05 21 06.3 22.2 R 954
 1995 QY₉ 1997 08 10.10807 23 07 26.65 -05 21 37.9 954
 1996 TP₆₆ 1997 08 09.15118 01 26 56.29 +14 50 05.2 21.3 R 954
 1996 TP₆₆ 1997 08 10.13616 01 26 54.68 +14 50 08.9 954

955 Sassoeiros

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0.25-m *f*/10 Schmidt-Cassegrain + CCD
 GSC, SA-1.0

(3761) 1997 07 31.93837 19 38 45.22 +07 20 20.7 14.2 955
 (3761) 1997 07 31.93941 19 38 45.20 +07 20 20.1 14.3 955
 (3761) 1997 07 31.94653 19 38 44.83 +07 20 18.1 14.0 955

956 Observatorio Pozuelo

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0.28-m *f*/3.3 Schmidt-Cassegrain + CCD
 GSC

1978 QY₁ 1997 08 12.04243 22 12 25.56 -07 50 01.2 956
 1978 QY₁ 1997 08 12.05865 22 12 24.84 -07 50 07.4 956
 1993 UP₈ 1997 08 11.89345 17 01 06.33 -09 28 16.6 956
 1993 UP₈ 1997 08 11.90520 17 01 06.50 -09 28 20.5 956
 1994 TC₃ 1997 08 12.06935 21 51 51.43 -10 42 59.1 956
 1994 TC₃ 1997 08 12.08551 21 51 50.56 -10 43 03.4 956
 1996 EJ 1997 08 12.01021 19 21 40.23 -11 48 56.5 956
 1996 EJ 1997 08 12.02464 19 21 39.71 -11 49 03.2 956
 (7836) 1997 08 13.98098 19 07 09.84 -08 53 21.1 956
 (7836) 1997 08 14.00917 19 07 09.18 -08 53 29.6 956

958 Observatoire de Dax

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 Measurer P. Dupouy

0.254-m $f/6.7$ reflector + CCD
GSC

1997 PO	1997 08 12.00791	20 12 08.98	-15 06 14.1	17.9	958
1997 PO	1997 08 12.01456	20 12 08.93	-15 06 22.3	17.4	958
1997 PO	1997 08 12.04991	20 12 08.51	-15 07 27.1	17.4	958
1997 PF ₁	1997 08 29.93991	21 53 09.69	-08 37 31.5	18.0	958
1997 PF ₁	1997 08 29.99905	21 53 06.45	-08 37 38.6	18.1	958
1997 PF ₁	1997 08 30.04870	21 53 03.41	-08 37 45.3	17.8	958
1997 PJ ₄	1997 08 22.84994	20 36 49.21	-06 53 52.4	17.5	958
1997 PJ ₄	1997 08 22.89244	20 36 47.06	-06 53 55.6	17.5	958
1997 PJ ₄	1997 08 22.93608	20 36 44.85	-06 53 58.7	17.4	958
1997 PJ ₄	1997 08 22.97912	20 36 42.75	-06 54 01.7	17.5	958
1997 QE	1997 09 02.93064	21 53 11.93	-10 03 34.8	18.3	958
1997 QE	1997 09 02.98203	21 53 10.08	-10 04 05.6	18.3	958
1997 QZ	1997 08 29.97399	21 54 05.24	-08 53 53.3	17.5	958
1997 QZ	1997 08 30.03214	21 54 02.80	-08 54 22.0	17.3	958
1997 QZ	1997 08 30.07528	21 54 01.07	-08 54 43.3	17.6	958
1997 QZ	1997 08 30.85369	21 53 31.70	-09 01 12.1	17.6	958
1997 QZ	1997 08 30.90800	21 53 29.47	-09 01 38.6	17.6	958
1997 QZ	1997 08 30.94581	21 53 28.10	-09 01 58.7	17.5	958
1997 QJ ₁	* 1997 08 29.97399	21 53 56.53	-08 54 06.5	18.6	958
1997 QJ ₁	1997 08 30.03214	21 53 53.81	-08 54 27.6	18.9	958
1997 QJ ₁	1997 08 30.07528	21 53 51.92	-08 54 45.1	18.7	958
1997 QJ ₁	1997 08 30.85369	21 53 19.44	-08 59 43.5	18.5	958
1997 QJ ₁	1997 08 30.90800	21 53 17.07	-09 00 04.8	18.6	958
1997 QJ ₁	1997 08 30.94581	21 53 15.29	-09 00 18.9	18.4	958
1997 QJ ₁	1997 09 02.89763	21 51 15.79	-09 18 44.3	18.5	958
1997 QJ ₁	1997 09 02.94384	21 51 13.82	-09 19 01.1	18.7	958
1997 QJ ₁	1997 09 02.99437	21 51 11.56	-09 19 20.1	18.6	958

966 Church Stretton

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0.25-m Schmidt Cassegrain + focal reducer + CCD
GSC

1996 YB ₂	1995 06 07.98027	17 02 41.72	-04 16 14.3	17.1 V	966
1996 YB ₂	1995 06 08.01581	17 02 39.86	-04 16 09.4	17.1 V	966
1997 RD ₁	1997 09 04.01566	21 34 06.47	-04 28 42.4	17.3 V	966
1997 RD ₁	1997 09 04.04116	21 34 06.80	-04 29 17.2		966
1997 RD ₁	1997 09 04.88529	21 34 21.07	-04 48 42.0	17.1 V	966
1997 RD ₁	1997 09 04.89471	21 34 21.23	-04 48 55.1		966
1997 RA ₇	* 1997 09 03.99372	23 10 20.34	-00 28 34.6	17.2 V	966
1997 RA ₇	1997 09 04.02508	23 10 18.41	-00 28 46.7		966
1997 RA ₇	1997 09 04.04622	23 10 17.12	-00 28 55.6		966
1997 RA ₇	1997 09 04.95574	23 09 24.34	-00 34 42.2	16.9 V	966
1997 RA ₇	1997 09 04.97683	23 09 23.10	-00 34 51.1		966
1997 RA ₇	1997 09 09.89760	23 04 35.85	-01 07 16.7	16.3 V	966
1997 RA ₇	1997 09 09.93119	23 04 33.84	-01 07 29.4		966
1997 RB ₇	* 1997 09 07.90209	22 50 34.42	+03 08 37.8	17.5 V	966
1997 RB ₇	1997 09 07.92355	22 50 33.52	+03 08 28.7		966
1997 RB ₇	1997 09 07.94808	22 50 32.38	+03 08 20.5		966
1997 RB ₇	1997 09 08.94345	22 49 50.18	+03 01 46.3	17.0 V	966

1997 RB ₇	1997 09 09.03131	22 49 46.34	+03 01 10.5		966
1997 RC ₇	* 1997 09 07.90775	22 50 20.44	+03 26 33.0	17.8 V	966
1997 RC ₇	1997 09 07.93220	22 50 19.35	+03 26 22.0		966
1997 RC ₇	1997 09 07.95306	22 50 18.33	+03 26 13.7		966
1997 RC ₇	1997 09 09.94824	22 48 53.13	+03 12 33.0	17.9 V	966
1997 RC ₇	1997 09 09.99407	22 48 50.96	+03 12 13.8		966
1997 RC ₇	1997 09 10.02157	22 48 49.75	+03 12 04.1		966

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C/1989 W1 (Aarseth-Brewington)

Epoch 1989 Dec. 20.0 TT = JDT 2447880.5

T	1989 Dec. 27.8889 TT		Marsden	
q	0.300692	(2000.0)	P	Q
z	-0.000160	ω 205.2591	-0.8801320	+0.4076916
	± 0.000020	Ω 345.9177	+0.3608681	+0.2416788
e	1.000048	i 88.3862	-0.3084508	-0.8805560
From 59 observations 1989 Sept. 1-1990 Jan. 30, mean residual 1".2.				

C/1996 O1 (SOHO)

T 1996 July 22.09 TT

q	0.0045	(2000.0)	P	Q
		ω 44.65	+0.15640	-0.88440
		Ω 317.12	-0.98537	-0.10918
e	1.0	i 139.74	+0.06774	+0.45377

From 9 observations 1996 July 21.

C/1996 O2 (SOHO)

T 1996 July 24.37 TT

q	0.0020	(2000.0)	P	Q
		ω 80.17	+0.03107	-0.99475
		Ω 350.21	-0.98112	-0.01172
e	1.0	i 144.98	+0.19086	+0.10170

From 18 observations 1996 July 23-24.

C/1996 O3 (SOHO)

<i>T</i>	1996 July 25.92 TT		Williams	
<i>q</i>	0.0051	(2000.0)	P	Q
	ω	50.28	+0.15576	−0.92013
	Ω	323.83	−0.98425	−0.11377
<i>e</i>	1.0	<i>i</i> 142.50	+0.08363	+0.37473
From 8 observations 1996 July 25.				

C/1996 O4 (SOHO)

<i>T</i>	1996 July 28.18 TT		Williams	
<i>q</i>	0.0050	(2000.0)	P	Q
	ω	46.39	+0.15483	−0.89441
	Ω	318.97	−0.98490	−0.10643
<i>e</i>	1.0	<i>i</i> 140.27	+0.07746	+0.43441
From 12 observations 1996 July 27–28.				

C/1996 P2 (Russell-Watson)

Epoch 1996 Mar. 18.0 TT = JDT 2450160.5				
<i>T</i>	1996 Mar. 1.3509 TT		Nakano	
<i>q</i>	2.005766	(2000.0)	P	Q
<i>z</i>	−0.000182	ω 188.8020	+0.3264813	+0.8163174
	± 0.000004	Ω 101.4038	−0.8349314	+0.4853635
<i>e</i>	1.000365	<i>i</i> 29.0832	−0.4430570	−0.3131265
From 126 observations 1996 Aug. 11–1997 Aug. 31, mean residual 0''.7.				

C/1997 A1 (NEAT)

Epoch 1997 June 1.0 TT = JDT 2450600.5				
<i>T</i>	1997 June 19.5876 TT		Nakano	
<i>q</i>	3.157221	(2000.0)	P	Q
<i>z</i>	−0.000655	ω 40.0119	−0.1810618	+0.8987187
	± 0.000006	Ω 135.7667	+0.6902936	−0.1731325
<i>e</i>	1.002069	<i>i</i> 145.0717	+0.7005079	+0.4029018
From 171 observations 1997 Jan. 9–Sept. 4, mean residual 0''.6.				

C/1997 D1 (Mueller)

Epoch 1997 Sept. 29.0 TT = JDT 2450720.5				
<i>T</i>	1997 Oct. 11.6088 TT		Marsden	
<i>q</i>	2.247691	(2000.0)	P	Q
<i>z</i>	−0.000498	ω 184.9589	−0.0916571	+0.7876240
	± 0.000004	Ω 279.1719	+0.9335295	+0.2809277
<i>e</i>	1.001120	<i>i</i> 141.8886	+0.3465856	−0.5483867
From 250 observations 1997 Feb. 20–Sept. 6, mean residual 0''.6.				

C/1997 J2 (Meunier-Dupouy)

Epoch 1998 Mar. 8.0 TT = JDT 2450880.5				
<i>T</i>	1998 Mar. 10.4494 TT		Nakano	
<i>q</i>	3.050826	(2000.0)	P	Q
<i>z</i>	−0.000360	ω 122.6840	+0.4717713	+0.7140321
	± 0.000016	Ω 148.8407	−0.5763888	−0.1942220
<i>e</i>	1.001097	<i>i</i> 91.2725	+0.6672389	−0.6726336
From 455 observations 1997 May 5–Sept. 10, mean residual 0''.6.				

C/1997 L1 (Xinglong)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				
<i>T</i>	1996 Nov. 22.6380 TT		Nakano	
<i>q</i>	4.898745	(2000.0)	P	Q
<i>z</i>	+0.000445	ω 346.3325	−0.6361534	+0.0867724
	± 0.000042	Ω 233.2992	−0.5869872	−0.6993247
<i>e</i>	0.997821	<i>i</i> 72.9839	−0.5007543	+0.7095178
From 160 observations 1997 June 3–Sept. 4, mean residual 0''.7.				

C/1997 O1 (Tilbrook)

Epoch 1997 July 11.0 TT = JDT 2450640.5				
<i>T</i>	1997 July 13.4214 TT		Nakano	
<i>q</i>	1.371654	(2000.0)	P	Q
<i>z</i>	+0.012106	ω 336.1898	−0.4355720	−0.5632830
	± 0.000439	Ω 231.2516	−0.6109899	−0.3878030
<i>e</i>	0.983395	<i>i</i> 115.8048	−0.6610358	+0.7296034
From 82 observations 1997 July 23–Sept. 4, mean residual 0''.6.				

C/1997 P2 (Spacewatch)

Epoch 1997 Aug. 20.0 TT = JDT 2450680.5				
<i>T</i>	1997 Sept. 4.8410 TT		Nakano	
<i>q</i>	4.248569	(2000.0)	P	Q
<i>z</i>	−0.006866	ω 25.3765	+0.8381935	+0.5031411
	± 0.000105	Ω 302.7987	−0.5332685	+0.6752826
<i>e</i>	1.029169	<i>i</i> 14.4976	−0.1142645	+0.5392981
From 79 observations 1997 Aug. 12–Sept. 10, mean residual 0''.6.				

C/1997 Q1 (SOHO)

<i>T</i>	1997 Sept. 1.37 TT		Marsden	
<i>q</i>	0.0084	(2000.0)	P	Q
	ω	57.95	+0.22885	−0.94711
	Ω	337.55	−0.96530	−0.19092
<i>e</i>	1.0	<i>i</i> 143.90	+0.12579	+0.25795
From 18 observations 1997 Aug. 31.				

C/1997 Q2 (SOHO)

<i>T</i>	1997 Aug. 24.07 TT		Marsden	
<i>q</i>	0.0078	(2000.0)	P	Q
	ω	53.27	+0.25365	−0.93306
	Ω	334.09	−0.96287	−0.21836
<i>e</i>	1.0	<i>i</i> 144.29	+0.09242	+0.28585
From 18 observations 1997 Aug. 22–23.				

128P/Shoemaker-Holt 1-B

Epoch 1997 Nov. 8.0 TT = JDT 2450760.5				
<i>T</i>	1997 Nov. 20.2943 TT		Nakano	
<i>q</i>	3.047038	(2000.0)	P	Q
<i>n</i>	0.1036170	ω 210.2187	+0.4274624	−0.9030049
<i>a</i>	4.489336	Ω 214.5270	+0.8439162	+0.4156803
<i>e</i>	0.321272	<i>i</i> 4.3617	+0.3241626	+0.1085915
<i>P</i>	9.51			
From 94 observations 1987–1997, mean residual 0''.9.				

(7856)* 1975 VB₁ = 1977 CR₂

Discovered 1975 Nov. 1 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Id. E. Bowell (*MPC* 18281)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		316.83451		(2000.0)		P		Q	
<i>n</i>		0.17311658	ω	293.17625		+0.95526675		-0.27586789	
<i>a</i>		3.1884304	Ω	82.97221		+0.29504769		+0.86421296	
<i>e</i>		0.1496868	<i>i</i>	6.16553		+0.02030500		+0.42075274	
<i>P</i>		5.69	<i>H</i>	12.7		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

751101 095	2.1+	0.3-	921116 400	0.2+	1.3+	970826 367	0.1-	0.8+
751107 095	0.7-	1.9-	921116 400	1.0-	1.5+	970826 367	0.2+	0.8+
751202 095	0.7-	0.2+	921117 400	0.2+	0.3+	970830 566	0.2+	0.2+
770211 675	0.1+	1.2+	921117 400	0.2+	0.6-	970830 566	0.4+	0.0
770212 675	0.5+	1.6+	970802 124	0.6-	0.4-	970830 566	0.0	1.1+
921102 408	0.8-	1.1-	970802 124	0.3-	0.3-	970901 367	0.1+	0.2+
921102 408	0.9+	0.3-	970802 124	1.4-	0.2-	970901 367	0.2+	0.4+

(7857)* 1978 QC₃ = 1969 VO₁ = 1979 YZ₉ = 1980 AJ = 1990 DN = 1991 JJ₂ = 1994 AG₂

Discovered 1978 Aug. 22 by C.-I. Lagerkvist at Mount Stromlo.

Id. A. Lowe (*MPC* 16575), G. V. Williams (*MPC* 23120)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		255.01201		(2000.0)		P		Q	
<i>n</i>		0.20478294	ω	292.08200		+0.39434816		-0.90518346	
<i>a</i>		2.8506257	Ω	133.67261		+0.90306989		+0.34977551	
<i>e</i>		0.1655302	<i>i</i>	12.66086		+0.17015961		+0.24145392	
<i>P</i>		4.81	<i>H</i>	12.3		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

660221 760	0.1+	0.1+	910511 413	(19.8+	5.5-)	970713 910	0.2-	0.0
691114 095	(3.9-	2.0-)	910511 413	(6.1+	0.3-)	970713 910	0.1-	0.3-
780822 414	0.6+	0.4+	910518 413	1.5-	0.8+	970727 610	0.2+	0.7+
780822 414	1.2-	0.1+	910518 413	0.8+	0.1-	970727 610	0.3+	0.7+
780823 414	0.7-	0.7-	910518 413	0.3+	0.4-	970727 610	0.3+	0.8+
780823 414	0.3-	1.0+	931207 675	1.0+	1.1+	970731 610	1.1+	0.1-
791220 323	0.5-	0.5-	931207 675	0.4+	0.5+	970731 610	0.9+	0.2-
791220 323	1.8+	0.2-	940105 413	0.3+	0.0	970731 610	0.8+	0.2-
800115 330	0.2-	1.4+	940105 413	1.4-	0.0	970830 540	0.9+	0.4+
830713 413	0.1-	0.5-	940107 413	0.5-	0.9-	970830 540	0.2+	0.2-
830713 413	0.2-	0.8-	940116 413	0.8-	0.1+	970830 540	0.9+	0.2-
831007 413	1.3+	0.5+	940123 413	0.4-	0.3-	970831 540	0.2+	0.2+
831007 413	0.0	1.2-	940123 413	0.5-	0.2-	970831 540	0.4+	0.1+
900224 403	(3.8-	1.0+)	Y 950527 816	0.7+	0.0	970831 540	0.4+	0.4+
900224 403	1.8-	1.3-	Y 950527 816	0.3+	0.0	970901 566	0.4-	0.4+
900227 403	0.8-	0.3-	970629 691	1.5-	0.8-	970901 566	0.4-	0.5+
900227 403	1.7+	1.3+	970629 691	1.5-	0.7-	970901 566	0.0	0.3+
910508 413	0.0	0.3+	970629 691	1.6-	0.4-			
910508 413	(2.4+	1.1-)	970713 910	0.1-	0.3-			

(7858)* 1978 SB₃ = 1974 QH₂ = 1982 VC₁₃ = 1986 VS₅

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

Id. C. M. Bardwell (*MPC* 15700)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		285.56923		(2000.0)		P		Q	
<i>n</i>		0.25390355	ω	38.79752		+0.98748838		-0.15339148	
<i>a</i>		2.4699616	Ω	329.96553		+0.12023383		+0.88246307	
<i>e</i>		0.2132049	<i>i</i>	4.19059		+0.10203197		+0.44466840	
<i>P</i>		3.88	<i>H</i>	13.7		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

551023 675	0.8+	0.4-	861105 688	1.0+	0.4+	970526 689	(1.5-	2.6-)
551023 675	0.8+	1.1+	861105 688	0.9+	0.5-	970527 689	1.1-	1.8+
740826 095	0.7-	1.4-	901115 801	0.8-	0.1-	970628 704	0.4+	0.4+
780926 095	1.5-	0.9+	901115 801	0.2-	0.3+	970628 704	0.7+	0.2+
781002 095	0.4-	0.2+	901218 801	0.6-	0.0	970628 704	0.9-	0.5-
781005 095	0.5-	0.1+	901218 801	0.4-	0.1+	970629 704	1.8+	0.1-
781008 095	0.7-	0.4+	901220 801	0.0	0.3+	970629 704	0.4+	0.3+
821106 808	0.5-	0.1-	901220 801	0.0	0.3+	970629 704	0.4+	0.2-
821106 808	0.6+	0.5+	960323 566	0.4-	1.4+	970629 704	0.3+	0.1-
821109 808	(3.9-	2.4-)	960323 566	0.1+	1.2+	970629 704	0.5+	0.1+
821109 808	0.4+	0.4+	960323 566	0.0	1.1+			

(7859)* 1979 US = 1974 RG = 1981 ET₁ = 1992 OA₁₀ = 1993 WP

Discovered 1979 Oct. 19 by A. Mrkos at Kleť.

Id. S. Nakano (*MPC* 22948)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		295.64811		(2000.0)		P		Q	
<i>n</i>		0.21432414	ω	35.02434		+0.72631356		-0.68729678	
<i>a</i>		2.7653832	Ω	8.41245		+0.61475324		+0.64329176	
<i>e</i>		0.1335595	<i>i</i>	3.75408		+0.30748509		+0.33734084	
<i>P</i>		4.60	<i>H</i>	13.3		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

530215 675	0.1+	0.1-	920730 809	(3.0-	0.5-)	960611 046	0.7+	0.2+
530215 675	0.2+	0.3-	920730 809	(2.8-	0.5-)	960611 046	0.5-	0.2+
740911 095	(2.0-	4.0-)	920801 809	0.5-	0.8+	970805 327	0.4-	0.3+
791019 046	0.9+	0.1+	920801 809	0.2-	0.6+	970805 327	0.2-	0.2+
791019 046	0.0	0.3-	920801 809	0.1+	0.6+	970805 327	0.4-	0.4+
791020 046	0.6-	0.2-	920803 809	(2.4+	0.7-)	970807 046	0.4-	0.3+
791020 046	0.4+	0.6+	920803 809	(2.6+	0.6-)	970807 046	0.3-	0.1+
791023 046	0.6-	0.2+	920803 809	(3.1+	1.0-)	970807 046	0.1-	0.1+
791023 046	(3.8+	0.5+)	931122 408	0.6-	0.1+	970808 046	0.4-	0.3+
810309 809	(0.1+	2.6+)	931122 408	0.4+	0.9+	970808 046	0.4-	0.1+
810309 809	(0.4+	2.5+)	931204 408	1.7-	0.3-	970808 046	0.6-	0.2+
810309 809	(0.6+	2.4+)	931204 408	0.1+	1.7+	970811 327	0.4-	0.3+
810309 809	0.9+	2.1+	931204 408	0.6-	0.7-	970811 327	0.2-	0.4+
810309 809	0.5+	2.0+	931205 408	0.3-	1.0+	970811 327	0.0	0.2+
810309 809	0.3+	1.9+	931205 408	0.8-	0.2+	970818 327	0.5-	0.8+
810310 809	0.1+	0.8+	950421 046	0.3+	0.3+	970818 327	0.4-	0.5+
810310 809	0.1-	0.8+	950421 046	0.7+	0.2+	970818 327	0.2+	0.6+
810310 809	0.3-	0.7+	950422 046	1.9+	0.1-	970826 046	0.0	0.8+
810310 809	0.3-	0.6+	950422 046	2.0+	0.7-	970826 046	0.1+	1.0+
810310 809	0.3+	0.6+	950422 046	1.5+	1.1-	970826 046	0.1-	1.0+
810310 809	0.7+	0.6+	960606 046	1.1-	0.6+	970826 046	0.2+	1.1+
881007 675	1.1+	0.9-	960606 046	0.8-	0.4+	970826 046	0.2+	1.2+

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881007 675 1.1+ 1.0- 960606 046 1.2- 0.1- 970826 046 0.2+ 1.0+
 920730 809 (3.4- 0.6-) 960611 046 1.2- 0.2+

(7860)* 1980 PF

Discovered 1980 Aug. 6 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28957968	ω	17.43165	+0.86371794	+0.49261113		
<i>a</i>	2.2626844	Ω	312.56928	-0.47789894	+0.73351424		
<i>e</i>	0.1618187	<i>i</i>	8.30859	-0.16001226	+0.46828531		
<i>P</i>	3.40	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

800717 688	0.3+	2.0-	870929 688	0.1+	2.3+	970801 688	0.3-	0.7+
800806 688	0.1+	0.7-	870929 688	0.7+	1.0+	970801 688	0.6+	1.0-
800907 688	1.1+	2.1-	871002 054	0.3+	0.4+	970803 124	0.3-	0.9+
800907 688	2.4+	1.6-	871020 688	1.0-	0.4-	970803 124	0.7-	1.1+
800917 688	0.1+	1.4-	871020 688	(4.9-	2.2+)	970803 124	1.2-	1.1+
801002 688	1.5+	0.1-	871023 801	0.1-	1.3-	970828 619	0.5-	0.7+
820130 675	0.3-	0.3-	871026 688	0.6+	1.3+	970828 619	0.1-	0.2+
820131 675	0.2-	0.4-	871026 688	(3.1+	3.7+)	970828 619	0.2-	0.1+
841224 801	0.8-	0.3+	900909 413	1.0+	0.9+	970829 619	0.5-	0.2+
850122 688	0.4-	0.6+	900909 413	0.4-	0.2-	970829 619	0.5-	0.3+
850122 688	0.5+	1.2+	900911 413	0.8+	0.6+	970903 952	0.2+	0.7+
870919 688	1.1-	0.9-	900911 413	1.4-	0.5-	970903 952	1.0-	0.7+
870919 688	2.1+	0.5-	941005 689	1.2+	0.7+	970903 952	0.0	0.6+
870922 095	0.1-	1.7-	941009 689	1.2+	1.0+	970905 952	0.3-	0.5+
870925 095	1.3-	0.5-	941013 689	0.4+	0.3-	970905 952	0.4-	0.7+
870926 095	1.5-	1.8-	970709 689	0.0	0.2+	970908 689	0.0	0.2+

(7861)* 1981 EK₂₅

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

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25905838	ω	344.74654	+0.40771181	+0.91272642		
<i>a</i>	2.4370865	Ω	309.30714	-0.83413953	+0.36049330		
<i>e</i>	0.1762624	<i>i</i>	1.96171	-0.37145973	+0.19228902		
<i>P</i>	3.80	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

810212 413	0.1+	0.2-	890530 675	0.6+	0.8-	970731 610	1.4+	0.1+
810212 413	0.4+	0.4-	890530 675	1.3-	0.8-	970731 610	1.6+	0.3+
810302 413	1.0-	0.1+	890601 675	1.3-	0.3-	970802 124	0.1+	0.4+
810302 413	1.0+	1.3-	951225 566	0.4+	0.5-	970803 124	0.9-	0.1-
810306 413	0.9+	1.0+	951225 566	0.6-	0.3-	970803 124	1.1+	0.5-
810311 413	0.3+	0.3+	951225 566	0.2-	0.3-	970807 689	0.4-	1.0+
810315 413	0.8+	0.3+	970708 689	0.3-	0.6+	970810 540	0.6-	0.4-
810405 413	(7.1+	1.7-)	970709 689	1.0-	0.5-	970810 540	0.5-	0.3-
810406 413	0.0	0.5+	970713 910	0.0	0.0	970810 540	0.8-	0.3-
810406 413	(3.9+	2.1-)	970713 910	0.1-	0.0	970810 540	0.7-	0.1-
810410 413	0.2-	2.4+	970713 910	0.1-	0.1-	970810 540	0.6-	0.5-
810410 413	(6.2-	2.3+)	970714 910	0.5+	0.1-	970811 540	0.5-	0.4-
810502 413	0.9+	0.0	970714 910	0.3+	0.1-	970811 540	0.5-	0.2-

810503 413	0.2+	0.2-	970714 910	0.2+	0.1+	970811 540	0.3-	0.2-
840108 675	(4.1-	1.3+)	970727 610	0.6+	1.1+	970812 540	0.3-	0.4+
840108 675	1.1-	0.2-	970727 610	0.9+	0.7+	970812 540	0.7-	0.1-
850303 413	0.2-	0.9-	970727 610	1.3+	0.6+	970812 540	0.5-	0.0
850608 413	0.2+	0.6+	970731 610	1.2+	0.0			

(7862)* 1981 EE₂₈ = 1954 QC₁ = 1995 CP₇

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

Id. K. Ichikawa (*MPC* 25211), E. Bowell (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20562004	ω	351.86734	+0.90426880	-0.42634847		
<i>a</i>	2.8428836	Ω	33.39862	+0.39403635	+0.81266554		
<i>e</i>	0.0767014	<i>i</i>	2.38544	+0.16441805	+0.39724263		
<i>P</i>	4.79	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

540827 675	1.0-	0.7-	950207 691	0.7-	0.5-	970812 118	0.2+	0.5+
540827 675	0.8+	0.2+	950207 691	0.3-	0.7-	970812 118	0.3+	0.4+
810212 413	0.1-	0.1-	960615 566	0.2+	0.5+	970812 118	0.5+	0.2+
810213 413	(2.9-	0.7+)	960615 566	0.4-	0.4+	970813 118	0.5+	0.1+
810302 413	1.6-	1.0-	960615 566	0.2+	0.1-	970813 118	0.6+	0.0
810302 413	0.1-	0.9-	960615 566	0.1-	0.6+	970822 118	0.2+	0.0
810306 413	(3.1-	0.4+)	960615 566	0.1-	0.2+	970822 118	0.3+	0.6-
810306 413	0.0	0.4-	960615 566	0.3+	0.7+	970823 118	0.5+	0.6-
810311 413	0.4+	0.3-	970728 691	1.6-	0.5+	970824 118	0.2+	0.2-
810315 413	1.2-	0.1-	970728 691	1.4-	0.6+	970901 684	0.4+	0.2-
810315 413	0.8+	0.3-	970728 691	1.6-	0.3+	970901 684	0.4+	0.2-
810405 413	0.6-	1.2-	970804 118	0.2-	0.0	970901 684	0.4+	0.2-
810405 413	0.5+	0.4-	970804 118	0.2-	0.1-	970901 566	0.2-	0.4-
810406 413	2.1-	0.1+	970805 118	0.2-	0.1-	970901 566	0.1+	0.4-
810406 413	1.0+	0.7-	970807 118	0.0	0.0	970901 566	0.1-	0.6-
810410 413	0.9-	0.5-	970807 118	0.1-	0.0	970901 118	0.4+	0.4-
810410 413	1.1+	1.5-	970807 118	0.1-	0.1+	970901 118	0.4+	0.5-
810501 413	0.9+	0.2-	970807 118	0.1-	0.1-	970904 118	0.3+	0.7-
881007 675	0.5+	0.8-	970807 118	0.0	0.0	970904 118	0.5+	0.7-
881007 675	0.1+	0.7-	970808 118	0.3+	0.1+	970904 118	0.4+	0.7-
950201 691	0.5-	0.5-	970808 118	0.5+	0.0	970907 118	0.0	1.3-
950201 691	0.1-	0.4-	970808 118	0.5+	0.1+	970907 118	0.0	1.5-
950201 691	0.2-	0.1-	970810 118	0.4+	0.2-			
950207 691	0.4-	0.5-	970810 118	0.4+	0.2-			

(7863)* 1981 VK = 1986 QV₅

Discovered 1981 Nov. 2 by B. A. Skiff at the Anderson Mesa Station of the Lowell Observatory.

Id. S. Nakano (*MPC* 14783)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17839917	ω	326.72092	+0.98587809	+0.16738387		
<i>a</i>	3.1251738	Ω	23.64497	-0.15067784	+0.90017283		
<i>e</i>	0.1910046	<i>i</i>	0.74271	-0.07307924	+0.40208398		
<i>P</i>	5.52	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

811023 095	0.4−	1.2−	921022 675	0.5−	1.2+	970826 629	0.7+	0.3−
811102 688	1.0−	0.8−	921022 675	0.2−	0.7−	970830 952	0.5−	0.1−
811105 688	0.9−	1.0−	921026 400	1.7+	1.6+	970830 952	0.1−	0.0
811105 688	1.6+	1.5−	921026 400	1.8−	0.5+	970831 952	0.4+	0.5−
811124 688	(0.6−	4.2−)	940115 411	0.2+	0.5−	970902 566	1.1−	0.1−
811124 688	(0.2−	5.0−)	940115 411	0.2+	0.5+	970902 566	1.0−	0.1−
850524 675	1.1−	0.0	940115 411	1.0+	0.3−	970902 566	0.8−	0.1−
860831 095	0.9+	0.1−	970807 124	0.8+	0.7+	970903 952	0.3−	0.1+
860908 095	2.0+	0.6+	970807 124	1.2+	0.0	970903 952	0.8−	0.0
921019 400	0.5+	0.3+	970826 629	0.9−	0.1−			
921019 400	0.5−	1.1+	970826 629	0.7+	0.3+			

(7864)* 1982 EE = 1986 CW = 1989 WY₅ = 1996 JJ₁₆

Discovered 1982 Mar. 14 by A. Mrkos at Kleť.

Id. G. V. Williams (*MPC* 27553)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

M	181.61551		(2000.0)		P		Q
n	0.22153005	ω	22.67473		−0.67611350		−0.72081449
a	2.7050852	Ω	110.24176		+0.64859944		−0.68054983
e	0.0432135	i	9.36252		+0.34955586		−0.13144728
P	4.45	H	12.7	G	0.15	U	1

Residuals in seconds of arc

820314 046	2.1+	1.4+	960524 691	0.3+	0.8+	970822 046	0.2+	0.3+
820314 046	1.3−	0.5+	960616 691	0.2+	0.6−	970822 046	0.1+	0.3+
820315 046	0.0	0.8+	960616 691	0.1+	0.5−	970822 046	0.0	0.1+
820315 046	0.5−	0.5+	960616 691	0.3+	0.2−	970823 046	0.1−	0.6+
820323 046	0.8+	0.3+	960622 691	0.6+	0.1−	970823 046	0.2−	0.6+
820323 046	0.2−	0.3−	960622 691	0.2+	0.3−	970823 046	0.2−	0.6+
860204 801	0.3−	0.4+	960622 691	0.5+	0.1−	970901 566	0.3−	0.2−
891124 095	(0.4−	2.8+)	970806 046	0.4+	0.1−	970901 566	0.4−	0.1−
930921 675	1.3+	0.6−	970806 046	0.3+	0.3+	970901 566	0.3−	0.2−
930921 675	(2.4+	0.9−)	970806 046	0.2+	0.2+	970902 566	0.5−	0.4−
960515 691	0.2−	0.2+	970807 046	0.5+	0.1+	970902 566	0.5−	0.1−
960515 691	0.4−	0.8−	970807 046	0.4+	0.2+	970902 566	0.6−	0.0
960515 691	0.3−	0.5−	970807 046	0.1+	0.3+	970910 046	0.1−	0.3+
960524 691	1.5−	0.9+	970807 046	0.4−	0.6+	970910 046	0.4−	0.0
960524 691	0.3+	0.2−	970807 046	0.1+	0.7+	970910 046	0.0	0.0

(7865)* 1982 FG₃ = 1936 TE = 1985 AH = 1987 SW₁₇

Discovered 1982 Mar. 21 by H. Debehogne at the European Southern

Observatory.

Id. S. Nakano (*MPC* 15243)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

M	265.74973		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.28936196	ω	121.77903		+0.42878857		−0.90304560
a	2.2638193	Ω	302.80944		+0.81827106		+0.40017708
e	0.1502460	i	1.73696		+0.38284831		+0.15609917
P	3.41	H	13.6	G	0.15	U	1

Residuals in seconds of arc

361013 053(59.0+	26.7+)	X	820328 809	0.0	0.0	870918 095	(0.7+	3.2−)
361014 053(18.2−	2.5+)	X	820329 809	0.3+	0.5−	870920 095	0.1+	1.6−
510204 675	0.8−	0.3+	820329 809	0.1+	0.6−	871002 095	1.5+	1.1−

510204 675	0.6+	0.4−	820329 809	0.2+	0.5−	941115 411	0.3−	0.5−
820321 809	(2.7−	1.3−)	820330 809	0.6−	0.2−	941115 411	0.3−	0.4−
820321 809	2.1−	1.2−	820330 809	0.6−	0.1−	941226 413	2.1+	1.2+
820321 809	1.9−	1.6−	820330 809	0.1+	0.3−	941226 413	1.8−	0.8−
820324 809	1.1+	0.9−	820331 809	1.2−	0.7−	941227 413	1.4+	0.2−
820324 809	1.4+	0.9−	820331 809	1.0−	0.0	941227 413	1.1−	0.1+
820324 809	1.8+	0.8−	820331 809	0.7−	0.4+	970615 327	0.0	0.7−
820326 809	0.4+	0.3−	820331 809	0.4+	0.2−	970615 327	0.2+	0.0
820326 809	0.9+	0.3−	820331 809	0.2+	0.3−	970615 327	0.1+	1.4−
820326 809	1.2+	0.3−	820331 809	0.2+	0.1−	970615 327	0.4+	0.3+
820327 809	(2.4−	1.7+)	820401 809	0.3+	0.3+	970901 540	0.5+	0.5−
820327 809	2.0−	1.2+	820401 809	0.8+	0.3+	970901 540	0.2−	0.4−
820327 809	1.5−	1.4+	820401 809	0.5+	0.3+	970901 540	0.3−	0.6−
820328 809	0.8−	0.1+	850111 046	(6.9−	2.2−)	970902 540	0.0	0.2−
820328 809	0.2−	0.1+	850111 046	(3.4−	3.1−)	970902 540	0.2+	0.1−

(7866)* 1982 TK = 1954 CT = 1959 OD

Discovered 1982 Oct. 13 by E. Bowell at the Anderson Mesa Station of the

Lowell Observatory.

Id. E. Bowell (*MPC* 24558), G. V. Williams (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

M	346.33243		(2000.0)		P		Q
n	0.26036574	ω	252.20195		+0.86796351		+0.49304141
a	2.4289215	Ω	78.22083		−0.42948513		+0.80543190
e	0.2088582	i	3.48914		−0.24936292		+0.32892192
P	3.79	H	13.4	G	0.15	U	2

Residuals in seconds of arc

540210 675	0.4+	0.1−	821114 381	1.8−	0.4+	960323 691	0.7−	1.5−
540210 675	0.2+	1.0+	821114 381	1.3−	0.8+	960323 691	0.7−	1.7−
590726 076	0.0	0.6−	821115 688	0.4+	1.6−	960323 691	0.9−	1.5−
820922 688	1.2+	0.1−	821115 688	1.1+	2.3−	970801 688	0.3−	0.3+
820922 688	0.5−	0.9−	920228 675	0.3+	0.2+	970801 688	0.3−	0.3+
821013 688	0.6+	0.5−	930724 675	0.5+	0.2+	970830 619	0.2+	0.7−
821013 688	0.1−	0.6−	930724 675	0.1+	0.0	970830 619	0.2+	0.6−
821017 688	1.0+	0.1−	960319 691	1.0−	1.5−	970830 619	0.2+	0.6−
821021 688	0.4−	0.5−	960319 691	0.6−	1.5−	970831 619	0.1+	0.0
821021 688	1.7+	0.1−	960319 691	0.9−	1.7−	970831 619	0.3+	0.7−

(7867)* 1984 SB₁ = 1993 FW₂₅

Discovered 1984 Sept. 20 by A. Mrkos at Kleť.

Id. T. Kobayashi (*MPC* 23970)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

M	340.35548		(2000.0)		P		Q
n	0.29968593	ω	330.19403		+0.78995462		+0.61299169
a	2.2115248	Ω	351.95185		−0.53995139		+0.68415851
e	0.1868631	i	5.98197		−0.29055841		+0.39518137
P	3.29	H	14.6	G	0.15	U	1

Residuals in seconds of arc

840920 046	0.3+	0.4+	941107 675	0.9−	0.9+	970806 046	0.3−	0.2+
840921 046	(4.2+	1.1−)	941107 675	1.1−	0.1+	970806 046	0.3−	0.2+
840927 046	(0.1+	3.0−)	941122 046	0.3−	0.2+	970806 046	0.5−	0.2+
840927 046	2.3+	1.9−	941122 046	0.3−	0.3+	970807 046	0.4−	0.2+
840929 046	1.0−	0.4−	941122 046	0.5−	0.5+	970807 046	0.4−	0.2+

840929	046	0.6+	0.3-	960225	046	0.6+	0.1-	970814	046	0.1+	0.0
840930	046	0.9-	1.1-	960225	046	0.7+	0.0	970814	046	0.0	0.1+
840930	046	(3.3+	1.1-)	960225	046	0.9+	0.3-	970814	046	0.0	0.1+
930321	809	0.8+	0.5+	960226	046	0.1+	0.1+	970821	046	0.0	0.2+
930322	809	1.7+	0.1+	960226	046	0.5+	0.4+	970821	046	0.2+	0.1+
930326	809	0.5+	0.3-	960226	046	0.2+	0.0	970821	046	0.2+	0.2+
930417	413	0.2-	0.1-	960312	691	1.2-	0.1-	970822	046	0.0	0.3+
941008	801	0.1+	0.7+	960312	691	1.2-	0.1-	970822	046	0.1+	0.2+
941008	801	0.8+	0.4+	960312	691	1.4-	0.0	970823	046	0.2+	0.3+
941018	046	0.9+	0.4-	960317	691	0.2+	0.2-	970830	566	0.2-	0.1+
941018	046	0.2+	0.5+	960317	691	0.1+	0.1+	970830	566	0.1-	0.2+
941018	046	0.4-	0.7-	960317	691	0.3+	0.1-	970830	566	0.3-	0.0
941027	046	0.4+	0.6+	960323	691	1.1-	0.2+	970910	046	0.4+	0.3-
941027	046	0.4+	0.1+	960323	691	1.1-	0.4+	970910	046	0.3+	0.7-
941103	801	0.3-	0.4+	960323	691	1.0-	0.1-	970910	046	0.2+	0.5-
941103	801	0.7+	0.4+	970806	046	0.5-	0.1-				

(7868)* 1984 UX₂ = 1931 RD₁

Discovered 1984 Oct. 26 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. E. Bowell (*MPC* 12202)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	348.32797		(2000.0)	P	Q
<i>n</i>	0.22430645	ω	323.19606	+0.92957723	+0.36430079
<i>a</i>	2.6827171	Ω	15.73037	-0.26885985	+0.77454370
<i>e</i>	0.2022485	<i>i</i>	11.98821	-0.25219149	+0.51707542
<i>P</i>	4.39	<i>H</i>	12.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

310912	690	0.8-	1.5-	841120	688	0.8+	1.9-	931014	801	0.1+	1.0+
310916	690	0.0	0.3-	841120	688	0.1+	0.9-	970810	823	0.4-	0.7+
310921	690	2.2+	0.2-	841127	688	0.6+	2.2-	970811	823	1.2-	0.8-
550213	675	0.1-	0.4+	841127	688	1.2+	0.8-	970906	423	0.1-	1.0+
550213	675	1.1+	1.0+	910416	675	0.2-	0.7+	970906	423	0.2+	0.6+
560310	675	0.8-	1.8-	910416	675	1.0-	0.7-	970907	423	0.1+	0.8+
560310	675	(2.0-	3.6-)	931012	801	0.0	1.2+	970907	423	0.3-	0.8+
841026	688	0.2+	0.1-	931012	801	0.1-	1.4+				
841026	688	0.8-	0.9-	931014	801	0.1+	1.1+				

(7869)* 1987 RV₃ = 1980 PQ₄

Discovered 1987 Sept. 2 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. H. Kaneda (*MPC* 18288)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	327.88178		(2000.0)	P	Q
<i>n</i>	0.28873742	ω	105.73200	+0.82025646	+0.57056968
<i>a</i>	2.2670825	Ω	219.50229	-0.54609273	+0.76016044
<i>e</i>	0.1852373	<i>i</i>	3.63850	-0.17018249	+0.31081561
<i>P</i>	3.41	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

800804	675	0.4-	0.3+	941104	675	0.0	0.8+	970708	104	0.4-	0.7+
800805	675	0.1-	0.2+	941104	675	0.6+	1.1-	970708	104	0.3-	0.7+
870902	095	0.5+	1.3-	941106	675	1.3-	0.0	970715	610	0.4-	0.7-
870917	095	(7.5+	5.4-)	941106	675	0.5-	0.8+	970715	610	0.2+	0.1-

870926	095	1.2+	1.9-	941128	675	0.1-	0.1+	970715	610	0.8+	0.4+
930322	809	0.1+	0.1-	941128	675	0.4+	0.1-	970730	610	0.1+	0.3-
930326	809	1.6-	0.1-	941203	675	0.4+	0.4+	970730	610	0.0	0.3-
930327	809	0.5+	1.0-	941203	675	(1.1-	2.3-)	970730	610	0.0	0.3-
930416	413	0.2+	1.5-	970708	104	0.3-	0.7+				

(7870)* 1987 UP₂ = 1987 WD₁ = 1950 RF = 1980 OK

Discovered 1987 Oct. 25 by P. Jensen at Brorfelde.

Id. S. Nakano (*MPC* 15416)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	304.00178		(2000.0)	P	Q
<i>n</i>	0.29360955	ω	155.77957	+0.80725789	-0.58781628
<i>a</i>	2.2419328	Ω	240.32711	+0.53106005	+0.76260164
<i>e</i>	0.2730560	<i>i</i>	3.49574	+0.25750715	+0.27001994
<i>P</i>	3.36	<i>H</i>	13.3	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

500911	711	(1.7-	7.4-)	Y	950131	801	1.1+	1.0+	970802	124	0.6-	0.1+
500912	062	0.2+	0.2+		950218	689	0.4-	0.3+	970802	124	0.9-	0.1-
500912	062	0.5-	0.4+		950305	801	0.2-	0.4-	970802	124	0.6-	0.5-
550324	675	0.4-	0.0		950305	801	1.2+	1.4-	970828	619	0.5+	0.5+
550324	675	0.9+	0.1+		950328	801	0.4-	0.5-	970828	619	0.1+	0.4+
800717	095	(2.1-	3.8+)		950328	801	1.4-	0.0	970828	619	0.0	0.5+
870926	095	0.5+	2.0-		950401	801	0.5-	0.2-	970828	619	0.0	0.4+
871002	095	1.9-	0.5+		950401	801	1.0-	0.1-	970829	619	0.9-	0.2+
871025	054	0.5+	0.0		960519	809	(3.5+	6.1+)	970830	619	0.9-	0.1+
871025	054	0.3-	0.3-		960519	809	(2.4+	6.1+)	970831	138	1.1+	0.3-
871122	897	0.1+	0.1-		960519	809	(2.9+	6.0+)	970901	138	1.2+	1.0-
871122	897	1.1+	1.3+		960522	809	(4.0+	6.3+)	970901	138	1.2+	0.4-
920407	809	(1.9+	2.8+)		960522	809	(3.9+	6.5+)				
950131	801	0.0	0.2+		960522	809	(3.5+	5.6+)				

(7871)* 1990 SW₄ = 1983 UZ = 1988 AP

Discovered 1990 Sept. 22 by E. W. Elst at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 17964)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	306.07126		(2000.0)	P	Q
<i>n</i>	0.27487390	ω	218.81675	+0.98466749	-0.17031118
<i>a</i>	2.3426840	Ω	150.92269	+0.17305191	+0.92643803
<i>e</i>	0.0844861	<i>i</i>	4.45344	+0.02197680	+0.33571816
<i>P</i>	3.59	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

540827	675	0.8-	0.5-		900922	809	0.4-	0.0	920228	675	0.5-	0.5-
540827	675	0.5+	0.7+		900924	095	(2.0-	3.1-)	970812	691	0.8-	0.1-
831030	675	0.4+	0.5-		900924	095	0.3+	0.0	970812	691	0.9-	0.3-
831104	675	1.7+	2.1+		900925	809	1.2-	0.2+	970812	691	0.3-	0.3-
880111	033	0.5-	0.3-		900925	809	1.0-	0.7+	970825	367	0.9+	0.2+
880111	033	0.3-	0.5-		900925	809	1.5-	1.0+	970825	367	1.0+	0.2+
900915	809	0.7+	1.4-		920204	675	0.6-	0.6+	970901	566	0.3+	0.3+
900915	809	0.4+	1.7-		920204	675	1.5+	0.2-	970901	566	0.7+	0.1+
900915	809	0.6-	1.1-		920227	675	0.3+	0.2-	970901	566	0.3+	0.3+
900922	809	0.5+	0.3+		920227	675	0.1-	0.5+				
900922	809	0.2+	0.1+		920228	675	0.4-	0.1+				

(7872)* 1990 UC = 1979 PD = 1995 AS

Discovered 1990 Oct. 18 by T. Urata at the Nihondaira Observatory.

Id. T. Urata (*MPC* 24739), S. Nakano (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	316.49528		(2000.0)	P	Q		
<i>n</i>	0.27531890	ω	190.44326	+0.97469230	-0.22346606		
<i>a</i>	2.3401590	Ω	182.49468	+0.21394219	+0.94042584		
<i>e</i>	0.2143149	<i>i</i>	8.12421	+0.06483558	+0.25624627		
<i>P</i>	3.58	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

790814 046	(9.4- 2.6+)	Y	950105 905	1.4- 0.3-	960510 691	1.0- 0.4+
790814 046	(13.7- 4.0+)	Y	950105 905	0.4+ 1.5-	960515 691	0.3- 0.0
901018 385	1.1+ 0.8+		950105 905	0.5- 2.1-	960515 691	0.1+ 0.0
901018 385	0.2- 1.9+		950107 905	0.2- 0.0	960515 691	0.5- 0.1-
901019 385	1.4- 1.3+		950107 905	(2.8- 0.3+)	960515 385	0.6+ 1.0-
901019 385	0.0 1.4+		950110 887	0.6+ 0.2-	960515 385	1.1+ 1.3+
901020 385	0.2- 2.1+		950110 887	0.1+ 0.4-	960522 385	0.9+ 0.7-
901020 385	1.4- 1.0+		950110 887	0.6+ 0.1-	960522 385	0.1+ 0.1-
901021 385	0.8+ 1.2-		950126 385	0.1- 0.3+	970704 385	0.5- 0.2+
901021 385	0.3+ 0.5-		950126 385	0.2+ 0.1+	970704 385	0.1- 0.5-
901026 385	0.3+ 0.3-		950126 385	0.4+ 0.5+	970719 385	0.9+ 0.3+
901026 385	0.5+ 0.2+		960326 809	(2.9+ 1.9+)	970719 385	1.5+ 0.1-
901026 385	0.1- 1.2-		960326 809	(3.3+ 0.5+)	970719 385	1.2+ 0.7-
901026 385	1.9- 0.2-		960326 809	2.0+ 1.0+	970828 385	0.0 0.4+
901107 385	1.1- 0.3-		960423 385	0.1- 0.2+	970828 385	0.2- 0.1-
901107 385	0.1+ 0.0		960423 385	0.9- 1.6+	970831 138	0.4+ 0.0
901120 413	0.9+ 0.1-		960424 385	0.2- 0.2-	970831 138	0.1+ 1.4-
901122 385	0.9- 0.9+		960424 385	0.2+ 0.6-	970901 138	0.2- 1.8-
901122 385	0.1+ 0.2-		960424 385	0.1+ 0.6+	970904 124	0.3- 0.4+
901123 413	1.4+ 0.6-		960510 691	0.9- 0.3+	970904 124	0.3- 0.0
901125 413	0.6+ 0.2-		960510 691	1.1- 0.6+	970904 124	0.6- 0.6-

**(7873)* 1991 AE₃ = 1991 CV₄ = 1950 QN = 1983 EK₃ = 1988 PF₃
= 1989 TB₉ = 1997 MA**

Discovered 1991 Jan. 15 by F. Börngen at Tautenburg.

Id. S. Nakano (d, *MPC* 22572), T. B. Spahr (*MPC* 30448)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	298.54715		(2000.0)	P	Q		
<i>n</i>	0.23026737	ω	218.74486	+0.99621743	+0.06285464		
<i>a</i>	2.6362167	Ω	137.53184	-0.03913199	+0.94102735		
<i>e</i>	0.1120482	<i>i</i>	5.09842	-0.07758560	+0.33244070		
<i>P</i>	4.28	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

500817 760	(59.6+ 10.2+)	X	910209 675	0.1+ 0.7-	970626 327	0.0 0.2+
830314 095	1.5+ 0.4-		910209 675	0.9+ 0.6-	970626 327	0.4- 0.1+
880804 413	1.3- 0.0		960409 691	1.2- 1.0-	970627 327	0.0 0.2+
880804 413	(2.6- 0.1-)		960409 691	1.6- 1.0-	970627 327	0.2+ 0.2+
891007 809	(0.1+ 3.1-)		960409 691	1.2- 1.0-	970627 327	0.2+ 0.3+
891007 809	0.1- 2.1-		970616 327	0.8- 0.2+	970627 327	0.0 0.3+
891007 809	0.1+ 1.6-		970616 327	0.2+ 0.4-	970724 327	0.1- 0.5-
910115 033	0.8+ 0.7-		970616 327	0.2+ 0.1-	970724 327	0.5+ 0.3+
910115 033	0.7+ 0.7-		970617 327	0.4- 0.2+	970724 327	0.4+ 0.5-
910116 033	0.3+ 0.3-		970617 327	0.4- 0.5+	970801 566	0.9+ 0.6-

910122 675	1.2- 0.5+	970617 327	0.1- 0.1-	970801 566	0.8+ 0.4-
910122 675	0.4- 2.1+	970626 327	0.2- 0.3+	970801 566	0.7+ 0.0

(7874)* 1991 BE = 1953 AS = 1994 XQ₅

Discovered 1991 Jan. 18 by S. Inoda and T. Urata at Karasuyama.

Id. E. Bowell (*MPC* 24740), S. Nakano (*ibid.*), T. Urata (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	141.39324		(2000.0)	P	Q		
<i>n</i>	0.23535412	ω	246.58548	-0.90915145	+0.04704190		
<i>a</i>	2.5980939	Ω	293.85649	+0.19492838	-0.82997835		
<i>e</i>	0.1667072	<i>i</i>	26.90148	-0.36803067	-0.55580842		
<i>P</i>	4.19	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

530110 675	0.2- 0.2-	910208 889	0.6- 1.0+	950126 385	0.3+ 0.5+
530110 675	0.3+ 1.0+	910208 889	1.1- 0.3-	950126 385	0.2+ 0.0
910105 885	(3.5+ 0.7-)	910217 385	0.9+ 0.7-	950226 385	1.0- 1.0+
910105 885	0.2- 0.9-	910217 385	0.9- 0.7+	970704 385	0.6- 0.7+
910115 675	0.9+ 0.4+	910219 889	0.7+ 0.4+	970704 385	0.5+ 0.6-
910115 675	0.5+ 1.1+	910219 889	1.1+ 0.8-	970704 385	0.6+ 0.4-
910115 889	(3.0+ 1.5+)	941206 905	0.0 0.7-	970719 385	0.1+ 0.5-
910115 889	(2.7+ 1.6+)	941206 905	1.4- 0.7-	970719 385	0.6- 0.8-
910117 675	0.4- 0.8+	950105 905	0.5+ 0.5-	970828 385	0.2- 0.5+
910117 675	0.2- 1.3+	950105 905	0.3+ 0.7+	970828 385	0.2- 0.4+
910118 889	0.4+ 1.2-	950107 905	1.6- 0.1+	970830 557	0.1- 0.0
910118 889	1.1- 2.0-	950107 905	0.0 0.8-	970830 557	0.3- 0.0
910120 885	0.2+ 0.5+	950110 887	0.3+ 0.1-	970902 557	0.3+ 0.5+
910120 885	(3.4+ 0.1-)	950110 887	0.2+ 0.1-	970902 557	0.4+ 0.3+
910120 889	0.6- 1.9-	950110 887	0.5+ 0.0		
910120 889	0.9+ 0.7+	950126 385	0.3+ 0.9+		

(7875)* 1991 ES₁ = 1976 SL₈ = 1993 PM₄

Discovered 1991 Mar. 7 by S. Ueda and H. Kaneda at Kushiro.

Id. B. G. Marsden (*MPC* 22593)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Marsden			
<i>M</i>	238.30363		(2000.0)	P	Q		
<i>n</i>	0.22907701	ω	264.63167	+0.33085824	-0.94172164		
<i>a</i>	2.6453413	Ω	165.59133	+0.93329582	+0.31701070		
<i>e</i>	0.1798092	<i>i</i>	14.13590	+0.13961284	+0.11253694		
<i>P</i>	4.30	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

760928 095	0.3+ 2.0-	910319 809	0.2+ 0.2-	930815 010	1.1- 1.4+
890930 675	1.1+ 0.7+	910319 809	0.3+ 0.4+	930815 010	1.6- 1.6+
890930 675	1.4+ 1.2+	910320 809	0.1- 1.5+	930816 010	1.4- 0.5+
910213 675	1.4+ 1.1-	910320 809	0.5+ 1.5+	930816 010	1.1- 1.0+
910213 675	1.3+ 1.4-	910320 809	0.9+ 1.7+	930816 010	1.4- 0.8+
910305 071	1.4- 0.8+	910321 809	1.6- 0.9+	960605 560	0.5- 0.4-
910305 071	0.5- 0.2+	910321 809	1.0- 0.7+	960605 560	0.4+ 0.6-
910307 399	(0.7+ 2.6-)	910321 809	1.1- 0.9+	960605 560	1.0+ 1.2-
910307 399	(2.6- 0.9-)	910323 809	0.3+ 0.0	970610 689	0.0 0.1-
910310 399	1.0+ 0.9-	910323 809	0.2+ 0.1-	970624 689	0.6- 1.0+
910310 399	0.5- 0.4-	910323 809	0.5+ 0.2-	970801 566	0.1+ 0.3-
910312 675	0.9+ 1.0-	910323 809	1.3- 0.7+	970801 566	0.3- 0.5-
910312 675	0.3+ 0.5-	910323 809	1.4- 0.6+	970801 566	0.1+ 0.4-

910313	399	0.1-	0.4+	910323	809	1.6-	0.7+	970903	861	0.8+	0.3-
910313	399	0.2+	1.0-	910324	809	0.6-	0.3-	970903	861	0.0	0.1+
910317	809	0.4+	0.2+	910324	809	0.2-	0.4-	970903	861	1.7+	0.4+
910317	809	0.9+	0.4+	910324	809	0.4+	0.1-	970908	861	0.5+	0.2-
910317	809	1.3+	0.6+	910416	675	0.4+	0.1-	970908	861	0.6+	0.2-
910319	809	0.3-	0.3-	910416	675	0.4-	1.0+	970908	861	0.7+	0.7-

(7876)* 1991 VW₃ = 1977 DA₁₀ = 1978 PC₂ = 1994 TV

Discovered 1991 Nov. 11 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 24106)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>		327.07617		(2000.0)			
				P		Q	
<i>n</i>	0.31087649	ω	101.16860	+0.94233244	+0.33427173		
<i>a</i>	2.1581293	Ω	239.30501	-0.31406007	+0.86617647		
<i>e</i>	0.1911333	<i>i</i>	1.09893	-0.11565396	+0.37148450		
<i>P</i>	3.17	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

770219	381	0.4+	0.2-	911207	399	0.2+	0.3+	941007	114	1.8+	0.5-
770219	381	(3.3+	3.8-)	911209	399	1.0+	0.3-	941008	114	0.4+	1.4-
780808	095	(5.1+	5.0+)	911209	399	0.4-	1.7-	941009	114	0.9-	1.1-
900422	675	2.2-	1.6-	911214	399	(3.1-	0.2+)	941010	114	1.8-	0.3-
911111	399	1.6-	0.3+	911214	399	(5.3-	0.8+)	970802	124	0.0	0.1-
911111	399	1.0+	1.3+	941002	400	0.9+	0.5+	970802	124	0.0	0.1-
911113	399	0.8+	0.2+	941002	400	0.8+	0.1-	970802	124	0.4+	0.3-
911113	399	1.1+	0.5+	941003	400	(0.3+	2.3+)	970803	124	0.5+	0.8+
911201	675	0.1+	0.1-	941003	400	(0.3+	2.4+)	970803	124	0.9+	0.2-
911201	675	0.6+	0.4+	941003	114	2.0-	0.9-	970803	124	1.3+	1.1-
911203	675	0.7+	1.5-	941003	114	1.3+	1.1+	970804	124	0.3+	0.2+
911203	675	0.9-	0.6-	941004	114	0.7-	0.3-	970804	124	0.2+	0.3-
911205	399	(3.3+	0.8-)	941004	114	0.1-	0.7+	970804	124	0.8-	0.6-
911205	399	(4.9+	1.3-)	941005	114	1.4-	0.1+	970822	367	0.5-	1.2+
911207	399	0.3+	1.5+	941006	114	1.0-	1.2-	970822	367	0.4-	1.1+

(7877)* 1992 AH₁ = 1983 AH₆ = 1983 CD₈

Discovered 1992 Jan. 10 by N. Kawasato at Uenohara.

Id. S. Nakano (*MPC* 19687)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>		55.95813		(2000.0)			
				P		Q	
<i>n</i>	0.21861239	ω	159.95999	-0.76304411	-0.64373315		
<i>a</i>	2.7291006	Ω	339.62543	+0.56795600	-0.62490843		
<i>e</i>	0.2447091	<i>i</i>	9.60026	+0.30852825	-0.44169795		
<i>P</i>	4.51	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

830115	095	1.7-	0.4+	920204	376	1.1-	0.3+	951121	118	0.0	0.4+
830210	095	1.1+	1.9-	920204	376	0.3+	1.3+	951218	292	0.4-	1.0-
920110	376	0.3+	1.2-	920204	376	(2.8+	0.3+)	951218	292	0.9+	1.0+
920110	376	1.5+	0.0	951024	118	0.1+	0.3-	970410	376	0.3+	0.3-
920114	376	1.6+	0.2+	951024	118	0.2+	0.5-	970410	376	0.7+	0.6+
920114	376	0.3-	0.6-	951026	118	0.1-	0.5+	970412	376	0.2-	0.8+
920114	376	0.6-	0.3-	951027	118	0.3+	0.2+	970412	376	0.2+	0.5+
920128	376	0.4+	0.8+	951029	292	0.3+	1.2+	970504	376	0.9-	0.5-
920128	376	1.7-	0.7+	951029	292	1.5-	1.2-	970504	376	0.0	0.8-

(7878)* 1992 DZ = 1975 CG = 1975 DE = 1996 CH₂

Discovered 1992 Feb. 27 by N. Kawasato at Uenohara.

Id. T. Kobayashi (*MPC* 26742), S. Nakano (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>		91.45246		(2000.0)			
				P		Q	
<i>n</i>	0.23252839	ω	15.24660	-0.91394571	-0.37499926		
<i>a</i>	2.6190999	Ω	141.55105	+0.34134342	-0.91711344		
<i>e</i>	0.1003743	<i>i</i>	14.45079	+0.21951746	-0.13519801		
<i>P</i>	4.24	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

750212	330	(23.4-	0.4+)	920304	809	0.3-	0.8-	970705	376	0.2-	0.2+
750216	330	(0.7-	2.7-)	920309	809	0.3-	0.3+	970705	376	0.5-	0.0
880318	675	0.3+	0.0	960126	411	0.2+	0.7+	970807	824	0.1+	1.0-
880318	675	0.3-	0.7+	960126	411	0.5+	0.6-	970807	824	0.2+	0.8-
890729	675	0.6-	0.4+	960212	399	0.3-	1.4+	970807	824	0.2-	0.7-
890729	675	0.4+	0.1+	960212	399	1.7+	0.3-	970809	824	0.1+	0.3-
920227	376	0.6+	1.1-	960216	399	0.7-	0.2+	970809	824	0.1-	0.3-
920227	376	0.5-	0.5-	960216	399	1.7-	1.8-	970809	824	0.1+	0.3-
920301	809	0.4+	0.6+	970426	689	(5.6+	0.5+)	970810	824	0.3-	0.7-
920303	376	0.5+	1.2-	970607	376	0.0	1.4+	970810	824	0.0	0.2-
920303	376	0.1+	2.0+	970607	376	0.1-	1.5+	970810	824	0.7+	0.7-

(7879)* 1992 EX₁₇ = 1983 SM = 1990 SY₂₀

Discovered 1992 Mar. 3 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 23862)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		234.54797		(2000.0)			
				P		Q	
<i>n</i>	0.27301794	ω	230.87714	+0.38060201	-0.92389130		
<i>a</i>	2.3532889	Ω	196.88211	+0.88493000	+0.37630825		
<i>e</i>	0.1731405	<i>i</i>	7.83438	+0.26840456	+0.06940431		
<i>P</i>	3.61	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

830928	071	1.2+	2.3+	940906	691	0.9-	0.5-	960419	691	0.9+	0.3-
830928	071	1.5-	2.4-	940906	691	1.1-	0.4-	960419	691	0.7+	0.1+
830928	071	0.1+	1.3+	940906	691	0.9-	0.4-	960419	691	0.3+	0.1+
830928	071	(2.9-	0.9-)	941012	046	1.0+	0.1+	970708	104	0.5-	0.9+
830928	071	(4.2-	3.3-)	941012	046	(2.7+	0.1-)	970708	104	0.7-	0.1-
830929	071	1.3-	1.0-	941013	046	0.3-	0.4+	970708	104	0.4+	0.0
830929	071	1.8+	0.3+	941013	046	0.3-	0.3+	970807	824	0.5+	0.2+
830929	071	1.2+	0.5+	941013	046	0.5-	0.3+	970807	824	0.6+	0.6+
830930	071	1.5-	0.4-	941013	046	0.4-	0.3+	970807	824	0.7+	0.7+
830930	071	0.2+	0.4-	941013	046	0.5-	0.3+	970809	824	1.4-	1.1-
900919	801	0.3-	0.3-	941014	046	0.7+	0.9+	970809	824	0.0	0.5-
900919	801	0.4-	0.0	941014	046	0.6+	0.6+	970809	824	1.8+	0.8-
920303	809	0.4-	0.0	941014	046	1.2+	0.5+	970810	824	0.0	0.8+
920305	809	0.4+	1.0+	960413	691	0.5-	0.5+	970810	824	1.3-	1.6+
920308	809	0.8+	1.2+	960413	691	0.3-	0.6+				
920407	809	0.3-	0.5+	960413	691	0.5-	0.5+				

(7880)* 1992 OM₇ = 1974 SN = 1977 FK₂ = 1979 SV₁₀ = 1995 AL₁

Discovered 1992 July 19 by H. Debehogne and A. Lopez G. at the European Southern Observatory.

1997 SEPT.16

M.P.C. 30639

Id. S. Nakano (*MPC* 24744; unpublished)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	16.09468		(2000.0)		P		Q		
<i>n</i>	0.21194062	ω	3.63533		+0.44389643		+0.89453505		
<i>a</i>	2.7860778	Ω	292.72350		-0.82356621		+0.38415663		
<i>e</i>	0.0452309	<i>i</i>	3.26692		-0.35312131		+0.22854042		
<i>P</i>	4.65	<i>H</i>	12.8		<i>G</i>	0.15	<i>U</i>	1	
Residuals in seconds of arc									
740919 095	(3.0- 2.2+)	920724 809	0.8+ 0.0	950125 411	0.6- 0.1-				
740923 095	(6.3- 11.6+)	920724 809	0.8+ 0.0	960522 566	0.7- 0.3+				
770326 095	0.5+ 1.0-	920724 809	0.9+ 0.1-	960522 566	0.6- 0.3+				
790929 095	(1.3+ 3.0-)	920726 809	0.7- 0.1+	960522 566	0.8- 0.2+				
910414 675	0.2- 0.2+	920726 809	0.4- 0.3+	970807 816	0.4- 0.2+				
910419 675	0.7+ 0.0	920726 809	0.5- 0.4+	970807 816	0.3- 0.3+				
910419 675	0.3+ 1.9+	931013 691	0.9- 0.3+	970810 816	0.5+ 0.6+				
920719 809	1.2- 0.0	931013 691	0.5- 0.2+	970810 816	0.4+ 0.5+				
920719 809	0.5- 0.1-	931121 691	0.8- 0.1+	970810 816	0.4+ 0.6+				
920719 809	0.2- 0.2-	931121 691	0.2- 0.4+	970827 886	0.0 0.4-				
920720 809	(2.7+ 1.4+)	931121 691	1.8- 0.1+	970827 886	0.1+ 0.4+				
920720 809	(2.5+ 1.2+)	950106 411	0.5+ 1.4+	970903 886	(3.0- 0.6-)				
920720 809	(2.6+ 1.3+)	950106 411	0.8+ 0.0	970903 886	0.0 0.0				
920721 809	0.5- 0.3+	950110 411	0.4+ 0.5-	970903 910	1.0+ 0.4-				
920721 809	0.1+ 0.3+	950110 411	0.9+ 0.6-	970903 910	0.9+ 0.4-				
920721 809	0.2+ 0.3+	950125 411	0.3+ 0.4-	970903 910	0.9+ 0.4-				

(7881)* 1992 RC₇ = 1982 SD₃ = 1990 FU₄ = 1991 NZ₇

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

Id. S. Nakano (*MPC* 22594), B. G. Marsden (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

M	319.94633		(2000.0)		P		Q		
n	0.19575616	ω	243.65735		+0.95975700		-0.27852333		
a	2.9375984	Ω	132.49155		+0.27189523		+0.88955510		
e	0.1188675	i	2.79326		+0.07028147		+0.36210008		
P	5.03	H	13.1	G	0.15		U	2	
Residuals in seconds of arc									
820920 095	1.5+	1.5-	920902 809	0.7+	0.7-	970805 327	0.4-	0.6-	
820924 033	0.1+	1.8-	920902 809	0.2+	1.0-	970805 327	0.3-	0.8-	
820924 033	0.4-	1.5-	920903 809	1.0+	0.4-	970805 327	0.4-	0.6-	
820926 095	1.0+	2.2-	920922 809	0.7+	1.9+	970810 327	0.2-	0.4-	
900327 675	1.1-	1.0-	920922 809	0.0	1.8+	970810 327	0.2-	0.6-	
900327 675	0.4-	1.8-	920922 809	0.9-	0.6+	970810 327	0.4-	0.2-	
910708 675	0.3+	0.6-	920923 809	0.4-	1.9+	970902 557	0.2+	0.4+	
910708 675	(2.9-	1.0+)	920923 809	0.9-	1.3+	970902 557	0.2+	0.3+	
910710 675	0.2+	1.6+	920923 809	1.4-	1.0+	970904 557	0.2+	0.3+	
910710 675	(1.9-	3.4+)	940107 675	0.1-	0.2-	970904 557	0.3+	0.3+	
920902 809	0.5+	0.3-	940107 675	0.3+	0.7+	970904 557	0.1+	0.2+	

(7882)* 1993 FL₆ = 1996 EE

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 26902)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	59.72911		(2000.0)		P		Q		
<i>n</i>	0.31498165	ω	152.93860		-0.32737332		+0.94424110		
<i>a</i>	2.1393371	Ω	97.93476		-0.87322000		-0.28811949		
<i>e</i>	0.0517378	<i>i</i>	2.03378		-0.36098966		-0.15936091		
<i>P</i>	3.13	<i>H</i>	14.5		<i>G</i>	0.15	<i>U</i>	1	
Residuals in seconds of arc									
881106 675	0.5+	0.6+	960311 592	0.1+	1.5+	960314 592	0.1-	0.8-	
881106 675	0.3-	1.5-	960311 592	0.1-	1.8+	960314 592	0.3+	0.0	
930317 809	1.1+	1.3-	960311 592	0.2+	1.6+	960315 592	0.3+	0.5-	
930318 809	0.3-	0.3-	960311 592	0.1-	1.5+	970805 327	0.7-	0.0	
930322 372	(3.9-	3.1-)	960311 592	0.5+	1.1+	970805 327	0.8-	0.1+	
930322 372	(3.3-	0.6-)	960312 592	0.2-	1.3+	970805 327	0.9-	0.0	
930323 809	0.6-	0.7-	960312 592	0.3-	1.7+	970822 118	0.1-	0.1+	
930416 413	1.4-	0.2-	960312 592	0.1+	0.7+	970822 118	0.0	0.3-	
940911 675	0.5+	0.1+	960312 691	0.1+	0.1-	970823 118	0.5-	0.0	
940911 675	0.1-	0.4-	960312 691	0.2-	0.1-	970823 118	0.3+	0.8+	
960224 566	1.1+	0.2-	960312 691	0.3-	0.3-	970824 118	0.1+	0.4+	
960224 566	0.6+	0.5-	960313 592	1.4+	0.9-	970824 118	0.6-	0.4+	
960224 566	0.9+	1.0-	960313 592	0.5-	0.3-	970911 557	0.2-	0.8+	
960310 592	0.3-	0.2-	960313 592	0.5+	1.4-	970911 557	0.4+	1.0+	
960310 592	0.6-	0.0	960313 592	0.4-	0.4-	970912 557	0.1+	0.3+	
960311 592	0.1+	1.4+	960313 592	0.2-	0.2-	970912 557	0.2+	0.5+	
960311 592	0.3+	1.2+	960313 592	0.8-	0.5-	970912 557	0.1+	0.4+	

(7883)* 1993 GD₁ = 1976 JA₃ = 1990 HH₂

Discovered 1993 Apr. 15 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 23863)

Epoch 1997 June 1.0 TT = JDT 2450600.5

M	29.20523		(2000.0)		P		Q		
n	0.28937431	ω	194.40873		-0.02669702		+0.99441981		
a	2.2637549	Ω	74.13890		-0.90633304		+0.01899347		
e	0.1785783	i	6.09060		-0.42171993		-0.10377137		
P	3.41	H	14.1		G	0.15	U	1	
Residuals in seconds of arc									
760503 095	0.7-	0.1+	930423 033	0.2+	0.7+	941128 675	0.5+	0.0	
900427 413	(2.8+	0.1-)	941029 691	1.2-	0.3+	941128 675	0.7+	0.3+	
900427 413	0.9+	0.2+	941029 691	1.2-	0.8+	941203 675	0.5-	0.7+	
900430 413	1.5+	0.1-	941029 691	0.9-	0.8+	941203 675	1.7+	0.5+	
900430 413	0.3+	0.3-	941031 675	(3.5-	0.4+)	970813 124	1.0-	0.4+	
930415 675	0.6+	0.2+	941031 675	(3.1-	1.4-)	970813 124	0.2-	0.1-	
930415 675	0.1+	0.2+	941114 104	0.7+	0.7-	970813 124	0.3+	0.1+	
930416 675	0.1+	0.4+	941114 104	0.0	0.7-	970901 367	0.1+	0.5-	
930416 675	0.1+	0.2+	941114 104	0.5-	0.7-	970901 367	0.1-	0.3-	
930420 033	0.3-	0.2+	941120 104	0.5+	0.6+	970902 566	0.6-	0.2+	
930421 033	0.0	0.3+	941120 104	0.7+	0.3+	970902 566	0.5-	0.1+	
930421 033	0.1+	0.0	941120 104	0.5+	0.1+	970902 566	0.3-	0.1+	

(7884)* 1993 HH₇ = 1976 JY₆ = 1994 TM

Discovered 1993 Apr. 24 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (*MPC* 24231)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	309.57113	(2000.0)	P	Q
<i>n</i>	0.28762570	ω 344.81030	+0.92993944	+0.36768089
<i>a</i>	2.2729205	Ω 353.61078	-0.33267787	+0.83566052
<i>e</i>	0.1075401	<i>i</i> 2.49115	-0.15664631	+0.40802237
<i>P</i>	3.43	<i>H</i> 13.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

760502 809	0.6+	0.2+	941011 397	0.3+	0.8-	960318 801	0.1-	0.6-
930424 809	0.4+	0.6-	941029 675	1.4-	0.4-	960321 801	0.1-	0.2-
930424 809	0.2+	0.7-	941029 675	1.6+	0.6+	960321 801	0.3-	0.6-
930425 809	0.8-	0.0	941101 675	(2.7+ 2.6+)		960322 566	0.1+	0.3+
930425 809	0.5-	0.5-	941101 675	(1.9+ 2.6+)		960322 566	0.2+	0.3-
930425 809	0.1-	0.1-	941104 675	0.4-	0.3+	960322 566	0.0	0.1+
930425 809	1.3-	0.4-	941104 675	0.5-	0.1-	970624 689	1.3+	1.4-
930425 809	1.3-	0.2-	941106 675	0.8-	0.2-	970708 689	0.4+	1.2+
930426 809	0.9-	0.2-	941106 675	0.3-	0.8-	970709 689	0.7+	0.4+
941002 400	0.1-	1.5+	960220 566	(2.0- 4.4-)		970829 861	0.3-	0.1-
941002 400	1.5+	0.7-	960220 566	(2.3- 4.3-)		970829 861	0.4-	0.2+
941003 400	1.8-	2.0-	960220 566	(2.1- 4.4-)		970908 861	0.4-	0.2-
941003 400	0.7+	0.0	960315 566	0.5+	0.2-	970908 861	0.1+	0.1+
941007 400	(2.8+ 0.1+)		960315 566	0.4+	0.2-	970908 861	0.7-	0.2-
941007 400	1.2+	0.2-	960315 566	0.4+	0.1+			
941011 397	1.1+	2.0-	960318 801	0.1+	0.8-			

(7885)* 1993 KQ₂

Discovered 1993 May 17 by T. B. Spahr at the University of Arizona's Catalina Station.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	58.47029	(2000.0)	P	Q
<i>n</i>	0.27427897	ω 86.52777	-0.72277188	+0.61970270
<i>a</i>	2.3460704	Ω 131.47855	-0.67418705	-0.72955224
<i>e</i>	0.2507563	<i>i</i> 24.09735	+0.15189680	-0.28934769
<i>P</i>	3.59	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

890109 675	1.8-	0.6-	930517 693	1.0+	0.8+	960202 658	0.9+	0.6+
890109 675	0.2-	0.4-	930517 693	0.9+	1.9+	970712 696	0.1-	0.7-
890113 675	0.1-	0.0	930617 693	0.1-	0.4-	970712 696	0.3-	0.6-
890113 675	1.3+	1.3-	930617 693	0.2+	0.6-	970712 696	0.2-	0.7-
890307 675	0.0	0.0	930618 693	0.8-	0.2+	970813 608	0.0	0.3-
890307 675	0.7+	0.3+	930618 693	1.0-	1.7-	970830 608	0.3+	0.6+
890308 675	0.2+	0.5-	960202 658	0.3+	0.4+	970830 608	0.3+	0.7+
890308 675	0.3+	0.1+	960202 658	1.5-	0.0			

(7886)* 1993 PE

Discovered 1993 Aug. 12 by D. D. Balam at Climenhaga Observatory, Victoria.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	353.69532	(2000.0)	P	Q
<i>n</i>	0.26815845	ω 76.74819	+0.95821646	+0.27775050
<i>a</i>	2.3816342	Ω 267.09377	-0.28172773	+0.87502133
<i>e</i>	0.0995131	<i>i</i> 3.92602	-0.04950460	+0.39647489
<i>P</i>	3.68	<i>H</i> 14.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

510204 675	0.1+	0.3-	930818 010	(2.7+ 2.1+)	941208 691	0.2-	0.3-	
510204 675	0.3+	0.1-	930818 010	(2.6+ 2.6+)	941208 691	0.2-	0.2-	
550324 675	0.9-	0.1+	930819 657	0.5-	0.3+	950122 658	0.5+ 1.2+	
550324 675	0.9+	0.7-	930819 657	0.8-	0.2+	950122 658	0.1+ 0.8+	
880219 675	(3.7- 0.0)		930819 657	0.2-	0.0	950122 658	0.4+ 1.2+	
880219 675	1.6-	1.7-	930819 657	0.8-	0.0	950123 658	0.0 0.8-	
930811 587	0.0	0.1+	930909 657	0.7+	0.1+	950123 658	0.2+ 0.1+	
930811 587	0.0	0.2-	930909 657	0.1-	1.6+	950123 658	0.5+ 0.4+	
930812 657	1.2-	1.1-	930909 657	0.0	0.0	950124 658	0.3- 0.1+	
930812 657	0.8-	0.2-	930916 658	0.2-	0.4+	950124 658	0.3- 0.1-	
930812 657	0.1+	0.4-	930916 658	0.2-	0.4+	950124 658	0.3- 0.1-	
930813 657	0.6-	0.1+	930916 658	0.4-	0.5+	960522 566	0.7+ 0.9-	
930813 657	0.7-	0.1-	930920 658	0.3+	0.1+	960522 566	0.2+ 0.9-	
930813 657	0.6-	0.0	930920 658	0.3+	0.1+	960522 566	0.4+ 1.2-	
930814 010	0.5+	1.3+	930920 658	0.3+	0.0	970729 658	0.6+ 0.2-	
930814 010	0.1-	0.8+	930921 658	0.7-	0.1+	970729 658	1.3+ 0.5-	
930814 010	0.5+	0.1+	930921 658	0.7-	0.1+	970729 658	1.2+ 0.7-	
930815 010	0.8+	0.9-	930921 658	0.7-	0.0	970808 402	0.5+ 0.2-	
930816 587	0.4+	0.6-	931014 801	1.5+	1.3+	970808 402	0.7+ 0.3-	
930816 587	1.4+	1.0-	931014 801	(5.2+ 2.7-)		970808 402	0.8+ 0.5-	
930816 587	0.7-	1.2+	941006 658	0.8-	0.4+	970812 658	0.3+ 0.8-	
930817 657	0.1+	0.7-	941006 658	0.9-	0.1+	970812 658	0.7+ 0.4-	
930817 657	0.3+	0.2-	941006 658	0.4-	0.0	970812 658	0.2-	1.5-
930817 657	0.4-	0.9-	941007 658	0.6-	0.2+	970818 658	0.2-	1.0-
930817 657	0.2+	0.3-	941007 658	0.6-	0.2+	970818 658	0.3+	1.1-
930817 657	0.2+	0.4-	941007 658	0.5-	0.2+	970818 658	0.2+	1.2-
930817 587	1.0-	1.1+	941029 658	0.5+	0.7-	970908 658	0.0	0.5+
930817 587	0.7-	0.7+	941029 658	0.4+	0.5-	970908 658	0.0	0.6+
930817 587	0.9+	0.7-	941029 658	0.2+	0.5-	970908 658	0.5+	0.8+
930818 010	(3.9+ 2.1+)		941208 691	0.2-	0.2-			

(7887)* 1993 SU₂ = 1973 YQ₃ = 1985 VL₅

Discovered 1993 Sept. 18 by C. W. Hergenrother at the University of Arizona's Catalina Station.

Id. G. V. Williams (*MPC* 24898)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	298.45648	(2000.0)	P	Q
<i>n</i>	0.23783532	ω 101.63735	+0.77334344	-0.59635304
<i>a</i>	2.5799927	Ω 295.34693	+0.44812451	+0.75426876
<i>e</i>	0.0989596	<i>i</i> 13.77460	+0.44846890	+0.27466652
<i>P</i>	4.14	<i>H</i> 12.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

731225 095	0.6-	0.1+	950226 693	1.7-	0.3-	970815 608	0.2-	0.0
851111 095	2.4+	2.4+	950401 693	1.1+	0.1+	970815 608	0.1-	0.4-
890930 675	0.4-	0.8-	950401 693	0.8-	2.4+	970823 608	1.1+	0.8+
890930 675	0.6-	0.7-	950526 693	0.1-	0.2-	970823 608	0.6+	0.2+
930918 693	2.0-	1.1-	950526 693	0.2-	0.2-	970825 608	0.4+	0.4+
930919 693	(3.4- 0.1+)		950526 693	0.2-	0.2-	970825 608	0.4+	0.5+
930919 693	2.5-	0.1+	970712 696	0.3+	0.4+	970829 127	0.6+	0.6-
931024 693	1.5+	0.2+	970712 696	0.2+	0.2+	970829 127	0.5+	0.5-
931024 693	0.5+	0.0	970812 127	0.2-	1.2-	970906 127	0.8+	0.3-
950225 693	0.6+	2.1-	970812 127	0.6-	1.1-	970906 127	0.7+	0.4-

950225 693 0.6- 1.8- 970814 608 0.7- 0.0
 950226 693 0.2- 0.3- 970814 608 0.5- 0.1-

(7888)* 1993 UC

Discovered 1993 Oct. 20 by R. H. McNaught at Siding Spring.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	310.38862		(2000.0)	P	Q
<i>n</i>	0.25920821	ω	323.02095	-0.64490384	-0.75689150
<i>a</i>	2.4361473	Ω	166.04195	+0.76305368	-0.64546585
<i>e</i>	0.6636387	<i>i</i>	26.04162	+0.04298980	+0.10241632
<i>P</i>	3.80	<i>H</i>	15.3	<i>G</i>	0.15
				<i>U</i>	0

Residuals in seconds of arc

891028 413	0.1-	1.1+	940405 675	0.0	1.2-	940510 688	0.6+	0.3+
891028 413	(2.8+	3.4+)	940405 675	0.7+	1.7-	940510 688	0.9+	0.1+
930921 675	1.3+	0.3-	940405 540	0.1+	0.4+	940510 688	0.8+	0.1+
931020 413	(1.8-	3.6-)	940405 540	0.0	0.2-	940510 688	0.7+	0.2+
931023 413	0.7+	0.0	940405 540	0.2-	0.4+	940510 688	0.5+	0.4+
931024 474	1.1-	1.2-	940405 540	0.0	0.2-	940510 688	0.5+	0.1+
931024 474	1.8-	0.9-	940406 557	0.1-	0.1-	940510 688	0.4+	0.1+
931024 474	1.8-	0.6-	940406 557	0.2-	0.2-	940510 688	0.7+	0.0
931025 413	1.1+	1.5-	940406 557	0.1-	0.0	940510 688	0.4+	0.0
931025 413	1.4+	0.4-	940406 557	0.0	0.2-	940510 688	0.7+	0.1+
931025 474	1.4-	0.5-	940407 557	0.2-	0.1+	940510 688	0.8+	0.1-
931025 474	0.7-	0.3-	940407 557	0.1+	0.1-	940511 657	0.4+	0.2+
931026 413	0.5+	0.3+	940407 557	0.0	0.0	940511 657	0.4+	0.2+
931026 413	0.3+	0.5+	940407 557	0.1-	0.0	940511 657	0.3+	0.1+
931026 413	0.3+	0.5+	940407 540	0.3-	0.6+	940513 801	0.6-	0.4-
931026 413	0.3+	0.5+	940407 540	0.5-	0.4+	940513 801	0.2-	0.2-
931026 413	0.2-	0.6+	940407 540	0.3-	0.4+	940513 688	0.3+	0.2+
931026 413	0.1-	0.0	940407 540	0.1-	0.1+	940513 688	0.1+	0.1+
931027 413	0.8+	0.3-	940410 540	0.3+	0.5-	940513 688	0.1-	0.9+
931027 413	0.7+	0.5-	940410 540	0.3+	0.2+	940513 688	0.2-	0.5+
931027 413	0.2+	1.4+	940410 540	0.0	0.5-	940513 688	0.2-	0.3+
931027 413	0.2+	1.4+	940410 540	0.1+	0.3-	940513 688	0.0	0.1+
931027 413	0.7+	0.9+	940416 385	0.1+	0.2+	940513 688	0.2-	0.6+
931027 413	0.6+	0.9+	940416 385	0.2+	0.1-	940513 688	0.1-	0.3+
931105 413	0.0	0.9-	940416 385	0.1+	0.2+	940513 688	0.2-	0.0
931109 675	(1.0+	2.5-)	940420 658	0.3-	0.1-	940513 688	0.2-	0.6+
931109 675	(1.4+	2.1-)	940420 658	0.5+	0.1-	940513 688	0.7-	0.1-
931114 413	0.1-	1.3-	940420 658	0.0	0.3-	940513 688	0.6-	0.1+
931120 413	1.2-	0.3+	940420 540	0.4+	0.5+	940513 540	1.2+	0.1-
931120 413	1.3-	0.5+	940420 540	0.2+	0.0	940513 540	0.2+	0.5+
931216 413	1.3-	0.1+	940420 540	0.2+	0.5+	940513 540	1.7+	0.7+
931217 413	0.4-	0.3-	940420 540	0.7+	0.5+	940513 540	0.3+	0.3+
940111 474	(2.1-	0.4-)	940422 557	0.5-	0.2-	940608 688	0.1+	0.3-
940111 474	(2.1-	0.0)	940422 557	0.5-	0.0	940608 688	0.1+	0.0
940112 474	(2.8-	0.2-)	940423 557	0.4-	0.0	940608 688	0.1-	0.1+
940112 474	(3.6-	0.3-)	940423 557	0.4-	0.1-	940608 688	0.1+	0.2+
940116 413	1.6-	0.7-	940423 816	0.6-	0.4-	940608 688	0.4+	0.3-
940121 413	1.7-	0.6+	940423 816	0.3-	0.0	940608 688	0.1+	0.3+
940121 413	1.6-	0.4+	940423 540	0.4+	1.6+	940608 688	0.2+	0.3+
940122 413	(3.1-	0.4-)	940423 540	0.3-	0.5+	940608 688	0.3-	0.5+
940122 413	(3.1-	0.3-)	940423 540	0.8-	1.5+	940609 801	0.3+	0.9-

940123 413	0.6-	0.4-	940423 540	0.3-	1.9+	940609 801	0.4+	0.1-
940123 413	0.7-	0.1-	940423 557	0.8-	0.1+	940609 688	0.1+	0.6-
940215 474	1.0-	0.8+	940424 557	0.3-	0.1+	940609 688	0.4+	0.4-
940215 474	1.3-	0.0	940424 557	0.5-	0.0	940609 688	0.3+	0.2-
940215 474	1.2-	0.2-	940428 540	0.1+	0.5+	940609 688	0.0	0.3+
940220 413	0.1-	0.5+	940428 540	0.4+	0.1-	940609 688	0.3+	0.4-
940220 413	0.0	0.6+	940428 540	0.4+	0.1-	940609 688	0.3+	0.2-
940326 540	0.4+	0.1-	940428 540	0.2+	0.7-	940609 688	0.4+	0.2-
940326 540	0.5+	0.2-	940429 385	0.1-	1.5-	940610 688	0.3+	0.3-
940326 540	0.6+	0.2-	940429 385	0.2-	1.0-	940610 688	0.3+	0.4-
940326 540	0.3+	0.2-	940429 385	0.3-	0.8-	940610 688	0.2+	0.1-
940326 540	0.7+	0.2-	940430 111	1.1-	0.5+	940610 688	0.4+	0.0
940326 540	0.8+	0.1+	940430 111	0.8-	1.6-	940610 688	0.2+	0.5-
940326 540	0.2+	0.0	940430 111	0.1-	1.7-	940610 688	0.4+	0.7-
940326 540	0.9+	0.1+	940430 111	(0.7-	6.5+)	940610 688	1.0+	0.6-
940327 540	0.8+	0.1-	940501 540	0.6+	1.8-	940610 688	0.9+	0.2-
940327 540	0.6+	0.1-	940501 540	0.8+	0.6-	940611 801	0.8+	0.1-
940327 540	0.2+	0.6-	940501 540	0.6+	0.3-	940611 801	0.7+	0.3+
940327 540	0.5+	0.2-	940501 540	0.3+	0.6-	940701 540	1.3-	0.2+
940327 540	0.5+	0.1-	940503 540	0.7+	0.3-	940701 540	0.7-	0.0
940327 540	0.7+	0.1+	940503 540	0.5+	0.2+	940701 540	0.6+	0.9+
940329 970	2.0+	1.2+	940503 540	0.7+	0.1-	940704 658	0.0	0.1+
940329 970	(3.0-	2.1-)	940503 540	0.7+	0.3-	940704 658	0.2-	0.2+
940329 111	0.1+	0.3-	940507 688	0.1+	0.3+	940704 658	0.1+	0.2+
940329 111	0.5+	0.3+	940507 688	0.1-	0.0	940725 413	0.2-	0.3+
940329 111	(1.4+	2.7-)	940507 688	0.3-	0.2-	940725 413	0.5-	0.3+
940329 111	0.6-	0.4+	940507 688	0.0	0.3-	960802 608	1.1+	0.3+
940329 111	0.8+	0.3+	940507 688	0.2-	0.3-	960802 608	0.7+	0.1-
940330 540	0.2+	0.4+	940507 688	0.1-	0.4-	960807 608	0.3+	0.2-
940330 540	0.3+	0.3+	940507 688	0.1-	0.1+	960807 608	0.3+	0.1+
940330 540	0.1-	0.4+	940507 688	0.1-	0.1-	960808 608	0.3-	0.0
940330 540	0.1+	0.1+	940507 688	0.1-	0.2-	960808 608	0.1-	0.0
940330 557	0.0	0.0	940507 688	0.1+	0.0	960824 658	0.4+	0.1+
940330 557	0.2-	0.2-	940507 688	0.2-	0.1-	960824 658	0.4+	0.2-
940330 557	0.1-	0.1-	940507 688	0.2-	0.2-	960824 658	1.0-	0.4+
940331 557	0.2-	0.2-	940507 688	0.0	0.0	970811 046	0.6-	0.6-
940331 557	0.3-	0.0	940507 688	0.1+	0.0	970811 046	0.5-	1.0-
940331 557	0.7-	0.2+	940507 688	0.2-	0.1-	970811 046	0.2-	0.6-
940331 557	0.5-	0.1-	940508 540	0.9+	0.6+	970812 046	0.5-	0.2+
940331 557	0.4-	0.1+	940508 540	0.1+	0.6+	970812 046	0.7-	0.5-
940402 557	0.2-	0.1+	940508 540	0.3+	0.2+	970812 046	0.0	0.1-
940402 557	0.4-	0.2-	940508 540	1.2+	0.9+	970831 360	0.1+	0.1+
940402 557	0.5-	0.3-	940510 801	0.1-	0.3-	970831 360	0.3+	0.1+
940403 557	0.3-	0.2+	940510 801	0.1+	0.2-	970831 360	0.2+	0.1-
940403 557	0.1-	0.2-	940510 688	0.6+	0.1+	970910 360	0.1-	0.3+
940403 557	0.1-	0.1+	940510 688	0.8+	0.4+	970910 360	0.1-	0.4+
940403 540	0.2+	0.1+	940510 688	0.7+	0.4+	970910 360	0.2+	0.5+
940403 540	0.2+	0.3+	940510 688	0.6+	0.1+	970913 046	0.4+	0.3+
940403 540	0.0	0.3+	940510 688	0.6+	0.4+	970913 046	0.0	0.3-
940403 540	0.2-	0.0	940510 688	0.7+	0.3+	970913 046	0.0	0.6+
940403 540	0.3-	0.3+	940510 688	0.6+	0.4+			

(7889)* 1994 LX

Discovered 1994 June 15 by Spacewatch at Kitt Peak.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	220.80590		(2000.0)	P	Q
<i>n</i>	0.69554399	ω	349.06652	-0.21605702	-0.80030327
<i>a</i>	1.2615941	Ω	111.34162	+0.93500101	-0.33458944
<i>e</i>	0.3463592	<i>i</i>	36.90523	+0.28123385	+0.49755862
<i>P</i>	1.42	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

770810	413	0.6+	0.3-	941220	413	0.3+	0.7+	950519	658	1.8-	0.6+
770810	413	0.4-	0.1-	950112	413	(2.5-	0.9-)	950519	658	1.7-	0.7+
800806	413	(2.5-	3.7+)	950112	413	(2.5-	0.8-)	950519	658	(2.6-	1.3+)
800806	413	(4.1-	3.7+)	950221	897	1.0-	0.8-	950520	587	0.2-	0.3-
840624	413	2.3-	1.6-	950221	897	1.8-	0.8-	950520	587	0.5+	0.2-
840624	413	1.1+	0.7+	950221	897	1.1+	0.7+	950521	104	0.0	1.0+
940615	691	2.0-	0.6+	950228	658	0.7-	0.1-	950521	104	0.3-	1.1+
940615	691	1.7-	0.9+	950228	658	0.2-	0.0	950521	104	0.1-	0.6+
940615	691	1.6-	0.8+	950228	658	0.6-	0.5-	950521	587	0.6+	1.1-
940616	691	0.6-	0.1+	950228	587	0.1-	0.2-	950521	587	0.3-	1.0-
940616	691	(3.8-	0.7-)	950228	587	0.3-	0.2-	950522	897	0.6+	0.6+
940616	691	(3.1-	0.7+)	950228	587	0.2-	0.1+	950522	897	0.3+	0.9+
940705	675	(0.3+	2.4-)	950228	587	0.1+	0.3-	950522	557	0.2+	0.2-
940705	675	(0.0	2.2-)	950306	587	0.5+	0.6-	950522	557	0.1-	0.1-
940707	675	(1.0+	6.4-)	950306	587	0.4+	0.7-	950522	557	0.0	0.6-
940707	675	(0.4+	5.4-)	950306	587	0.6+	0.0	950522	557	0.2-	0.9-
940712	360	0.3+	0.8+	950328	816	0.2+	0.8+	950522	557	0.3-	0.8-
940712	360	0.3+	0.7+	950328	816	0.3+	0.9+	950522	557	0.0	0.5-
940713	046	0.0	0.1+	950328	816	0.0	0.7+	950524	557	0.1+	0.1-
940713	046	0.4+	0.5+	950328	816	0.3+	0.7+	950524	557	0.2+	0.2+
940713	046	0.3+	0.7+	950328	816	0.1+	0.7+	950524	557	0.0	0.5+
940713	046	0.4+	0.7+	950328	816	0.4+	0.7+	950525	557	0.2-	0.1-
940715	360	0.7+	0.0	950328	897	0.3+	0.9+	950525	557	0.0	0.4+
940715	360	0.7+	0.0	950328	897	0.0	0.9+	950525	557	0.5+	0.2-
940715	587	0.9+	0.1+	950406	658	0.6-	0.2-	950531	711	0.9+	1.1-
940715	587	0.1+	0.3+	950406	658	0.6-	0.2-	950531	711	0.8+	1.0-
940715	587	1.0+	1.4-	950406	658	0.4-	0.3-	950601	711	0.7+	0.9-
940725	413	0.6+	0.1+	950420	897	0.2-	0.0	950601	711	0.6+	0.9-
940725	413	0.7+	0.1+	950420	897	1.7+	0.5+	950626	587	0.6+	0.2+
940726	413	0.5+	0.1-	950420	897	1.2-	0.0	950626	587	0.2-	0.0
940726	413	0.6+	0.0	950421	658	0.8-	0.2-	950626	587	0.2+	0.4-
940728	323	0.1+	1.9-	950421	658	0.9-	0.1-	950626	587	0.0	0.3-
940728	323	0.7-	0.1-	950421	658	0.8-	0.2-	950719	540	0.4+	0.3-
940729	323	0.1-	0.7-	950421	658	0.8-	0.2-	950719	540	0.2-	0.0
940731	323	0.1-	1.0-	950423	540	0.2+	0.3-	950719	540	0.3+	0.3-
940803	360	0.2+	0.5-	950423	540	0.6-	0.6-	950726	360	0.8-	0.4+
940803	360	0.3+	0.4-	950423	540	0.3+	0.3-	950726	360	0.2-	0.3+
940809	474	0.7-	0.6-	950428	540	0.1-	0.4+	950726	360	0.4-	0.4+
940809	474	1.5-	0.1-	950428	540	0.4-	0.2-	950816	360	0.5+	0.6+
940810	474	0.5-	0.8+	950428	540	0.5-	0.4-	950816	360	0.4+	0.9+
940810	474	1.7-	0.5+	950502	540	0.5+	0.1-	950816	360	0.6+	0.6+
940815	413	0.1+	0.3+	950502	540	0.2+	0.2+	970613	861	0.6-	0.1-
940815	413	0.1+	0.2+	950502	540	0.4+	0.0	970613	861	0.3-	0.4+

940816	413	0.2-	0.2+	950503	557	0.2-	0.1-	970712	861	0.3+	0.3-
940826	413	0.2+	0.0	950503	557	0.3-	0.1-	970712	861	0.7+	0.4-
940826	413	0.3+	0.3-	950503	557	0.2+	0.3-	970712	861	0.4+	0.7-
940917	413	0.2-	0.4+	950503	557	0.3-	0.1+	970712	861	0.4+	0.4-
940917	413	0.2-	0.3+	950504	557	0.3-	0.2+	970802	861	0.2-	0.3+
941111	413	0.1+	1.2-	950515	540	0.1+	0.8+	970802	861	0.4-	0.2+
941111	413	0.1+	1.2-	950515	540	0.7-	0.0	970802	861	0.4-	0.3+
941219	413	0.4+	0.1+	950517	360	0.3-	0.1+	970810	422	0.1-	0.8+
941219	413	0.5+	0.2+	950517	360	0.6-	0.2+	970810	422	0.6-	0.7+
941220	413	0.2+	0.7+	950517	360	0.8-	0.1-	970810	422	0.6-	0.4+

(7890)* 1994 TC₃ = 1978 TB₃ = 1981 QY₃ = 1993 FU₂₁

Discovered 1994 Oct. 2 by K. Endate and K. Watanabe at Kitami.

Id. K. Kinoshita (*MPC* 24397)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	316.34673		(2000.0)	P	Q
<i>n</i>	0.30767255	ω	141.05265	+0.99485445	+0.10088131
<i>a</i>	2.1730858	Ω	213.16101	-0.09670732	+0.91801311
<i>e</i>	0.1910876	<i>i</i>	0.98040	-0.03020475	+0.38350345
<i>P</i>	3.20	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

781004	095	0.7+	0.1-	941010	691	0.9-	0.6+	970807	956	0.7-	0.2+
810830	675	0.7-	0.5+	941010	691	1.1-	0.5+	970807	956	0.2+	0.0
810831	675	0.1-	0.1-	941010	691	1.0-	0.2+	970812	956	0.4-	0.8+
930321	809	0.4-	1.2+	941027	400	1.1+	0.6+	970812	956	0.5-	0.8+
930322	809	0.8+	1.1+	941027	400	0.9-	0.4-	970901	566	0.8-	0.7-
930326	809	0.1+	0.5-	941028	033	0.8+	0.5+	970901	566	0.2-	0.6-
941002	400	1.3+	1.3-	941028	033	0.3+	0.5+	970901	566	0.5-	0.6-
941002	400	0.2+	1.0+	941101	033	0.6+	0.1+	970902	566	0.3-	0.5-
941003	400	1.1-	1.4-	941101	033	0.3+	0.3+	970902	566	0.3-	0.7-
941003	400	0.9-	0.2-	970806	910	1.5+	0.6+	970902	566	0.2-	0.6-
941007	400	0.9-	1.8+	970806	910	1.4+	0.6+				
941007	400	1.1+	1.3-	970806	910	1.5+	0.7+				

(7891)* 1994 VJ₇ = 1972 HC₁ = 1973 TF = 1980 TT₈ = 1987 VU₁

Discovered 1994 Nov. 11 by M. Hirasawa and S. Suzuki at Nyukasa.

Id. G. V. Williams (*MPC* 25430)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	309.77644		(2000.0)	P	Q
<i>n</i>	0.28629782	ω	61.93344	+0.99452326	-0.10080496
<i>a</i>	2.2799432	Ω	303.83966	+0.08037574	+0.90647663
<i>e</i>	0.1464291	<i>i</i>	1.90434	+0.06680735	+0.41004692
<i>P</i>	3.44	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

550523	675	0.9+	0.1+	941202	046	1.5-	0.2+	970809	953	0.3+	0.3-
720419	805	0.9-	1.1+	941203	046	0.2-	0.1+	970809	953	0.2+	0.4-
720419	805	0.0	0.2+	941203	046	0.2-	0.1-	970809	953	0.4+	0.4-
731001	095	(1.3+	4.2-)	941203	046	0.1-	0.0	970809	953	0.4+	0.4-
801013	095	0.2-	1.5+	941226	413	0.5+	1.2-	970809	953	0.2+	0.6-
871115	327	0.6-	0.8+	941226	413	0.2-	1.0-	970809	953	0.0	0.2-
871115	327	0.7-	0.2+	941227	413	(3.8+	1.1-)	970809	953	0.4+	0.1-
941111	408	0.5+	0.2+	941227	413	0.1+	0.2-	970809	953	0.8+	0.5-
941111	408	1.7+	1.6+	960423	566	0.1+	0.1+	970827	886	0.7-	0.3+

941112	408	1.3+	0.0	960423	566	0.5+	0.0	970827	886	0.2+	0.5+
941112	408	(2.5-	0.9-)	960423	566	0.1+	0.2+	970830	566	0.5-	0.5+
941124	905	0.2+	1.8-	970808	953	0.1+	0.3-	970830	566	0.5-	0.5+
941124	905	0.5+	0.6-	970808	953	0.0	0.2-	970830	566	0.7-	0.6+
941126	905	0.4+	0.1+	970808	953	0.1+	0.2-	970903	886	0.3-	0.7+
941126	905	0.0	0.7+	970808	953	0.0	0.2-	970903	886	0.6-	0.1+
941202	046	1.7-	0.2-	970809	953	0.6+	0.3-				

(7892)* 1994 WQ₁₂ = 1982 SH₆ = 1988 UV₁

Discovered 1994 Nov. 27 by M. Hirasawa and S. Suzuki at Nyukasa.

Id. K. Kinoshita (*MPC* 24575)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17189774	ω	204.81784	+0.97513389	-0.22155702		
<i>a</i>	3.2034843	Ω	167.97928	+0.20722519	+0.90334923		
<i>e</i>	0.1775896	<i>i</i>	1.41329	+0.07855965	+0.36725013		
<i>P</i>	5.73	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

820819	675	1.0+	0.6+	941128	675	0.3+	1.1+	970311	809	1.0+	1.0-
820819	675	0.6-	0.8-	941203	408	0.6-	0.4-	970311	809	0.8+	0.3-
820916	095	(3.0-	0.3-)	941204	408	0.1+	1.4+	970311	809	0.8+	0.3-
820920	095	0.0	0.8-	941204	408	0.7+	0.0	970331	704	0.4-	0.2-
881018	046	(4.6-	4.6-)	941204	408	0.9-	0.2-	970331	704	0.2+	0.3+
881018	046	(1.6-	3.6-)	960215	566	0.4-	1.6-	970403	704	0.3-	0.3+
941105	675	1.2-	1.0-	960215	566	0.6-	1.4-	970403	704	0.3-	1.9+
941105	675	0.4-	0.3-	960215	566	0.3-	1.9-	970406	566	0.4+	1.2+
941127	408	0.0	1.8+	970310	809	1.4+	0.9+	970406	566	(2.5-	0.3+)
941127	408	0.3+	1.0+	970310	809	0.2-	1.5+	970406	566	1.5-	0.8+
941128	675	0.6+	0.9+	970310	809	0.1+	0.1+				

(7893)* 1994 XY

Discovered 1994 Dec. 2 by Y. Shimizu and T. Urata at Nachi-Katsuura Observatory.

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28579241	ω	269.86530	+0.99136024	-0.03183415		
<i>a</i>	2.2826304	Ω	91.95787	+0.07957947	+0.91713607		
<i>e</i>	0.1341263	<i>i</i>	7.31475	-0.10426881	+0.39730092		
<i>P</i>	3.45	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

550522	675	0.1-	0.0	941202	905	(2.2+	0.1-)	960413	385	0.3-	0.0
550522	675	0.1+	0.6-	941204	905	0.6+	0.9+	960413	385	2.0-	0.1-
900721	675	0.3-	0.4-	941204	905	0.0	0.2+	960419	118	1.7+	0.8+
900721	675	0.4-	0.5-	941223	385	0.4+	0.5+	960419	118	2.0+	0.8+
900723	675	0.1+	0.2-	941223	385	0.3+	0.3+	960420	118	0.1+	0.4-
900723	675	0.2-	0.8+	941223	385	0.4+	0.4+	960420	118	0.3+	0.3-
941005	033	0.3-	0.9-	950101	385	1.1-	0.0	960421	118	0.8+	1.7-
941005	033	0.3+	0.4-	950101	385	0.6-	0.7-	960424	118	0.2-	0.4+
941006	033	0.7+	1.1-	950129	385	0.7+	0.6-	960424	118	0.1-	0.1+
941028	033	0.9-	0.2-	950129	385	0.2-	0.4-	960424	118	0.2+	0.1+
941028	033	0.0	0.0	960412	385	0.1+	0.2-	970719	385	0.2-	0.1-
941101	033	0.4+	0.3+	960412	385	0.9-	0.4+	970719	385	0.6+	0.5-

941102	033	0.4-	0.1+	960412	385	1.1-	0.1-	970828	385	0.4+	0.5+
941202	905	(2.6+	0.7+)	960413	385	0.6-	0.0	970828	385	0.0	0.4+

(7894)* 1994 XC₁

Discovered 1994 Dec. 6 by T. Kobayashi at Oizumi.

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23886705	ω	123.93439	-0.78784826	+0.56580557		
<i>a</i>	2.5725582	Ω	91.69764	-0.61413308	-0.69212898		
<i>e</i>	0.1269710	<i>i</i>	14.08336	-0.04621334	-0.44813116		
<i>P</i>	4.13	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

910119	675	0.4+	0.6+	950104	010	(2.1+	2.8+)	960509	411	0.0	0.2-
910119	675	0.5-	1.4+	950106	411	0.1-	0.6-	960509	411	0.4+	0.6+
931009	675	0.9-	1.5+	950106	411	0.6+	0.6-	960510	411	0.0	0.9-
941206	411	0.2+	1.3+	950304	801	0.7-	1.0+	960510	411	1.1+	0.7+
941206	411	(0.2-	2.5+)	950327	801	0.6+	0.6-	960515	801	0.0	0.3+
941207	411	0.6-	0.3+	950327	801	0.4+	1.5-	960515	801	0.2-	0.1+
941207	411	0.4-	0.6+	950403	801	0.1+	0.5+	960518	801	0.3+	0.7-
941225	411	0.5-	1.4-	950403	801	0.0	0.4+	960518	801	0.3-	0.8-
941225	411	0.1+	0.5+	960419	118	0.1+	0.2-	960524	118	0.1+	0.6+
941229	411	0.1-	0.5-	960419	118	0.1+	0.3-	960524	118	0.1-	0.8+
941229	411	0.9+	0.1+	960419	118	0.1+	0.4-	960524	118	0.1+	0.7+
950102	010	(0.1-	3.6+)	960420	118	0.5-	0.6+	960608	118	0.0	0.5-
950102	010	(0.4-	3.1+)	960420	118	0.5-	0.6+	960608	118	0.0	0.2-
950103	010	(0.9+	3.4+)	960421	118	0.1+	0.9+				

(7895)* 1995 DK₁ = 1939 FH = 1979 MG₉

Discovered 1995 Feb. 22 by F. Uto at Kashiwara.

Id. S. Nakano (*MPC* 25072)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17426946	ω	35.88262	-0.97304596	-0.16172005		
<i>a</i>	3.1743528	Ω	133.91515	+0.11914143	-0.96292121		
<i>e</i>	0.1345490	<i>i</i>	13.19232	+0.19745098	-0.21593832		
<i>P</i>	5.66	<i>H</i>	10.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

390321	062	1.2-	1.9-	960415	801	0.1-	1.1-	970702	610	0.2+	1.1-
390322	062	0.3+	1.9-	960415	801	1.1+	0.4-	970702	610	0.4-	1.2-
790627	095	0.1-	0.5+	960514	365	0.3+	0.2+	970707	610	0.0	1.0-
950222	365	0.8+	0.7+	960514	365	0.1+	0.7+	970707	610	0.4+	1.4-
950222	365	1.6+	1.2+	960515	801	0.3+	0.7+	970707	610	0.6+	1.8-
950224	365	1.4-	0.2+	960515	801	0.2+	0.9+	970709	610	0.0	1.4-
950224	365	0.5-	0.4+	960516	801	1.8+	0.0	970709	610	0.8-	1.6-
950320	358	0.2-	0.7+	960613	072	0.1+	1.5+	970709	610	1.6-	1.8-
950320	358	0.4+	0.7+	960613	072	0.0	1.7+	970823	751	1.1+	0.9+
950321	358	0.3+	1.5+	960617	610	0.3+	1.7+	970823	751	1.3-	0.4-
950321	358	(2.9+	2.7+)	960617	610	0.0	1.5+	970823	751	0.1+	1.6-
950322	358	(3.7-	1.1+)	960617	610	0.4-	1.2+	970904	751	(1.4+	2.8-)
950322	358	(0.7+	2.5+)	960716	365	0.0	0.6-	970904	751	1.0+	0.9-
950323	358	1.4+	1.1+	960716	365	0.0	0.4+	970904	751	0.3-	1.0-
950323	358	(0.7+	2.7+)	960724	365	0.9-	0.6+	970905	751	0.8+	0.0
950326	365	0.5-	1.4+	960724	365	0.7+	0.3-	970905	751	0.1+	0.5-

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950326 365 0.8- 0.8- 960818 365 0.6- 0.1+ 970905 751 0.6+ 1.5-
 960324 801 1.0+ 1.3- 960818 365 0.6- 0.1+
 960324 801 0.3- 0.2+ 970702 610 0.8+ 1.1-

(7896)* 1995 EC = 1976 YJ₄

Discovered 1995 Mar. 1 by Z. Moravec at Kletř.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	115.77553		(2000.0)	P	Q
<i>n</i>	0.17586159	ω	141.59141	-0.96888862	+0.24607109
<i>a</i>	3.1551648	Ω	52.67424	-0.23452133	-0.87854838
<i>e</i>	0.1259095	<i>i</i>	1.91192	-0.07908593	-0.40939195
<i>P</i>	5.60	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

761218 095	(4.5- 4.6+)	950502 046	0.5- 0.5-	960721 046	0.4+ 0.2+
840405 046	0.4- 0.3+	950502 046	0.0 0.3+	960721 046	0.1+ 0.2-
840405 046	0.8+ 0.2+	950502 046	0.3- 0.2-	970731 046	0.1+ 0.0
890111 046	1.0- 1.6-	950503 046	0.1+ 0.1-	970731 046	0.0 0.1+
890111 046	0.1+ 0.8-	950503 046	0.5- 0.4+	970731 046	0.2- 0.3+
950301 046	1.2+ 1.2-	950503 046	0.6- 0.0	970803 046	0.3+ 0.0
950301 046	2.1+ 1.1-	950527 046	0.1+ 0.1-	970803 046	0.3- 0.3+
950305 046	0.5+ 0.2+	950527 046	0.7+ 0.5+	970803 046	0.4+ 0.1+
950305 046	1.2- 0.8+	950527 046	0.3+ 0.6+	970808 124	0.7- 1.2-
950305 046	1.7- 0.5+	960607 046	0.5+ 0.1-	970808 124	0.5+ 1.1-
950305 046	0.3- 0.1+	960607 046	0.2- 0.0	970809 118	0.3+ 0.1-
950306 046	0.6+ 0.5+	960607 046	0.1- 0.1-	970809 118	0.1+ 0.4-
950306 046	0.1+ 0.2+	960607 046	0.5- 0.1+	970809 118	0.3+ 0.1-
950306 046	0.0 0.1-	960607 046	0.4- 0.7-	970810 118	0.3- 0.2-
950308 046	0.4- 0.1+	960607 046	0.2- 0.6-	970810 118	0.5- 0.1-
950308 046	0.3- 0.1-	960607 046	0.1+ 0.4-	970810 118	0.2- 0.2-
950308 046	0.1- 0.2+	960611 046	0.9- 0.1+	970822 046	0.2+ 0.1+
950310 046	0.1+ 0.1-	960611 046	0.4- 0.2+	970822 046	0.0 0.4+
950310 046	0.0 0.2-	960611 046	0.4- 0.4+	970822 046	0.1- 0.3-
950310 046	0.3+ 0.1-	960612 046	0.1- 0.1+	970823 046	0.3+ 0.0
950324 046	0.8+ 0.1-	960612 046	0.6- 0.0	970823 046	0.2- 0.1+
950324 046	1.0+ 0.2-	960612 046	0.1- 0.2+	970823 046	0.7- 0.2+
950324 046	1.2+ 0.7+	960717 046	0.7+ 0.7-	970910 046	0.6+ 0.0
950404 046	0.8- 0.9-	960717 046	0.7+ 0.3-	970910 046	0.7+ 0.0
950404 046	1.5- 0.7-	960717 046	0.8+ 0.2-	970910 046	0.5+ 0.0
950404 046	1.3- 0.7-	960721 046	0.5+ 0.1+		

(7897)* 1995 EL₁ = 1991 PH₂₁ = 1991 RN₃₁

Discovered 1995 Mar. 12 by L. Šarounová at Ondřejov.

Id. G. V. Williams (*MPC* 25221)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	54.61683		(2000.0)	P	Q
<i>n</i>	0.18337287	ω	117.11352	+0.31083219	+0.95040139
<i>a</i>	3.0684048	Ω	170.97522	-0.89494184	+0.29654533
<i>e</i>	0.2040159	<i>i</i>	4.01375	-0.32009756	+0.09379803
<i>P</i>	5.37	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

910809 675	1.2+ 0.3+	950323 557	0.3+ 0.3+	960703 557	0.2+ 0.5-
910809 675	0.9+ 0.3-	950324 557	0.0 0.1+	960720 557	0.3+ 0.8+
910913 033	0.8- 0.0	950324 557	0.2+ 0.4-	960720 557	0.5+ 0.7+

910913 033	1.3- 0.1+	950405 557	0.1- 0.6+	960720 557	0.3+ 0.3-
950312 557	0.2+ 0.0	950405 557	0.3+ 0.5+	970804 557	0.2- 0.3-
950312 557	0.4- 0.7-	950421 557	0.6+ 0.4+	970804 557	0.1- 0.0
950312 557	0.4- 0.4-	950421 557	0.4+ 0.2-	970804 557	0.0 0.2+
950312 557	1.0- 0.1-	950421 557	0.9+ 0.3-	970805 557	0.2+ 0.1+
950312 557	0.3- 0.5-	960608 557	0.2- 0.4-	970805 557	0.1- 0.3-
950312 557	1.1- 0.6+	960608 557	0.5- 0.0	970903 557	0.4+ 0.0
950312 557	0.6+ 0.1+	960608 557	0.5- 0.2-	970903 557	0.1- 0.1+
950320 557	0.0 0.6+	960616 557	0.2+ 0.4+	970903 557	0.1- 1.0+
950320 557	0.0 0.0	960616 557	0.1+ 0.1+	970912 557	0.0 0.1+
950320 557	0.2- 0.4+	960616 557	0.1+ 0.0	970912 557	0.0 0.4+
950320 557	0.1+ 0.6+	960703 557	0.0 0.1+	970912 557	0.3- 0.1+
950323 557	0.6+ 0.0	960703 557	0.3- 0.1+	970912 557	0.0 0.2+

(7898)* 1995 XR₁ = 1972 YB

Discovered 1995 Dec. 15 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 29628)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	252.29886		(2000.0)	P	Q
<i>n</i>	0.30085371	ω	250.40006	+0.94878724	+0.29105197
<i>a</i>	2.2057983	Ω	92.52662	-0.22357826	+0.89335354
<i>e</i>	0.2185979	<i>i</i>	7.06337	-0.22319392	+0.34235683
<i>P</i>	3.28	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

721229 029	1.9+ 0.7+	951216 411	0.5+ 0.6-	970313 688	0.1+ 0.2+
721229 029	1.9- 0.1-	951216 411	0.2- 0.4-	970313 688	0.0 0.3+
881009 675	0.2- 0.4-	951220 411	0.4- 0.5+	970313 688	0.0 0.2-
881009 675	0.5- 0.3+	951220 411	0.2+ 0.8+	970313 688	0.3- 0.1+
881104 675	0.4- 0.0	951230 411	0.0 0.1+	970523 327	0.5- 0.3+
881104 675	0.8+ 0.7+	951230 411	0.4+ 0.6-	970523 327	0.4+ 0.0
951215 411	0.3+ 0.0	960109 411	0.3+ 0.0	970523 327	0.6+ 0.3+
951215 411	1.1- 0.3+	960109 411	0.1+ 0.6-		

(7899)* 1996 BV₃ = 1964 EO = 1986 KP = 1990 RQ₁₀

Discovered 1996 Jan. 30 by T. Kobayashi at Oizumi.

Id. T. Kobayashi (*MPC* 26753)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	343.55450		(2000.0)	P	Q
<i>n</i>	0.27478688	ω	217.14620	+0.50707829	+0.85505670
<i>a</i>	2.3431786	Ω	83.56154	-0.76226333	+0.50359675
<i>e</i>	0.1408316	<i>i</i>	6.26250	-0.40227630	+0.12356522
<i>P</i>	3.59	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

640311 033	1.4- 0.3+	960130 411	0.7+ 0.6+	970707 423	0.2+ 0.2+
640312 033	1.4+ 1.5-	960130 411	0.5+ 0.4-	970707 423	0.0 0.4+
860529 095	1.1- 2.2-	960131 411	1.0- 0.0	970708 689	0.2+ 0.3+
900914 675	0.3+ 0.3-	960131 411	0.3+ 0.2+	970708 423	0.0 0.5+
900914 675	0.4+ 0.6-	960212 411	1.3+ 0.2-	970708 423	0.2+ 0.0
900915 675	0.1- 0.4-	960212 411	0.3+ 0.1-	970709 689	0.0 0.0
900915 675	0.7- 0.2-	960223 411	0.4+ 0.9+	970827 861	0.2+ 0.4-
930417 675	0.1+ 1.0+	960223 411	0.2+ 0.0	970827 861	0.4+ 0.3-
930417 675	0.0 0.1+	970624 689	2.0- 0.9+	970829 861	0.1+ 0.1-
960114 691	1.1- 0.3-	970628 423	0.5+ 0.1+	970829 861	0.2+ 0.2-

960114 691 1.1- 0.3- 970707 423 0.2+ 0.4+
 960114 691 1.0- 0.2- 970707 423 0.3+ 0.1+

(7900)* 1996 CV₈ = 1990 OZ₅

Discovered 1996 Feb. 14 by U. Munari and M. Tombelli at Cima Ekar.
 Id. G. V. Williams (*MPC* 28861)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	29.02955	(2000.0)	P	Q	
<i>n</i>	0.28861053	ω 230.37131	+0.03587485	+0.99813873	
<i>a</i>	2.2677470	Ω 41.76534	-0.89271454	+0.05418852	
<i>e</i>	0.1383504	<i>i</i> 4.24601	-0.44919232	-0.02797644	
<i>P</i>	3.42	<i>H</i> 13.9	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

900721 675	(0.4+ 2.7-)	960118 098	0.3+ 0.9-	970805 108	0.4+ 1.6-
900721 675	(0.8- 3.1-)	960120 098	0.9- 1.3-	970805 108	0.8+ 0.9-
900723 675	0.4+ 0.7-	960214 098	0.9- 0.9-	970805 108	0.1+ 0.2+
900723 675	0.0 1.4-	960214 098	0.1+ 1.4-	970808 108	(2.2- 0.4-)
930323 675	1.3+ 1.0-	960215 098	0.6+ 0.2+	970808 108	0.5- 0.9+
930323 675	0.3- 0.4+	960215 098	(2.5+ 0.7-)	970808 108	0.2+ 1.3+
930521 675	(2.6+ 0.1-)	960218 691	0.2- 0.4-	970810 124	(2.6- 0.9+)
930521 675	0.1- 1.7+	960218 691	0.3- 0.2-	970810 124	0.8+ 0.6-
930524 675	0.1+ 0.1-	960218 691	0.5- 0.0	970831 104	0.8- 0.3-
930524 675	0.1- 0.6-	960224 098	0.5+ 0.2-	970831 104	0.6- 0.0
941130 691	0.1- 0.3+	960224 098	0.8+ 0.6-	970901 104	(2.6- 1.1+)
941130 691	0.1+ 0.2-	960314 098	0.2+ 1.2+	970901 104	(2.9- 1.4+)
941130 691	0.1+ 0.2+	960314 098	0.6- 1.3+		
960117 098	1.6- 0.1+	970805 108	0.2+ 0.2-		

(7901)* 1996 DP = 1992 FC₁

Discovered 1996 Feb. 19 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 26910)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	53.91895	(2000.0)	P	Q	
<i>n</i>	0.23738288	ω 96.03157	-0.64182344	+0.76666806	
<i>a</i>	2.5832699	Ω 134.02590	-0.71250072	-0.58808177	
<i>e</i>	0.1121452	<i>i</i> 1.34005	-0.28355845	-0.25764300	
<i>P</i>	4.15	<i>H</i> 14.2	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

920323 400	(1.5- 2.3-)	960219 411	0.3- 0.4+	970701 910	0.5+ 0.0
920323 400	1.6+ 0.1+	960221 411	0.4+ 0.8-	970701 910	0.4+ 0.0
920324 400	0.3- 0.4+	960221 411	1.4+ 1.6-	970711 816	0.1+ 0.1-
920324 400	(1.1- 5.2-)	960227 411	1.4- 0.5+	970711 816	0.1- 0.1+
920328 400	0.8+ 1.2-	960227 411	0.3+ 0.1-	970711 816	0.1+ 0.0
920328 400	(2.7+ 0.8+)	960320 566	1.3- 1.4+	970712 816	0.1+ 0.2+
930815 691	1.2- 0.3-	960320 566	(2.3- 0.9+)	970712 816	0.3+ 0.2-
930815 691	1.2- 0.2-	960320 566	1.7- 1.3+	970712 816	0.2+ 0.0
930815 691	1.2- 0.2-	960606 327	0.3+ 1.1+	970712 816	0.3+ 0.0
941128 675	0.0 0.1+	960606 327	0.7+ 0.5+	970809 104	0.3- 0.3+
941128 675	1.5+ 1.0+	960606 327	0.1- 0.2+	970809 104	0.3+ 0.1-
960219 411	0.8- 0.8-	970701 910	0.6+ 0.1+	970809 104	0.4+ 0.1-

(7902)* 1996 HT₁₇ = 1984 YY₄ = 1990 DG₅ = 1992 OC₈

Discovered 1996 Apr. 18 by E. W. Elst at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 27720)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Marsden			
<i>M</i>	221.91066	(2000.0)	P	Q	
<i>n</i>	0.20219219	ω 294.12526	+0.20645760	-0.97807363	
<i>a</i>	2.8749247	Ω 143.92597	+0.91372667	+0.18273177	
<i>e</i>	0.0401002	<i>i</i> 2.66083	+0.34996975	+0.09990533	
<i>P</i>	4.87	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

841228 095	1.3- 0.3-	960519 809	(3.9+ 2.2+)	970712 816	0.3+ 0.4-
900223 033	1.0+ 0.8+	960522 809	(4.2+ 0.4-)	970712 816	0.2+ 0.4-
900223 033	0.8+ 1.0+	960522 809	(4.0+ 0.3+)	970731 292	0.4+ 0.4-
920722 809	1.0+ 2.0+	960522 809	(4.1+ 0.1-)	970731 292	0.0 0.0
920722 809	1.2+ 1.8+	960523 809	(2.8+ 2.3-)	970731 816	0.1- 0.0
920722 809	1.3+ 1.9+	960523 809	(3.4+ 1.5-)	970731 816	0.3- 0.2-
920723 809	1.3- 0.5+	960523 809	(3.0+ 1.9-)	970731 292	0.0 0.9-
920723 809	1.1- 0.8+	970706 816	0.4+ 0.0	970731 816	0.2- 0.1-
920723 809	0.9- 0.6+	970706 816	0.8+ 0.1-	970731 816	0.4- 0.3-
960414 691	0.6- 0.2+	970706 816	0.7+ 0.3-	970801 292	0.8- 1.2-
960414 691	0.5- 0.4+	970706 816	0.7+ 0.3+	970801 292	0.5- 0.7-
960414 691	0.1- 0.3+	970708 816	0.3- 0.1-	970801 292	0.8- 0.9-
960418 809	(4.9+ 3.7+)	970708 816	0.2- 0.2-	970807 816	0.2+ 0.6+
960418 809	(4.8+ 3.3+)	970708 816	0.2- 0.0	970807 816	0.3+ 0.7+
960418 809	(4.7+ 3.2+)	970708 816	0.2- 0.0	970810 816	0.3- 0.2+
960420 809	0.1- 0.2-	970711 816	0.3+ 0.2-	970810 816	0.1- 0.2+
960420 809	0.1- 0.3-	970711 816	0.3+ 0.5-	970810 816	0.1- 0.1-
960420 809	0.4+ 1.3-	970711 816	0.2+ 0.2-	970810 816	0.1- 0.1+
960519 809	(3.6+ 2.7+)	970711 816	0.0 0.2-		
960519 809	(4.0+ 2.5+)	970712 816	0.0 0.2-		

(7903)* 1996 HV₂₄ = 1990 EJ₁ = 1991 LL₄

Discovered 1996 Apr. 20 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 27452)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	232.46597	(2000.0)	P	Q	
<i>n</i>	0.18656610	ω 209.31936	+0.38178418	-0.92050008	
<i>a</i>	3.0332920	Ω 218.40614	+0.87193066	+0.38856368	
<i>e</i>	0.0268572	<i>i</i> 7.69560	+0.30655794	+0.04120520	
<i>P</i>	5.28	<i>H</i> 13.9	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

900224 809	0.6- 0.3-	931121 691	1.2+ 0.4-	970530 691	1.4- 0.2+
900224 809	(2.5- 0.5+)	960420 809	1.8+ 0.6-	970530 691	1.2- 0.2+
900224 809	1.4- 0.3+	960420 809	1.5+ 0.8-	970530 691	1.3- 0.1+
900302 809	0.9+ 0.1-	960420 809	1.9+ 1.0-	970606 691	1.1- 0.0
900302 809	0.6+ 0.3+	960421 809	(2.5+ 0.2-)	970606 691	1.3- 0.0
900302 809	1.0+ 0.7-	960421 809	1.1+ 1.3-	970606 691	1.3- 0.4+
900304 809	0.8- 0.6+	960421 809	0.5+ 0.4-	970807 824	0.6+ 0.4-
900304 809	1.5- 1.3+	960521 691	1.3- 0.3+	970807 824	0.4- 0.2+
900304 809	1.8- 1.5+	960521 691	1.1- 0.6+	970807 824	0.2- 0.2-
910606 809	0.9+ 0.5+	960521 691	1.3- 0.9+	970809 824	0.1+ 0.1-
910606 809	0.5+ 0.2-	960522 809	(1.7+ 3.6+)	970809 824	0.1- 0.3-
910606 809	1.1+ 0.1+	960522 809	(1.0+ 3.8+)	970809 824	0.4- 0.1-
910608 809	0.3- 0.1+	960522 809	(1.5+ 2.9+)	970810 824	0.4+ 0.1+

910608 809 0.4+ 0.8- 960524 809 (0.7+ 2.8+) 970810 824 1.1+ 0.4+
 910608 809 0.4+ 0.3- 960524 809 (0.7+ 2.8+) 970810 824 0.4+ 0.5-
 931121 691 1.4+ 0.5- 960524 809 (0.3+ 3.3+)

(7904)* 1997 JL₄ = 1981 JU₃ = 1982 ST₁ = 1982 SX₄ = 1990 TZ₁₅
= 1994 TN

Discovered 1997 May 1 by the Lincoln Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 30463), S. Nakano (d, *MPC* 10752)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams		Q	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>M</i>	277.45893		
<i>n</i>	0.24606192	ω	66.71451
<i>a</i>	2.5221628	Ω	260.57700
<i>e</i>	0.1331306	<i>i</i>	2.28493
<i>P</i>	4.01	<i>H</i>	13.6

Residuals in seconds of arc

810508 675	0.7-	1.6-	951225 691	0.2+	0.7-	970430 704	0.5-	0.3+
810509 675	(4.7+	2.0-)	960127 691	0.3+	0.5+	970430 704	0.1+	0.1+
820915 010	(9.9+	5.7+)	960127 691	0.0	0.2+	970430 704	0.0	0.1+
820916 010	(8.5-	5.8+)	960127 691	0.4-	0.6+	970430 704	0.2+	0.2-
820918 010	(3.7-	2.0+)	970406 704	0.4-	0.5+	970430 704	0.4-	0.5+
820926 095	0.3+	2.0+	970406 704	0.3+	0.1-	970501 704	0.2+	0.1+
901015 095	1.7-	1.2-	970406 704	0.0	0.7+	970501 704	(2.3+	0.1+)
941002 400	0.1+	0.6+	970406 704	0.4+	1.6-	970501 704	0.2-	0.3-
941002 400	0.5-	0.3+	970408 704	0.4+	0.3+	970501 704	0.6-	0.2+
941003 400	1.4+	0.3-	970408 704	0.6+	1.0+	970501 704	0.4-	0.1-
941003 400	1.2+	0.2-	970430 704	0.1-	0.1+	970505 704	0.1+	0.2-
941007 400	0.8-	0.2+	970430 704	0.1-	0.2+	970505 704	0.2+	0.1+
941007 400	0.3-	0.6-	970430 704	0.2+	0.2+	970505 704	0.1+	0.1+
951225 691	0.0	0.0	970430 704	0.1-	0.1+	970505 704	0.2+	0.0
951225 691	0.0	0.5-	970430 704	0.1+	0.0	970505 704	0.8+	0.4+

(7905)* 1997 OX = 1951 EE₁ = 1952 HH₁ = 1979 FF₄ = 1981 PC
= 1991 LG₅

Discovered 1997 July 24 by A. Nakamura at Kuma.

Id. S. Nakano (*MPC* 30465)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano		Q	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>M</i>	267.20676		
<i>n</i>	0.17966491	ω	292.18777
<i>a</i>	3.1104785	Ω	94.63205
<i>e</i>	0.0932806	<i>i</i>	12.23556
<i>P</i>	5.49	<i>H</i>	12.1

Residuals in seconds of arc

510309 760	0.1-	0.3-	910606 809	0.7-	1.2-	970801 360	0.2-	1.0+
510309 760	0.4+	0.1+	910608 809	0.0	2.1-	970801 360	0.4-	1.1+
520428 760	1.3-	1.4+	910608 809	(0.1-	2.7-)	970803 360	0.1+	0.2+
520428 760	2.1+	1.7+	910608 809	0.5-	2.2-	970803 360	0.0	0.4+
790322 033	0.2-	1.5+	970724 360	0.2-	0.5+	970822 360	0.9+	0.9+
790322 033	1.0+	0.9+	970724 360	0.1-	0.4+	970824 360	0.4+	0.5+
810805 688	(1.0+	2.8-)	970724 360	0.2-	0.2+	970827 360	0.3+	1.1+
810805 688	0.6+	1.0-	970730 360	0.3-	0.3+	970827 360	0.3+	1.1+
910606 809	0.8-	1.4-	970730 360	0.3-	0.1+			
910606 809	0.1-	1.5-	970730 360	0.1-	0.1+			

(7906)* 3081 P-L = 1955 UX₁ = 1992 TT₁

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 22821), G. V. Williams (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams		Q	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>M</i>	327.09026		
<i>n</i>	0.18515803	ω	132.76361
<i>a</i>	3.0486508	Ω	228.46237
<i>e</i>	0.1514997	<i>i</i>	9.98584
<i>P</i>	5.32	<i>H</i>	12.6

Residuals in seconds of arc

551025 675	0.6-	0.6+	600928 675	0.3+	0.6+	970809 127	0.1-	0.5+
551025 675	0.7+	0.6+	600929 675	0.9-	0.7+	970809 127	0.1+	0.5+
600924 675	0.0	0.6+	601022 675	0.7+	0.9-	970812 127	0.5-	0.5+
600925 675	0.4+	0.1+	871123 675	0.7-	0.1-	970812 127	0.5-	0.3+
600925 675	0.3+	0.8+	871126 675	0.8+	0.2-	970829 127	1.2+	0.7-
600926 675	0.5+	0.2+	871126 675	0.3-	0.1-	970829 127	1.4+	0.4-
600927 675	0.7-	0.0	921002 675	0.2+	1.0-	970831 127	0.7-	0.4-
600928 675	1.1-	0.3-	921002 675	0.4+	1.1-	970831 127	0.8-	0.6-

(7907)* 4047 P-L = 1978 NL₆ = 1991 GR₈

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 18444), G. V. Williams (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden		Q	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>M</i>	28.62420		
<i>n</i>	0.21188949	ω	316.33637
<i>a</i>	2.7865260	Ω	339.93303
<i>e</i>	0.0201325	<i>i</i>	2.07703
<i>P</i>	4.65	<i>H</i>	13.8

Residuals in seconds of arc

600924 675	0.1-	0.4+	910408 809	1.2+	0.5+	920726 809	0.3-	0.0
600925 675	0.1+	0.1-	910408 809	1.3+	0.1-	920727 809	0.1-	0.3-
600926 675	1.5+	0.2+	910408 809	0.2+	0.4-	920727 809	0.4+	0.3-
600928 675	0.5+	0.8+	910410 809	0.7+	0.5+	920727 809	0.9+	0.1-
600928 675	(1.4+	2.6+)	910410 809	0.1-	0.3-	970805 557	0.2-	0.2+
601017 675	0.8-	1.1-	910410 809	1.7-	0.2-	970805 557	0.2-	0.0
601022 675	0.6-	0.2+	910415 675	0.8-	0.0	970807 557	0.2-	0.1+
601024 675	0.9-	0.7-	910415 675	0.7-	0.1+	970807 557	0.1+	0.6+
601026 675	0.2+	0.9+	910419 809	(2.4+	0.0)	970906 126	0.1+	0.4+
780710 675	0.6+	1.5-	Y 910419 809	(3.6+	0.3+)	970906 126	0.1-	0.3+
780711 675	(9.6+	1.4-)	Y 910419 809	(3.3+	0.4+)	970906 126	0.2+	0.9+
780713 675	(8.5-	4.1+)	Y 920726 809	1.0-	0.3+			
881007 675	0.3+	2.2-	920726 809	0.5-	0.3+			

(7908)* 4192 T-1 = 1983 TU₂ = 1989 EH₇ = 1990 SW₁₆

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. D. W. E. Green (*MPC* 19326)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	314.39184	(2000.0)	P		Q	
<i>n</i>	0.27355263	ω	277.98756	+0.91067172	+0.40964308	
<i>a</i>	2.3502214	Ω	57.84483	-0.34973016	+0.83343293	
<i>e</i>	0.1269189	<i>i</i>	3.62776	-0.21992235	+0.37092062	
<i>P</i>	3.60	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

511108 675	0.3-	0.2-	710416 675	0.1+	0.1+	941105 691	0.2+	0.2+
511108 675	0.7-	1.6-	831004 688	(3.2+	0.6-)	941105 691	0.4-	0.1+
511227 675	0.3+	0.4+	831004 688	(2.5+	2.8-)	960225 596	0.0	0.4-
511227 675	0.1+	0.1-	890306 033	0.5-	0.1+	960225 596	0.1+	0.1-
540729 675	0.0	0.5-	890306 033	0.6-	0.2-	960225 596	0.4+	0.1-
540729 675	0.3+	0.5-	890329 675	0.6-	1.4+	970610 689	0.3-	0.3+
710324 675	0.7+	1.5-	890329 675	0.0	1.6-	970611 689	0.6+	0.7-
710326 675	0.8-	0.3-	900914 675	(2.1+	2.6-)	970623 689	0.1-	1.9+
710326 675	0.2-	0.2-	900914 675	(2.5+	4.4-)	970831 735	1.0-	0.5+
710327 675	1.4-	0.9-	900917 675	0.8+	0.0	970831 735	0.6-	0.4+
710402 675	1.3-	1.6+	900917 675	1.0+	1.2-	970901 735	0.1+	0.6+
710416 675	(7.7+	0.3-)	900920 675	0.5+	0.9-	970901 735	0.4-	1.5-
710416 675	0.6+	0.7-	900920 675	0.5+	0.8-			
710416 675	2.2+	1.6-	941105 691	0.4-	0.4+			

1942 TB = 1990 KE₃ = 1994 LK₁₀

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	164.03765	(2000.0)	P		Q	
<i>n</i>	0.24268049	ω	221.15011	+0.97296931	-0.21706444	
<i>a</i>	2.5455374	Ω	151.10067	+0.23029749	+0.93734485	
<i>e</i>	0.2749926	<i>i</i>	9.38757	-0.01714046	+0.27252094	
<i>P</i>	4.06	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

421003 062	0.7+	0.8+	940514 304	1.0+	0.4+	940611 691	0.4-	0.1+
421011 062	0.4-	0.6-	940514 304	0.1+	0.4+	940611 691	0.3-	0.0
421105 062	0.3-	0.0	940514 304	0.5+	0.7+	940611 691	0.5-	0.1-
900520 095	1.1-	2.4-	940514 304	0.7+	1.0+			

1964 VL₁ = 1951 YH₁ = 1997 JU₁₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	168.03071	(2000.0)	P		Q	
<i>n</i>	0.22625860	ω	355.81786	+0.51400574	-0.85360340	
<i>a</i>	2.6672639	Ω	63.23154	+0.78972754	+0.43240857	
<i>e</i>	0.2576236	<i>i</i>	5.43802	+0.33485596	+0.29048934	
<i>P</i>	4.36	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

511227 711	0.3+	2.0-	Y 641225 330	0.4-	1.2+	970507 704	0.2+	0.1-
641109 330	0.6+	1.3-	650101 330	1.1-	1.0+	970507 704	0.1+	0.2-
641127 330	0.0	1.3+	970507 704	0.0	0.4+	970507 704	0.2-	0.3+

1971 UR = 1982 UW₄ = 1993 TF₄₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	157.13132	(2000.0)	P		Q	
<i>n</i>	0.17655379	ω	53.78858	-0.18770243	-0.97932770	
<i>a</i>	3.1469126	Ω	47.21299	+0.86498582	-0.20118004	
<i>e</i>	0.1078981	<i>i</i>	5.89698	+0.46536795	-0.02106785	
<i>P</i>	5.58	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

711026 029	1.0-	0.8-	711110 029	0.7+	1.4+	931015 010	0.3-	1.2+
711026 029	0.2+	1.2-	711110 029	0.2-	0.5-	931015 010	0.6+	0.2+
711030 029	0.2-	0.2+	711119 029	0.2-	0.2-	931015 010	0.5-	1.3-
711030 029	0.7+	1.0+	821020 033	0.1+	0.0			

1973 SJ₁ = 1978 JR₃Id. E. Bowell (*MPC* 13164)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	174.33399	(2000.0)	P		Q	
<i>n</i>	0.12512107	ω	8.71480	-0.98279282	+0.18470481	
<i>a</i>	3.9589719	Ω	181.93118	-0.17211913	-0.91880476	
<i>e</i>	0.1231736	<i>i</i>	2.63456	-0.06703187	-0.34882939	
<i>P</i>	7.88	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

730919 675	0.8+	0.1+	730929 675	1.2+	1.0+	780510 675	0.3-	1.1+
730919 675	2.0-	0.1-	730930 675	0.6+	0.9-	911207 691	0.1+	0.2-
730920 675	0.5-	0.4+	730930 675	0.5-	0.2-	911207 691	0.0	0.4+
730924 675	0.8-	0.4+	731004 675	1.3+	0.6-	911207 691	0.0	0.3+
730924 675	0.7-	0.7+	731004 675	1.0-	0.6+	970906 121	0.2-	0.6+
730925 675	(1.3+	2.7-)	731005 675	0.8+	1.7-	970906 121	0.3-	0.2+
730925 675	0.3+	0.0	731005 675	0.7+	0.9-	970906 121	0.1-	0.6+
730929 675	0.3+	0.4+	780509 675	0.6+	0.1+	970907 121	0.1-	0.6+

1974 QF₁ = 1974 SJ₂ = 1981 KT₁ = 1995 DZ₁₃Id. T. Urata (d, *NOC* 995), T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	30.38187	(2000.0)	P		Q	
<i>n</i>	0.26314896	ω	5.73617	+0.92659285	+0.36856708	
<i>a</i>	2.4117648	Ω	332.26575	-0.35110344	+0.77664874	
<i>e</i>	0.2526989	<i>i</i>	9.24017	-0.13472959	+0.51085716	
<i>P</i>	3.75	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

740822 095	0.2+	1.0+	740922 095	0.0	0.5-	950224 098	0.4+	1.0+
740823 095	3.7-	5.0+	741010 095	1.8-	1.0+	950224 098	1.3+	1.7+
740825 095	3.9+	3.0-	810528 808	0.1+	0.9+			
740920 095	0.1-	1.3-	810528 808	0.0	0.2-			

1975 LY = 1975 LL₁ = 1995 BT₁₅Id. G. V. Williams (*MPC* 25060; d, unpublished)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	136.28318	(2000.0)	P		Q	
<i>n</i>	0.23390164	ω	243.79576	-0.96576061	+0.15951979	
<i>a</i>	2.6088386	Ω	304.72082	-0.03227834	-0.85637954	
<i>e</i>	0.0515502	<i>i</i>	14.41363	-0.25741903	-0.49108810	
<i>P</i>	4.21	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>

M.P.C. 30648

Residuals in seconds of arc

750601	413	0.6+	0.1-	750608	808	0.7-	2.0-	950130	033	0.6+	0.8-
750601	413	0.8+	0.6+	750610	808	0.4+	2.1+	950130	033	0.2-	0.5+
750603	413	0.6-	0.0	750610	808	1.9-	0.2+	950202	033	0.5-	0.3+
750603	413	0.2-	0.2-	750613	808	0.2-	0.6-				
750608	808	1.5+	0.5-	750613	808	0.2+	0.5+				

1975 SC₂ = 1997 EG₅₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Spahr			
				P		Q	
<i>M</i>	91.25293		(2000.0)				
<i>n</i>	0.15634115	ω	264.59823	-0.09711666		-0.99476345	
<i>a</i>	3.4126141	Ω	191.12657	+0.96596709		-0.08650180	
<i>e</i>	0.0712247	<i>i</i>	9.49805	+0.23974138		-0.05443455	
<i>P</i>	6.30	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

750930	675	0.3+	0.2+	751016	675	0.3-	0.7-	970306	809	0.6+	0.9+
751001	675	0.1+	0.1-	970305	809	0.4+	0.1-	970306	809	0.1+	0.0
751002	675	0.0	0.2-	970305	809	0.6-	0.2-	970306	809	0.3+	0.2+
751015	675	0.2-	0.7+	970305	809	0.9-	0.8-				

1976 QK₂ = 1980 KK₂ = 1996 BG₁₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Spahr			
				P		Q	
<i>M</i>	334.58569		(2000.0)				
<i>n</i>	0.23253425	ω	220.89118	+0.54320551		+0.83162713	
<i>a</i>	2.6190559	Ω	82.31279	-0.73680464		+0.53808888	
<i>e</i>	0.3092434	<i>i</i>	6.68881	-0.40255025		+0.13731964	
<i>P</i>	4.24	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

760820	808	0.7+	0.2-	760830	808	1.9+	1.4-	800518	808	0.7-	0.5-
760820	808	1.1-	0.5+	760915	808	0.0	1.0-	960121	691	0.2-	0.6-
760823	808	1.0-	0.1-	760915	808	0.0	0.4-	960121	691	0.2-	0.5-
760823	808	0.6+	0.2-	760918	808	0.6-	0.6+	960121	691	0.2-	0.3-
760828	808	0.8-	0.7+	760918	808	0.5+	0.7+				
760828	808	0.0	0.2-	800518	808	0.8+	0.5+				

1976 YF₃ = 1981 WC₅ = 1990 MG₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Spahr			
				P		Q	
<i>M</i>	198.03164		(2000.0)				
<i>n</i>	0.17584173	ω	242.20619	-0.66318495		-0.71570753	
<i>a</i>	3.1554023	Ω	251.10105	+0.74194429		-0.59014388	
<i>e</i>	0.1016215	<i>i</i>	13.38236	+0.09851087		-0.37348753	
<i>P</i>	5.61	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

761216	095	0.6-	0.6+	770113	095	1.9+	0.4-	900624	046	0.3-	0.3-
761220	095	1.4-	0.6+	770120	095	0.6+	1.9-	900624	046	0.2+	1.3+
761221	381	0.7+	0.5+	811124	095	0.7+	0.7-				
761221	381	0.9-	1.3+	811124	095	0.7-	0.8+				

1997 SEPT.16

1977 DR₂ = 1970 EC₃ = 1996 TB₆₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Spahr			
				P		Q	
<i>M</i>	185.13963		(2000.0)				
<i>n</i>	0.27844214	ω	251.98030	-0.54714644		+0.83646675	
<i>a</i>	2.3226267	Ω	344.72983	-0.71675361		-0.48726143	
<i>e</i>	0.0850385	<i>i</i>	6.73541	-0.43231360		-0.25079806	
<i>P</i>	3.54	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

700310	805	0.7+	1.0+	770219	381	0.4-	0.7+	961003	809	0.2-	0.5+
700310	805	0.4+	0.4+	770219	381	0.6-	0.0	961003	809	0.1+	0.4+
700310	805	0.2+	0.9+	770219	381	0.4+	0.1-	961004	809	0.2-	0.7+
770218	381	0.5-	0.4-	770219	381	1.0-	0.3+	961004	809	0.4-	0.8-
770218	381	0.5-	0.2-	770312	381	0.3+	0.8-	961004	809	0.8-	0.5-
770218	381	0.1+	0.2+	770312	381	0.7+	1.6-				
770218	381	0.6+	0.3+	961003	809	1.1+	0.4+				

1977 PP₁ = 1991 RK₃₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Spahr			
				P		Q	
<i>M</i>	98.08870		(2000.0)				
<i>n</i>	0.21616132	ω	164.18297	+0.99800856		-0.05617943	
<i>a</i>	2.7496921	Ω	199.10710	+0.04406333		+0.94629841	
<i>e</i>	0.1028024	<i>i</i>	5.02726	+0.04513688		+0.31837587	
<i>P</i>	4.56	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

770814	095	0.2-	0.9-	910911	402	1.3+	0.6+	911010	691	0.1+	0.1-
770821	095	0.1-	0.1+	910911	402	1.2-	0.3-	911010	691	0.2-	0.1-
770909	095	0.2+	0.8+	911010	691	0.0	0.2-				

1978 TR₂ = 1983 VL₁Id. B. G. Marsden (*MPC* 8391)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Marsden			
				P		Q	
<i>M</i>	329.62817		(2000.0)				
<i>n</i>	0.20461629	ω	76.28475	+0.99540265		-0.09429712	
<i>a</i>	2.8521733	Ω	289.12409	+0.07957361		+0.91171053	
<i>e</i>	0.0841728	<i>i</i>	1.01773	+0.05330676		+0.39986494	
<i>P</i>	4.82	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

730919	675	0.4+	2.1-	731004	675	1.5+	0.5+	831109	046	(2.9-	2.4-)
730919	675	0.1+	2.2-	731005	675	(2.8+	1.7-)	831109	046	1.5-	0.4-
730920	675	0.2+	0.1+	731005	675	2.3+	2.4-	940117	010	0.3-	0.2+
730924	675	0.6-	0.5-	780927	095	0.2-	0.2+	940117	010	1.3+	0.4+
730924	675	1.1-	1.1-	781003	095	0.8+	1.1+	940117	010	0.2-	0.1+
730925	675	1.2-	1.3-	781007	095	1.3+	1.7+	970908	684	0.6-	1.1+
730925	675	1.1-	0.1-	831106	046	1.5-	0.9+	970908	684	0.2-	1.2+
730929	675	0.4+	0.6+	831106	046	0.0	0.4-	970909	684	0.6-	0.9+
730929	675	0.3+	0.2-	831107	046	(3.1+	0.6-)	970909	684	0.5-	0.9+
730930	675	0.1-	0.8+	831107	046	0.5+	1.5-	970909	684	0.3-	0.9+
730930	675	0.2-	1.7+	831108	046	0.7+	0.1-				
731004	675	1.3+	0.3-	831108	046	0.6-	0.3+				

1997 SEPT.16

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1979 MK = 1997 QW

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26995024	ω	170.46933	+0.90160195	+0.43147082		
<i>a</i>	2.3710838	Ω	163.86266	-0.40380725	+0.86503124		
<i>e</i>	0.1328401	<i>i</i>	6.35627	-0.15509228	+0.25603492		
<i>P</i>	3.65	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

790626	805	0.6+	0.0	970416	704	0.1-	0.5-	970828	809	0.0	0.0
790626	805	1.2+	0.7+	970416	704	0.1+	0.6+	970828	809	0.2+	0.0
790628	805	0.5-	0.3+	970828	809	0.1-	0.1-	970828	809	0.1+	0.1+
790628	805	0.2-	0.0	970828	809	0.1-	0.1-	970828	809	0.0	0.2+
790629	805	0.1-	0.2+	970828	809	0.1-	0.1-	970828	809	0.1+	0.0
790629	805	0.4-	0.4-	970828	809	0.1-	0.1-	970828	809	0.1+	0.1-
790702	805	0.7-	0.3+	970828	809	0.1-	0.1-	970828	809	0.1-	0.0
790702	805	2.1-	0.1-	970828	809	0.0	0.1-				
790702	805	2.1+	0.8-	970828	809	0.1+	0.1+				

1979 MV₁ = 1997 NL₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27598923	ω	136.68096	+0.00854108	+0.99633492		
<i>a</i>	2.3363683	Ω	133.61109	-0.94653923	+0.03550346		
<i>e</i>	0.0801397	<i>i</i>	6.75070	-0.32247563	-0.07782181		
<i>P</i>	3.57	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

790623	413	1.8+	0.3+	790724	413	1.3+	0.3-	970709	327	0.3-	0.1-
790624	413	1.0-	0.0	790725	675	1.3-	0.3+	970710	327	0.2+	0.1+
790625	413	0.5+	0.5+	790727	675	1.7+	0.3+	970710	327	0.1+	0.4-
790629	413	1.9-	1.1-	970709	327	0.2-	0.0	970710	327	0.4+	0.0
790724	675	1.2-	0.1+	970709	327	0.0	0.1+	970710	327	0.1-	0.3+

1980 BA = 1997 MV₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25354020	ω	332.77767	+0.13666957	-0.98416510		
<i>a</i>	2.4723209	Ω	109.18801	+0.92923463	+0.08788076		
<i>e</i>	0.1693188	<i>i</i>	6.86401	+0.34328478	+0.15393512		
<i>P</i>	3.89	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

800121	801	(3.3-	1.6+)	800211	801	0.6+	0.9-	970702	704	0.0	0.7+
800122	801	1.0-	1.1+	800310	801	0.2-	0.5-	970702	704	0.1-	0.8+
800123	095	(4.6-	3.6-)	970629	704	0.1+	0.1-	970702	704	0.3-	0.2+
800125	801	0.6-	1.1-	970629	704	0.1-	0.2+	970702	704	0.3-	1.4-
800126	801	1.1+	0.1-	970629	704	0.8+	0.2-				
800209	801	0.1+	1.5+	970629	704	(2.4-	1.1+)				

1981 EJ₈ = 1997 GQ₄₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18748798	ω	233.43502	-0.53882253	-0.84108779		
<i>a</i>	3.0233407	Ω	249.23404	+0.78818065	-0.48349352		
<i>e</i>	0.1682339	<i>i</i>	2.90241	+0.29739123	-0.24249813		
<i>P</i>	5.26	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

810209	413	0.7+	0.3+	810311	413	1.1+	1.0-	970405	566	0.9-	0.7+
810213	413	0.2+	0.4+	810315	413	1.5-	0.0	970405	566	0.1-	0.1+
810301	413	1.2+	0.5+	810315	413	0.3+	0.7-	970405	566	0.5+	0.3-
810301	413	1.7-	0.8+	810412	413	0.5+	1.1-	970411	704	0.2-	0.2+
810307	413	1.1-	0.5+	810430	413	0.3-	0.3-	970411	704	1.0+	0.2+
810311	413	0.2+	0.2+	810502	413	0.2+	0.5-				

1981 EC₁₂ = 1997 RK₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26547647	ω	247.08149	-0.87065375	-0.48340847		
<i>a</i>	2.3976477	Ω	263.90388	+0.47815692	-0.78831945		
<i>e</i>	0.0758787	<i>i</i>	5.25006	+0.11544699	-0.38061621		
<i>P</i>	3.71	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

810209	413	2.0-	0.0	810308	413	1.0+	1.1-	970907	910	0.1+	0.2+
810214	413	1.1+	0.5+	810312	413	1.4-	1.1+	970907	910	0.2+	0.3-
810301	413	1.3+	0.1-	810312	413	0.6+	1.1-	970907	910	0.2-	0.0
810301	413	0.2+	1.1-	810409	413	1.7-	0.8+	970909	910	0.2+	0.2+
810306	413	0.4-	1.4+	810409	413	0.1+	1.1-	970909	910	0.3-	0.2-
810306	413	1.0+	0.2-	810503	413	0.1-	0.9+	970909	910	0.0	0.1-

1981 EC₂₂ = 1997 ER₅₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30952133	ω	349.23952	-0.96060104	-0.27791825		
<i>a</i>	2.1644239	Ω	174.62226	+0.25706052	-0.89206939		
<i>e</i>	0.0304521	<i>i</i>	1.62826	+0.10566709	-0.35633363		
<i>P</i>	3.18	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

810209	413	0.9-	0.7-	810307	413	(7.4+	2.3-)	810502	413	1.4-	1.0-
810209	413	0.8-	0.5-	810311	413	(7.9+	0.1-)	970310	809	0.7+	1.3+
810213	413	0.0	0.5-	810316	413	2.9-	1.4+	970310	809	0.6+	0.3+
810302	413	1.0+	1.9-	810329	413	(7.6+	4.6-)	970310	809	0.4+	0.4+
810302	413	1.6-	2.1+	810408	413	0.5+	0.9+	970311	809	0.4-	0.0
810303	413	1.8+	0.1-	810411	413	1.1-	0.3-	970311	809	0.3-	0.3-
810303	413	0.3+	0.9+	810411	413	2.3+	2.4-	970311	809	0.4-	0.1+
810307	413	1.7+	0.3-	810426	413	(1.3+	5.0-)				

1981 EU₂₄ = 1988 VX₁₃ = 1997 RG₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20942907	ω	63.27470	+0.83903400	-0.54332997		
<i>a</i>	2.8083081	Ω	329.61119	+0.47699323	+0.75979984		
<i>e</i>	0.0948090	<i>i</i>	3.23416	+0.26172393	+0.35706686		
<i>P</i>	4.71	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

810212	413	0.7+	0.3-	810315	413	1.7-	1.0+	881104	327	1.1-	0.2+
810213	413	0.1+	0.4-	810315	413	1.1+	0.8+	881104	327	1.2+	0.4-
810302	413	1.0+	2.2-	810405	413	0.0	1.0+	970909	367	0.0	0.0
810306	413	1.3-	0.1+	810410	413	(4.0-	0.9-)	970909	367	0.4+	0.1-
810306	413	1.0-	0.9+	810501	413	0.6-	0.2-	970910	900	0.4+	0.2-

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810311 413 0.1− 0.0 810502 413 0.3− 0.3− 970910 900 0.5− 0.3−
 810311 413 1.4+ 1.0− 810503 413 0.2+ 0.5−

1981 TH₃ = 1997 PO₅

Id. T. Urata

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	326.25249		(2000.0)	P	Q
<i>n</i>	0.30324441	ω	163.59382	+0.90715384	+0.42064183
<i>a</i>	2.1941898	Ω	171.50389	−0.39429683	+0.85925221
<i>e</i>	0.2355274	<i>i</i>	4.46624	−0.14697595	+0.29111180
<i>P</i>	3.25	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

811007 095	0.3+	1.0+	970811 905	0.3+	0.0	970823 385	0.0	0.2−
811022 095	2.1−	0.5−	970822 905	0.3−	0.2−	970823 385	0.6−	0.0
811024 095	1.8+	0.4−	970822 905	0.3−	0.1+			
970811 905	0.3−	0.2+	970822 905	1.1+	0.1+			

1981 WC = 1992 YG = 1996 MCId. G. V. Williams (*MPC* 27442, unpublished)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	340.17774		(2000.0)	P	Q
<i>n</i>	0.18242411	ω	306.51395	+0.96939078	−0.19439377
<i>a</i>	3.0790346	Ω	65.12950	+0.24228130	+0.85631856
<i>e</i>	0.3316038	<i>i</i>	9.51499	−0.03976553	+0.47846587
<i>P</i>	5.40	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

811024 095	(3.2+ 4.3−)	921218 885	0.5− 0.9−	960622 735	0.4− 0.4−
811124 688	0.9+ 1.3−	960617 735	0.0 0.0	960622 735	0.1− 0.2−
811124 688	0.2+ 0.9−	960617 735	1.0+ 0.4−	960714 735	0.7+ 1.6−
811128 879	(3.4+ 1.6+)	960617 735	1.4+ 0.2−	960714 735	0.0 0.2+
811128 879	1.0+ 0.2−	960618 735	1.6− 0.7−	960715 735	0.5− 0.9−
811129 879	(2.3− 0.5+)	960618 735	1.7− 1.4−	960715 735	0.6− 0.7−
811129 879	1.1− 1.2−	960620 735	0.1− 0.4−	960715 735	0.9− 1.0−
811202 688	0.5+ 2.0−	960620 735	0.3+ 0.4−	970704 735	1.0− 0.1−
811202 688	0.5+ 2.0−	960621 770	0.5− 0.5−	970704 735	0.8− 0.1−
811220 688	(0.9+ 2.7−)	960621 770	1.1− 1.0−	970704 735	1.1− 0.5−
811220 688	2.2+ 1.0−	960621 770	0.1+ 1.3−	970831 735	0.4+ 1.2+
921218 885	0.4+ 0.2+	960622 735	0.0 0.1−	970831 735	0.3+ 1.3+

1982 HO₁ = 1987 YO₅ = 1993 VN₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	186.86388		(2000.0)	P	Q
<i>n</i>	0.29997714	ω	192.58961	−0.26959605	+0.95734829
<i>a</i>	2.2100933	Ω	61.84987	−0.87297622	−0.19741368
<i>e</i>	0.1755194	<i>i</i>	6.76959	−0.40648553	−0.21097889
<i>P</i>	3.29	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

820418 688	0.7+ 1.5+	820520 688	1.1+ 0.0	871224 010	0.0 1.0+
820418 688	0.6+ 0.5−	820520 688	1.6− 1.1−	931112 033	0.2− 0.2−
820428 688	0.8− 0.4+	871224 010	0.8− 0.8−	931112 033	0.4+ 0.3−
820428 688	0.1− 0.7−	871224 010	0.8+ 0.4−		

1997 SEPT.16

1982 TK₁ = 1930 VF = 1951 YX₂ = 1997 QC₄

Id. T. Urata

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	267.27261		(2000.0)	P	Q
<i>n</i>	0.18833831	ω	175.00752	+0.50951637	−0.84672462
<i>a</i>	3.0142338	Ω	244.28486	+0.78345711	+0.53010156
<i>e</i>	0.0869430	<i>i</i>	9.78601	+0.35579211	+0.04527422
<i>P</i>	5.23	<i>H</i>	12.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

301115 024	0.2− 0.4−	821024 095	1.6− 1.4−	970903 385	0.3+ 1.0+
511222 711	0.6+ 4.5+ Y	821108 095	(1.5− 6.1−)	970903 385	0.4+ 1.1+
821014 095	1.8− 1.0−	821112 095	2.0+ 0.2+	970903 385	0.5+ 1.0+
821020 095	1.3+ 1.7−	970830 905	1.5− 0.3+		
821022 095	0.7+ 0.6−	970830 905	0.7− 0.2−		

1984 RA = 1986 JT₁ = 1992 SZ₂₆

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	216.85919		(2000.0)	P	Q
<i>n</i>	0.36868670	ω	272.87539	+0.51616420	−0.82251871
<i>a</i>	1.9261838	Ω	142.71105	+0.85447847	+0.51362538
<i>e</i>	0.1020942	<i>i</i>	23.21661	−0.05866060	+0.24423748
<i>P</i>	2.67	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

840901 675	1.7− 1.1−	840904 675	0.7+ 0.8−	860510 675	1.1− 0.5−
840901 675	1.0+ 3.1+	840904 675	2.3+ 1.8+	860510 675	1.1+ 0.5+
840903 675	1.2− 2.4−	840920 675	1.2− 2.5−	920927 808	0.5+ 1.1+
840903 675	0.3+ 0.3−	840920 675	0.2− 1.5+	920927 808	0.4− 0.4−

1985 PB₂ = 1983 CW₄ = 1989 NT₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	281.23966		(2000.0)	P	Q
<i>n</i>	0.23596596	ω	213.35886	+0.99048527	+0.00349630
<i>a</i>	2.5936009	Ω	145.62635	+0.02449798	+0.97923092
<i>e</i>	0.2007070	<i>i</i>	14.10339	−0.13542075	+0.20271797
<i>P</i>	4.18	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

830214 381	0.1+ 0.5+	850819 095	1.0− 0.5−	850920 095	0.1− 1.2−
850813 095	(1.9+ 8.7−)	850824 095	1.0− 0.5+	890707 675	0.0 0.3+
850815 095	(0.7− 5.6−)	850911 095	1.1+ 1.3+	890707 675	0.0 0.4+
850817 095	0.3+ 1.9−	850919 095	0.6+ 1.7+		

1985 RJ = 1997 EM₅₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	287.45503		(2000.0)	P	Q
<i>n</i>	0.22875559	ω	120.16704	+0.54329310	+0.83948010
<i>a</i>	2.6478187	Ω	182.80555	−0.82427716	+0.53104861
<i>e</i>	0.2811222	<i>i</i>	12.12901	−0.15937302	+0.11515442
<i>P</i>	4.31	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

850815 688	2.6+ 1.6+	850918 688	0.4+ 1.2−	970305 809	0.7− 1.3−
850815 688	2.7− 1.3−	850918 688	0.4+ 0.7−	970306 809	1.5+ 0.6+
850914 688	1.0+ 1.0−	850920 095	0.5+ 2.5+	970306 809	0.6+ 0.8+

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850914 688 (0.5− 6.2−) 970305 809 0.6− 0.1+ 970306 809 0.0 0.5+
 850915 095 2.3− 0.2+ 970305 809 0.8− 0.8−

1986 PN₄ = 1981 UV₁₂

Id. S. Nakano (MOC 14786)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	6.50723	(2000.0)	P	Q	
<i>n</i>	0.18313100	ω 13.31660	+0.80466110	+0.55835518	
<i>a</i>	3.0711059	Ω 310.87558	−0.56627367	+0.61949858	
<i>e</i>	0.1952182	<i>i</i> 15.48612	−0.17847871	+0.55177986	
<i>P</i>	5.38	<i>H</i> 11.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

811023 095 1.0+ 2.2+ 860829 095 2.3+ 0.5− 970831 124 0.1− 0.1−
 811028 095 1.3− 1.5− 860906 095 (4.3+ 0.7+) 970831 124 0.1+ 0.1+
 860808 071 1.2− 1.0− 970810 124 0.2+ 0.2+ 970831 627 0.2− 0.8−
 860808 071 0.9− 0.3+ 970810 124 1.0+ 0.7+ 970831 627 0.2− 0.8−
 860809 071 0.2− 0.4− 970810 124 0.3+ 1.2+ 970831 627 0.4− 0.8−
 860812 095 0.2− 1.6+ 970831 124 0.1− 0.3−

1986 QZ = 1992 JZ₃ = 1995 GY₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Spahr			
<i>M</i>	94.50857	(2000.0)	P	Q	
<i>n</i>	0.30113616	ω 230.36785	+0.98161965	+0.18097476	
<i>a</i>	2.2044188	Ω 119.12742	−0.14685210	+0.91901728	
<i>e</i>	0.1894766	<i>i</i> 3.97723	−0.12189062	+0.35022190	
<i>P</i>	3.27	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

860808 095 1.3+ 3.0− 860903 809 0.2+ 0.8+ 860909 809 0.1− 0.2+
 860826 809 0.6− 0.4− 860903 809 0.6+ 0.6+ 860909 809 0.1+ 0.1+
 860826 809 1.1− 0.4− 860903 809 0.8+ 0.4+ 860911 809 0.7− 0.2−
 860826 809 0.7− 0.3− 860904 809 0.4+ 0.5+ 860911 809 0.3− 0.3−
 860827 809 0.7− 0.1+ 860904 809 0.6+ 0.5+ 860911 809 0.5− 0.5−
 860827 809 0.3− 0.1− 860904 809 0.8+ 0.5+ 860914 809 1.4− 0.1−
 860827 809 0.1− 0.3+ 860905 809 0.5+ 0.6+ 860914 809 1.5− 0.0
 860829 809 0.6+ 0.3+ 860905 809 0.6+ 0.1+ 860914 809 1.5− 0.2−
 860829 809 0.6+ 0.3+ 860905 809 0.8+ 0.2− 920502 399 0.4− 0.5+
 860829 809 0.2+ 0.3+ 860906 809 0.6− 0.1+ 920502 399 0.3− 0.4−
 860901 809 0.5+ 0.3− 860906 809 0.3− 0.2+ 950406 691 0.3− 0.5+
 860901 809 0.7+ 0.4− 860906 809 0.1− 0.0 950406 691 0.3− 0.6+
 860901 809 1.1+ 0.3− 860907 809 0.8− 0.5+ 950406 691 0.3− 0.6+
 860902 809 0.5+ 0.1− 860907 809 0.7− 0.6+ 950422 691 0.7+ 0.2−
 860902 809 0.9+ 0.1− 860907 809 0.6− 0.3+ 950422 691 0.7+ 0.2+
 860902 809 1.0+ 0.1− 860909 809 0.3− 0.2+ 950422 691 0.9+ 0.2−

1986 QZ₁ = 1989 CZ₇ = 1997 NN₁₁

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Spahr			
<i>M</i>	299.66439	(2000.0)	P	Q	
<i>n</i>	0.18689557	ω 261.66363	+0.62738892	−0.77279059	
<i>a</i>	3.0297262	Ω 148.82463	+0.76725272	+0.59244257	
<i>e</i>	0.0617611	<i>i</i> 10.66497	+0.13306544	+0.22761040	
<i>P</i>	5.27	<i>H</i> 12.5	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

860828 809 0.4− 0.1− 860908 809 0.1+ 0.1− 970702 704 0.9+ 0.9+
 860828 809 0.1− 0.1− 860908 809 0.1+ 0.1− 970702 704 1.4− 1.4+
 860828 809 0.4+ 0.3− 860908 809 0.3+ 0.0 970702 704 1.1− 0.1−
 860830 809 0.2− 0.5+ 860910 809 0.1+ 0.1+ 970702 704 1.3+ 0.3−
 860830 809 0.2− 0.5+ 860910 809 0.1+ 0.1+ 970702 704 1.0− 1.0+
 860830 809 0.3− 0.5+ 860910 809 0.2− 0.1+ 970702 704 1.0+ 0.5−
 860907 809 0.1+ 0.3+ 890207 888 0.9+ 1.1+ 970702 704 1.3+ 0.1−
 860907 809 0.0 0.4+ 890207 888 0.5− 0.9+
 860907 809 0.2− 0.0 970702 704 1.0− 2.1−

1986 QY₃ = 1997 MJ₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	315.87170	(2000.0)	P	Q	
<i>n</i>	0.26262962	ω 210.81029	+0.87580213	+0.47955261	
<i>a</i>	2.4149432	Ω 120.43582	−0.42889129	+0.82524759	
<i>e</i>	0.1861870	<i>i</i> 3.64220	−0.22141112	+0.29832150	
<i>P</i>	3.75	<i>H</i> 15.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

860831 809 1.0+ 0.1+ 860904 809 1.0− 0.8+ 860911 809 0.7+ 0.6−
 860831 809 1.2+ 0.0 860904 809 1.1− 0.7+ 860911 809 0.9+ 0.7−
 860831 809 1.6+ 0.0 860904 809 0.8− 0.7+ 860911 809 0.9+ 0.8−
 860901 809 0.1+ 0.1+ 860904 809 0.6− 0.4− 970628 704 0.3− 0.3−
 860901 809 0.1+ 0.1+ 860904 809 0.6− 0.4− 970628 704 1.5+ 0.8+
 860901 809 0.0 0.1+ 860904 809 0.6− 0.5− 970628 704 0.1+ 0.7+
 860901 809 0.2− 0.0 860906 809 0.6− 0.0 970629 704 0.3− 0.3+
 860901 809 0.1− 0.0 860906 809 0.6− 0.1+ 970629 704 0.6− 0.1−
 860901 809 0.4+ 0.0 860906 809 0.1− 0.2− 970629 704 0.6− 0.3+
 860902 809 0.2+ 0.1+ 860907 809 0.1− 0.4+ 970629 704 0.1+ 0.1−
 860902 809 0.2+ 0.0 860907 809 0.2− 0.0 970702 704 0.0 0.6−
 860902 809 0.2+ 0.1− 860907 809 0.3− 0.0 970702 704 0.2+ 0.2−
 860903 809 0.4− 0.1+ 860909 809 0.2+ 0.1+ 970702 704 0.1− 0.5−
 860903 809 0.5− 0.2+ 860909 809 0.3+ 0.2+ 970702 704 0.2− 0.5−
 860903 809 0.5− 0.1+ 860909 809 0.2+ 0.1−

1987 SQ₁₇ = 1943 UDId. T. Kobayashi (*MPC* 16026)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	319.97201	(2000.0)	P	Q	
<i>n</i>	0.29050082	ω 0.79222	+0.97050831	+0.23987268	
<i>a</i>	2.2578988	Ω 345.26193	−0.22169031	+0.84900940	
<i>e</i>	0.2048852	<i>i</i> 5.40728	−0.09469440	+0.47079097	
<i>P</i>	3.39	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

431030 024 (6.9− 0.2+) 871023 095 (2.9− 0.9+) 970901 566 0.2− 0.3+
 431103 024 0.3− 0.6+ 960224 566 0.6+ 0.5+ 970901 566 0.0 0.1+
 870917 095 1.4− 0.4+ 960224 566 0.2− 0.0 970901 566 0.0 0.2+
 870923 095 1.7+ 1.0− 960224 566 0.2− 0.1+

M.P.C. 30652

1997 SEPT.16

1988 CH₅ = 1997 PK₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	185.79657		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25942364	<i>ω</i>	211.61619	-0.53297892	-0.84076881
<i>a</i>	2.4347985	<i>Ω</i>	270.75176	+0.79478871	-0.45891960
<i>e</i>	0.0863350	<i>i</i>	5.45672	+0.29024881	-0.28722920
<i>P</i>	3.80	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

880213	809	1.8+	0.5+	970813	046	0.4+	0.5+	970824	046	0.1-	0.5-
880215	809	0.0	1.8-	970813	046	0.7+	0.1+	970824	046	0.1-	0.2+
880216	809	0.7+	0.7-	970815	046	0.4-	0.0	970825	046	0.5-	0.0
880216	809	0.1+	0.3-	970815	046	1.2-	0.4-	970825	046	0.8-	0.1+
880216	809	0.2+	0.2-	970815	046	0.1-	0.9-	970825	046	0.5-	0.4-
880221	809	0.5-	0.2+	970821	046	0.3+	0.0	970826	046	0.4+	0.0
880221	809	0.2+	0.3+	970821	046	0.6-	0.1-	970826	046	0.3-	0.1-
880221	809	0.4+	0.8+	970821	046	0.2-	0.1+	970826	046	0.1+	0.1-
880223	809	1.4-	0.4+	970821	046	0.3+	0.3+	970830	046	0.2-	0.3-
880223	809	0.6-	0.5+	970822	046	0.5-	0.7+	970830	046	0.2+	0.1+
880223	809	1.0-	0.0	970822	046	0.4-	0.0	970830	046	0.1+	0.1+
970813	046	0.6+	0.4+	970822	046	0.2-	0.2+	970910	046	0.6+	0.2+
970813	046	0.6+	0.1+	970824	046	0.5-	0.0	970910	046	0.7+	0.1+
970813	046	1.6+	0.2-	970824	046	0.3-	0.3-	970910	046	1.2+	0.4-
970813	046	0.4+	0.0	970824	046	0.8-	0.1+				

1988 VL₂ = 1986 GO₂ = 1995 XU₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	59.03322		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26129433	<i>ω</i>	222.61797	-0.14599292	-0.97770916
<i>a</i>	2.4231635	<i>Ω</i>	236.31824	+0.94947562	-0.09564276
<i>e</i>	0.0963805	<i>i</i>	10.44794	+0.27781670	-0.18691514
<i>P</i>	3.77	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

860404	095	0.9+	2.4+	881114	399	1.6-	0.5-	881202	399	0.3-	0.9+
881109	896	1.6-	0.2+	881117	399	0.7+	0.8+	881202	399	1.3-	1.3+
881110	875	0.2-	1.6-	881117	399	1.0+	0.3-	881202	399	0.9+	1.2+
881110	875	1.1+	0.6-	881117	399	0.2+	0.5-	951203	327	0.2-	0.5+
881110	875	0.0	1.2-	881117	399	0.7+	0.4-	951203	327	0.4-	0.7+
881112	875	(3.5+	1.4+)	881130	875	0.2+	0.4-	951203	327	0.3-	0.7+
881112	875	0.1-	0.6+	881130	875	1.8+	1.2-	951207	327	0.1-	0.9+
881113	896	(3.2+	2.0+)	881201	875	(3.6+	4.1-)	951207	327	0.1+	0.5+
881113	896	2.0+	1.5+	881201	875	(3.1+	4.7-)	951207	327	0.3-	0.7+
881114	399	0.9-	0.7+	881201	054	0.7+	0.3-				
881114	399	1.6-	0.6+	881202	399	1.7-	1.0-				

1989 CT₂ = 1983 RY₅ = 1994 TK₁₇ = 1997 HG₁₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	301.25729		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26970113	<i>ω</i>	73.28428	+0.47469244	+0.87722819
<i>a</i>	2.3725436	<i>Ω</i>	225.28127	-0.84107388	+0.42811276
<i>e</i>	0.1074050	<i>i</i>	5.78954	-0.25934883	+0.21723301
<i>P</i>	3.65	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

830903	095	0.0	0.1+	890302	809	0.6-	0.6-	941010	033	0.3-	0.7+
890204	809	0.4-	0.9+	890302	809	0.3-	0.9-	970430	704	0.3+	0.1-
890204	809	0.4-	1.3+	890302	809	0.3+	1.6-	970430	704	0.0	0.3+
890204	809	0.2-	1.4+	890303	809	0.3-	0.5-	970430	704	0.1+	0.2+
890207	809	1.7+	2.0+	890303	809	0.5-	1.1-	970430	704	0.1-	0.3+
890207	809	1.7+	1.0+	890303	809	0.7-	1.1-	970430	704	0.1-	0.4+
890207	809	(5.1+	0.2-)	941010	033	0.2-	0.8+				

1989 CB₈ = 1955 EK = 1990 KC₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	117.23098		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28963891	<i>ω</i>	208.14743	-0.96422909	+0.26492503
<i>a</i>	2.2623760	<i>Ω</i>	347.20596	-0.23515690	-0.87022195
<i>e</i>	0.0946590	<i>i</i>	2.27076	-0.12232533	-0.41536549
<i>P</i>	3.40	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

550314	760	1.0-	0.9+	890214	809	0.4-	0.3-	890228	809	0.0	0.3+
550314	760	1.0+	0.9-	890214	809	0.2+	0.2-	890228	809	0.0	0.3+
890207	809	0.2-	0.4+	890217	809	0.2-	0.2-	890228	809	0.4+	0.3+
890207	809	0.2-	0.2+	890217	809	0.4-	0.1-	890302	809	0.1-	0.4+
890207	809	0.3-	0.3+	890217	809	0.1-	0.1+	890302	809	0.2+	0.3+
890212	809	0.1+	0.2-	890226	809	0.6+	0.1+	890302	809	0.2+	0.4+
890212	809	0.3+	0.3-	890226	809	0.8+	0.1+	890303	809	0.5-	0.7-
890212	809	0.4+	0.4-	890226	809	1.0+	0.4+	890303	809	0.6-	1.0-
890213	809	0.2-	0.1+	890227	809	0.7-	0.3+	890303	809	0.3-	1.2-
890213	809	0.4+	0.1-	890227	809	0.6-	0.4+	900529	413	0.8+	2.1-
890213	809	0.6+	0.1-	890227	809	0.4-	0.5+	900529	413	0.9-	2.1+

1989 GP = 1997 PR₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	37.57030		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26724290	<i>ω</i>	119.33048	-0.15383433	+0.98759373
<i>a</i>	2.3870706	<i>Ω</i>	141.77970	-0.92331306	-0.13231404
<i>e</i>	0.1766551	<i>i</i>	2.92046	-0.35189201	-0.08456725
<i>P</i>	3.69	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

890407	675	0.1+	1.1+	970811	046	0.1+	0.3+	970823	046	0.0	0.4+
890407	675	0.4+	0.3+	970811	046	0.2+	0.1+	970823	046	0.2-	0.5+
890408	675	0.6+	0.4+	970811	046	0.2-	0.2+	970825	046	0.2-	0.3+
890408	675	0.2+	0.2+	970813	046	0.3+	0.3-	970825	046	0.3-	0.2+
890430	675	1.3-	0.8-	970813	046	0.1+	0.1-	970825	046	0.3-	0.1+
890430	675	0.2-	1.3-	970813	046	0.1+	0.1+	970831	046	0.2+	0.9-
890502	675	0.3-	0.8-	970814	046	0.0	0.3+	970831	046	0.0	0.8-
890502	675	0.5+	0.8+	970814	046	0.1-	0.3+	970831	046	0.3+	0.8-
970810	046	0.0	0.2-	970814	046	0.3+	0.3+	970911	046	0.4-	0.4-
970810	046	0.0	0.0	970814	046	0.3+	0.7+	970911	046	0.2-	0.4-
970810	046	0.2-	0.1+	970815	046	0.2+	0.3+	970911	046	0.4-	0.5-
970810	046	0.2-	0.1-	970815	046	0.6+	0.3+				
970811	046	0.1+	0.5+	970823	046	0.1-	0.4+				

1990 OY₁ = 1989 EN₈

Id. T Kobayashi (1995 observations), S. Nakano

1997 SEPT.16

M.P.C. 30653

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	256.05836	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23518821	ω 209.65112	+0.21651611	+0.97147816
<i>a</i>	2.5993156	Ω 72.99573	-0.87464245	+0.23702629
<i>e</i>	0.1702270	<i>i</i> 5.80373	-0.43372960	+0.00697997
<i>P</i>	4.19	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

890310 877	1.7-	0.9-	Y	900730 675	0.4-	0.7+	900920 675	0.1-	1.3-
890310 877	1.8+	1.0+	Y	900915 675	0.2-	0.1-	900920 675	0.6+	1.0+
900729 675	0.3+	0.6-		900915 675	0.1-	0.2-	951116 411	0.3+	1.0+
900729 675	0.5-	0.6+		900917 675	0.4-	0.5-	951116 411	0.5-	0.5-
900730 675	0.0	0.9+		900917 675	0.7+	0.5-			

1990 QA = 1996 TY₁₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	55.78650	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18040865	ω 334.71142	+0.98838245	+0.00376594
<i>a</i>	3.1019239	Ω 26.45658	+0.09768830	+0.75010844
<i>e</i>	0.2068334	<i>i</i> 19.94034	-0.11643509	+0.66130413
<i>P</i>	5.46	<i>H</i> 12.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

900811 413	1.0+	1.7-		900819 413	0.1-	0.5+	961009 399	0.2+	0.0
900814 413	0.5+	0.2+		900826 413	0.6-	0.0	961009 399	1.3+	0.5-
900819 413	1.3-	0.9+		900909 413	0.3+	0.3-	961010 399	0.0	0.3+
900819 413	0.2+	0.5+		900919 413	0.0	0.1-	961010 399	1.4-	0.0

1990 QA₁ = 1989 EJ₅ = 1989 EK₁₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	2.67497	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28042526	ω 60.88526	+0.49237860	+0.86910992
<i>a</i>	2.3116636	Ω 238.68629	-0.81646730	+0.44248545
<i>e</i>	0.1863099	<i>i</i> 3.15525	-0.30156999	+0.22103068
<i>P</i>	3.51	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

890302 413	0.3-	1.7+		900828 511	2.2-	1.7+	900922 095	1.1+	4.2-
890302 413	0.8+	1.2+		900916 675	0.8-	0.3-	900922 095	0.6-	1.0-
890304 413	1.1+	0.8+		900916 675	0.1-	0.9-	901009 413	0.2-	0.2-
900817 511	1.2+	0.2+		900919 675	0.5+	0.2-	901009 413	0.3-	2.6+
900817 511	3.5+	1.1+		900919 675	0.7-	0.3-	901011 413	0.4+	2.1+
900821 511	2.0-	1.9+		900920 675	1.8-	0.6-			
900821 511	2.2+	2.4+		900920 675	1.2-	0.5-			

1990 QR₅ = 1972 HO = 1993 BO₁₅

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	97.62677	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17344469	ω 171.58971	+0.46151612	+0.88636406
<i>a</i>	3.1844080	Ω 125.88733	-0.81655443	+0.44069022
<i>e</i>	0.1763955	<i>i</i> 2.61051	-0.34675890	+0.14195380
<i>P</i>	5.68	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

720418 095	0.2-	0.8-		900824 809	1.5+	0.2+	900913 675	0.6-	0.1+
900816 809	0.0	1.1-		900824 809	0.8+	0.5-	900916 675	0.3+	1.2-
900816 809	0.3-	1.7-		900824 809	1.2+	0.4+	900916 675	0.2+	0.5-

900816 809	0.2-	1.4-		900826 809	0.1+	1.2+	900918 675	0.5-	0.7+
900818 809	1.0+	0.1-		900826 809	0.7+	1.9+	900918 675	0.9+	0.5+
900818 809	0.8-	1.1-		900826 809	0.4+	2.1+	930121 691	0.0	0.9-
900818 809	1.1-	0.7-		900826 675	0.3-	0.5-	930121 691	0.3-	0.1-
900822 675	0.6-	0.1+		900826 675	0.0	0.6-	930121 691	0.0	0.7-
900822 675	1.4-	0.2+		900913 675	0.7-	0.6+			

1990 QX₇ = 1979 WS₁ = 1993 FQ₈₄ = 1996 SS₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	41.88076	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17162138	ω 40.75009	+0.98972522	-0.14194267
<i>a</i>	3.2069224	Ω 327.39812	+0.12148633	+0.89829434
<i>e</i>	0.1691468	<i>i</i> 1.83068	+0.07539934	+0.41583597
<i>P</i>	5.74	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

791116 095	0.2+	0.5-		900824 809	0.8-	0.5-	900911 809	0.0	1.2+
900816 809	0.5-	0.6+		900824 809	0.0	0.1+	900911 809	0.1+	1.2+
900816 809	1.1-	0.3+		900909 809	1.1+	1.8-	930325 691	0.7-	0.7-
900816 809	2.1-	0.3+		900909 809	1.4+	2.1-	930325 691	0.0	0.9-
900818 809	0.6+	0.7-		900910 809	0.4+	0.5-	930325 691	0.3-	0.8-
900818 809	0.7+	0.5-		900910 809	0.5+	0.5-	960917 691	0.1-	0.4+
900818 809	0.2+	0.4-		900910 809	0.6+	0.3-	960917 691	0.2-	0.4+
900824 809	0.5+	0.5-		900911 809	0.2-	1.1+	960917 691	0.3-	0.3+

1990 QM₉ = 1997 CA₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	213.27131	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21641107	ω 281.55914	+0.43190455	+0.90172240
<i>a</i>	2.7475762	Ω 14.07488	-0.79435651	+0.39020884
<i>e</i>	0.0540953	<i>i</i> 4.44467	-0.42714892	+0.18610154
<i>P</i>	4.55	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

900816 809	(2.8+	0.8+)		900824 809	(2.2+	5.1-)	970111 566	0.2+	0.1-
900816 809	1.5+	0.4+		900826 809	(2.4-	1.0+)	970116 599	0.8-	0.5+
900816 809	1.6+	0.8-		900826 809	1.1-	0.8+	970116 599	0.2-	0.4+
900818 809	0.0	0.1+		900826 809	2.1-	0.5-	970201 596	0.8+	0.9+
900818 809	(4.3-	0.9+)		900916 675	0.8+	0.8-	970201 596	0.4+	0.8+
900818 809	0.8-	0.1+		900916 675	0.3+	0.6+	970207 596	0.2-	0.9-
900824 809	(2.9+	4.3-)		970111 566	0.2-	0.3-	970207 596	0.3-	1.1-
900824 809	(2.0+	4.5-)		970111 566	0.2+	0.1+	970207 596	0.1+	0.5-

1990 QB₁₉ = 1990 SE₂₀ = 1990 SM₂₇ = 1993 FO₄₄Id. S. Nakano (d, *MPC* 20912), T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	253.04463	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.24207886	ω 10.95233	+0.81950290	+0.57187053
<i>a</i>	2.5497532	Ω 314.10099	-0.52961699	+0.73101224
<i>e</i>	0.2650070	<i>i</i> 2.96428	-0.21890828	+0.37227033
<i>P</i>	4.07	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

900831 095	0.5+	0.3+		900923 095	0.4+	1.3+	930324 809	2.4+	2.0+
900919 675	0.9-	0.6-		930321 809	2.7-	0.3-			
900919 675	0.2-	0.7-		930322 809	0.4+	1.3-			

1990 SG₃ = 1983 RP₄ = 1990 SU₂₆ = 1996 GH₃Id. S. Nakano (d, *MPC* 20913), T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Spahr			
<i>M</i>	2.96747	(2000.0)	P	Q	
<i>n</i>	0.28479438	ω 197.52123	+0.85408026	+0.51742564	
<i>a</i>	2.2879600	Ω 131.19927	−0.46837393	+0.80944539	
<i>e</i>	0.1908826	<i>i</i> 4.04541	−0.22621402	+0.27761281	
<i>P</i>	3.46	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

830910 688	0.2−	0.2−	900921 374(42.3+	27.1+)	960409 691	0.4+	0.2+
830910 688	0.1+	0.5+	900921 374(30.7+	22.9+)	960409 691	0.3+	0.2−
900918 675	0.0	0.4−	900922 095	0.3+	960415 691	0.4−	0.3−
900918 675	0.6+	0.8+	900922 095	0.9−	960415 691	0.3−	0.0
900920 675	0.4+	0.3+	900928 675	0.9−	960415 691	0.2−	0.0
900920 675	0.7+	0.3+	960409 691	0.1+	0.0		

1990 SA₁₅ = 1996 LL₁

Id. T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	294.79739	(2000.0)	P	Q	
<i>n</i>	0.28594210	ω 158.57711	+0.62757787	−0.77496329	
<i>a</i>	2.2818337	Ω 252.47246	+0.70244761	+0.60498505	
<i>e</i>	0.1345801	<i>i</i> 4.49211	+0.33572814	+0.18282503	
<i>P</i>	3.45	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

900917 675	0.2+	0.7−	900924 046 (0.6+	2.1+)	960612 566	0.5+	0.2+
900917 675	0.5−	0.2−	900924 046	0.5−	960612 566	0.2−	0.3−
900919 675	0.3+	0.2−	960515 566	0.1+	960615 566	0.1−	0.0
900919 675	0.5+	0.1−	960515 566	0.2+	960615 566	0.1−	0.0
900922 095 (2.4−	3.6−)	960515 566	0.2−	0.2+	960615 566	0.0	0.2−
900922 095 (1.3−	2.7−)	960612 566	0.1−	0.5+			

1990 TW₁₂

Id. F. Börngen (1992 observations), E. Bowell (1994 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	177.77986	(2000.0)	P	Q	
<i>n</i>	0.22392027	ω 16.33370	+0.57212629	−0.80637503	
<i>a</i>	2.6858006	Ω 39.12119	+0.72343703	+0.41013273	
<i>e</i>	0.1726611	<i>i</i> 13.73114	+0.38640701	+0.42608737	
<i>P</i>	4.40	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

901014 033	0.9−	1.3−	901113 400 (2.2+	2.9−)	920403 033	0.2+	0.5−
901015 033	0.3−	0.3+	901113 400	1.1+	920430 033	0.2+	0.1+
901015 033	0.3−	0.3−	910114 033	0.7−	920430 033	1.1−	0.4+
901111 400	1.3−	0.9+	910114 033	1.4−	920504 033	0.0	0.6+
901111 400	2.0+	1.4+	920330 033	0.3+	940910 675	0.1+	0.1+
901113 400	1.1+	0.9+	920331 033	0.0	940910 675	0.1−	0.1−

**1990 TX₁₅ = 1990 SL₂₇ = 1990 SV₂₈ = 1990 TD₁₅ = 1983 RG₈
= 1987 WA₂ = 1988 AS**Id. S. Nakano (d, *MPC* 20913), N. Chernykh (d, *ibid.*), T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Spahr			
<i>M</i>	322.94765	(2000.0)	P	Q	
<i>n</i>	0.28456981	ω 209.71402	+0.94504516	−0.32674224	
<i>a</i>	2.2891636	Ω 169.33875	+0.31076957	+0.88696426	
<i>e</i>	0.1520002	<i>i</i> 3.52188	+0.10154764	+0.32639533	
<i>P</i>	3.46	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

830911 095	0.1−	0.4+	900923 095	0.1+	1.5+	901014 095	1.2+	2.1−
871126 033	0.2+	0.2−	900926 095	0.5+	1.0−	901016 095	0.8−	0.0
871126 033	0.8+	0.0	900926 095	1.0+	0.2−	901016 095	1.8−	1.1−
880111 033	0.5−	0.1+	901011 095	0.2−	2.4+			
880111 033	0.4−	0.3+	901014 095 (2.9+	2.2−)				

1991 FH

Id. B. A. Skiff (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	40.92369	(2000.0)	P	Q	
<i>n</i>	0.17504334	ω 330.99371	−0.98688314	−0.05211479	
<i>a</i>	3.1649899	Ω 207.33141	+0.06847827	−0.99223102	
<i>e</i>	0.1435511	<i>i</i> 19.43781	−0.14619303	−0.11296745	
<i>P</i>	5.63	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

910210 413	0.0	0.2+	910410 413	0.9−	0.1+	910515 413	1.0−	0.2+
910318 413	1.7+	0.5−	910414 675	0.3+	1.4+	970731 688	0.1−	0.1+
910319 413	0.9−	0.6−	910414 675	0.3+	0.5−	970801 688	0.1+	0.1−
910321 413	1.1−	0.2+	910419 675	0.7+	1.3−	970801 688	0.0	0.2−
910327 413	0.1−	0.1+	910419 675	1.1+	0.8+			

1991 GO₁ = 1975 TZ₃ = 1975 TP₆Id. T. B. Spahr, B. G. Marsden (d, *MPC* 9041)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Spahr			
<i>M</i>	343.85110	(2000.0)	P	Q	
<i>n</i>	0.27531472	ω 251.30348	+0.13115843	−0.98808556	
<i>a</i>	2.3401827	Ω 192.04402	+0.99087128	+0.13321433	
<i>e</i>	0.3129079	<i>i</i> 22.70041	+0.03117020	−0.07707702	
<i>P</i>	3.58	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 6	

Residuals in seconds of arc

751003 095	1.0−	3.4−	910412 675	0.3+	0.8−	910508 675	2.3−	1.0+
751011 033	0.2−	1.3−	910412 675	1.5−	1.8−	910508 675	2.4−	0.1−
751011 033	0.1+	0.3+	910414 675	1.6+	1.7−	910512 675	0.0	1.4+
751011 033	0.9+	1.4+	910414 675	1.4+	1.2−	910512 675	0.5+	0.7+
910409 675 (4.0+	0.9−)	910416 675	0.0	0.5−				
910409 675	2.3+	0.1+	910416 675	0.2−	0.5−			

1991 LZ = 1973 VF = 1995 OM₁₀ = 1996 XE₃₇

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Spahr			
<i>M</i>	218.76174	(2000.0)	P	Q	
<i>n</i>	0.26230429	ω 47.59198	−0.34027556	+0.93747047	
<i>a</i>	2.4169395	Ω 202.82775	−0.90863818	−0.34785515	
<i>e</i>	0.2317207	<i>i</i> 10.87917	−0.24205207	−0.01207931	
<i>P</i>	3.76	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

731102 033	0.0	0.7+	910711 675	1.4-	1.0+	950719 691	0.1+	0.1-
910614 675	1.1+	0.4+	910711 675	1.8-	0.2-	950719 691	0.4+	0.3-
910614 675	1.0+	0.2-	910811 801	0.0	0.1+	950719 691	0.1-	0.0
910616 675	0.6+	0.3-	910811 801	0.0	0.2+	961212 691	0.2-	0.5-
910616 675	0.9+	0.0	910812 801	0.1+	0.1-	961212 691	0.3+	0.1-
910710 675	1.2-	0.7-	910812 801	0.0	0.0	961212 691	0.3-	0.3-

1991 PB = 1984 SH₈ = 1990 DV₄ = 1995 WK₄₃

Id. S. Nakano, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	214.92420		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.27550282	ω	182.17363		+0.88608300		+0.46298594
a	2.3391174	Ω	150.21383		-0.42459473		+0.83008365
e	0.2461747	i	2.58232		-0.18594687		+0.31081370
P	3.58	H	13.5	G	0.15	U	2

Residuals in seconds of arc

840921 010	0.1-	0.4+	910805 809	0.5+	1.8+	910904 809	0.3-	0.4-
900228 809	0.1+	1.5+	910805 675	(3.0+	0.7-)	910904 809	0.1-	0.1+
900228 809	0.4+	1.1+	910805 809	0.1-	1.7+	910904 809	0.6+	0.1+
900228 809	0.6+	0.8+	910805 675	(2.7+	1.4-)	910905 809	0.5-	0.8-
900301 809	(8.6+	20.1-)	910807 675	(2.5+	0.1-)	910905 809	0.4-	0.2-
900301 809	(8.9+	20.4-)	910807 675	1.7+	0.7-	910905 809	1.6-	0.2-
900301 809	(9.3+	20.6-)	910807 894	0.7+	1.4-	910906 809	0.8+	0.5+
910803 809	0.8+	0.9+	910807 894	1.9-	1.9-	910906 809	0.3-	1.0+
910803 809	0.8-	0.1+	910815 894	0.1+	0.3-	910906 809	0.8-	1.1+
910803 809	0.9-	1.2+	910815 894	0.4+	0.4+	910907 809	2.1-	2.0-
910803 894	0.2+	0.3+	910815 894	0.6+	0.6-	910907 809	(2.8-	2.0-)
910803 894	0.5-	0.2+	910817 894	0.5+	0.3-	951125 399	0.2-	1.4+
910804 809	0.8+	0.1+	910831 894	0.6+	0.1-	951125 399	0.0	0.4+
910805 809	1.1+	1.8+	910831 894	0.3-	0.4-			

1991 PQ₂ = 1984 SB₈ = 1995 UH₅₃

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	227.41071		(2000.0)		P		Q
n	0.26990739	ω	279.39149		+0.40928333		+0.91236493
a	2.3713348	Ω	14.77774		-0.82299893		+0.37332254
e	0.1193273	i	1.97661		-0.39390345		+0.16798964
P	3.65	H	15.0	G	0.15	U	5

Residuals in seconds of arc

840921 010	0.2+	0.4-	910802 809	1.8-	0.4+	910814 809	0.0	0.2+
910714 675	1.6+	1.5-	910807 809	0.8+	1.3+	910814 809	0.7-	0.3+
910714 675	1.8+	0.7-	910807 809	0.5+	0.9+	951021 691	0.1+	0.0
910802 809	0.7-	0.9-	910807 809	0.9-	0.6+	951021 691	0.2+	0.1-
910802 809	0.5-	0.1+	910814 809	0.1+	0.4-	951021 691	0.2-	0.0

1991 PO₄ = 1969 TU₄ = 1975 VG₁ = 1986 TH₁₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	322.52195		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.17396343	ω	228.24362		+0.91682081		-0.39901266
a	3.1780745	Ω	155.26149		+0.37623293		+0.85056019
e	0.1968780	i	2.07006		+0.13374744		+0.34254382
P	5.67	H	12.5	G	0.15	U	2

Residuals in seconds of arc

691014 095	0.4-	1.5+	910805 675	1.9+	0.5+	910905 809	1.4-	0.5-
751102 095	0.2-	0.8-	910805 809	1.6+	0.6+	910905 809	0.5-	0.4+
861005 095	0.4+	0.7-	910805 675	1.5+	0.2+	910906 809	1.2-	0.2-
910803 809	0.4+	0.6+	910807 675	(2.4+	0.4+)	910906 809	(3.2-	0.0)
910803 809	0.1+	0.6-	910807 675	1.4+	0.9-	910906 809	(2.7-	0.8+)
910803 809	0.0	0.1-	910904 809	0.8-	0.2-	910907 809	0.9-	0.8-
910804 809	1.0+	1.2+	910904 809	1.7-	0.3+	910907 809	1.6-	0.6-
910805 809	(2.4+	0.2+)	910904 809	1.2-	0.1-			
910805 809	2.2+	0.2+	910905 809	1.4-	0.5-			

1991 PY₁₀ = 1977 RL₂₀ = 1982 SA₅ = 1982 VS

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	37.92337		(2000.0)		P		Q
n	0.21364401	ω	226.41048		+0.57966782		-0.81453293
a	2.7712491	Ω	188.25533		+0.78592172		+0.56626757
e	0.1517133	i	9.14995		+0.21520285		+0.12600457
P	4.61	H	13.0	G	0.15	U	5

Residuals in seconds of arc

770909 095	0.8-	2.4+	910810 675	0.6+	0.9-	910915 675	1.1-	1.7-
820926 095	1.5+	1.6-	910914 691	1.0-	1.1+	910916 675	1.3-	1.0-
821115 688	1.1-	1.1+	910914 691	0.8-	0.8+	910916 675	0.2-	1.4-
821115 688	(2.6+	5.6+)	910914 675	0.2-	0.6+	910917 675	0.3-	0.2-
910807 675	0.9+	2.2-	910914 691	0.7-	0.9+	910917 675	0.1-	0.8-
910808 675	0.2+	0.0	910914 675	0.6+	0.9+	910917 675	1.4+	1.6+
910809 675	2.2+	0.6-	910915 675	0.8-	0.9-	910917 675	1.4+	1.8+

1991 PT₁₆ = 1996 TK₆₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	85.30584		(2000.0)		P		Q
n	0.19855869	ω	164.68237		+0.73440075		+0.67844392
a	2.9098914	Ω	152.56529		-0.62701110		+0.68902216
e	0.0649264	i	2.39073		-0.25983190		+0.25487703
P	4.96	H	13.0	G	0.15	U	6

Residuals in seconds of arc

910807 675	1.2+	0.6+	910916 675	1.0+	0.0	961006 809	0.6-	0.5-
910808 675	1.2-	0.7-	910916 675	0.2+	0.4+	961007 809	0.6+	0.3+
910913 675	0.3+	0.4-	961006 809	0.2-	0.3-	961007 809	0.6+	0.3+
910913 675	1.5-	0.2+	961006 809	0.5-	0.1-	961007 809	0.3+	0.3+

1991 PV₁₆ = 1986 RC₁₃ = 1986 TQ₁₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	24.15185		(2000.0)		P		Q
n	0.19672398	ω	288.50041		+0.90403643		-0.42417154
a	2.9279558	Ω	96.62611		+0.40952030		+0.82399077
e	0.1210717	i	3.05180		+0.12252042		+0.37565639
P	5.01	H	12.5	G	0.15	U	5

Residuals in seconds of arc

860909 095	0.4+	0.6-	910808 675	0.2-	0.8+	910917 675	0.6-	0.3+
861006 095	0.3-	0.4+	910915 675	1.0-	0.6+	910917 675	2.1+	1.6-
910807 675	0.2+	0.5-	910915 675	0.6-	0.6+			

1991 RF₂ = 1980 RV₄ = 1986 TC₁₁ = 1996 RV₃₃

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	309.16669	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18093541	ω 101.92490	+0.31550443	-0.94472469
<i>a</i>	3.0959006	Ω 329.22064	+0.78863087	+0.31331333
<i>e</i>	0.0603742	<i>i</i> 10.03565	+0.52774834	+0.09659200
<i>P</i>	5.45	<i>H</i> 12.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

800908 095	1.3-	2.1+	910908 511	0.1+	0.6+	910917 675	0.6+	1.1-
861003 095	0.5-	1.3+	910914 675	0.1+	1.0-	960908 809	0.1+	0.4+
910906 511	1.1+	1.0-	910914 675	0.4+	0.8-	960908 809	0.1+	0.0
910907 511	0.1+	1.0+	910917 675	0.1-	1.2-	960908 809	0.6-	0.4+

1991 RF₆ = 1981 UK₁₆ = 1997 JT₁₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	250.36806	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29360703	ω 250.61644	+0.99742049	-0.05366099
<i>a</i>	2.2419457	Ω 112.43616	+0.06777260	+0.92283488
<i>e</i>	0.2093240	<i>i</i> 2.95656	-0.02364816	+0.38143976
<i>P</i>	3.36	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

811024 095	0.7+	1.8-	911001 691	1.2-	1.1+	911008 675	0.2+	0.2+
910912 095	1.5+	0.2+	911001 691	1.0-	1.0+	970507 704	0.0	0.2-
910912 095	0.7-	0.5-	911001 691	1.0-	0.6+	970507 704	0.9+	0.9-
910913 675	0.0	0.5-	911002 675	0.9+	0.3-	970507 704	0.6-	0.4+
910913 675	0.5+	0.3-	911002 675	1.5-	0.4-	970507 704	0.3-	0.0
910916 675	0.1-	1.1+	911007 675	1.2+	0.3+	970507 704	0.3-	0.3-
910916 675	0.7+	1.2-	911007 675	0.2+	0.4-			

1991 RO₂₃ = 1972 GU₁ = 1989 GS₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	359.00485	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17486749	ω 351.25506	+0.99911727	+0.01291955
<i>a</i>	3.1671113	Ω 8.32342	+0.01531534	+0.77401325
<i>e</i>	0.1380651	<i>i</i> 16.02912	-0.03911684	+0.63303758
<i>P</i>	5.64	<i>H</i> 11.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

720409 805	0.7-	0.6+	890411 809	0.9-	0.7-	910915 095	(3.9+	1.2-)
720409 805	0.4+	1.5-	890411 809	0.2+	0.2+	910915 095	(4.8+	4.8-)
720410 805	0.7-	0.6+	890411 809	1.1+	0.6+	910917 675	0.1+	0.6-
720410 805	0.6+	0.2-	910909 095	(2.1-	4.0+)	910917 675	0.2-	0.6-
890410 809	1.3-	0.3+	910909 095	0.3+	0.4+	910917 095	(3.9+	2.1-)
890410 809	0.5-	0.1+	910915 675	0.0	0.3+	910917 095	(5.1+	3.9-)
890410 809	1.7+	0.2-	910915 675	0.1-	0.3+			

1991 RT₂₆ = 1991 TS₁₂ = 1991 VM₁₄ = 1995 SX₅₄

Id. S. Nakano (d, MPC 22572), T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	138.13432	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23252370	ω 161.44075	+0.99560466	+0.07356259
<i>a</i>	2.6191351	Ω 194.70578	-0.08310653	+0.97928693
<i>e</i>	0.1666669	<i>i</i> 13.19921	+0.04318179	+0.18864159
<i>P</i>	4.24	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

910911 675	0.5+	0.6-	911007 046	2.1-	1.5-	950920 693	0.9-	1.2-
910911 675	0.0	0.8-	911007 046	(6.3-	3.0-)	950920 693	0.1-	1.7+
910913 675	0.5-	0.4+	911112 808	0.8+	0.6-	950925 693	0.7+	0.0
910913 675	0.2-	0.3+	911112 808	1.8+	2.4+	950925 693	0.3+	0.0

1991 VT₁ = 1997 PS₄

Id. G. V. Williams, T. Urata

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	268.92973	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.30493208	ω 143.58259	+0.69245800	-0.71965312
<i>a</i>	2.1860863	Ω 262.53049	+0.64918447	+0.65237134
<i>e</i>	0.1164909	<i>i</i> 2.94857	+0.31474029	+0.23772048
<i>P</i>	3.23	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

911105 887	0.1+	1.3-	911214 399	1.4+	0.8+	970825 620	0.7+	0.3-
911105 887	1.3-	1.3-	Y 911214 399	0.3-	1.5+	970828 385	1.0+	0.0
911110 885	0.8+	0.3+	970811 620	0.3+	1.2-	970828 385	0.1-	0.0
911110 885	0.3+	1.0+	970811 620	0.5+	0.2-	970901 566	0.0	0.3+
911112 887	1.5-	1.9-	970811 620	0.3+	0.1+	970901 566	0.1+	0.2+
911112 887	(2.8+	5.3-)	970813 620	0.6-	0.0	970901 566	0.0	0.5+
911202 881	1.6+	0.6-	970813 620	0.4-	0.3-	970903 385	0.2-	0.1+
911202 881	(2.7+	0.4-)	970813 620	0.3-	0.8-	970903 385	0.2-	0.1+
911212 385	1.3-	0.6+	970825 620	0.1-	0.6+	970909 625	1.1-	0.9+
911212 385	0.1-	0.6+	970825 620	0.3+	0.1+	970909 625	0.5-	0.6+

1992 DF₁₀ = 1980 TW₉ = 1987 WZ₃ = 1990 SD₁₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	300.47290	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28753920	ω 178.38095	+0.83903789	-0.54185616
<i>a</i>	2.2733764	Ω 214.57407	+0.49820045	+0.80140811
<i>e</i>	0.1588439	<i>i</i> 4.96007	+0.21865893	+0.25325271
<i>P</i>	3.43	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

801013 095	0.0	0.0	900916 675	0.6+	1.0-	920303 809	0.3+	0.3+
871124 688	(16.4+	5.1+)	900916 675	0.1+	1.4-	920305 809	0.5-	1.0-
871124 688	0.1+	0.2-	920229 809	0.0	1.4-	920407 809	0.9-	0.6-

1992 ED₁₃ = 1990 VO₁₅ = 1997 RB₈

Id. S. Nakano

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	324.68331	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26572329	ω 148.26237	+0.96634841	+0.25519892
<i>a</i>	2.3961627	Ω 197.04229	-0.25300385	+0.92022177
<i>e</i>	0.1423394	<i>i</i> 6.33034	-0.04647362	+0.29675815
<i>P</i>	3.71	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

901113 809	0.7-	1.0-	920305 809	0.7+	0.5-	970911 402	0.5-	0.5+
901113 809	0.1-	0.1+	920309 809	(0.2+	2.9-)	970911 402	0.5-	0.0
901113 809	0.8+	0.8+	920407 809	1.0-	0.4-	970911 402	0.2-	0.1-
920228 675	1.4+	0.9+	970910 402	0.3+	0.1-	970912 402	0.1+	0.2-
920228 675	0.6-	0.5-	970910 402	0.5+	0.1-	970912 402	0.1-	0.0
920302 809	0.8-	0.0	970910 402	0.4+	0.2-	970912 402	0.0	0.2-

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M.P.C. 30657

1992 EB₁₄ = 1996 FZ₁₆ = 1997 QT₁

Id. G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	153.89240		(2000.0)	P		Q	
<i>n</i>	0.26449497	ω	278.01954	-0.89609089		-0.44378440	
<i>a</i>	2.4035755	Ω	235.63528	+0.41130372		-0.82277347	
<i>e</i>	0.1194325	<i>i</i>	0.60720	+0.16688430		-0.35510452	
<i>P</i>	3.73	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

920302	809	0.3-	0.9+	960324	809	1.5-	0.6-	970831	552	0.9-	1.6-
920305	809	0.7+	0.8-	960324	809	(0.3-	2.3-)	970831	552	0.2+	0.3+
920309	809	0.4-	1.0-	960326	809	0.3+	0.1+	970831	552	1.4-	0.1+
920407	809	1.0-	1.5-	960326	809	0.4+	0.2-	970831	552	0.5-	0.5-
960322	809	0.3+	1.5+	960326	809	0.2+	0.2+	970904	552	1.0+	0.7+
960322	809	0.3+	0.3-	970829	552	1.9+	0.2-	970904	552	1.0-	0.7+
960322	809	0.5+	0.6+	970829	552	(0.3+	2.3-)	970905	552	0.1+	0.0
960324	809	0.1-	0.3-	970829	552	0.3-	0.0	970905	552	1.5+	1.3-

1992 HS₄ = 1997 MC₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	352.82259		(2000.0)	P		Q	
<i>n</i>	0.21014208	ω	179.90827	+0.17749984		+0.97077402	
<i>a</i>	2.8019520	Ω	100.31465	-0.90301773		+0.22591192	
<i>e</i>	0.1906014	<i>i</i>	9.44973	-0.39121961		-0.08100370	
<i>P</i>	4.69	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

920430	033	0.5-	0.0	920524	033	0.5+	0.0	970628	704	0.5+	0.4+
920501	033	0.1-	0.2+	920525	033	0.1+	0.2-	970629	704	0.1-	0.1-
920504	033	0.3+	0.3-	920526	033	0.2-	0.4-	970629	704	0.6-	0.8+
920505	033	0.9+	0.0	920527	033	0.5+	0.6+	970629	704	0.6+	0.3+
920506	033	0.8-	0.2-	920528	033	0.1+	0.1-	970629	704	0.3+	0.6-
920523	033	0.8-	0.6-	970628	704	0.7+	0.2+	970629	704	0.9+	0.5-
920524	033	0.1-	1.0+	970628	704	2.2-	0.5-				

1992 OY₇ = 1997 QX₁

Id. T. Urata

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	338.47079		(2000.0)	P		Q	
<i>n</i>	0.20234552	ω	50.93186	+0.85225564		+0.50100191	
<i>a</i>	2.8734721	Ω	278.51990	-0.51455785		+0.75098190	
<i>e</i>	0.2718082	<i>i</i>	8.75464	-0.09428966		+0.43014332	
<i>P</i>	4.87	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

920721	809	0.2+	0.4+	920725	809	0.5+	0.6+	920730	809	0.8+	1.0-
920721	809	0.4+	0.2+	920725	809	0.6+	0.7+	920730	809	1.0+	0.9-
920721	809	0.7+	0.4+	920726	809	1.1-	0.1-	920730	809	0.1-	0.9+
920722	413	0.3-	0.9-	920726	809	0.9-	0.0	920730	809	0.1+	1.1+
920722	413	0.5+	0.2-	920726	809	1.0-	0.1+	920731	809	0.1-	1.1+
920723	809	0.5+	1.4-	920727	809	1.4-	0.6+	970823	905	0.3+	0.8+
920723	809	0.7+	1.4-	920727	809	1.5-	0.7+	970823	905	0.5+	0.6+
920723	809	0.7+	1.3-	920727	809	1.3-	0.8+	970827	905	0.5-	0.8-
920725	809	0.3+	0.5+	920729	809	0.7+	0.7-	970827	905	0.3-	0.8-

1992 PH₂ = 1987 SE₂₁ = 1997 ND₁₁

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	312.06044		(2000.0)	P		Q	
<i>n</i>	0.18583216	ω	69.96477	+0.93577651		+0.31208283	
<i>a</i>	3.0412734	Ω	271.57003	-0.35225862		+0.84775914	
<i>e</i>	0.1406915	<i>i</i>	9.44815	+0.01536843		+0.42884584	
<i>P</i>	5.30	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

870918	095	0.3-	0.6+	920806	675	0.1+	0.0	970724	327	0.2+	0.2-
920731	675	0.1-	0.3-	920823	675	0.1+	0.2+	970724	327	0.3+	0.0
920731	675	0.2-	0.2-	920823	675	0.5-	0.0	970724	327	0.1-	0.2-
920802	675	0.6+	0.3-	970713	327	0.2-	0.3+	970725	327	0.2-	0.1-
920802	675	0.0	0.4-	970713	327	0.1-	0.7+	970725	327	0.0	0.2-
920806	675	0.5+	0.0	970713	327	0.3-	0.4+				

1992 PL₂ = 1981 RE₂ = 1982 VQ₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	66.11521		(2000.0)	P		Q	
<i>n</i>	0.17317465	ω	261.37158	-0.89679159		+0.31198892	
<i>a</i>	3.1877176	Ω	296.29543	-0.11540921		-0.84947122	
<i>e</i>	0.0555575	<i>i</i>	20.48386	-0.42713647		-0.42551328	
<i>P</i>	5.69	<i>H</i>	11.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

810907	095	0.4-	0.6+	920731	675	0.9-	0.3+	920806	675	0.3-	0.3-
821114	381	0.3-	0.5-	920802	675	0.0	0.2+	920823	675	0.6+	0.0
821114	381	0.3+	0.2+	920802	675	0.1+	0.4+	920823	675	0.6+	0.2-
920731	675	0.2+	0.9-	920806	675	0.1+	0.1+				

1992 RD₁ = 1976 SK₁₀ = 1982 US₈

Id. T. B. Spahr, T. Urata

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	349.86049		(2000.0)	P		Q	
<i>n</i>	0.19008680	ω	334.00826	+0.89520683		+0.44564638	
<i>a</i>	2.9957213	Ω	359.51318	-0.35646442		+0.71334009	
<i>e</i>	0.1030366	<i>i</i>	13.67432	-0.26746559		+0.54087450	
<i>P</i>	5.19	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

760917	808	0.2-	0.7-	920924	033	0.3+	0.4+	921003	675	1.4+	1.8+
760917	808	0.0	1.0+	920924	033	0.4+	0.0	921003	675	0.6+	0.0
821021	095	0.5-	0.8+	920926	033	1.3+	0.3+	970904	385	0.3+	0.3+
920904	033	(2.4-	1.6-)	920927	033	0.8+	0.7-	970904	385	0.1-	0.0
920906	033	0.6-	0.0	920928	033	1.5+	0.3-	970905	385	0.4-	0.1-
920907	033	0.7+	0.1-	920929	691	0.9-	0.0	970905	385	0.1-	0.0
920907	033	0.0	0.3+	920929	691	0.9-	0.4+	970905	385	0.0	0.3+
920921	033	1.3-	1.9-	920929	691	1.1-	0.1+	970905	385	0.3-	0.2+
920921	033	1.5-	1.7-	920930	675	1.3+	0.7+				
920922	033	1.2-	0.5-	920930	675	0.4+	0.0				

1992 RB₃ = 1987 SX₁₈ = 1997 QS₁

Id. G. V. Williams

M.P.C. 30658

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	323.30145		(2000.0)	P		Q	
<i>n</i>	0.19231514	ω	109.47906	+0.99761692		+0.06844814	
<i>a</i>	2.9725356	Ω	246.59687	-0.06631859		+0.91658014	
<i>e</i>	0.1119504	<i>i</i>	0.54187	-0.01903476		+0.39394885	
<i>P</i>	5.12	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

870916	095	0.1-	0.2+	920923	809	0.4-	0.4-	970904	552	0.4-	0.9-
920902	809	1.3+	0.6-	970829	552	0.2+	0.0	970904	552	0.1+	0.0
920902	809	0.5+	0.3-	970829	552	0.3-	0.1+	970904	552	0.1-	0.2+
920902	809	0.2-	1.0-	970829	552	0.4-	0.1-	970904	552	0.1+	0.2+
920903	809	1.0-	1.3-	970830	552	0.5+	0.1+	970905	552	0.5-	0.3+
920922	809	0.7+	0.5+	970830	552	0.6+	0.1-	970905	552	0.1-	0.0
920922	809	0.0	0.6+	970831	552	0.2+	0.2+	970908	552	0.5-	0.5-
920922	809	0.8-	0.2+	970831	552	0.3+	0.6+	970908	552	0.4-	0.1+
920923	809	0.4+	0.4+	970831	552	0.2+	0.2+				
920923	809	0.1+	0.7+	970831	552	0.2+	0.5+				

1992 UA₁ = 1975 TE₇ = 1996 TX₆₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	2.06255		(2000.0)	P		Q	
<i>n</i>	0.23421432	ω	64.20460	+0.26919842		-0.96195856	
<i>a</i>	2.6065162	Ω	10.50248	+0.76656523		+0.18475049	
<i>e</i>	0.1783913	<i>i</i>	14.79966	+0.58301798		+0.20125353	
<i>P</i>	4.21	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

751006	413	1.5-	1.0+	921022	399	1.2-	0.2+	961006	809	0.9+	0.4+
751006	413	0.9-	2.0+	921022	399	0.1+	1.2-	961007	809	0.2-	1.4-
921019	399	1.1-	0.5-	921102	399	0.1+	0.7+	961007	809	0.8-	1.0-
921019	399	(2.8-	1.9+)	921102	399	0.1-	0.1-	961007	809	0.2-	1.4-
921020	675	1.8+	0.3+	961006	809	1.1+	0.4+				
921020	675	1.0+	0.0	961006	809	1.1+	0.4+				

1992 UN₅ = 1984 UT₄ = 1996 KO₉

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	192.06535		(2000.0)	P		Q	
<i>n</i>	0.12396210	ω	8.43581	+0.43218668		-0.85749935	
<i>a</i>	3.9836096	Ω	56.40582	+0.80658657		+0.22916072	
<i>e</i>	0.2381040	<i>i</i>	19.57804	+0.40327754		+0.46063025	
<i>P</i>	7.95	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

841020	095	0.1+	0.2-	921028	400	0.4+	0.7-	960520	691	0.0	0.1-
921026	400	0.9-	0.8+	921115	400	0.8+	0.5+	960520	691	0.0	0.2-
921026	400	1.0-	0.9+	921115	400	0.0	0.5+				
921028	400	0.4+	1.6-	960520	691	0.1+	0.5+				

1992 UM₉ = 1996 HD₂₆Id. B. G. Marsden (*MPC* 27310)

1997 SEPT.16

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	322.20279		(2000.0)	P		Q	
<i>n</i>	0.17286264	ω	162.07202	+0.98025813		+0.19730146	
<i>a</i>	3.1915522	Ω	186.58916	-0.19236454		+0.93659674	
<i>e</i>	0.1324981	<i>i</i>	6.44924	-0.04571515		+0.28958364	
<i>P</i>	5.70	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

921019	399	0.6-	0.3+	960420	809	(3.1-	1.5-)	960522	809	0.1-	0.2-
921019	399	0.8+	0.8-	960420	809	(3.9-	1.8-)	960524	809	0.9+	0.9+
921022	399	0.4+	0.2+	960420	809	(4.1-	1.7-)	960524	809	0.2+	0.5+
921022	399	0.5-	0.1-	960421	809	0.9-	1.7-	960524	809	0.6+	0.7+
921116	399	(4.2-	0.8-)	960421	809	(3.1-	1.3-)	970901	566	0.1-	0.0
921116	399	(2.5-	3.7-)	960421	809	(3.2-	0.6-)	970901	566	0.0	0.1+
921118	399	(4.8-	0.5-)	960522	809	0.5-	0.4-	970901	566	0.2+	0.0
921118	399	(4.1-	1.7-)	960522	809	0.3-	0.3-				

1993 BE₂ = 1965 UX₁ = 1982 DU₄ = 1986 XK

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	42.16356		(2000.0)	P		Q	
<i>n</i>	0.18872249	ω	270.00266	+0.96934189		-0.13381525	
<i>a</i>	3.0101417	Ω	97.68751	+0.20280914		+0.90922666	
<i>e</i>	0.1140022	<i>i</i>	12.00230	-0.13872543		+0.39420853	
<i>P</i>	5.22	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

651020	330	0.0	0.1-	930119	896	0.8+	0.5-	930123	691	1.5-	0.5-
820221	010	0.4+	0.8-	930122	896	2.4+	2.2+	930129	896	0.5-	0.2-
861202	688	0.5+	0.3+	930122	896	2.2+	1.4-	930129	896	0.9+	0.9+ Y
861202	688	0.7-	0.2+	930123	691	1.6-	0.2+				
930117	896	1.2-	0.3+	930123	691	1.5-	0.6-				

1993 BJ₅ = 1977 CO

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	115.73049		(2000.0)	P		Q	
<i>n</i>	0.12376952	ω	267.92973	-0.69459623		+0.71356242	
<i>a</i>	3.9877406	Ω	317.57738	-0.59433105		-0.64081637	
<i>e</i>	0.0829428	<i>i</i>	7.79195	-0.40534760		-0.28316611	
<i>P</i>	7.96	<i>H</i>	11.7	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

770211	675	(8.2+	0.1+)	930128	010	0.3+	0.6+	930220	010	0.2+	1.5-
770212	675	0.7+	1.2+	930128	010	0.6+	0.1+	930220	010	0.8+	1.7-
770214	675	0.6+	1.6+	930128	010	0.6+	1.3-	930220	010	0.6+	0.9-
930127	010	0.8-	0.7-	930218	511	0.8-	1.3+	930222	010	1.2-	0.8-
930127	010	0.7-	0.2-	930218	511	1.1+	0.8+	930223	010	(1.0-	2.5-)
930127	010	0.5-	0.5+	930219	511	1.5-	0.9+				

1993 CA₁ = 1950 EH = 1980 BK₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	352.99098		(2000.0)	P		Q	
<i>n</i>	0.22873501	ω	187.00693	-0.85228720		-0.50209624	
<i>a</i>	2.6479775	Ω	321.69030	+0.49065935		-0.67024889	
<i>e</i>	0.1076227	<i>i</i>	13.68383	+0.18127306		-0.54650324	
<i>P</i>	4.31	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

500315	024	0.8−	1.0−	930217	877	0.4+	1.4−	930219	511	1.7+	0.4+
500322	024	0.3+	0.0	930217	877	0.5−	0.5−	930220	511	1.3+	0.7+
800122	095	0.1+	0.9+	930218	511	1.4−	1.2−	930220	010	0.7−	1.3+
930121	877	0.1+	0.5−	930218	511	0.3−	0.4−	930220	010	0.7−	1.5+
930121	877	0.7−	1.3−	930219	511	0.4−	1.7−	930220	010	0.8−	1.8+
930131	046	(1.0−	2.7−)	930219	877	1.4+	1.3−	930222	010	0.5−	2.5+
930131	046	1.2+	1.6−	930219	877	(2.5−	1.0+)	930223	010	1.6−	2.3+
930214	877	0.4−	1.0−	930219	511	0.7−	0.9−	930225	511	1.6+	0.4−
930214	877	0.7−	0.4+	930219	511	(3.6−	3.7−)	930225	511	2.0+	1.4+

1993 FW₁₁ = 1997 RQ₁

Id. T. Urata

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

M	353.60948		(2000.0)	$\mathbf{P}$		$\mathbf{Q}$	
n	0.29950211	ω	180.97241	+0.66551740		+0.74423638	
a	2.2124296	Ω	130.75238	−0.68428741		+0.63865571	
e	0.2055190	i	4.28170	−0.29805592		+0.19552772	
P	3.29	H	14.8	G	0.15	U	5

Residuals in seconds of arc

930317	809	0.4+	0.2+	930416	413	0.6−	0.2−	970905	385	0.0	0.2+
930318	809	0.2+	0.0	970904	385	0.2−	0.3+	970905	385	0.3+	0.5−
930323	809	0.1+	0.2+	970904	385	0.1−	0.1+				

1993 FG₃₃ = 1985 SO₃ = 1997 AV₂₄

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	94.27968		(2000.0)	P	Q
n	0.20449056	ω	310.19237	+0.66739148	−0.74299382
a	2.8533423	Ω	97.86587	+0.69780711	+0.60024408
e	0.0267804	i	2.92136	+0.26010353	+0.29608654
P	4.82	H	13.0	G 0.15	U 4

Residuals in seconds of arc

850920	095	0.0	0.0	930324	809	0.4+	0.8−	970102	327	1.2−	0.3−
930319	809	0.1−	0.1+	930418	413	(5.9+	1.4+)	970102	327	0.4+	0.1+
930320	809	0.4−	0.7+	970102	327	0.8+	0.2+				

1993 FH₃₆ = 1962 XJ = 1978 SL₂ = 1997 EU₅₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	161.34750		(2000.0)	P	Q
n	0.23922303	ω	212.06971	+0.85639335	−0.51631680
a	2.5700056	Ω	179.00368	+0.50058050	+0.82897858
e	0.1676421	i	8.99699	+0.12652902	+0.21496855
P	4.12	H	12.5	G 0.15	U 2

Residuals in seconds of arc

621201	760	0.5−	0.3−	970305	809	1.2+	0.4+	970309	809	(2.9−	6.9−)
621201	760	0.5+	0.4+	970305	809	0.9+	0.2+	970309	809	(2.6−	7.0−)
780926	095	0.1+	0.2−	970306	809	0.0	0.8+	970309	809	(2.7−	7.3−)
930319	809	0.7+	0.6+	970306	809	1.4+	0.3+	970409	691	1.7−	0.2+
930320	809	1.2−	0.3+	970306	809	0.5+	0.4+	970409	691	1.7−	0.3+
930324	809	0.4+	0.4+	970308	809	0.4−	1.3−	970409	691	1.5−	0.0
930418	413	0.3+	0.1−	970308	809	0.0	1.8−				
970305	809	0.8+	0.8+	970308	809	0.2+	1.7−				

1993 FT₃₇ = 1977 FO₂ = 1996 XZ₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	306.67228		(2000.0)	P	Q
n	0.18622268	ω	1.42724	−0.95494598	−0.29643153
a	3.0370201	Ω	161.31003	+0.27184378	−0.89311251
e	0.1534540	i	2.57039	+0.11907618	−0.33834657
P	5.29	H	13.0	G 0.15	U 4

Residuals in seconds of arc

770326	095	0.5+	1.2+	930509	695	0.1+	0.3−	961209	684	0.1+	0.2−
930319	809	0.4−	1.2+	930509	695	0.1+	0.5−	961212	684	0.7−	0.2−
930320	809	0.3+	1.1+	930509	695	0.1+	0.4−	961212	684	0.4+	1.1+
930324	809	0.5+	0.3+	930509	695	0.3+	0.5−	961213	684	0.1−	0.2−
930329	399	1.0−	0.4−	961208	684	0.3+	0.1−	961213	684	0.0	0.4−
930329	399	1.4−	1.1−	961208	684	0.2+	0.1+	961213	684	0.1−	0.4−
930418	413	0.4+	0.9−	961209	684	0.1+	0.3−				
930509	695	0.2+	0.5−	961209	684	0.0	0.4−				

1993 FQ₄₃ = 1991 US₁

Id. G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

M	110.80727		(2000.0)	P	Q
n	0.23773786	ω	43.11598	+0.53526115	−0.84456232
a	2.5806978	Ω	14.54180	+0.75844881	+0.47299162
e	0.2211456	i	3.30855	+0.37182106	+0.25098489
P	4.15	H	14.0	G 0.15	U 5

Residuals in seconds of arc

911029	399	(2.8−	0.7+)	911105	691	0.2+	0.2−	930417	691	0.3−	0.7−
911029	399	2.2−	0.5−	911105	691	0.2+	0.2−	930417	691	0.1−	0.3+
911031	399	(2.7+	0.9+)	930319	809	1.8−	1.1+	930417	691	0.3−	0.4−
911031	399	1.3+	0.6+	930320	809	1.6+	0.4+				
911105	691	0.5+	0.2+	930324	809	0.8+	0.8−				

1993 FX₅₂ = 1997 RD

Id. G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

M	74.94536		(2000.0)	P	Q		
n	0.30768078	ω	89.47612	−0.68453497	+0.72701127		
a	2.1730471	Ω	137.15869	−0.69623250	−0.63025262		
e	0.0918484	i	4.51604	−0.21603747	−0.27246328		
P	3.20	H	16.0	G	0.15	U	5

Residuals in seconds of arc

930317	809	0.3+	1.0−	970901	118	0.0	0.4+	970907	118	0.4−	0.9−
930318	809	0.6−	0.3+	970901	118	0.2+	0.1−	970907	118	1.1−	0.3−
930323	809	0.2−	0.2+	970901	118	0.4+	0.0	970907	118	1.0−	0.6−
930416	413	0.4+	0.2+	970901	118	0.1+	0.3+	970908	118	0.7+	0.0
970901	118	0.0	0.1−	970904	118	0.4+	0.6+	970908	118	0.5+	0.2−
970901	118	0.0	0.2+	970904	118	0.5+	0.4+	970908	118	0.2−	0.1+

1993 FZ₅₅ = 1972 TV = 1990 ST₂₉ = 1995 WJ₄₃

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	313.14529		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27081573	ω	176.58641	+0.69348273	+0.71684050
<i>a</i>	2.3660293	Ω	137.30174	-0.66351941	+0.67452511
<i>e</i>	0.2428335	<i>i</i>	6.11679	-0.28075558	+0.17650940
<i>P</i>	3.64	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

721007 095	0.2+	0.5-	930318 809	0.1-	0.1+	951130 691	0.0	0.2-
900923 413	0.1-	0.1+	930323 809	0.3-	0.3+	951130 691	0.1-	0.2-
900923 413	0.1+	0.7-	930416 413	0.1-	1.1-			
930317 809	0.3+	0.2-	951130 691	0.1-	0.2-			

1993 FL₈₄ = 1981 WS₇ = 1994 TP₂Id. G. V. Williams (*MPC* 24744, unpublished)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	309.78872		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29848418	ω	164.66665	+0.97709154	+0.21268608
<i>a</i>	2.2174568	Ω	183.08351	-0.20700961	+0.94160789
<i>e</i>	0.1648623	<i>i</i>	8.05017	-0.04938760	+0.26103489
<i>P</i>	3.30	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

811125 095	0.0	0.2-	941010 397	0.4-	0.3+	970715 104	0.5-	0.0
930320 809	0.5+	1.4+	941011 675	1.5+	0.9+	970722 610	1.9+	1.2+
930324 809	0.5+	0.6+	941011 675	0.5+	0.2+	970722 610	1.9+	0.7+
930414 691	1.4-	1.5-	941026 400	0.6-	0.5-	970722 610	1.6+	0.4+
930414 691	0.4-	0.6-	941026 400	0.3+	0.8+	970729 560	0.2-	0.5-
930414 691	0.3-	0.9-	941101 400	0.9-	0.2+	970729 560	0.1+	0.7-
930418 413	0.8+	1.0-	941101 400	0.2-	0.2+	970729 560	0.2-	0.4-
941002 400	0.0	1.3-	941107 675	0.2+	0.0	970730 560	0.6-	0.6-
941002 400	0.8+	0.2+	941107 675	0.2+	0.2+	970730 560	0.2-	0.5-
941003 400	1.1-	0.1+	970713 138	1.3-	0.1-	970730 560	0.5-	0.9-
941003 400	0.1-	1.1-	970713 138	0.2-	0.6-	970802 124	0.3-	0.2-
941007 400	0.1+	0.8-	970715 610	0.2-	0.2-	970802 124	0.4+	0.3-
941007 400	0.0	0.3-	970715 610	0.6-	0.0	970802 124	0.1-	0.2-
941008 675	1.3+	1.3-	970715 104	0.7-	0.1-	970830 566	1.0+	1.5+
941008 675	1.4-	0.5-	970715 104	0.9-	0.2-	970830 566	0.2+	1.2+
941010 397	0.4+	0.6+	970715 610	0.9-	0.2+	970830 566	0.5+	1.2+

1993 HS₁ = 1997 QA₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	65.74083		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29258377	ω	200.23564	-0.64469852	+0.76113229
<i>a</i>	2.2471698	Ω	29.75352	-0.68020136	-0.52879143
<i>e</i>	0.1141183	<i>i</i>	8.22575	-0.34884083	-0.37557590
<i>P</i>	3.37	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

930324 675	0.1+	0.2+	930516 400	0.7+	2.0+	970827 684	0.3-	0.3-
930324 675	0.0	0.5+	930516 400	(4.7+	1.7+)	970829 684	0.3+	0.3+
930420 400	1.1+	0.4+	930521 675	1.7-	1.3-	970829 684	0.1+	0.1+
930420 400	0.0	0.8-	930521 675	1.2-	0.4-	970829 684	0.2+	0.7+
930429 400	2.1+	0.5-	970827 684	0.6-	0.2-			
930429 400	1.2-	0.2+	970827 684	0.0	0.3-			

1993 NB = 1955 PA = 1974 OH = 1980 BO₆

Id. S. Nakano, T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	339.84264		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25838042	ω	204.81008	+0.89640673	+0.40168000
<i>a</i>	2.4413478	Ω	130.17483	-0.35461618	+0.90355635
<i>e</i>	0.2266180	<i>i</i>	14.19515	-0.26589910	+0.14912783
<i>P</i>	3.81	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

550809 076	0.0	0.2-	930716 675	1.9+	1.5+	930723 871	0.7-	0.9-
740720 095	(0.7-	13.5+)	930716 675	(3.1+	2.1+)	930723 871	1.2+	0.2-
800121 046	0.3-	0.9-	930720 675	1.0-	0.1+	930723 871	0.6+	0.9-
800121 046	0.3+	0.5-	930720 675	0.4-	1.3-	930811 894	0.6-	1.3+
930715 894	1.1-	0.4+	930721 894	0.1+	0.9+	930811 894	0.2-	1.7-
930715 894	(1.8-	2.9-)	930721 894	(2.3-	0.6-)			

1993 OW₃ = 1977 ER₂ = 1986 VY₅ = 1986 XE₁ = 1997 RW₈

Id. G. V. Williams, B. G. Marsden (d)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	356.13569		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26616534	ω	201.14524	+0.85333571	+0.51946104
<i>a</i>	2.3935089	Ω	127.48060	-0.46993756	+0.80330885
<i>e</i>	0.2178702	<i>i</i>	3.21312	-0.22578055	+0.29129902
<i>P</i>	3.70	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

770312 381	0.5-	0.0	930713 809	3.0+	2.2+	930724 809	1.0-	0.7-
770312 381	0.6+	0.5+	930713 809	2.2+	2.0+	930724 809	1.2-	0.2-
861106 688	1.1-	0.7+	930715 894	1.1-	0.3-	970912 327	0.3+	0.2-
861106 688	0.7+	1.6+	930715 894	0.6+	0.9-	970912 327	0.1+	0.3-
861204 688	(4.6+	16.7+)	930720 809	0.3-	0.2-	970912 327	0.2+	0.5-
861204 688	0.4-	0.1-	930720 809	0.7-	0.2+	970913 327	0.0	0.2-
930713 809	1.0+	1.2-	930720 809	1.0-	0.3+	970913 327	0.1+	0.3-
930713 809	1.5+	0.7-	930720 809	0.9-	0.7+	970913 327	0.1+	0.3-
930713 809	1.0+	0.9-	930720 809	1.1-	1.0+	970913 327	0.0	0.2-
930713 809	(4.7+	1.8+)	930720 809	2.1-	0.2+			

1993 OH₄ = 1996 FC₁₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	84.07338		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28312928	ω	178.21006	-0.38918537	+0.92094472
<i>a</i>	2.2969217	Ω	68.88570	-0.84541196	-0.34852500
<i>e</i>	0.0728759	<i>i</i>	1.22165	-0.36580510	-0.17433055
<i>P</i>	3.48	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

930713 809	0.7+	1.0+	960322 809	0.4+	0.5+	960326 809	1.5-	0.5-
930713 809	1.1+	0.4+	960322 809	0.9+	1.2+	960326 809	0.5-	1.3-
930713 809	1.0-	0.3-	960322 809	0.1-	0.4-	960326 809	1.8+	0.3-
930720 809	0.5-	0.8+	960324 809	0.1+	0.3+	960326 809	0.9+	0.7+
930720 809	0.8-	0.5-	960324 809	1.3-	0.2-	960326 809	0.7+	0.9+
930720 809	0.8-	0.1-	960324 809	0.2+	0.2-			
930724 809	1.4+	1.3-	960326 809	1.5-	0.8-			

1997 SEPT.16

M.P.C. 30661

1993 OB₁₀ = 1997 QF₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26280530	ω	45.22231	+0.94370027	+0.32105407		
<i>a</i>	2.4138668	Ω	295.90015	-0.32298813	+0.84219490		
<i>e</i>	0.1611791	<i>i</i>	5.08383	-0.07147357	+0.43316514		
<i>P</i>	3.75	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

930713 809	0.8+	0.2+	930726 809	1.2+	0.5-	970901 587	0.2-	0.7-
930713 809	0.3+	0.2-	930726 809	0.1-	0.4-	970901 587	0.7-	0.6-
930713 809	0.0	0.0	970829 587	1.1-	0.3+	970901 587	0.2-	0.3+
930720 809	1.0-	0.5-	970829 587	1.2+	0.7-	970904 587	0.2+	0.3-
930720 809	0.9-	0.3-	970829 587	1.2+	0.4-	970904 587	0.9-	0.4+
930720 809	0.5-	0.5+	970830 587	0.3-	0.3+	970904 587	0.6+	0.8+
930724 809	0.3-	1.5+	970830 587	0.1-	0.1+			
930726 809	0.4+	0.3-	970901 587	0.2+	0.4+			

1993 OX₁₁ = 1997 FU₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17597362	ω	113.83841	+0.61724225	-0.78551535		
<i>a</i>	3.1538256	Ω	297.97189	+0.70229180	+0.57556451		
<i>e</i>	0.1490012	<i>i</i>	2.88623	+0.35468047	+0.22735683		
<i>P</i>	5.60	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

930712 809	0.0	0.4-	930726 809	0.0	2.2+	970403 704	0.1-	0.7+
930712 809	0.1-	1.0-	930726 809	1.7-	3.0+	970403 704	0.6+	0.4+
930712 809	0.8-	1.4-	970311 809	1.1-	1.1+	970405 704	0.7+	0.0
930719 809	1.1-	0.1-	970311 809	0.9-	0.3+	970405 704	0.9+	0.2+
930719 809	0.1+	0.2+	970311 809	1.2-	0.1+	970406 704	0.2-	0.6+
930719 809	0.1+	0.4+	970312 809	1.1+	1.4-	970406 704	0.1+	0.0
930723 809	0.6+	1.9-	970312 809	0.8+	2.1-	970406 704	0.7-	0.5+
930723 809	1.4+	1.6-	970312 809	0.7+	1.4-	970406 704	0.4-	0.2+
930723 809	0.2+	1.9-	970331 704	0.6+	0.4+	970407 704	0.2-	0.5-
930726 809	1.4+	2.5+	970331 704	0.5-	0.8+	970407 704	0.2-	0.1-

1993 RK = 1997 QH₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23740310	ω	11.31949	+0.99540154	+0.07557656		
<i>a</i>	2.5831232	Ω	343.98818	-0.09570006	+0.81126996		
<i>e</i>	0.2669870	<i>i</i>	12.31999	+0.00415609	+0.57976653		
<i>P</i>	4.15	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

930912 400	1.5-	0.5-	930921 400	0.3-	0.2+	970901 566	1.3+	0.8-
930912 400	0.0	1.6+	930921 400	1.3+	1.1-	970901 566	1.2+	0.8-
930913 400	0.3+	0.5-	931006 400	0.6+	0.1+	970903 625	1.5-	1.0+
930913 400	(0.7+	2.6-)	931006 400	0.3-	0.0	970903 625	0.9-	1.5+
930914 098	(1.7+	3.3-)	931009 026	0.1-	0.2-	970904 625	0.8-	0.9+
930915 098	(2.3+	1.3+)	931011 026	0.5+	0.2-	970904 625	0.2-	0.2+
930919 400	0.5-	0.0	970830 566	1.0+	0.8-	970909 625	0.8-	0.4+
930919 400	0.2-	0.3+	970830 566	0.7+	0.9-	970909 625	1.2-	0.1+

930919 026	0.3+	0.2+	970830 566	1.2+	0.6-	970909 625	1.5-	0.6+
930920 026	(2.9+	1.5-)	970901 566	1.3+	0.7-			

1993 RV₇ = 1997 RZ₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23631527	ω	309.53338	+0.60660738	+0.79499211		
<i>a</i>	2.5910444	Ω	357.80030	-0.69489598	+0.52784853		
<i>e</i>	0.0937832	<i>i</i>	5.79804	-0.38619563	+0.29893724		
<i>P</i>	4.17	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

930915 809	0.9+	0.3-	930918 809	(3.1+	0.5-)	970912 557	0.1-	0.8+
930915 809	0.7+	0.0	930918 809	1.5+	0.7-	970912 557	0.4-	0.6+
930915 809	0.6-	0.4+	930918 809	0.3+	1.1-	970914 557	0.8+	0.5-
930917 809	0.0	0.1+	930922 809	1.4+	0.5+	970914 557	0.2+	0.2-
930917 809	1.3-	0.0	930922 809	0.3-	0.2+	970914 557	0.0	0.1-
930917 809	1.0-	0.8+	930922 809	1.6-	0.2+	970914 557	0.4-	0.6-

1993 TS₁ = 1987 PK = 1987 SA₁₈

Id. T. B. Spahr, A. Gnädig, S. Nakano (d)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17813718	ω	172.97341	+0.98404472	-0.16346116		
<i>a</i>	3.1282372	Ω	196.93067	+0.14923805	+0.97332413		
<i>e</i>	0.1027202	<i>i</i>	13.96120	+0.09687100	+0.16099869		
<i>P</i>	5.53	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

870806 010	0.7+	0.2+	931015 400	2.8+	0.1+	931020 400	1.2-	1.5-
870806 010	0.4+	0.2+	931015 400	1.0-	2.5+	931020 400	1.1-	0.8-
870806 010	0.0	0.1-	931016 400	1.3-	1.8-	931111 400	2.0+	0.3+
870916 095	0.9-	0.4-	931016 400	0.3-	0.7+	931111 400	0.2+	0.5+

1993 TP₁₅ = 3133 T-3 = 1997 JO₁₂Id. B. G. Marsden (*MPC* 29920), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18469511	ω	156.38018	+0.22296861	+0.97432979		
<i>a</i>	3.0537427	Ω	126.48912	-0.90043480	+0.21806747		
<i>e</i>	0.1580807	<i>i</i>	2.21606	-0.37349989	+0.05592886		
<i>P</i>	5.34	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

771007 675	(14.8+	2.8+)	771022 675	1.6+	0.2-	970503 809	1.4-	0.7+
771011 675	0.0	1.0-	931009 809	0.3+	0.1+	970503 809	1.1-	0.1-
771011 675	0.4+	0.4-	931009 809	0.2-	0.2+	970503 809	1.4-	0.3+
771012 675	0.4+	0.9-	931009 809	0.8-	0.7+	970504 809	1.1+	1.7+
771012 675	0.1+	1.5-	931011 809	0.1-	1.2-	970504 809	1.3+	2.0+
771016 675	1.3+	1.0+	931011 809	0.8-	0.4-	970504 809	1.2+	3.0+
771016 675	0.7-	0.5-	931011 809	1.2-	0.6-	970507 704	0.1+	1.4-
771017 675	0.1-	1.2+	931020 809	0.5+	0.8+	970507 704	0.1+	1.3-
771017 675	1.4-	0.8+	931020 809	1.4+	1.3+	970507 704	0.2+	1.5-
771021 675	1.0+	0.2-	931020 809	0.0	1.1+	970507 704	0.5+	0.3+
771021 675	0.6-	0.7+	970411 704	0.3+	1.0-	970507 704	0.3-	2.0-
771022 675	1.0-	1.1-	970411 704	0.7-	1.1-			

1993 US = 1993 TD₂₃ = 1953 RG₂ = 1996 FB₂₀Id. S. Nakano (d, *MPC* 24886; unpublished), G. V. Williams (*MPC* 28589)

T. Urata

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	334.25306		(2000.0)	P	Q
<i>n</i>	0.22330604	ω	169.77623	+0.91705041	+0.39870179
<i>a</i>	2.6907235	Ω	166.71930	-0.36811562	+0.85358298
<i>e</i>	0.0950803	<i>i</i>	1.85724	-0.15332787	+0.33531028
<i>P</i>	4.41	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

530906 675	0.1+	0.1-	931022 385	0.5-	0.0	960326 809	1.7+	1.9+
530906 675	0.0	0.5-	931023 385	0.0	0.3+	960326 809	2.2+	0.8+
931009 809	(1.3-	3.1-)	931023 385	1.5+	0.6+	960326 809	1.3+	0.5+
931009 809	(1.5-	3.1-)	931023 385	0.0	1.4+	960326 809	0.1+	0.7+
931009 809	(1.6-	3.1-)	931024 385	0.3-	0.6+	960326 809	0.1+	0.9+
931011 809	(3.3+	3.9+)	931024 385	0.2+	0.4+	960326 809	0.6+	0.9+
931011 809	(1.9+	3.5+)	931024 385	0.3-	0.5+	970902 566	0.3-	0.7+
931011 809	(1.9+	2.8+)	931104 385	0.9-	0.4-	970902 566	0.2-	0.1+
931012 809	0.4-	0.5+	931104 385	0.5-	0.3-	970902 566	0.6-	1.1+
931012 809	0.7-	0.1+	931104 385	0.8-	0.5-	970902 566	0.2-	0.1+
931012 809	0.9-	0.2-	931105 385	1.1-	0.6+	970902 566	0.0	0.5+
931020 809	(2.3+	2.8+)	931105 385	0.5+	0.1+	970902 566	0.1+	0.1+
931020 809	1.4+	1.7+	931105 385	0.4+	0.8+	970903 385	0.1-	0.8-
931020 809	1.9+	2.2+	941228 691	0.9-	0.7+	970903 385	0.9-	0.2-
931022 809	(2.8+	3.4-)	941228 691	0.9-	0.8+	970904 385	0.2-	0.1-
931022 809	0.5-	0.9-	960324 809	0.6-	1.2+	970904 385	0.6+	0.5-
931022 385	0.3+	0.7+	960324 809	0.0	1.2+	970904 385	0.6-	0.5-
931022 385	0.2+	0.9+	960324 809	0.5-	0.9+			

1994 BX = 1997 CL₁₄

Id. G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	283.53743		(2000.0)	P	Q
<i>n</i>	0.27632603	ω	122.51185	-0.94482005	+0.30195295
<i>a</i>	2.3344694	Ω	75.33392	-0.32691373	-0.84418058
<i>e</i>	0.0973433	<i>i</i>	7.54587	-0.02103507	-0.44292614
<i>P</i>	3.57	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

940119 411	0.4-	0.4+	940203 411	0.4-	0.7+	970204 691	0.0	0.1+
940119 411	0.0	0.4+	940213 411	0.0	0.4-	970204 691	0.0	0.1-
940123 411	0.1-	0.5-	940213 411	0.5-	0.1-	970204 691	0.1-	0.1+
940123 411	0.1+	0.4-	940213 411	0.0	0.1+	970210 691	0.0	0.2-
940123 411	0.1+	0.8-	940214 411	0.3+	0.6-	970210 691	0.2+	0.1-
940203 411	1.0+	0.7+	940214 411	0.8-	0.4-			
940203 411	1.3+	0.5+	940214 411	0.6-	0.5+			

1994 LR = 1972 JQ = 1992 AM₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	219.79587		(2000.0)	P	Q
<i>n</i>	0.18252889	ω	129.57691	-0.69336841	+0.68666297
<i>a</i>	3.0778561	Ω	95.02008	-0.70991515	-0.59896749
<i>e</i>	0.0534715	<i>i</i>	12.66927	-0.12353432	-0.41198533
<i>P</i>	5.40	<i>H</i>	11.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

720512 095	0.1+	0.2+	940601 894	0.2-	0.2-	940616 894	0.3+	0.2+
920103 033	0.3+	0.3-	940602 894	0.7-	0.7-	940616 894	0.2+	0.5-
920103 033	0.1-	0.3-	940602 894	0.6+	0.5+			
940601 894	0.7-	0.5+	940616 894	0.2+	0.4-			

1994 PK₄ = 1997 CY₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	306.83029		(2000.0)	P	Q
<i>n</i>	0.21711015	ω	251.39302	-0.65186896	+0.75813299
<i>a</i>	2.7416749	Ω	337.89564	-0.67721123	-0.59228371
<i>e</i>	0.1378016	<i>i</i>	2.64358	-0.34125036	-0.27282664
<i>P</i>	4.54	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

940810 809	0.2-	1.1-	940903 809	(0.1+ 5.2+)	970206 557	0.1-	0.2+
940810 809	0.8-	0.2-	940903 809	(0.5- 5.2+)	970206 557	0.2+	0.1+
940810 809	1.3-	0.7-	940903 809	(0.5- 4.6+)	970206 557	0.2-	0.0
940811 809	1.0-	0.5+	940904 809	0.5- 1.5+	970207 557	0.0	0.1+
940811 809	0.2-	1.0+	940904 809	1.0- 0.7+	970207 557	0.0	0.2+
940811 809	0.2-	0.1+	940904 809	0.3- 1.4+	970207 557	0.2-	0.2+
940812 809	1.1+	0.5+	940905 809	1.3- 2.0-	970207 557	0.1-	0.1+
940812 809	1.0+	0.3+	940905 809	1.5- 2.2-	970207 557	0.1-	0.2-
940812 809	(2.5+ 0.2+)		940905 809	(1.0- 2.6-)	970208 566	0.0	0.3-
940813 809	0.0	0.5-	940906 809	1.7+ 0.1-	970208 566	0.0	0.1-
940813 809	1.1+	0.1+	940906 809	1.6+ 0.5+	970208 566	0.5+	0.4-
940813 809	1.2+	0.1+	940906 809	0.7+ 0.0			

1994 PM₂₁ = 1990 SQ₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	220.85955		(2000.0)	P	Q
<i>n</i>	0.23913652	ω	219.26922	+0.96724468	-0.24780879
<i>a</i>	2.5706253	Ω	154.91451	+0.25304421	+0.92404297
<i>e</i>	0.2489043	<i>i</i>	7.45815	+0.02015852	+0.29109345
<i>P</i>	4.12	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

900918 675	0.6-	1.4+	940813 809	1.7+	1.9+	940906 809	0.8-	0.3-
900918 675	1.6-	1.0+	940813 809	1.1+	1.2+	940906 809	1.7-	0.1-
900920 675	0.3+	1.6+	940813 809	1.4+	1.1+	940911 675	0.4+	1.8-
900920 675	0.3+	0.9+	940905 809	0.7-	1.1-	940911 675	0.3-	1.6-
940812 809	1.0+	0.9+	940905 809	1.4-	0.1-	941001 675	1.9+	3.5-
940812 809	1.0+	1.4+	940905 809	1.8-	0.5-	941001 675	0.3-	2.8-
940812 809	1.1+	1.4+	940906 809	0.7-	0.0			

1994 PH₃₀ = 1981 UK₂₄Id. G. V. Williams (*MPC* 24901)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	52.64128		(2000.0)	P	Q
<i>n</i>	0.21403262	ω	318.37626	-0.80948528	-0.58692757
<i>a</i>	2.7678937	Ω	185.75074	+0.57171141	-0.78180023
<i>e</i>	0.1017844	<i>i</i>	9.07192	+0.13371479	-0.21048617
<i>P</i>	4.60	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

811024 675	0.1+	0.2+	940813 809	0.6+	0.5+	970310 809	0.5+	0.6-
811025 675	0.0	0.8-	940905 809	0.7-	0.4+	970310 809	0.0	0.3+

940812 809	0.9+	0.4-	940905 809	0.5-	0.4-	970310 809	0.1-	0.0
940812 809	1.6+	0.5+	940905 809	1.1-	1.0-	970311 809	0.1+	0.2+
940812 809	0.9+	1.0-	940906 809	1.6-	0.2-	970311 809	0.4-	0.7-
940813 809	1.4+	1.7+	940906 809	1.4-	0.8-	970311 809	0.4-	0.3-
940813 809	1.4+	0.9+	940906 809	1.2-	0.9-			

1994 UO₁ = 1978 UO₈ = 1981 RK₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	305.79584		(2000.0)	P		Q	
<i>n</i>	0.30770741	ω	172.62172	+0.95486374		-0.29681848	
<i>a</i>	2.1729217	Ω	204.65445	+0.27109536		+0.88671907	
<i>e</i>	0.1570396	<i>i</i>	1.59037	+0.12141888		+0.35444051	
<i>P</i>	3.20	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

781029 675	0.2-	0.7+	941027 691	0.2+	0.1-	941128 675	0.1+	0.4+
810905 095	0.0	0.1+	941027 691	0.0	0.2-	941130 675	(3.4+	0.2+)
941025 399	1.1-	0.9-	941107 399	0.2+	0.2+	941130 675	0.5-	1.5-
941025 399	1.9-	0.1-	941107 399	0.1-	0.7+	941203 675	0.3+	0.6+
941026 399	1.4+	0.4+	941110 399	0.8+	0.4-	941203 675	1.4-	0.2+
941026 399	0.3+	0.2+	941110 399	0.8+	0.4-			
941027 691	0.3+	0.3-	941128 675	0.5+	0.4+			

1994 UH₂ = 1988 SR₃ = 1997 JS₁₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	186.52596		(2000.0)	P		Q	
<i>n</i>	0.17582390	ω	310.16242	+0.96620061		-0.25303975	
<i>a</i>	3.1556157	Ω	64.54642	+0.24999102		+0.87303776	
<i>e</i>	0.2013985	<i>i</i>	3.12782	+0.06293546		+0.41686443	
<i>P</i>	5.61	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

880916 095	0.4-	1.8+	941108 894	1.4-	0.4-	970310 809	0.3-	1.6+
880916 095	0.8-	0.6+	941110 894	1.2+	0.4-	970311 809	1.1-	0.5+
941031 399	1.1+	1.0+	941110 894	0.3+	0.1+	970311 809	1.2-	0.4+
941031 399	0.3-	0.1-	941123 399	0.9-	0.9-	970311 809	1.2-	0.1-
941107 399	0.2+	0.4+	941123 399	0.2+	0.7+	970502 910	2.2+	0.4-
941107 399	0.8-	0.4+	970310 809	0.0	1.4+	970502 910	2.0+	0.5-
941108 894	0.0	0.2+	970310 809	0.7-	1.6+	970502 910	2.2+	0.5-

1994 VF₂ = 1970 EE₁ = 1979 HP₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	162.38632		(2000.0)	P		Q	
<i>n</i>	0.23101376	ω	67.49248	-0.53087073		-0.82641748	
<i>a</i>	2.6305354	Ω	55.92699	+0.67019459		-0.54492652	
<i>e</i>	0.2259957	<i>i</i>	13.09315	+0.51866703		-0.14173649	
<i>P</i>	4.27	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

700313 095	0.0	0.1+	941112 894	1.3-	0.7+	941129 894	0.1-	0.8-
790430 095	0.1+	0.1+	941125 894	1.4+	0.4+	941130 675	0.1-	1.1-
941106 675	0.8-	0.2+	941125 894	0.9+	0.8+	941130 675	0.9+	0.4+
941106 675	0.6-	0.4-	941128 691	0.0	0.8+	941130 894	0.3-	0.1+
941108 894	1.1-	0.6-	941128 691	0.5-	0.6+	941130 894	0.0	0.0
941108 894	1.1-	2.1-	941128 691	0.3-	0.7+	941203 675	0.7+	0.0
941110 894	0.4-	0.6+	941128 675	0.2-	0.0	941203 675	0.9+	0.1+

941110 894	0.3-	0.1+	941128 675	1.0+	0.9-
941112 894	0.8+	0.5-	941129 894	0.6+	1.2+

1994 VQ₇ = 1980 RQ₂ = 1980 TC₆ = 1987 SO₂₅ = 1997 ON

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	299.04266		(2000.0)	P		Q	
<i>n</i>	0.28558975	ω	135.72175	+0.99625628		-0.07790313	
<i>a</i>	2.2837101	Ω	228.78473	+0.05877697		+0.92829665	
<i>e</i>	0.1700030	<i>i</i>	2.85570	+0.06339318		+0.36358826	
<i>P</i>	3.45	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

800908 095	0.9+	0.3-	970726 910	1.1+	0.2+	970802 552	0.5-	0.1-
801008 095	1.1-	0.6+	970726 910	1.1+	0.3+	970803 552	0.1-	0.4-
870924 095	0.8+	1.8-	970726 910	1.3+	0.2+	970803 552	0.2-	0.0
941031 399	0.3-	0.1+	970728 910	1.0+	0.6+	970803 552	0.2-	0.5-
941031 399	0.3+	0.2+	970728 910	1.0+	0.4+	970804 552	0.7-	0.4-
941107 399	1.1-	0.6-	970728 910	1.2+	0.3+	970804 552	2.8-	1.4+
941107 399	0.7-	0.5-	970802 552	0.9-	0.3-	970804 552	0.4-	0.2-
941123 399	1.0+	1.3+	970802 552	1.0-	0.7+	970808 552	0.6+	0.3-
941123 399	0.4+	1.0+	970802 552	0.1-	0.2-	970808 552	0.5-	0.5-

1994 YL₁ = 1990 UT = 1996 HR₂₃Id. S. Nakano (*MPC* 24753), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	286.42360		(2000.0)	P		Q	
<i>n</i>	0.27408924	ω	352.54688	+0.67690536		-0.73508954	
<i>a</i>	2.3471529	Ω	54.84192	+0.67770543		+0.60226528	
<i>e</i>	0.1493672	<i>i</i>	2.66265	+0.28725335		+0.31131959	
<i>P</i>	3.60	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

901016 399	(4.0-	0.5-)	950101 411	0.4+	0.8+	960420 809	0.1-	0.3+
901016 399	(2.9-	1.6+)	950105 411	0.1+	0.2-	960420 809	0.1-	0.1-
901016 399	1.3+	2.4+	950105 411	0.7+	0.3+	970813 124	0.4-	0.4+
901019 399	0.7-	2.1-	950105 411	0.6+	0.1-	970813 124	0.5-	0.2+
901022 399	0.7+	3.3-	950110 411	0.3+	0.9-	970813 124	1.6-	0.3-
941231 411	0.2+	2.1+	950110 411	1.0+	0.9-	970831 124	1.2-	2.3+
941231 411	0.6-	0.6+	950201 411	2.0-	0.3-	970831 124	1.7-	0.9-
950101 411	0.0	1.2+	950201 411	0.1-	0.5+	970831 124	3.0+	2.0+
950101 411	0.2-	0.1+	960420 809	0.4+	0.6+	970831 124	0.2+	0.5+

1995 BJ = 1997 MU₁₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	215.29819		(2000.0)	P		Q	
<i>n</i>	0.18366317	ω	120.60513	+0.40891334		-0.90155265	
<i>a</i>	3.0651707	Ω	304.59541	+0.76740238		+0.42355913	
<i>e</i>	0.0966675	<i>i</i>	9.89058	+0.49384559		+0.08832035	
<i>P</i>	5.37	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

950123 411	1.3-	0.2+	950207 411	0.7+	0.3-	970628 704	0.5+	0.0
950123 411	0.2-	0.4+	950207 411	0.2-	0.7-	970629 704	0.2-	0.2+
950125 411	0.1-	0.4-	950217 411	0.3-	0.0	970629 704	0.9+	0.8-
950125 411	0.4-	0.2+	950217 411	0.7-	0.6+	970629 704	0.6+	0.2+
950129 411	1.2+	0.0	970628 704	0.2-	1.3+	970629 704	1.4+	2.0-
950129 411	1.2+	0.0	970628 704	0.7-	0.8+	970629 704	2.3-	0.3+

1995 BF₁ = 1982 BB₁₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	178.40544		(2000.0)	P		Q	
<i>n</i>	0.30178805	ω	274.62770	-0.85263620	+0.51874331		
<i>a</i>	2.2012432	Ω	296.63216	-0.44733526	-0.78661278		
<i>e</i>	0.0779318	<i>i</i>	4.01475	-0.27000495	-0.33488162		
<i>P</i>	3.27	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

820130 675	0.3-	0.5+	950123 894	0.9-	0.4-	950125 372	0.4+	0.1+
820131 675	0.5+	0.0	950123 894	1.2-	1.0+	950125 372	0.6+	0.1-
950106 372	(3.1+	1.3+)	950124 894	0.7+	0.5-	950127 372	0.3+	1.3-
950106 372	1.6+	0.4+	950124 894	0.8-	0.2-	950127 372	0.7-	0.5+

1995 BS₃ = 1977 BJ = 1997 QO₄

Id. G. V. Williams, S. Nakano

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	247.05263		(2000.0)	P		Q	
<i>n</i>	0.22496311	ω	280.08666	+0.08524861	-0.99629563		
<i>a</i>	2.6774941	Ω	165.00904	+0.93039927	+0.07554183		
<i>e</i>	0.0262605	<i>i</i>	2.50391	+0.35649667	+0.04109087		
<i>P</i>	4.38	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

770120 095	0.0	0.0	950210 411	0.1+	0.4+	970830 620	0.3+	0.4-
950131 411	0.2+	0.0	950210 411	0.8-	1.1+	970830 620	0.8-	1.1-
950131 411	0.2-	0.8-	950219 411	0.0	0.8-	970903 620	0.3-	0.2+
950201 411	0.6+	0.0	950219 411	0.1+	0.2-	970903 620	0.2-	0.4+
950201 411	0.2+	0.6-	950301 411	0.7+	0.9-	970904 620	0.1-	0.6+
950208 411	1.0-	1.0+	950301 411	0.1+	0.1+			
950208 411	0.0	0.4+	970829 620	1.2+	0.1+			

1995 CA = 1988 NB₁ = 1993 VZId. G. V. Williams (*MPC* 24906, unpublished)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	24.00609		(2000.0)	P		Q	
<i>n</i>	0.23673628	ω	61.53094	+0.67078851	+0.71114846		
<i>a</i>	2.5879716	Ω	252.21787	-0.73397540	+0.59582499		
<i>e</i>	0.1811433	<i>i</i>	12.77143	-0.10640907	+0.37317618		
<i>P</i>	4.16	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

880713 071	(8.6-	2.7+)	950220 589	0.4-	1.3-	960506 589	0.6-	0.4-
880713 071	0.1-	0.3+	950221 589	0.1-	0.2-	960513 589	0.2-	0.2-
931109 675	0.6+	1.5-	950221 589	0.2+	0.3-	960513 589	0.1+	0.1-
931109 675	0.8+	0.3+	950221 589	0.2+	0.3-	960513 589	0.5-	0.2+
931110 675	1.2-	0.9-	950222 589	0.4+	0.5-	960522 566	0.6+	0.9-
950129 691	0.6-	0.1+	950222 589	0.4-	0.4-	960522 566	0.6+	0.6-
950129 691	0.5-	0.7+	950222 589	0.1+	1.1-	960522 566	0.8+	0.7-
950129 691	0.6-	0.5+	950227 589	0.1-	0.5-	960522 589	0.0	0.6-
950201 589	0.1-	0.3+	950227 589	0.6+	0.6-	960522 589	0.2+	0.6-
950201 589	0.4-	0.2-	950228 589	0.6+	0.2-	960522 589	0.1-	0.5-
950201 589	0.6-	0.3-	950228 589	0.3-	0.8-	960616 589	0.1-	0.3-
950201 589	0.5-	0.3+	950321 589	0.9+	0.7+	960616 589	0.8-	0.7-
950202 589	0.4-	0.4+	950321 589	1.3+	1.5+	970827 589	0.5+	0.3+
950202 589	0.8-	1.1+	950328 589	0.4+	1.2+	970828 589	0.3+	0.3-

950202 589	0.3+	0.1+	950328 589	0.6+	0.4+	970828 589	0.0	0.3-
950203 589	0.6-	0.3-	950402 589	2.6+	0.3+	970829 589	1.1-	0.3-
950203 589	0.7-	0.2-	950402 589	0.7+	0.5+	970829 589	0.2+	0.3-
950206 589	0.5-	0.6-	950402 589	0.2-	0.9+	970829 589	1.0+	0.4-
950206 589	0.1-	0.2-	960415 589	0.1-	0.2+	970905 589	0.2-	0.1+
950220 589	0.1-	0.6-	960415 589	0.4-	0.3+	970905 589	0.4-	0.5-
950220 589	0.1+	0.5-	960506 589	0.5-	0.5+	970905 589	0.0	0.4-

1995 CP₃ = 1997 RE₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	41.22508		(2000.0)	P		Q	
<i>n</i>	0.23488486	ω	124.56537	+0.50251715	+0.86455874		
<i>a</i>	2.6015531	Ω	175.59608	-0.80868032	+0.47159734		
<i>e</i>	0.1752423	<i>i</i>	2.86153	-0.30579838	+0.17359184		
<i>P</i>	4.20	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

950201 691	0.1+	0.3+	950204 691	0.1+	0.3+	970904 910	0.3-	0.1+
950201 691	0.1-	0.7-	950204 691	0.1+	0.2-	970904 910	0.4+	0.2+
950201 691	0.2+	0.1+	950204 691	0.1+	0.0	970905 910	0.1+	0.2-
950202 691	0.3-	0.0	950207 691	0.1-	0.3+	970905 910	0.0	0.1+
950202 691	0.1-	0.1+	950207 691	0.1+	0.3-	970905 910	0.1-	0.1+
950202 691	0.1-	0.0	970904 910	0.1-	0.3-			

1995 DG₁

Id. A. Nakamura (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	212.09556		(2000.0)	P		Q	
<i>n</i>	0.21481980	ω	271.97718	-0.54999438	-0.83425148		
<i>a</i>	2.7611279	Ω	211.49010	+0.79294335	-0.50690740		
<i>e</i>	0.1113177	<i>i</i>	4.29540	+0.26219654	-0.21695473		
<i>P</i>	4.59	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

950221 360	0.2-	0.1-	950227 360	0.2+	0.2-	970904 360	0.8+	0.7+
950221 360	0.6-	0.1+	950306 360	0.5+	0.0	970909 360	0.6-	0.5-
950221 360	0.1-	0.4+	950306 360	0.4+	0.2-	970909 360	0.4+	0.3-
950224 360	0.2+	0.6-	950403 360	0.4-	0.0	970909 360	0.1-	0.2-
950224 360	0.1-	0.1-	950403 360	0.1+	0.1+	970910 360	0.3-	0.1-
950224 360	0.3-	1.4+	950403 360	0.2-	0.1+	970910 360	0.1-	0.3+
950227 360	0.2+	0.5-	970904 360	0.5-	0.3-	970910 360	0.2+	0.4+
950227 360	0.2+	0.2-	970904 360	0.2+	0.0			

1995 EF

Id. T. Urata (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	134.49122		(2000.0)	P		Q	
<i>n</i>	0.21010475	ω	56.32486	-0.99015213	+0.07720440		
<i>a</i>	2.8022839	Ω	127.82647	-0.11021390	-0.94425606		
<i>e</i>	0.1592815	<i>i</i>	8.50237	+0.08632294	-0.32003122		
<i>P</i>	4.69	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

941202 691	0.3+	0.2-	950301 887	0.2+	0.0	950328 887	0.1-	0.7+
941202 691	0.5+	0.6-	950305 887	0.0	0.3-	950328 887	0.1-	0.2-
941202 691	0.4-	0.1-	950305 887	0.4+	0.3-	970828 385	0.2-	0.6+
941228 691	0.2-	0.5+	950305 887	0.2+	0.1+	970828 385	1.0+	0.6+

1997 SEPT.16

M.P.C. 30665

941228	691	0.6−	0.4+	950308	887	0.7+	0.1−	970904	385	0.2−	1.1−
941228	691	0.6−	0.3+	950308	887	0.3−	0.3−	970904	385	0.7−	0.1−
950301	887	0.3−	0.2+	950308	887	0.1+	0.0				
950301	887	0.0	0.0	950308	887	0.4+	0.1−				

1995 EY₇ = 1997 QQ

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	240.29291		(2000.0)	P	Q
<i>n</i>	0.20927542	ω	253.60114	−0.17629704	−0.98230650
<i>a</i>	2.8096824	Ω	206.80159	+0.94812733	−0.15220923
<i>e</i>	0.0909767	<i>i</i>	8.05635	+0.26452583	−0.10911599
<i>P</i>	4.71	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

950305	408	(0.8− 2.7+)	950404	409	0.7− 1.4+	970826	557	0.0	0.0
950305	408	(1.1+ 3.1−)	950404	409	0.3− 1.3−	970826	557	0.1+	0.2−
950307	408	(3.0+ 1.1−)	970826	557	0.0 0.1+	970826	557	0.2+	0.0
950307	408	0.3− 0.0	970826	557	0.0 0.0	970827	557	0.1−	0.2+
950328	409	0.9+ 0.3−	970826	557	0.1− 0.0				
950328	409	0.4+ 0.2+	970826	557	0.0 0.0				

1995 GO₇ = 1976 YD₆ = 1986 TG₁₇ = 1989 EX₁₀ = 1991 PZ₂₁

Id. T. B. Spahr, A. Gnädig

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	159.53543		(2000.0)	P	Q
<i>n</i>	0.17650715	ω	130.67418	−0.99682027	−0.07614598
<i>a</i>	3.1474670	Ω	44.97335	+0.05933687	−0.90599123
<i>e</i>	0.1264007	<i>i</i>	1.90350	+0.05318356	−0.41639126
<i>P</i>	5.58	<i>H</i>	12.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

761218	095	0.1+	0.9−	910810	675	0.6−	0.8−	950420	399	0.2−	0.2+
861010	095	0.2+	0.0	910810	675	0.6+	0.2+	950420	399	0.1−	0.3+
890305	033	0.0	0.1+	950404	399	(3.0+ 0.8+)		950427	399	1.1+	2.0−
890305	033	0.1−	0.1+	950404	399	0.5+	1.6+	950427	399	1.5−	1.0−

1995 HE = 1960 WB₁

Id. A. Nakamura (1997 observations), S. Nakano

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	269.14456		(2000.0)	P	Q
<i>n</i>	0.21029469	ω	58.31957	+0.06289783	−0.99737418
<i>a</i>	2.8005963	Ω	28.14110	+0.88797140	+0.03950723
<i>e</i>	0.1778300	<i>i</i>	4.36503	+0.45557728	+0.06069526
<i>P</i>	4.69	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

601124	033	0.1+	0.4−	950505	360	0.0	0.3−	950527	360	0.0	0.4+
950420	360	0.6+	0.4−	950505	360	0.1+	0.3+	950527	360	0.4+	0.3+
950420	360	0.3+	0.4−	950505	360	0.1+	0.0	950531	360	0.6−	0.1+
950420	360	0.3+	0.7−	950518	360	0.6−	0.7+	950531	360	0.3−	0.6−
950423	360	0.5+	0.1+	950518	360	1.0−	0.5+	950531	360	1.0−	0.9−
950423	360	0.5+	0.1+	950518	360	0.6−	0.0	970831	360	0.2+	0.3−
950423	360	0.6+	0.0	950523	360	0.5−	0.5+	970831	360	0.2−	0.3−
950426	360	0.1+	0.2−	950523	360	0.2−	0.2+	970831	360	0.0	0.1−
950426	360	0.6+	0.3−	950523	360	0.3−	0.7+	970904	360	0.0	0.3+
950426	360	0.4+	0.2+	950527	360	0.3−	0.7−	970904	360	0.1−	0.3+

1995 TC₈ = 1971 UA₄ = 1992 YQ₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	190.38166		(2000.0)	P	Q
<i>n</i>	0.28721727	ω	234.41976	+0.98527897	+0.14866677
<i>a</i>	2.2750748	Ω	116.89560	−0.10943435	+0.92778206
<i>e</i>	0.1613137	<i>i</i>	5.43047	−0.13133722	+0.34222601
<i>P</i>	3.43	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

711022	805	0.6−	1.7+	921230	033	0.6−	0.5+	951019	894	0.1−	0.5−
711022	805	0.5−	0.7+	930101	033	0.3+	0.6−	951019	894	0.3−	0.2−
711022	805	0.6+	1.1−	951002	894	0.2+	0.7+	951020	894	0.4+	1.1−
921229	033	0.2+	0.2+	951002	894	0.8−	0.7+	951020	894	1.1+	1.0−

1995 US = 1974 QC₁ = 1974 SL₃ = 1977 DS = 1979 RL = 1987 AS

Id. K. Lawrence (1992 observations), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	171.77447		(2000.0)	P	Q
<i>n</i>	0.19205819	ω	353.98757	+0.79213298	+0.57878268
<i>a</i>	2.9751863	Ω	328.03805	−0.54362899	+0.52474396
<i>e</i>	0.1175003	<i>i</i>	21.46886	−0.27747587	+0.62422302
<i>P</i>	5.13	<i>H</i>	12.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

740821	095	(2.9+	6.0+)	770219	381	0.5+	0.1−	920110	675	0.1+	0.9−
740922	095	0.3+	0.9−	790914	095	(12.5+	17.7+)	951019	693	0.0	1.5+
770213	675	0.0	1.0−	870108	010	0.7+	2.2+	951019	693	0.1−	1.7+
770214	675	0.2−	0.8−	870108	010	0.3+	1.2+	951020	693	0.3+	1.1−
770218	381	1.3+	0.3+	870108	010	0.8−	0.8+	951028	658	0.1−	0.3−
770218	381	0.2+	0.5+	920109	675	0.3−	1.7−	951028	658	0.0	0.3−
770219	381	0.5−	0.1−	920109	675	2.0−	0.5−	951028	658	0.0	0.3−

1995 UU₃ = 1997 EG₅₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	103.56706		(2000.0)	P	Q
<i>n</i>	0.22367487	ω	48.41366	+0.21298672	−0.97644263
<i>a</i>	2.6877647	Ω	29.34251	+0.87411975	+0.17461188
<i>e</i>	0.2005801	<i>i</i>	4.04771	+0.43652183	+0.12676942
<i>P</i>	4.41	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

950829	801	0.3+	0.0	951027	411	0.7+	0.3+	951128	691	0.4−	0.3−
950829	801	0.2+	0.0	951101	411	0.6+	0.5+	951128	691	1.0−	0.4−
950903	327	1.7−	0.5+	951101	411	0.6+	0.2−	970310	809	0.1+	0.6+
950903	327	0.9−	0.6+	951109	411	1.0+	0.7−	970310	809	0.4+	0.1−
950903	327	0.8−	0.3+	951109	411	0.3+	0.6+	970310	809	0.1+	0.0
951020	411	0.3+	0.7+	951116	691	0.8−	0.2+	970311	809	0.4+	0.7+
951020	411	0.5−	0.9+	951116	691	0.7−	0.1+	970311	809	0.5−	0.1−
951025	411	0.6+	0.6+	951118	411	0.8−	1.2−	970311	809	0.3+	0.6+
951025	411	0.8+	0.6+	951118	411	0.9+	1.5−				
951027	411	0.1+	0.1+	951128	691	0.4−	0.1−				

1995 UD₄ = 1997 EA₅₉

Id. M. W. Buie, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	199.89773	(2000.0)	Williams	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.31049063	ω	342.53676	+0.98061071 −0.19054753
<i>a</i>	2.1599169	Ω	28.57019	+0.18927713 +0.86046000
<i>e</i>	0.1646109	<i>i</i>	5.49116	+0.05076231 +0.47254654
<i>P</i>	3.17	<i>H</i>	14.5	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

951020 411	0.0	0.3−	951109 411	0.1−	0.4−	970311 809	0.6+	0.1+
951020 411	0.0	0.4−	951109 411	0.1−	0.0	970311 809	0.9+	0.8+
951025 411	0.1−	0.3+	951118 411	0.2+	0.1−	970313 688	0.9−	0.3+
951025 411	0.1−	0.7+	951118 411	0.2+	0.0	970313 688	0.6−	0.0
951027 411	0.2−	0.2+	970310 809	1.4+	0.8−	970313 688	1.6−	0.2+
951027 411	0.2−	0.4+	970310 809	0.2+	1.0−	970313 688	1.1−	0.6+
951101 411	0.2+	0.2−	970310 809	0.5+	0.6−			
951101 411	0.1+	0.1−	970311 809	0.8+	0.7+			

1995 UQ₅ = 1979 RO₁ = 1990 TF₁₅

Id. S. Nakano, G. V. Williams, A. Gnädig

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	161.03686	(2000.0)	Williams	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.18504320	ω	333.86767	+0.38736455 +0.91381942
<i>a</i>	3.0499119	Ω	318.61254	−0.81023039 +0.27430580
<i>e</i>	0.1759408	<i>i</i>	10.63315	−0.43985841 +0.29948356
<i>P</i>	5.33	<i>H</i>	12.0	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

790914 095	1.3+	2.2−	951023 905	0.3+	0.2+	951117 385	0.2+	0.7+
901013 095	1.6+	1.3−	951023 905	0.0	0.9+	951117 385	0.2−	0.7+
901013 095	0.0	1.5−	951026 905	0.8−	0.5+	951217 385	1.8−	1.6+
951020 905	0.3−	0.0	951026 905	1.6−	0.1+	951217 385	1.5−	0.9+
951020 905	0.5+	0.2+	951117 385	1.2+	0.0			

1995 UP₇ = 1997 EG₅₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	123.94474	(2000.0)	Spahr	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.24064759	ω	250.70717	+0.39756050 −0.91754981
<i>a</i>	2.5598531	Ω	175.84749	+0.87369249 +0.37622921
<i>e</i>	0.1148899	<i>i</i>	5.49010	+0.28036954 +0.12866208
<i>P</i>	4.10	<i>H</i>	13.5	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

951027 399	0.9+	0.5−	951117 399	0.6+	0.2+	970309 809	2.3+	0.9+
951027 399	1.5+	0.0	951117 399	0.3+	0.1−	970309 809	2.5+	0.6+
951028 399	0.4−	0.1−	970308 809	2.4−	0.6−	970413 691	0.3+	0.4−
951028 399	0.8−	0.3−	970308 809	2.3−	0.7−	970413 691	0.2−	0.3−
951116 399	0.4−	0.2−	970308 809	3.0−	0.7−	970413 691	0.2−	0.5−
951116 399	1.5−	0.7+	970309 809	2.8+	1.6+			

1995 UN₈ = 1997 CX₂₉

Id. M. W. Buie, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	226.10406	(2000.0)	Williams	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.28253247	ω	290.52010	+0.75283707 +0.65576471
<i>a</i>	2.3001552	Ω	28.59169	−0.55116831 +0.67511516
<i>e</i>	0.2074459	<i>i</i>	6.79808	−0.35979140 +0.33792331
<i>P</i>	3.49	<i>H</i>	14.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

951027 411	0.1−	0.7+	951111 411	0.4−	0.2+	970203 691	0.3−	0.1+
951027 411	0.4+	0.8+	951111 411	0.0	1.0+	970203 691	0.4−	0.2−
951101 411	0.0	0.1−	951118 411	0.5+	0.1+	970203 691	0.2−	0.0
951101 411	0.4+	0.3−	951118 411	0.3−	0.9−	970313 688	0.4+	0.1−
951102 411	0.0	0.3−	951124 411	0.3−	0.3+	970313 688	0.3+	0.0
951102 411	0.0	0.4+	951124 411	0.0	0.1+	970313 688	0.0	0.5+
951103 411	0.8+	0.7−	951125 411	0.4−	0.0	970313 688	0.2+	0.1−
951103 411	0.5−	0.4−	951125 411	0.1−	0.7−			

1995 VC₁ = 1973 UQ₃ = 1997 FF₅

Id. S. Nakano, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	126.57336	(2000.0)	Spahr	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.22587398	ω	12.75065	+0.66002678 −0.73964572
<i>a</i>	2.6702909	Ω	36.19649	+0.66822794 +0.49805314
<i>e</i>	0.2280835	<i>i</i>	12.86470	+0.34327261 +0.45262266
<i>P</i>	4.36	<i>H</i>	13.5	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

731029 095	1.1+	1.6−	951025 114	(4.4−	0.9+)	951129 358	0.3−	0.2−
951017 114	(4.4−	1.6+)	951025 114	(3.9−	0.7+)	951129 358	0.5+	0.5+
951017 114	2.2−	0.5−	951027 114	(4.7−	0.5−)	951212 358	0.7+	0.7−
951018 114	(2.7−	0.5+)	951112 358	0.9+	0.4+	951212 358	0.5+	0.8−
951018 114	(3.1−	1.2+)	951112 358	0.2+	0.4+	951220 358	0.4−	0.9−
951019 114	2.5−	0.4−	951116 358	0.1−	0.6+	951220 358	0.7+	0.3+
951023 033	0.2−	0.1−	951116 358	0.1−	0.3+	970318 599	0.1−	0.2+
951023 033	0.3+	0.4+	951121 358	1.5+	0.4+	970318 599	0.1+	0.3−
951024 033	0.3−	0.9+	951121 358	0.2+	0.6+			

1995 WF₅ = 1991 YRId. S. Nakano (*MPC* 26410)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	110.90359	(2000.0)	Williams	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.22901973	ω	287.79080	+0.21132685 −0.97666636
<i>a</i>	2.6457824	Ω	149.92743	+0.92319561 +0.18659498
<i>e</i>	0.1537958	<i>i</i>	4.37888	+0.32101532 +0.10632563
<i>P</i>	4.30	<i>H</i>	13.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

911230 511	0.6+	1.1+	951121 400	1.0−	0.2+	970310 809	0.1+	0.1−
911230 511	0.9+	1.0−	951121 400	0.6−	0.9−	970311 809	0.0	0.0
920102 511	0.5−	0.5+	951125 400	0.8+	0.2+	970311 809	0.1−	0.5+
920102 511	1.1−	0.7−	951125 400	0.4+	0.3−	970311 809	0.1+	0.1−
951118 400	0.3+	1.2+	970310 809	0.4−	0.0			
951118 400	0.1+	0.3−	970310 809	0.2+	0.2−			

1995 YB₁ = 1980 DS₃ = 1994 UE₁₃

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	10.54672	(2000.0)	Spahr	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.17903655	ω	79.24049	−0.93327836 +0.34841124
<i>a</i>	3.1177521	Ω	121.09891	−0.35626816 −0.86737841
<i>e</i>	0.0941522	<i>i</i>	5.84387	−0.04543675 −0.35533688
<i>P</i>	5.51	<i>H</i>	12.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

800220 095	0.0	0.0	951222 411	0.0	0.1+	960110 411	1.1+	1.2+
941031 691	0.1-	0.2-	951222 411	0.4-	0.9-	960110 411	0.4+	0.3-
941031 691	0.1+	0.2+	951229 411	0.2-	0.4+	960124 411	0.8+	0.2+
941031 691	0.0	0.0	951229 411	1.0+	0.3+	960124 411	1.0-	0.7-
951221 411	0.5+	0.6-	951231 411	0.7-	0.5+			
951221 411	0.0	0.6-	951231 411	1.5-	0.3+			

1995 YY₁ = 1976 HC

Id. E. Bowell (1994 observations), T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Spahr		
<i>M</i>	21.73869	(2000.0)	P	Q	
<i>n</i>	0.28710393	ω 138.22025	-0.43943110	+0.89219049	
<i>a</i>	2.2756735	Ω 105.47096	-0.85019378	-0.37558181	
<i>e</i>	0.1295190	<i>i</i> 6.21794	-0.28994975	-0.25086736	
<i>P</i>	3.43	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

760423 095	0.3-	0.7-	951222 411	0.4+	1.8-	951231 411	1.5-	1.2-
940910 675	0.4+	0.2-	951222 411	0.2+	0.9-	951231 411	0.4+	0.1-
940910 675	0.2-	0.3-	951226 411	0.6-	0.5+	960110 411	0.2+	0.6+
951221 411	0.6+	1.2+	951226 411	1.2+	0.4+	960110 411	0.6+	0.1+
951221 411	0.8-	0.7-	951227 411	0.9-	0.5-	960124 411	0.5+	1.5+
951222 411	0.7+	0.1+	951227 411	2.1-	0.4-	960124 411	0.8+	0.9+

1995 YY₂ = 1955 UZ₁ = 1989 WH₆

Id. S. Nakano, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Spahr		
<i>M</i>	164.86947	(2000.0)	P	Q	
<i>n</i>	0.17677100	ω 269.27260	+0.96866788	-0.16663176	
<i>a</i>	3.1443342	Ω 100.30661	+0.22422958	+0.90559755	
<i>e</i>	0.2380109	<i>i</i> 10.78851	-0.10678779	+0.39003453	
<i>P</i>	5.58	<i>H</i> 12.0	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

551023 675	0.1+	0.2+	951227 411	0.4-	0.0	960110 411	0.2+	1.1-
551023 675	0.1-	0.3-	951227 411	0.8+	1.0-	960125 411	0.5-	1.6+
891124 095	0.1-	0.5+	951230 411	0.2+	0.3-	960125 411	0.7-	0.7+
951226 411	0.3+	0.7-	951230 411	0.4+	0.0			
951226 411	0.6-	0.2-	960110 411	0.1+	0.7+			

1996 BE₁ = 1997 GL₄₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Spahr		
<i>M</i>	125.94386	(2000.0)	P	Q	
<i>n</i>	0.20507249	ω 6.21336	+0.05669000	-0.99473390	
<i>a</i>	2.8479418	Ω 80.55980	+0.91223979	+0.01685444	
<i>e</i>	0.1330935	<i>i</i> 4.96562	+0.40571519	+0.10109597	
<i>P</i>	4.81	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

960118 411	0.4+	0.3-	960127 411	0.2-	0.7+	970402 704	0.2+	0.0
960118 411	0.0	0.2-	960127 411	0.2+	0.5+	970406 704	0.9+	0.5+
960123 411	0.2+	0.2+	970402 704	1.5-	0.3-	970406 704	0.8+	0.2-
960123 411	0.3-	0.5-	970402 704	0.3-	0.3+			
960123 411	0.2-	0.3-	970402 704	0.2-	0.4-			

1996 BE₂ = 1979 BK₁ = 1981 WS = 1986 EQ₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Spahr		
<i>M</i>	100.44959	(2000.0)	P	Q	
<i>n</i>	0.29031645	ω 86.23600	-0.98221718	-0.15164746	
<i>a</i>	2.2588547	Ω 85.01812	+0.09491116	-0.90974778	
<i>e</i>	0.0974721	<i>i</i> 6.37934	+0.16199160	-0.38647383	
<i>P</i>	3.39	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

790124 095	0.5-	6.8-	860306 688	0.0	1.5-	960121 399	1.5-	1.6+
811124 688	0.3+	0.6-	960118 399	0.4-	1.9+	960210 399	1.9+	0.8+
811124 688	0.5+	0.9-	960118 399	0.6-	2.7+	960210 399	2.5+	1.4+
860306 688	0.8-	1.5-	960121 399	0.8-	1.7+			

1996 CX₂

Id. V. S. Casulli (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams		
<i>M</i>	33.16946	(2000.0)	P	Q	
<i>n</i>	0.29694467	ω 11.85266	-0.21846225	+0.97149556	
<i>a</i>	2.2251145	Ω 245.58484	-0.90337599	-0.23700369	
<i>e</i>	0.0981951	<i>i</i> 5.80106	-0.36903396	+0.00506278	
<i>P</i>	3.32	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

960115 691	0.1-	0.4+	960216 596	0.0	0.1-	960227 596	0.4-	0.8+
960115 691	0.0	0.1+	960222 596	0.9+	0.9-	970729 596	0.6+	0.1-
960115 691	0.0	0.2+	960222 596	0.7+	0.1-	970729 596	0.2+	0.4+
960129 691	0.5-	0.2+	960222 596	0.5-	0.3-	970729 596	0.7+	0.2-
960129 691	0.4-	0.2+	960222 596	0.1-	0.5+	970812 596	0.1+	0.1-
960129 691	0.2-	0.2-	960224 596	1.2+	0.3-	970812 596	0.7-	0.4+
960215 596	0.1-	0.4-	960224 596	1.1-	0.3+	970827 596	1.2-	0.7+
960215 596	0.2-	0.7-	960224 596	0.2+	0.1+	970827 596	0.2-	1.0+
960215 596	0.4-	0.2-	960224 596	0.1+	0.5-	970827 596	0.3-	0.8+
960216 596	0.3+	0.3-	960227 596	0.2-	1.0+	970828 596	0.5+	0.6-
960216 596	0.2+	0.5-	960227 596	0.8+	1.2+	970828 596	0.1+	1.9-

1996 CO₇

Id. E. Bowell (1989 observations), B. A. Skiff (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams		
<i>M</i>	265.35552	(2000.0)	P	Q	
<i>n</i>	0.20335302	ω 274.55874	+0.94373162	+0.32731876	
<i>a</i>	2.8639733	Ω 66.34102	-0.27927433	+0.86530235	
<i>e</i>	0.0695703	<i>i</i> 2.95730	-0.17713409	+0.37962385	
<i>P</i>	4.85	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

891104 675	0.1-	1.5-	960214 098	0.6+	0.7-	960320 098	0.3-	0.6-
891104 675	0.4+	0.4+	960214 098	0.3+	0.3-	960320 098	(4.1-	0.3-)
960117 098	0.0	1.0+	960215 098	1.4+	1.4+	970731 688	0.1-	0.1-
960117 098	0.2+	0.7-	960215 098	0.2+	0.2+	970731 688	0.1+	0.4-
960118 098	1.2-	0.8-	960224 098	(2.9-	0.4+)	970801 688	0.2-	0.5-
960118 098	(2.5-	2.3-)	960224 098	0.1-	0.2-	970801 688	0.3-	0.7-
960120 098	1.3-	0.7+	960314 098	0.3+	0.1+			
960120 098	1.0-	0.7-	960314 098	0.6+	0.3+			

1996 DC = 1980 TF₂ = 1997 QZ₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	74.79266		(2000.0)		P		Q
<i>n</i>	0.28815869	ω	96.07151	−0.63146927			+0.77103490
<i>a</i>	2.2701170	Ω	134.42055	−0.74913724			−0.57929903
<i>e</i>	0.1010506	<i>i</i>	6.60633	−0.20009987			−0.26441978
<i>P</i>	3.42	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

801005	809	0.1+	0.2−	960228	966	0.4+	0.3+	960322	411	0.7+	0.8−
960218	411	0.4+	0.7−	960229	966	0.5−	0.4−	960322	411	0.6+	0.4−
960218	411	0.2−	0.1−	960229	966	0.5−	0.1−	970824	905	1.5+	0.4−
960219	411	0.8−	0.5+	960229	966	0.0	0.3+	970824	905	0.7−	0.1+
960219	411	0.3−	0.5+	960229	966	0.3−	0.4−	970827	905	0.8−	0.4−
960227	411	0.3+	0.1−	960309	411	0.1+	0.1+	970827	905	0.1+	0.5+
960227	411	0.2+	0.0	960309	411	0.1−	0.7+				

1996 DK₂ = 1992 HH₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	60.16760		(2000.0)		P		Q
<i>n</i>	0.23963106	ω	103.88102	−0.56202793			+0.82426159
<i>a</i>	2.5670873	Ω	131.70962	−0.78995703			−0.51031199
<i>e</i>	0.1960802	<i>i</i>	5.27892	−0.24513772			−0.24530494
<i>P</i>	4.11	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

920430	033	0.0	0.6+	960223	411	0.6+	0.8+	960310	411	0.5−	0.0
920430	033	0.1+	0.6−	960223	411	0.2+	0.2−	960310	411	0.8−	0.0
920504	033	0.0	0.3+	960227	411	0.8−	0.8+	960310	411	0.4−	0.8+
960126	691	0.4−	0.2−	960227	411	0.7+	0.2−	960322	411	0.4+	1.5−
960126	691	0.2−	0.1−	960228	411	1.2+	0.1+	960322	411	0.4−	0.7−
960126	691	0.1−	0.0	960228	411	0.3+	0.1+				

1996 ER = 1980 FS₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	12.10868		(2000.0)		P		Q
<i>n</i>	0.30776463	ω	133.25880	+0.62443776			+0.78104637
<i>a</i>	2.1726524	Ω	175.36754	−0.73832192			+0.59301024
<i>e</i>	0.1197618	<i>i</i>	4.71396	−0.25486904			+0.19571773
<i>P</i>	3.20	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

800316	809	0.3−	0.4+	960314	817	0.1−	0.2−	960316	709	0.2+	0.1+
800316	809	0.0	0.4+	960314	817	0.3−	0.2−	960316	709	0.2+	0.2+
800316	809	0.4−	0.1−	960314	817	0.4−	0.0	960317	817	0.8+	0.1+
800316	809	0.2+	0.4−	960314	817	0.2−	0.0	960317	817	0.5+	0.2+
800317	809	0.3+	0.1+	960314	817	0.0	0.2−	960317	817	0.1+	0.6+
800317	809	0.3−	0.6+	960316	709	0.2+	0.2+	960318	566	0.3−	0.5−
800317	809	0.6−	0.1−	960316	709	0.3+	0.1−	960318	566	0.8−	0.0
800317	809	1.1+	0.9−	960316	709	0.4+	0.0	960318	566	0.6−	0.4−

1996 EK₂ = 1980 FN₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	16.51991		(2000.0)		P		Q
<i>n</i>	0.30821540	ω	119.47778	+0.67730697			+0.73560959
<i>a</i>	2.1705335	Ω	193.17569	−0.69134685			+0.63101842
<i>e</i>	0.1891278	<i>i</i>	2.90884	−0.25158458			+0.24636211
<i>P</i>	3.20	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

800316	809	0.6−	1.1+	800317	809	0.0	0.7−	960320	566	0.1+	0.2−
800316	809	0.8+	0.4+	960315	566	0.2−	0.4−	960320	566	0.2−	0.4−
800316	809	1.2−	0.8+	960315	566	0.4+	0.6−	960320	566	0.3+	0.0
800316	809	0.4−	0.2+	960315	566	0.3−	0.7+	960321	566	0.5−	0.3+
800317	809	0.1−	0.4−	960320	566	0.4−	0.2−	960321	566	0.2+	0.4+
800317	809	0.8+	0.4−	960320	566	0.3+	0.1+	960321	566	0.3−	0.6+
800317	809	0.7+	0.9−	960320	566	0.5+	0.4−				

1996 FQ₄ = 1997 PE₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	174.13111		(2000.0)		P		Q
<i>n</i>	0.28471437	ω	318.39732	−0.66962095			−0.74266407
<i>a</i>	2.2883887	Ω	173.62713	+0.69823555			−0.63298664
<i>e</i>	0.0766721	<i>i</i>	3.92943	+0.25313020			−0.21858178
<i>P</i>	3.46	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

960318	566	0.6−	0.9+	960419	610	0.3+	0.2+	970805	620	0.5−	1.9+
960318	566	0.8−	0.9+	960420	610	0.0	0.3−	970805	620	0.2−	0.9−
960318	566	0.5−	1.0+	960420	610	0.0	0.1+	970811	620	0.7+	0.3−
960326	566	0.4+	0.6−	960420	610	0.0	0.8+	970811	620	0.9+	0.1−
960326	566	0.6+	0.5−	960420	610	0.7+	0.9−	970812	620	1.2+	0.2+
960326	566	0.4+	0.7−	960420	610	0.5−	0.4−	970829	620	0.8−	0.3−
960419	610	0.0	0.1+	960420	610	1.2−	0.3−	970829	620	0.7−	0.2−
960419	610	0.1+	0.2+	960421	610	0.3+	0.1−	970829	620	0.9−	0.1−
960419	610	0.1+	0.1+	960421	610	0.3+	0.2−				
960419	610	0.3+	0.2+	960421	610	0.1−	0.3−				

1996 GF₂₀ = 1997 RY₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	155.92028		(2000.0)		P		Q
<i>n</i>	0.28434129	ω	315.68678	−0.95932715			−0.28096552
<i>a</i>	2.2903900	Ω	208.02949	+0.27248732			−0.89627747
<i>e</i>	0.1243035	<i>i</i>	3.34051	+0.07377047			−0.34314001
<i>P</i>	3.47	<i>H</i>	17.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

960324	809	1.7+	0.2+	960415	809	0.6−	1.7+	970908	910	0.2+	0.2−
960324	809	0.8+	0.6+	960415	809	0.7−	2.3+	970908	910	0.0	0.6−
960324	809	0.6+	0.2−	960415	809	0.1−	2.0+	970908	910	0.0	0.0
960327	809	2.4−	0.1−	960417	809	0.5+	1.1−	970908	910	0.2+	0.2+
960327	809	1.0−	0.8−	960417	809	0.4+	1.9−	970908	910	0.1−	0.3+
960327	809	0.1+	0.9−	960417	809	0.8+	1.9−	970908	910	0.2−	0.2+

1996 HC₁

Id. H. Abe (1997 observations)

1997 SEPT.16

M.P.C. 30669

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	157.16696		(2000.0)	P	Q
<i>n</i>	0.23557189	ω	85.61995	-0.76817203	-0.60832201
<i>a</i>	2.5964925	Ω	56.77840	+0.45068691	-0.73525439
<i>e</i>	0.1121055	<i>i</i>	13.80655	+0.45474503	-0.29890688
<i>P</i>	4.18	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

960421 367	0.2+	0.3-	960422 355	0.1-	0.6+	960605 367	0.4-	1.4+
960421 367	0.2+	0.1-	960422 355	0.2-	0.5-	960608 809	0.7+	0.4-
960421 353	1.3-	0.5-	960422 900	0.7-	0.3-	960608 809	0.2-	1.5-
960421 353	0.1+	0.3-	960422 900	0.2-	0.2+	960608 809	0.5-	0.4-
960421 353	0.4+	0.2+	960426 367	0.3+	0.7+	960610 809	0.5+	1.0-
960422 353	1.0+	0.1+	960426 367	0.2+	0.5+	960610 809	0.6-	0.7-
960422 353	0.6-	0.1+	960506 367	0.1-	0.3+	960610 809	0.2-	0.4+
960422 353	0.1-	1.1-	960506 367	0.1+	0.1+	970826 367	0.0	0.2-
960422 367	0.1-	0.1+	960509 900	0.0	0.4+	970826 367	1.0+	0.3-
960422 367	0.2-	0.1+	960509 900	0.3+	0.5+	970827 367	1.2-	0.4+
960422 897	0.2-	0.3-	960509 897	0.3+	0.4+	970827 367	0.1+	0.1+
960422 897	0.1-	0.2-	960509 897	0.9+	0.2+			
960422 897	0.5+	0.2-	960605 367	0.1-	1.4+			

1996 HH₁ = 1989 CB₅Id. G. V. Williams (*MPC* 27318)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	255.26188		(2000.0)	P	Q
<i>n</i>	0.30044879	ω	285.01077	+0.56232356	-0.82548685
<i>a</i>	2.2077797	Ω	130.66814	+0.78117890	+0.51101882
<i>e</i>	0.1369310	<i>i</i>	3.67502	+0.27120424	+0.23964812
<i>P</i>	3.28	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

890202 033	0.0	0.1-	960419 552	0.1+	1.3+	970829 552	0.3-	0.6+
890203 033	0.0	0.1+	960419 552	1.2+	0.5+	970830 552	1.4+	0.8+
960411 691	0.4-	0.0	960420 552	0.2-	0.2+	970830 552	0.1-	1.5+
960411 691	0.6-	0.1-	960420 552	1.2-	0.1+	970830 552	0.8+	1.3-
960411 691	0.5-	0.0	960421 691	0.4+	0.5-	970830 552	0.2-	0.4-
960415 691	0.2+	0.2-	960421 691	0.0	0.4-	970831 552	0.4+	1.4+
960415 691	0.1-	0.2-	960421 691	0.1+	0.5-	970831 552	0.1-	1.9-
960415 691	0.3+	0.3-	970829 552	0.1-	0.8-	970904 552	(0.1+	2.5-)
960418 552	0.2+	0.0	970829 552	1.6-	0.1+			
960418 552	0.6+	0.1+	970829 552	(4.8+	1.2-)			

1996 HM₁

Id. A. Nakamura (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	187.82403		(2000.0)	P	Q
<i>n</i>	0.26734358	ω	125.98640	-0.47173475	-0.88172607
<i>a</i>	2.3864713	Ω	352.15566	+0.79661365	-0.42373097
<i>e</i>	0.1317339	<i>i</i>	2.11911	+0.37798547	-0.20739144
<i>P</i>	3.69	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

960322 809	1.6+	1.2-	960421 360	0.4-	0.2-	960426 360	0.1+	0.2+
960322 809	0.1+	1.7-	960422 360	0.3+	0.1-	960426 360	0.2-	0.3+
960322 809	0.3+	1.3-	960422 360	0.4+	0.1-	970801 360	0.8-	0.9-

960326 809	0.4+	1.1+	960422 360	0.8-	0.1+	970801 360	1.0-	0.1+
960326 809	0.4+	1.8+	960424 360	0.3-	0.6-	970801 360	0.9-	1.2-
960326 809	0.4-	1.5+	960424 360	0.6-	0.2-	970827 360	1.0+	0.5+
960421 360	0.6-	0.2+	960424 360	0.0	0.1-	970827 360	1.0+	1.0+
960421 360	0.5-	0.3+	960426 360	0.2+	0.1+	970827 360	0.7+	0.4+

1996 HR₂₁ = 1991 PS₂₅ = 1992 VS = 1997 QT₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	25.42759		(2000.0)	P	Q
<i>n</i>	0.17392566	ω	108.27102	+0.23755450	+0.97137279
<i>a</i>	3.1785346	Ω	175.47024	-0.89899297	+0.22050228
<i>e</i>	0.1644694	<i>i</i>	1.20811	-0.36793954	+0.08839487
<i>P</i>	5.67	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

910805 809	0.7+	0.3-	960420 809	1.9-	0.6-	960522 809	0.0	0.6-
910805 809	0.2+	0.2-	960420 809	(2.7+	0.7+)	960522 809	0.3+	0.2-
910805 809	0.6-	0.5-	960420 809	(2.4+	1.4+)	960523 809	1.1+	0.8-
921102 010	1.2+	0.3+	960420 809	1.6+	1.1+	960523 809	1.2+	0.8-
921102 010	0.8-	0.3+	960421 809	0.4+	1.1+	960523 809	0.4+	1.8-
921102 010	0.5-	0.2-	960421 809	0.5+	1.9+	970825 367	1.4-	0.0
960418 809	(3.9-	2.2+)	960421 809	0.7+	1.7+	970825 367	2.0-	0.8+
960418 809	(3.7-	2.4+)	960519 809	(1.6-	2.7+)	970827 367	1.3+	0.1+
960418 809	(4.0-	1.7+)	960519 809	2.0-	1.5+	970827 367	1.6+	0.4+
960420 809	0.9-	1.0-	960519 809	(3.1-	2.4+)			
960420 809	2.0-	0.3-	960522 809	0.9+	0.2-			

1996 JU

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	152.28052		(2000.0)	P	Q
<i>n</i>	0.27615596	ω	352.39705	-0.88797835	-0.43631304
<i>a</i>	2.3354277	Ω	159.70172	+0.44091021	-0.89755098
<i>e</i>	0.1811167	<i>i</i>	24.76992	+0.13073877	+0.06350726
<i>P</i>	3.57	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

960511 693	0.6+	1.0-	960527 658	1.1+	0.3+	960920 696	0.1+	0.1+
960511 693	0.9-	0.9-	960527 658	1.3+	0.4+	960920 696	0.1+	0.1-
960513 693	1.4-	1.1+	960527 658	1.2+	0.4+	970813 608	0.7+	1.1-
960513 693	0.7-	0.0	960607 658	(2.1-	0.1-)	970813 608	0.2+	0.4+
960521 693	0.4+	0.2+	960607 658	1.5-	0.1+	970906 608	0.4-	0.3+
960521 693	(1.1+	2.9-)	960612 658	0.9-	0.3-	970906 608	0.5-	0.4+
960524 657	0.8+	0.5+	960612 658	0.9-	0.5-			
960524 657	1.5+	0.0	960612 658	0.8-	0.4-			

1996 LJ₁

Id. L. Šarounová (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	74.12247		(2000.0)	P	Q
<i>n</i>	0.21338688	ω	49.16636	-0.04126316	+0.98668638
<i>a</i>	2.7734749	Ω	219.32909	-0.97506524	-0.07412665
<i>e</i>	0.1268513	<i>i</i>	14.37198	-0.21804844	+0.14475919
<i>P</i>	4.62	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

960613 557	0.1+	0.2+	960619 557	0.1-	0.2-	960805 557	0.0	0.4-
960613 557	0.5-	0.1-	960625 557	0.3-	0.3-	960805 557	0.1-	1.0-

M.P.C. 30670

960614 557	0.2+	0.4+	960625 557	0.2−	0.1−	960805 557	0.0	0.0
960614 557	0.2−	0.3+	960625 557	0.3−	0.1−	960819 557	0.1+	0.1−
960614 557	0.1−	0.4+	960714 557	0.1+	0.4+	970913 557	0.4−	0.6+
960614 557	0.2+	0.2+	960714 557	0.4+	0.1+	970913 557	0.1−	0.4+
960616 557	0.4+	0.1+	960719 557	0.5+	0.1−	970913 557	0.0	0.0
960616 557	0.0	0.1+	960719 557	0.1−	0.3−	970915 557	0.2+	0.2−
960616 557	0.2−	0.2+	960719 557	0.1−	0.1−	970915 557	0.1+	0.1−
960619 557	0.2+	0.3−	960805 557	0.1+	0.5+	970915 557	0.0	0.3−
960619 557	0.0	0.2−	960805 557	0.1−	0.3+	970915 557	0.2+	0.3−

1996 RQ₂₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	22.13108		(2000.0)	P	Q
<i>n</i>	0.00333927	ω	332.49238	+0.94771853	+0.30141780
<i>a</i>	44.3304120	Ω	11.53773	−0.09467377	+0.57912684
<i>e</i>	0.1209184	<i>i</i>	31.58877	−0.30473999	+0.75746908
<i>P</i>	295	<i>H</i>	7.0	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

960906 675	1.1+	0.5−	960921 950	0.6−	0.0	961114 711	0.1−	0.3+
960906 675	1.3+	0.6−	961011 675	0.1+	0.0	961114 711	1.3−	0.7+
960906 675	0.9+	0.6−	961011 675	0.0	0.1+	961114 711	0.2+	0.2+
960906 675	0.8+	0.1−	961011 675	0.1+	0.0	970106 950	0.0	1.0−
960916 950	0.5−	0.4+	961113 711	0.3+	0.4+	970108 950	0.3+	0.9−
960916 950	0.5−	0.2+	961113 711	0.4+	0.2+	970906 568	0.4+	0.3+
960916 950	0.2−	0.2+	961113 711	0.6+	0.4+	970906 568	0.3+	0.3+
960919 950	1.5−	0.0	961113 711	0.4+	0.3+	970907 675	0.5−	0.2−
960920 950	0.9−	0.2−	961113 711	0.1−	0.3+	970907 675	0.2−	0.3−
960920 950	0.7−	0.0	961114 711	0.2−	0.1+			

1996 SZ₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	342.62634		(2000.0)	P	Q
<i>n</i>	0.00394178	ω	25.67164	+0.74777652	−0.66356347
<i>a</i>	39.6893637	Ω	15.96518	+0.59408036	+0.65345040
<i>e</i>	0.2529734	<i>i</i>	4.72710	+0.29647732	+0.36426101
<i>P</i>	250	<i>H</i>	8.0	<i>G</i> 0.15	<i>U</i> 7

Residuals in seconds of arc

960916 950	0.5−	0.4+	961112 711	0.4+	0.5+	961113 711	0.8+	0.6+
960916 950	0.4−	0.3+	961112 711	1.8−	0.7−	961113 711	(2.2+	0.1+)
960919 950	0.3+	0.5+	961112 711	1.0+	0.6+	961114 711	0.8−	0.5−
960920 950	0.1+	0.5+	961112 711	0.3−	1.0+	961114 711	1.0+	0.3−
960921 950	0.3+	0.4+	961112 711	1.6−	0.1−	970905 568	0.3+	0.1+
961016 493	0.0	0.5−	961112 711	(2.5−	0.3−)	970905 568	0.4+	0.1−
961017 493	0.2−	0.7−	961113 711	0.8+	0.6−	970907 675	0.3−	0.1+
961017 493	0.2−	0.5−	961113 711	1.3+	1.0−	970907 675	0.5−	0.1+

1996 UF₄ = 1982 VD₈ = 1991 TT₁₄

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	68.21741		(2000.0)	P	Q
<i>n</i>	0.20869368	ω	315.42280	+0.99834921	−0.00233869
<i>a</i>	2.8149014	Ω	44.80672	+0.02792815	+0.89286127
<i>e</i>	0.1076835	<i>i</i>	4.67100	−0.05018841	+0.45032575
<i>P</i>	4.72	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

1997 SEPT.16

Residuals in seconds of arc

821109 095	0.0	0.0	961101 327	0.6−	0.4+	961109 046	0.0	0.2−
911002 691	0.1−	0.1−	961102 327	0.3−	0.0	961109 046	0.0	0.1−
911002 691	0.1−	0.1+	961102 327	1.1−	0.8+	961109 046	0.0	0.2−
911002 691	0.2+	0.1+	961102 327	0.1−	0.3+	961109 046	0.1−	0.2−
961029 327	0.7+	0.6−	961102 327	1.0−	0.4+	961109 046	0.1−	0.2−
961029 327	0.6+	0.1+	961109 327	0.1−	0.2+	961110 046	0.4+	0.2−
961029 327	0.7+	0.9−	961109 327	0.6+	0.4−	961110 046	0.4−	0.2+
961029 327	0.7+	0.1−	961109 327	0.1−	0.3+	961110 046	0.1+	0.4−
961101 327	0.1+	0.6+	961109 046	0.1+	0.3−	961110 046	0.1+	0.2+
961101 327	0.4−	0.2+	961109 046	0.0	0.0			

1996 VG₂ = 1981 WJ₆ = 1985 YP₂

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	62.61632		(2000.0)	P	Q
<i>n</i>	0.26374621	ω	209.57120	+0.74283207	−0.66943956
<i>a</i>	2.4081224	Ω	192.46059	+0.62055977	+0.69252497
<i>e</i>	0.2045503	<i>i</i>	1.90026	+0.25120925	+0.26881191
<i>P</i>	3.74	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

811124 095	0.1−	0.6+	961110 411	0.5+	0.8−	961130 411	0.2−	1.0+
851217 675	(4.9−	0.1+)	961110 411	0.6+	1.5−	961208 411	0.9+	1.3+
851217 675	0.2−	1.0−	961115 411	0.1−	0.1+	961208 411	1.0+	1.0+
961106 411	1.4−	1.4−	961115 411	0.2−	0.2−			
961106 411	0.9−	0.2−	961130 411	0.1−	1.0+			

1996 VT₄ = 1979 VA₃ = 1994 CG₁₉

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	0.55706		(2000.0)	P	Q
<i>n</i>	0.29062413	ω	216.87500	−0.61430854	−0.78522199
<i>a</i>	2.2572601	Ω	271.15887	+0.74125745	−0.54048257
<i>e</i>	0.0549781	<i>i</i>	4.46252	+0.27048548	−0.30216721
<i>P</i>	3.39	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

791114 095	0.3+	2.8−	961114 411	0.6−	0.1+	961208 411	0.2+	0.7+
940210 691	0.2+	0.2−	961114 411	0.1−	0.5−	961208 411	0.2−	0.4+
940210 691	0.2−	0.1+	961119 411	0.4+	1.1+	970208 566	0.0	0.2+
940210 691	0.1−	0.3−	961119 411	0.4+	0.5+	970208 566	0.2+	0.2−
961113 411	0.2−	0.5−	961130 411	0.2−	0.7+	970208 566	0.3+	0.1−
961113 411	0.1+	0.3−	961130 411	0.3−	0.6+			

1996 VU₅ = 1990 SA₂₇ = 1992 CM₈

Id. S. Nakano, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	41.80810		(2000.0)	P	Q
<i>n</i>	0.17742555	ω	279.88632	+0.54511043	−0.83795228
<i>a</i>	3.1365961	Ω	137.04733	+0.78350708	+0.49803906
<i>e</i>	0.1695759	<i>i</i>	2.21027	+0.29828053	+0.22314361
<i>P</i>	5.56	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

900922 095	1.1−	0.3+	961114 411	0.8−	0.4+	961119 411	0.2+	0.3+
900922 095	1.2+	0.7−	961114 411	0.4+	0.7+	961130 411	0.4+	0.1−

1997 SEPT.16

920205	691	0.3+	0.1+	961115	411	0.7−	0.5+	961130	411	0.2−	0.1−
920205	691	0.1+	0.5−	961115	411	0.4+	0.7−	961208	411	0.2+	0.3−
920205	691	0.4−	0.0	961119	411	0.2−	0.1−	961208	411	0.2+	0.0

1996 XE₁₉ = 1949 WC₁ = 1990 SW₂₈

Id. S. Nakano, T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5											
<i>M</i>	123.84572			(2000.0)		P			Q		
<i>n</i>	0.19051037	ω	159.82424		+0.93460157			+0.35569554			
<i>a</i>	2.9912793	Ω	179.33821		−0.33480738			+0.88044394			
<i>e</i>	0.2237204	<i>i</i>	3.82189		−0.12009966			+0.31352695			
<i>P</i>	5.17	<i>H</i>	12.0		<i>G</i>	0.15		<i>U</i>	5		

Residuals in seconds of arc

491119	675	0.2+	0.4+	961211	411	0.2+	0.2−	961228	411	0.5−	0.3−
491119	675	0.5−	0.6+	961218	411	0.5−	0.1−	961228	411	0.1−	0.1+
900929	095	0.2+	0.5−	961218	411	0.1+	0.4+	970113	411	0.1−	0.9+
961208	411	0.9+	2.1−	961218	411	0.4−	0.9+	970113	411	0.8−	0.0
961208	411	1.2+	1.1−	961219	411	0.5−	0.7+				
961211	411	0.2−	0.3−	961219	411	0.5+	0.3+				

1996 YY₁ = 1991 RM₂₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Epoch 1997 June 1.0 TT = JDT 2450600.5											
<i>M</i>	90.21630			(2000.0)		P			Q		
<i>n</i>	0.22645868	ω	284.28869		+0.92146119			−0.38028657			
<i>a</i>	2.6656926	Ω	98.11141		+0.38010745			+0.84049075			
<i>e</i>	0.2214470	<i>i</i>	4.59546		+0.08017236			+0.38595003			
<i>P</i>	4.35	<i>H</i>	14.0		<i>G</i>	0.15		<i>U</i>	5		

Residuals in seconds of arc

910912	675	1.0−	0.7−	961220	327	0.1+	0.4+	970102	327	0.5−	0.2−
910912	675	0.8+	0.5+	961222	327	0.5+	0.5+	970104	327	0.5−	0.1+
910916	675	0.2−	0.1−	961222	327	0.3−	0.2−	970104	327	0.9+	0.3−
910916	675	0.4+	0.3+	961222	327	0.6+	0.7−	970104	327	0.2+	0.5+
961220	327	0.6−	0.1+	970102	327	0.6+	0.1+				
961220	327	0.2−	0.1−	970102	327	0.8−	0.2−				

1996 YD₂ = 1972 JA₁ = 1985 VK₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Epoch 1997 June 1.0 TT = JDT 2450600.5											
<i>M</i>	17.01985			(2000.0)		P			Q		
<i>n</i>	0.18660154	ω	110.67977		−0.42051328			−0.90714849			
<i>a</i>	3.0329080	Ω	4.28727		+0.73362366			−0.35022917			
<i>e</i>	0.1061164	<i>i</i>	12.21526		+0.53382104			−0.23328338			
<i>P</i>	5.28	<i>H</i>	12.0		<i>G</i>	0.15		<i>U</i>	3		

Residuals in seconds of arc

720511	805	0.3+	0.1−	961222	327	1.0+	0.2+	970108	327	0.2−	0.5−
720511	805	0.1−	0.6−	961222	327	0.1+	0.4+	970108	327	0.2+	0.6−
720511	805	0.2−	0.7+	961223	327	0.4−	0.3+	970108	327	0.6−	0.5−
851111	095	0.1+	0.2−	961223	327	0.7−	0.4+				
961222	327	0.4+	0.2+	961223	327	0.3+	0.1+				

1996 YH₂ = 1969 VD = 1969 VQ = 1973 YJ₁ = 1988 XT₄Id. T. B. Spahr, H. Oishi (d, *JAM* 852)

M.P.C. 30671

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	117.80317			(2000.0)		P			Q		
<i>n</i>	0.26310244	ω	353.71980		+0.67356063			−0.73629221			
<i>a</i>	2.4120490	Ω	53.91571		+0.68157788			+0.58484581			
<i>e</i>	0.0981766	<i>i</i>	4.59404		+0.28595046			+0.34033683			
<i>P</i>	3.75	<i>H</i>	14.0		<i>G</i>	0.15		<i>U</i>	3		

Residuals in seconds of arc

691104	095	(42.7−	19.8+)	961223	327	0.5−	0.1−	970131	411	0.5+	0.8+
691111	095	0.4−	0.9+	961223	327	0.7+	0.2+	970201	411	0.1−	0.2+
731220	095	0.6+	2.4−	961224	327	0.6+	0.1+	970201	411	0.3−	0.7+
881211	808	0.9−	1.1+	961224	327	0.5+	0.3−	970204	691	0.5−	0.0
881211	808	0.6+	0.2+	961224	327	0.2−	0.1+	970204	691	0.4−	0.2+
961223	327	0.0	0.0	970131	411	0.9+	0.9−	970204	691	0.6−	0.2−

1996 YH₃ = 1979 VJ₂ = 1990 WN₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	98.41764			(2000.0)		P			Q		
<i>n</i>	0.17113123	ω	261.23012		+0.78953758			+0.55427819			
<i>a</i>	3.2130430	Ω	64.69606		−0.38264688			+0.78023376			
<i>e</i>	0.0927196	<i>i</i>	16.94240		−0.47980389			+0.28984644			
<i>P</i>	5.76	<i>H</i>	11.5		<i>G</i>	0.15		<i>U</i>	4		

Residuals in seconds of arc

791114	095	0.1+	0.1−	961225	327	0.3+	0.1+	970110	327	0.2−	0.1+
901119	413	0.1+	0.4−	961226	327	0.3+	0.3−	970110	327	0.1−	0.3−
901119	413	0.0	0.2+	961226	327	0.4−	0.0	970110	327	0.0	0.3−
961225	327	0.2−	0.7+	961226	327	0.2−	0.2+				
961225	327	0.4−	0.2+	970110	327	0.7+	0.1−				

1997 AA = 1990 QJ₁₇ = 1993 HN₈

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	97.90291			(2000.0)		P			Q		
<i>n</i>	0.20273847	ω	297.19261		+0.86220230			−0.50322889			
<i>a</i>	2.8697580	Ω	93.07240		+0.48289972			+0.78190614			
<i>e</i>	0.0498408	<i>i</i>	3.33173		+0.15301976			+0.36794493			
<i>P</i>	4.86	<i>H</i>	13.5		<i>G</i>	0.15		<i>U</i>	4		

Residuals in seconds of arc

900826	809	0.6+	0.9+	970102	684	0.0	0.1−	970130	684	0.2+	0.4−
900826	809	0.1+	0.6−	970104	684	0.2+	0.1+	970210	684	0.1+	0.2−
900826	809	0.9−	0.4+	970104	684	0.0	0.0	970210	684	0.1−	0.3−
930416	413	0.4+	1.1+	970104	684	0.1+	0.1+	970210	684	0.1+	0.2−
961228	327	0.0	0.3+	970108	684	0.9−	0.7+	970302	684	0.5+	0.4−
961228	327	0.9−	0.1−	970108	684	0.4+	0.8+	970302	684	0.4+	0.3−
961228	327	0.2−	0.3+	970108	327	0.1−	0.1+	970302	684	0.2+	0.1−
970101	684	0.1−	0.0	970108	327	0.7−	0.2+	970311	684	0.1+	0.2−
970101	684	0.3+	0.4+	970108	327	0.3+	0.3+	970311	684	0.3+	0.5−
970102	684	0.0	0.1−	970130	684	0.0	0.3−	970311	684	0.2+	0.2−
970102	684	0.1+	0.0	970130	684	0.1−	0.3−				

1997 CC₂₀ = 1972 TJ₁₀ = 1991 XW₆

Id. S. Nakano, G. V. Williams

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1997 SEPT.16

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	324.06222	(2000.0)	P	Q
<i>n</i>	0.22036707	ω 102.08017	-0.63423525	+0.77112961
<i>a</i>	2.7145942	Ω 128.41264	-0.73412767	-0.57806135
<i>e</i>	0.1227031	<i>i</i> 4.07787	-0.24249167	-0.26684115
<i>P</i>	4.47	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

721009 033	0.3+	0.0	970212 411	1.3+	0.1+	970226 411	0.1+	0.4-
721009 033	0.1+	0.8-	970212 411	0.8-	0.2+	970226 411	0.1+	0.8-
721009 033	0.1+	0.1-	970213 411	0.3-	0.1+	970309 411	0.1+	0.1-
911207 691	0.2+	0.8+	970213 411	0.7-	0.1-	970309 411	0.5-	0.1-
911207 691	0.2-	0.2-	970216 411	0.0	0.8-			
911207 691	0.0	0.2+	970216 411	0.3+	0.9+			

1997 CJ₂₀ = 1978 WB₁₀ = 1995 VH₁₉

Id. S. Nakano, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	288.31043	(2000.0)	P	Q
<i>n</i>	0.28769807	ω 220.52712	+0.08221651	+0.99586934
<i>a</i>	2.2725394	Ω 54.22306	-0.90166120	+0.09079790
<i>e</i>	0.1415012	<i>i</i> 2.72223	-0.42455568	+0.00001874
<i>P</i>	3.43	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

781129 675	1.5+	0.0	970212 411	0.1+	1.4-	970216 411	0.1-	0.3+
781130 675	1.6-	0.3+	970212 411	1.2-	0.0	970226 411	0.1+	0.1+
951114 691	0.0	0.2+	970213 411	0.6-	0.4+	970226 411	0.6+	0.1+
951114 691	0.1+	0.2-	970213 411	0.5+	1.4+	970309 411	0.7+	0.3-
951114 691	0.0	0.2-	970216 411	0.0	0.6-	970309 411	0.2-	0.0

1997 ET₃₀ = 1991 GY₆ = 1991 HF₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	312.06688	(2000.0)	P	Q
<i>n</i>	0.31574720	ω 262.59428	+0.28001294	+0.95879639
<i>a</i>	2.1358777	Ω 23.83595	-0.82729506	+0.26636033
<i>e</i>	0.4509489	<i>i</i> 6.81889	-0.48700681	+0.09880109
<i>P</i>	3.12	<i>H</i> 17.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

910408 809	0.2-	1.4+	970313 691	0.1-	0.6-	970327 658	0.2+	0.6-
910408 809	0.2-	0.4+	970313 691	0.4-	0.1+	970327 658	1.4+	0.8+
910408 809	1.6-	0.8+	970313 608	0.2+	0.7+	970329 696	0.2+	0.4-
910410 809	1.1+	1.5+	970313 608	0.0	0.1+	970329 696	0.4+	0.1-
910410 809	1.1+	1.3+	970314 691	0.7-	0.2-	970329 696	0.7+	0.3-
910410 809	0.1+	1.5+	970314 691	0.5-	0.1-	970408 104	0.4+	0.6-
910419 809	0.6+	2.3-	970314 691	0.4-	0.1-	970408 104	1.0+	0.3-
910419 809	1.4-	2.5-	970318 599	0.7+	0.4-	970408 104	0.5-	0.0
910419 809	0.2+	1.7-	970318 599	0.3-	0.4+	970501 104	0.5-	1.9+
970312 691	0.4-	0.3-	970318 599	0.4-	1.3+	970501 104	0.4+	1.0+
970312 691	1.0-	0.8-	970327 658	0.7+	0.1-	970501 104	0.9+	0.1+
970312 691	1.1-	0.6-	970327 658	0.2+	0.4+			
970313 691	0.4-	0.2-	970327 658	0.2-	0.9-			

1997 FC₅ = 1994 PA₃₃ = 1994 RK₁₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	196.01012	(2000.0)	P	Q
<i>n</i>	0.22146628	ω 195.01798	+0.98363756	-0.17994656
<i>a</i>	2.7056045	Ω 175.32225	+0.17436321	+0.93866867
<i>e</i>	0.0651623	<i>i</i> 6.15221	+0.04532793	+0.29414343
<i>P</i>	4.45	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

940812 809	1.4+	0.1+	940903 809	1.3-	1.6-	970311 809	0.3+	0.2-
940812 809	0.2+	0.8-	940903 809	1.6-	0.0	970331 704	1.0+	1.0+
940812 809	1.1-	1.0-	940904 809	1.4+	0.7+	970331 704	0.1+	0.1-
940813 809	0.7+	0.8+	940904 809	0.3+	1.3+	970406 566	0.6-	0.5-
940813 809	0.4+	0.7+	940904 809	0.1+	0.8+	970406 566	0.4-	0.6-
940813 809	0.0	0.1+	970311 809	0.5+	1.2+	970406 566	0.6-	0.7-
940903 809	0.6-	0.8-	970311 809	0.1-	0.4+			

1997 HO₁ = 1995 VE₁₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	123.74429	(2000.0)	P	Q
<i>n</i>	0.23319555	ω 195.01222	+0.39694083	-0.91772002
<i>a</i>	2.6141021	Ω 231.60306	+0.84407801	+0.37145069
<i>e</i>	0.1537605	<i>i</i> 1.10382	+0.36051393	+0.14076346
<i>P</i>	4.23	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

951115 691	0.1+	0.2-	970310 809	0.9+	0.8-	970428 691	0.2-	0.1-
951115 691	0.1+	0.0	970310 809	0.3+	0.4-	970428 691	0.2-	0.2+
951115 691	0.4+	0.2-	970310 809	0.3-	1.1-	970428 691	0.0	0.1+
951120 691	0.2-	0.1+	970311 809	0.0	0.8+	970430 691	0.4-	0.8-
951120 691	0.3-	0.2+	970311 809	0.2-	1.6+	970430 691	0.2+	0.0
951120 691	0.1-	0.1+	970311 809	0.5-	0.6+	970430 691	0.3+	0.2-

1997 HE₁₄ = 1974 SC₁ = 1979 SM₈ = 1989 ST₁₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	192.94716	(2000.0)	P	Q
<i>n</i>	0.19835888	ω 56.69178	+0.98298029	-0.18305234
<i>a</i>	2.9118452	Ω 313.85046	+0.16057450	+0.89720620
<i>e</i>	0.0889584	<i>i</i> 1.23499	+0.08925005	+0.40188665
<i>P</i>	4.97	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

740919 095	1.4-	1.0-	970310 809	0.4+	0.6-	970427 691	0.1+	0.4+
740923 095	1.4+	0.7+	970310 809	0.5+	0.9-	970427 691	0.1-	0.4+
790924 095	0.7+	1.0-	970310 809	0.1+	1.7-	970427 691	0.1-	0.5+
890926 399	(0.9+	4.9-)	970311 809	(3.7+	3.6+)	970508 691	0.3-	0.2-
890926 399	(0.9-	5.6-)	970311 809	(3.3+	3.8+)	970508 691	0.6-	0.5+
890926 399	0.2-	0.2+	970311 809	(3.8+	3.6+)	970508 691	0.5-	0.4+

1997 JM₁₁ = 1990 HM₅

Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	43.23600	(2000.0)	P	Q
<i>n</i>	0.12601720	ω 77.81445	-0.99568601	-0.08002764
<i>a</i>	3.9401809	Ω 97.58189	+0.05535375	-0.91847072
<i>e</i>	0.1113979	<i>i</i> 2.71517	+0.07446695	-0.38730751
<i>P</i>	7.82	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

900429 413	0.6−	0.3−	970411 704	0.9+	0.3−	970504 809	(9.8+	1.8−)
900501 413	0.4−	0.2+	970411 704	1.0−	0.4−	970504 809	0.6+	1.5+
900502 413	1.0+	0.2−	970503 809	0.5+	1.0+	970504 809	1.6+	1.6+
970406 704	0.5+	1.2−	970503 809	1.1−	0.4−			
970406 704	0.5−	0.4−	970503 809	1.4−	1.4−			

1997 JB₁₃ = 1991 GH₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	24.98785	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17257032	<i>ω</i> 54.49566	−0.93784156	+0.34694204
<i>a</i>	3.1951554	<i>Ω</i> 145.80207	−0.32348458	−0.86422684
<i>e</i>	0.1240403	<i>i</i> 0.93676	−0.12574157	−0.36433939
<i>P</i>	5.71	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 7

Residuals in seconds of arc

910410 809	0.7+	1.2−	970503 809	0.4+	1.0−	970507 704	0.2−	0.6+
910410 809	0.2−	0.1−	970503 809	0.1−	0.3+	970507 704	0.0	0.7+
910410 809	0.4−	0.5+	970503 809	1.1−	0.6−	970507 704	0.6−	1.0+
910419 809	0.5+	0.2−	970504 809	0.8+	0.5−	970507 704	0.6+	0.2+
910419 809	1.6−	1.3+	970504 809	0.4+	1.8−			
910419 809	1.1+	0.2−	970504 809	0.2−	0.8+			

1997 LD = 1973 QF₁ = 1980 TT₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	329.95971	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28930632	<i>ω</i> 179.04969	+0.99931346	+0.03700695
<i>a</i>	2.2641096	<i>Ω</i> 178.82515	−0.03453254	+0.94759461
<i>e</i>	0.2017746	<i>i</i> 4.92224	−0.01342061	+0.31732466
<i>P</i>	3.41	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

730829 095	0.8+	0.9+	970601 566	0.9−	0.4−	970903 557	0.2+	0.1−
730902 095	(4.7−	6.5+)	970602 566	0.7−	0.4−	970903 557	0.2+	0.1+
801007 675	0.8−	1.7−	970602 566	0.7+	0.6−	970903 557	0.0	0.1+
801008 675	0.6−	0.1+	970602 566	0.8−	0.5−	970906 557	0.1+	0.1+
801009 675	0.1−	0.5+	970902 557	0.2+	0.3+	970906 557	0.0	0.2+
801010 675	0.6+	0.3−	970902 557	0.3+	0.4+	970908 557	0.1+	0.0
970601 566	0.7−	0.7−	970902 557	0.3+	0.5+	970908 557	0.1−	0.2+
970601 566	0.7−	0.5−	970903 557	0.4+	0.1+	970908 557	0.1−	0.0

1997 LB₄ = 1993 RA₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	353.90225	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23804494	<i>ω</i> 5.14944	+0.71026528	+0.70370725
<i>a</i>	2.5784779	<i>Ω</i> 310.10859	−0.64667823	+0.64225562
<i>e</i>	0.2072927	<i>i</i> 1.33883	−0.27808363	+0.30381544
<i>P</i>	4.14	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

930915 809	0.7+	1.1−	930918 809	0.4−	1.0+	970610 691	0.2−	0.3+
930915 809	0.5−	0.8−	930918 809	1.2−	1.0+	970713 327	0.6+	1.0−
930915 809	0.2−	0.5−	970609 691	0.0	0.3+	970713 327	0.8+	0.1−
930917 809	0.5+	0.4+	970609 691	0.2−	0.4+	970713 327	0.4−	0.2−
930917 809	0.0	0.2+	970609 691	0.3−	0.3+	970830 566	0.2+	0.2−
930917 809	1.0+	0.0	970610 691	0.2−	0.1+	970830 566	0.1−	0.3−
930918 809	0.2−	0.5+	970610 691	0.1−	0.5+	970830 566	0.0	0.2−

1997 NY = 1988 XS₄ = 1994 RK₂₉ = 1996 EJ₁₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	196.27987	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29979386	<i>ω</i> 175.70234	−0.00642709	−0.99570372
<i>a</i>	2.2109940	<i>Ω</i> 274.64749	+0.91467839	+0.03147870
<i>e</i>	0.0825959	<i>i</i> 5.31768	+0.40413134	−0.08708149
<i>P</i>	3.29	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

881211 808	0.9−	1.4−	970705 684	0.4−	0.3+	970729 684	1.2+	0.2−
881211 808	0.7+	2.0+	970705 684	0.5−	0.4+	970729 684	1.1+	0.3−
940909 033	2.3+	0.4−	970705 684	0.6−	0.3+	970805 684	0.7+	0.4−
940909 033	1.3−	0.4−	970706 684	0.5−	0.0	970805 684	0.4+	0.3−
960313 691	0.0	0.7−	970706 684	0.3−	0.0	970805 684	0.5+	0.1−
960313 691	0.1−	0.2−	970709 684	0.2−	0.4+	970823 684	0.2+	0.1−
960313 691	0.3−	0.4−	970709 684	0.4−	0.4+	970823 684	0.6−	0.5−
970703 684	0.3+	0.0	970709 684	0.8−	0.0	970825 684	0.1+	0.3−
970703 684	0.1−	0.3+	970711 684	0.1−	0.2+	970825 684	0.2−	0.4−
970704 684	0.3−	0.1+	970711 684	0.0	0.4+	970825 684	0.1−	0.8−
970704 684	0.4−	0.3+	970711 684	0.4−	0.4+			
970704 684	0.4−	0.1−	970729 684	1.0+	0.3−			

1997 NR₂ = 1993 QU₁₀ = 1996 FR₂₂ = 1996 FN₂₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	271.46853	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23124655	<i>ω</i> 240.00763	+0.80228968	−0.59683511
<i>a</i>	2.6287697	<i>Ω</i> 156.63058	+0.55672007	+0.74151772
<i>e</i>	0.1197977	<i>i</i> 1.57676	+0.21539273	+0.30649524
<i>P</i>	4.26	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

930817 010	0.6−	0.0	970711 816	0.8+	0.0	970731 816	0.4−	0.1−
930918 010	0.2+	1.4−	970711 816	0.5+	0.5−	970731 292	0.9−	0.7−
930918 010	0.1−	0.9−	970711 816	0.7+	0.4−	970731 816	0.2+	0.1−
930918 010	1.4+	0.3−	970711 816	0.4+	0.5−	970731 816	0.3−	0.4+
960324 809	0.0	1.1+	970712 816	1.4+	0.1−	970801 816	0.2+	0.4+
960324 809	0.2+	1.8+	970712 816	0.6−	0.5−	970801 816	0.0	0.6+
960324 809	0.2−	1.5+	970712 816	0.1+	0.8−	970801 292	1.8−	1.0+
960327 809	0.5+	1.0−	970712 816	0.4+	0.1−	970801 292	2.2−	1.3−
960327 809	0.2−	2.2−	970726 816	0.3−	0.3+	970801 292	(3.8−	3.2−)
960327 809	0.6−	2.2−	970726 816	0.3−	0.2+	970810 816	0.3+	0.8+
970706 816	0.8+	0.1−	970726 816	0.1−	0.2+	970810 816	0.3+	0.8+
970706 816	1.4−	0.6+	970730 816	0.0	0.5+	970823 684	0.2+	0.6+
970706 816	0.8+	0.7−	970730 816	0.3+	0.1−	970823 684	0.3−	0.4+
970706 816	0.3+	0.4+	970730 816	0.1+	0.2+	970823 684	0.6−	0.6+
970708 816	0.3+	0.1−	970730 816	0.2−	0.2+	970825 684	0.1−	0.8+
970708 816	0.6+	0.1−	970731 292	1.4+	0.9−	970825 684	0.2+	0.7+
970708 816	0.0	0.3−	970731 292	0.2−	1.0−	970825 684	0.1−	0.7+
970708 816	0.4−	0.1−	970731 816	0.1−	0.1+			

M.P.C. 30674

1997 SEPT.16

1997 NC₃ = 1981 WF₈ = 1986 RD₉ = 1995 FJ₂₁ = 1996 LY₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	275.25074		(2000.0)		P		Q
<i>n</i>	0.17142582	ω	126.36359	+0.81044194			-0.58576707
<i>a</i>	3.2093609	Ω	269.49489	+0.53494969			+0.74542736
<i>e</i>	0.1996223	<i>i</i>	0.44679	+0.23877329			+0.31814304
<i>P</i>	5.75	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

811125	095	0.9-	2.3+	970708	684	0.8-	0.3-	970805	684	0.1-	0.2-
860908	095	0.9+	0.0	970709	684	0.7-	0.3-	970805	684	0.4-	0.6+
950327	691	0.4+	0.1+	970709	684	0.6-	0.3-	970825	684	0.7+	0.1+
950327	691	0.4+	0.0	970709	684	0.7-	0.1-	970825	684	1.0+	0.1-
950327	691	0.7+	0.2+	970711	684	0.6-	0.2+	970825	684	0.8+	0.1-
960612	566	0.1+	0.8+	970711	684	0.6-	0.4-	970830	684	1.0+	0.1+
960612	566	0.9-	0.4+	970711	684	0.9-	0.1-	970830	684	1.5+	0.1+
960612	566	0.1-	0.5+	970729	684	0.1+	1.0+	970830	684	1.6+	0.0
970708	684	0.8-	0.2-	970729	684	0.3-	1.3+				

1997 NG₃ = 1987 RY₂ = 1987 SD₃₀ = 1988 XA₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	335.38708		(2000.0)		P		Q
<i>n</i>	0.18946586	ω	163.31741	+0.78857726			+0.61106770
<i>a</i>	3.0022630	Ω	158.56060	-0.58351950			+0.77891914
<i>e</i>	0.0994397	<i>i</i>	10.85944	-0.19403841			+0.14100084
<i>P</i>	5.20	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

870901	095	1.1+	2.4+	970706	358	0.3-	0.0	970718	358	1.2-	0.4-
870924	413	0.7-	1.0-	970706	358	0.8+	0.6+	970725	358	0.9-	0.3-
870924	413	0.7-	0.1-	970714	358	0.4+	1.1+	970725	358	0.6+	0.2-
881208	808	0.2+	0.1-	970714	358	0.2+	0.0	970725	358	0.8+	2.6-
881208	808	0.2-	0.6-	970714	358	1.7-	1.2-	970901	566	0.9-	0.6+
970701	358	0.6+	1.3+	970717	358	0.6+	1.4-	970901	566	0.5+	0.2-
970701	358	2.0-	3.3+	970717	358	0.9+	0.4-	970901	566	0.2+	0.3-
970706	358	0.1-	0.3+	970718	358	1.4+	1.6-				

1997 NJ₁₀ = 1986 LO = 1987 QD₁₂ = 1987 RK₄

Id. T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	149.56048		(2000.0)		P		Q
<i>n</i>	0.19005574	ω	335.77710	-0.87735598			-0.47963463
<i>a</i>	2.9960476	Ω	175.48616	+0.46420728			-0.85581666
<i>e</i>	0.0422105	<i>i</i>	10.27621	+0.12148286			-0.19372268
<i>P</i>	5.19	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

860606	675	1.0+	1.8-	970713	104	0.6+	0.1+	970727	104	0.2-	0.7+
860608	675	1.4+	1.2+	970713	104	0.5+	0.2-	970729	104	0.2-	0.4-
860609	675	2.4-	0.0	970713	104	0.5+	0.5-	970729	104	0.7-	0.3-
870827	095	1.1+	2.3-	970714	104	0.2+	0.2-	970824	104	0.5-	1.0+
870902	095	0.6-	0.4+	970714	104	0.4+	0.7-	970901	566	0.3-	0.8+
970710	599	0.6+	0.1+	970715	104	0.3-	0.2-	970901	566	0.4-	1.0+
970710	599	0.5+	0.3+	970727	104	0.2-	0.1-	970901	566	0.6-	1.0+

1997 NK₁₀ = 1993 QQ₁₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	247.61775		(2000.0)		P		Q
<i>n</i>	0.23457927	ω	248.95861	+0.46641061			-0.88400010
<i>a</i>	2.6038120	Ω	172.98643	+0.87691801			+0.45737660
<i>e</i>	0.0960023	<i>i</i>	15.04766	+0.11608594			+0.09669780
<i>P</i>	4.20	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

930819	675	0.8+	0.8+	970713	104	0.2+	0.0	970727	104	0.4-	0.4-
930819	675	0.9-	0.4+	970713	104	0.3-	0.8-	970824	104	1.0+	0.2-
930821	675	0.1+	1.1-	970714	104	0.3+	0.0	970824	104	0.4+	1.1-
930821	675	(2.9+	0.6+)	970714	104	0.5-	0.0	970901	566	0.6-	0.3+
970710	599	0.7-	1.0+	970726	108	0.2-	0.3-	970901	566	0.3-	0.5+
970710	599	0.1-	0.7+	970727	108	1.8+	0.4-	970901	566	0.4-	0.5+
970713	104	0.0	0.2+	970727	104	0.2-	0.3-				

1997 OZ = 1976 UP₁₂ = 1995 CV₁₀ = 1996 FP₂₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	346.27496		(2000.0)		P		Q
<i>n</i>	0.18282701	ω	231.26751	+0.69840255			+0.71415510
<i>a</i>	3.0745093	Ω	83.10126	-0.64105416			+0.65345122
<i>e</i>	0.1924117	<i>i</i>	2.71808	-0.31825061			+0.25096611
<i>P</i>	5.39	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

761022	381	0.4-	0.7-	970725	620	2.0+	0.7-	970801	620	1.2+	0.4+
761022	381	0.7+	0.1+	970725	620	0.9+	0.4-	970801	620	0.2+	0.5-
950202	691	0.2-	0.7-	970725	620	0.4-	0.2-	970811	620	1.2-	0.7+
950202	691	0.4-	0.4-	970725	620	1.0-	0.1-	970811	620	1.0-	0.0
950202	691	0.1+	0.3-	970729	620	0.5+	1.0+	970811	620	0.7-	0.8-
960327	691	0.2+	0.1-	970729	620	0.5-	0.7-	970829	620	0.2+	0.7+
960327	691	0.2-	0.1+	970729	620	0.1-	1.2-	970829	620	0.6-	0.2+
960327	691	0.1-	0.1-	970801	620	1.8+	0.8+	970829	620	1.1-	0.1-

1997 OC₁ = 1996 MC₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	261.01078		(2000.0)		P		Q
<i>n</i>	0.21777656	ω	264.94248	+0.50611141			-0.86010643
<i>a</i>	2.7360790	Ω	154.33933	+0.83812591			+0.47303429
<i>e</i>	0.1877685	<i>i</i>	8.46987	+0.20346058			+0.19093323
<i>P</i>	4.53	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

960616	691	0.1-	0.3+	970729	104	0.1+	0.1+	970802	108	0.4-	1.3-
960616	691	0.1-	0.1+	970730	108	0.7-	0.8-	970803	108	0.4+	0.1-
960621	691	0.1+	0.2-	970730	108	1.9-	0.2+	970814	104	(0.6-	3.6-)
960621	691	0.2-	0.0	970730	610	0.4+	1.5+	970815	104	0.5+	0.9-
960621	691	0.3+	0.2-	970730	108	0.2-	0.9-	970824	104	0.5-	0.4+
970729	104	0.3+	0.2-	970730	610	1.0+	1.0+	970824	104	0.2+	0.2+
970729	104	0.8-	0.5+	970730	610	1.6+	0.3+				

1997 OF₁ = 1994 WZ₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	313.72847	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.26469905	ω	67.58656	+0.99850806	-0.04847743	
<i>a</i>	2.4023399	Ω	295.18444	+0.03400361	+0.91213987	
<i>e</i>	0.2108934	<i>i</i>	1.59138	+0.04272473	+0.40700221	
<i>P</i>	3.72	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

941129 691	0.3-	0.4+	970730 816	0.2+	0.0	970801 816	0.1-	0.1-
941129 691	0.7+	0.2-	970731 816	0.0	0.1+	970807 816	0.4-	0.1+
941129 691	0.4-	0.0	970731 816	0.3-	0.0	970807 816	0.1-	0.4+
941204 691	0.0	0.3-	970731 816	0.1+	0.1-	970807 816	0.2-	0.2+
941204 691	0.1-	0.0	970801 816	0.1-	0.2-	970810 816	0.2+	0.2-
970730 816	0.1+	0.1-	970801 816	0.0	0.0	970810 816	0.2+	0.1-
970730 816	0.1+	0.2-	970801 816	0.2+	0.1+			

1997 OO₁ = 1989 AS₃ = 1996 EC₃

Id. B. G. Marden

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	204.94944	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.29176364	ω	313.06829	+0.10723997	-0.98908969	
<i>a</i>	2.2513790	Ω	130.49179	+0.94643057	+0.07043507	
<i>e</i>	0.0891033	<i>i</i>	7.63192	+0.30457966	+0.12938503	
<i>P</i>	3.38	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

890104 413	1.6+	1.7+	960311 327	1.6+	0.0	970811 684	0.2-	0.1+
890104 413	0.9+	0.0	970729 684	0.6-	0.1-	970811 684	0.4-	0.4+
890110 413	0.5-	0.8+	970729 684	0.4-	0.0	970827 684	0.1+	0.4+
890110 413	1.8-	1.3-	970729 684	0.2-	0.3-	970827 684	0.2+	0.5+
960310 327	0.6-	0.5+	970731 684	0.8+	0.2+	970830 684	0.2+	0.5+
960310 327	0.3-	0.2+	970731 684	0.4+	0.3-	970830 684	0.0	0.5+
960310 327	0.4+	0.2-	970731 684	0.0	0.2-	970830 684	0.3+	0.4+
960311 327	0.5-	0.1+	970804 684	0.1-	0.3-			
960311 327	0.5-	0.1-	970804 684	0.0	0.1-			

1997 OZ₁ = 1992 GN₆ = 1993 PQ₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	49.44400	(2000.0)	Nakano		<i>P</i>	<i>Q</i>
<i>n</i>	0.23813106	ω	89.51018	-0.40551825	+0.90798585	
<i>a</i>	2.5778562	Ω	155.70225	-0.90695751	-0.38529183	
<i>e</i>	0.0850272	<i>i</i>	14.84681	-0.11394308	-0.16465691	
<i>P</i>	4.14	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

920407 399	1.0+	0.0	930817 010	1.1+	1.1-	970802 566	0.0	0.3+
920407 399	1.5-	1.2+	930817 010	0.3+	0.9+	970802 566	0.2-	0.3-
920407 399	0.2+	2.0-	970729 358	0.4-	0.4-	970805 358	0.7+	2.0-
920407 399	(0.5+	4.5-)	970729 358	1.8+	1.0-	970805 358	2.3+	1.4+
930815 010	0.0	1.1-	970729 358	0.6-	1.0+	970805 358	0.2+	0.0
930815 010	0.0	1.4-	970801 358	0.1-	0.1-	970828 358	0.4+	0.2+
930815 010	0.5-	1.3-	970801 358	1.9-	2.0+	970828 358	1.1-	1.9+
930816 010	0.3-	0.2-	970802 566	1.1-	0.2-	970828 358	0.1-	0.8+

1997 OU₂ = 1990 ON₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	331.21498	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28352661	ω	178.83617	+0.86044432	+0.50393187	
<i>a</i>	2.2947753	Ω	150.51706	-0.46872730	+0.84084622	
<i>e</i>	0.2106008	<i>i</i>	8.81488	-0.19982567	+0.19756091	
<i>P</i>	3.48	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

900724 675	0.1-	0.6-	970609 691	0.6-	0.8+	970822 106	0.0	0.3-
900724 675	1.3+	0.0	970609 691	0.6-	0.9+	970822 106	0.1+	0.1-
900725 675	(2.5+	0.6-)	970730 106	0.1+	1.1+	970830 106	0.5-	0.6+
900725 675	1.0+	1.7-	970730 106	0.0	1.2+	970830 106	0.6-	0.4+
900727 675	0.9-	0.2+	970804 106	0.1-	0.0	970903 106	0.4-	0.2+
900727 675	0.8+	1.6+	970804 106	0.1-	0.0	970903 106	0.1-	0.7+
900728 675	0.2+	1.3-	970809 106	0.8+	0.5-	970908 106	0.4-	0.2+
900728 675	0.3-	1.5-	970809 106	0.6+	0.5-	970908 106	0.5-	0.1-
900729 675	0.9-	1.0+	970812 106	0.8+	0.9-			
900729 675	1.0-	0.4+	970812 106	0.7+	0.9-			

1997 OV₂ = 1995 AF₄

Id. S. Nakano

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	102.34666	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21802542	ω	263.23114	-0.93732651	+0.31453782	
<i>a</i>	2.7339966	Ω	295.01293	-0.21656061	-0.86297358	
<i>e</i>	0.0589769	<i>i</i>	9.52447	-0.27298446	-0.39540178	
<i>P</i>	4.52	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

950102 010	(5.1+	2.7+)	970727 358	(3.3+	1.9-)	970806 358	1.4+	1.0+
950102 010	(3.5+	2.3+)	970727 358	1.9-	0.3-	970901 566	0.6-	0.1-
950103 010	1.7+	0.9-	970729 358	0.5-	0.1-	970901 566	1.0-	0.2-
950104 010	(3.7+	0.1-)	970729 358	1.1+	0.3-	970901 566	0.9-	0.3+
950105 033	0.2-	0.1+	970801 358	(3.6-	0.8-)	970908 910	0.6+	0.0
950105 033	0.7-	0.4+	970801 358	(2.0-	2.3-)	970908 910	0.6+	0.1-
950107 033	0.9-	0.4+	970806 358	1.1+	0.3+	970908 910	0.5+	0.0
970727 358	0.3-	1.0+	970806 358	0.1-	1.4-			

1997 OW₂ = 1981 UF₁₂ = 1989 EG₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	276.46799	(2000.0)	Nakano		<i>P</i>	<i>Q</i>
<i>n</i>	0.30051439	ω	129.40225	+0.78428439	-0.61289258	
<i>a</i>	2.2074584	Ω	268.61069	+0.53551421	+0.74709775	
<i>e</i>	0.1350285	<i>i</i>	5.52389	+0.31324516	+0.25730844	
<i>P</i>	3.28	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

811022 095	0.0	0.1-	890303 809	0.1+	1.4-	970801 358	0.1-	1.6+
890302 809	0.3+	1.2+	970727 358	0.1+	0.6-	970801 358	0.7+	1.5-
890302 809	0.0	1.0+	970727 358	(2.5+	1.2-)	970801 358	0.1-	0.6+
890302 809	0.3-	0.3+	970727 358	(0.9+	4.1+)	970805 358	2.2+	0.5+
890303 809	0.2-	0.6-	970729 358	1.1-	0.7-	970805 358	0.2-	0.8+
890303 809	0.1-	0.9-	970729 358	1.5-	1.0-	970805 358	(3.0-	2.1+)

1997 PE = 1992 AV

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	161.47918		(2000.0)	P	Williams	Q
<i>n</i>	0.27584363	ω	285.38413	-0.60669174		-0.79397691
<i>a</i>	2.3371903	Ω	202.10793	+0.76334440		-0.56816142
<i>e</i>	0.0566792	<i>i</i>	5.95743	+0.22187937		-0.21631749
<i>P</i>	3.57	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i>	5

Residuals in seconds of arc

920109 675	0.2-	0.0	970802 566	0.4+	0.5-	970803 566	0.0	0.0
920109 675	0.1+	0.6-	970802 566	0.3+	0.6-	970803 566	0.2+	0.3-
920110 675	0.0	0.6+	970802 566	0.2+	0.9-	970803 566	0.6+	0.2+
970801 566	0.6+	0.1-	970802 566	0.1+	0.6-	970803 566	0.3+	0.5-
970801 566	0.1+	0.3-	970802 566	0.1+	0.5-	970803 566	0.4+	0.2-
970801 566	0.6+	0.0	970802 566	0.2+	0.5-	970803 566	0.2+	0.3-
970802 566	0.1+	0.5-	970803 566	1.7-	2.6+	970812 658	0.0	0.3-
970802 566	0.0	0.7-	970803 566	1.7-	2.7+	970812 658	0.2+	0.2-
970802 566	0.1+	0.6-	970803 566	1.5-	2.0+	970812 658	0.2+	0.1-

1997 PQ = 1991 RR₂₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	219.70965		(2000.0)	P	Williams	Q
<i>n</i>	0.30141141	ω	305.88999	+0.32121704		-0.94464576
<i>a</i>	2.2030766	Ω	125.23924	+0.89309229		+0.27870990
<i>e</i>	0.0805836	<i>i</i>	4.69226	+0.31496948		+0.17310456
<i>P</i>	3.27	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i>	4

Residuals in seconds of arc

910912 675	0.5+	0.1+	970801 426	0.7-	0.1-	970902 426	0.0	0.4-
910912 675	0.2+	0.2-	970804 426	0.1-	0.1+	970902 426	0.0	0.5+
910914 675	0.3+	0.2+	970804 426	1.0+	0.1-	970903 426	0.0	0.5-
910914 675	1.0-	0.0	970808 426	0.8+	0.4+	970903 426	0.7-	0.1+
970727 426	0.3+	0.2-	970808 426	0.6-	0.5+	970903 426	0.2+	0.2-
970727 426	0.2-	0.2+	970814 426	1.2+	0.3-			
970801 426	0.6-	0.2+	970814 426	0.7-	0.2-			

1997 PR = 1986 QP₅ = 1986 RW₁₇ = 1986 TR₁₈

Id. G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	2.17096		(2000.0)	P	Nakano	Q
<i>n</i>	0.26732337	ω	334.06607	+0.41225079		+0.90606585
<i>a</i>	2.3865915	Ω	320.08440	-0.80790703		+0.31518169
<i>e</i>	0.2109221	<i>i</i>	8.54687	-0.42111225		+0.28232106
<i>P</i>	3.69	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i>	5

Residuals in seconds of arc

860829 095	(3.4-	5.0+)	970808 426	0.3+	0.5+	970815 426	0.8+	0.9-
860906 095	2.1-	0.2+	970808 426	0.2+	0.6+	970815 426	0.9+	0.2-
861002 095	2.2+	0.1+	970810 358	0.7-	1.0+	970815 426	0.7+	0.0
970801 426	0.2-	0.6-	970810 358	1.1+	1.5+	970822 426	0.5-	0.7-
970801 426	0.8-	0.6-	970810 358	(2.7+	1.0+)	970822 426	0.4-	0.5-
970804 426	0.3-	0.1-	970813 358	0.9+	0.6-	970822 426	0.7-	0.5-
970804 426	0.6-	0.1+	970813 358	0.8+	0.7-	970903 426	1.1-	0.0
970804 426	0.2-	0.4+	970814 426	0.6+	0.1+	970903 426	0.8-	0.0
970806 358	0.4-	0.2+	970814 426	0.5+	0.3+	970903 426	0.9-	0.1+
970806 358	0.4+	0.1+	970814 426	0.5+	0.2+			

1997 PC₁ = 1995 BT₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	24.22831		(2000.0)	P	Williams	Q
<i>n</i>	0.18016123	ω	226.03528	+0.36246964		+0.93169025
<i>a</i>	3.1047632	Ω	65.23053	-0.84739156		+0.34011309
<i>e</i>	0.1718438	<i>i</i>	1.50541	-0.38799911		+0.12757883
<i>P</i>	5.47	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i>	4

Residuals in seconds of arc

950129 691	0.2+	0.1-	970805 327	0.4-	0.1-	970826 046	0.4-	0.1+
950129 691	0.2+	0.1-	970805 327	0.1+	0.2+	970826 046	0.1-	0.1+
950129 691	0.0	0.1-	970805 327	0.2-	0.2-	970826 046	0.3+	0.2-
950201 691	0.3-	0.0	970810 327	0.0	0.2+	970826 046	0.4-	0.3-
950201 691	0.3-	0.2+	970810 327	0.0	0.1+	970826 046	0.4+	0.1-
950201 691	0.2+	0.1+	970810 327	0.4-	0.4+	970826 046	0.2+	0.4+
970803 327	0.0	0.0	970811 327	0.2+	0.5-	970826 046	0.0	0.2+
970803 327	0.4+	0.1+	970811 327	0.4+	0.0			
970803 327	0.2+	0.2-	970811 327	0.3-	0.1-			

1997 PK₁ = 1990 BK₄ = 1990 DJ₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	241.47472		(2000.0)	P	Williams	Q
<i>n</i>	0.20960619	ω	292.93756	+0.23292180		-0.96984450
<i>a</i>	2.8067257	Ω	143.35827	+0.93048968		+0.20080180
<i>e</i>	0.0797721	<i>i</i>	6.90564	+0.28273024		+0.13813141
<i>P</i>	4.70	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i>	4

Residuals in seconds of arc

900124 033	0.7+	0.4+	970804 684	0.3+	0.6+	970810 684	0.5-	0.7-
900125 033	1.1-	0.5-	970804 684	0.2+	0.6+	970823 684	0.7+	0.1+
900223 033	0.3+	0.3-	970805 684	0.3-	0.0	970823 684	0.7+	0.1-
900223 033	0.2+	0.7+	970805 684	0.4-	0.1+	970823 684	0.6+	0.0
970801 684	0.1-	0.0	970805 684	0.4-	0.0	970825 684	0.0	0.2-
970801 684	0.3-	0.0	970810 684	0.5-	0.5-	970825 684	0.0	0.2+
970804 684	0.2+	0.6+	970810 684	0.6-	0.5-	970825 684	0.2+	0.0

1997 PX₁ = 1964 EF = 1993 KU₂

Id. G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	23.05142		(2000.0)	P	Marsden	Q
<i>n</i>	0.27582806	ω	179.63484	+0.06090056		+0.99279982
<i>a</i>	2.3372783	Ω	93.85471	-0.91604095		+0.09663577
<i>e</i>	0.1227630	<i>i</i>	5.93398	-0.39643422		-0.07078162
<i>P</i>	3.57	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i>	3

Residuals in seconds of arc

640311 033	2.1-	1.0+	970809 046	0.1-	0.2-	970822 046	0.1-	0.2+
640312 033	1.5+	2.5-	970809 046	0.1+	0.3+	970823 046	0.0	0.2-
930527 010	1.7-	1.3-	970810 046	0.1+	0.1-	970823 046	0.0	0.1-
930527 010	0.9-	0.1-	970810 046	0.5+	0.3-	970823 046	0.1+	0.1-
930528 010	0.8-	0.9-	970810 046	0.5+	0.1+	970827 046	0.4-	0.1-
930529 010	0.7+	0.2+	970811 046	0.1+	0.1+	970827 046	0.4-	0.2-
930529 010	1.4+	1.3+	970811 046	0.2-	0.1+	970827 046	0.3-	0.2-
930529 010	1.6+	1.8+	970811 046	0.1-	0.1-	970830 566	0.0	0.1+
970807 046	0.2-	0.2-	970812 046	0.2-	0.4+	970830 566	0.4-	0.1+
970807 046	0.3-	0.2-	970812 046	0.3-	0.3+	970830 566	0.2+	0.0

1997 SEPT.16

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970807 046	0.6+	0.7−	970812 046	0.1−	0.1+	970901 566	0.4−	0.3+
970807 046	0.1+	0.2−	970813 046	0.1+	0.1−	970901 566	0.5−	0.3+
970807 046	0.1+	0.2−	970813 046	0.4+	0.0	970901 566	0.4−	0.3+
970807 046	0.1+	0.3−	970813 046	0.3+	0.1−	970902 566	0.3−	0.7+
970807 046	0.1+	0.3−	970814 046	0.9+	0.1−	970902 566	0.1−	0.7+
970807 046	0.0	0.4−	970814 046	0.6+	0.1−	970902 566	0.5−	0.3+
970807 046	0.2+	0.5−	970814 046	0.7+	0.0	970908 046	0.2−	0.2−
970807 046	0.3+	0.3−	970822 046	0.3+	0.2−	970908 046	0.3−	0.1+
970809 046	0.5+	0.3−	970822 046	0.0	0.0	970908 046	0.3−	0.1−

1997 PC₂ = 1989 GT₇ = 1996 FF₁

Id. G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	17.93422		(2000.0)	P	Q
<i>n</i>	0.27187472	ω	325.52660	+0.26101982	+0.96521468
<i>a</i>	2.3598813	Ω	319.59804	−0.88033319	+0.23157123
<i>e</i>	0.0715949	<i>i</i>	1.33863	−0.39608348	+0.12138936
<i>P</i>	3.63	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

890410 809	0.0	0.8−	960320 566	1.7+	0.1−	970824 358	(2.6−	1.0−)
890410 809	0.4−	0.9−	960320 566	1.6+	0.1−	970825 823	0.6+	0.2−
890410 809	0.6−	0.9−	970807 823	1.1−	0.8+	970825 823	0.2+	0.0
960319 566	(3.5+	3.8+)	970807 823	0.4+	0.9+	970826 823	0.2−	0.1+
960319 566	1.0−	1.7+	970808 823	0.1−	0.1+	970826 823	0.3+	0.3−
960319 566	(3.7+	3.7+)	970808 823	1.8+	0.1+	970827 358	0.1−	0.3−
960319 566	1.3−	2.0+	970823 358	(0.9+	2.7−)	970827 358	1.5+	1.4+
960319 566	(3.2+	4.1+)	970823 358	(1.3−	3.1−)	970830 358	1.2−	1.3+
960319 566	0.6−	1.5+	970824 358	1.6−	0.5+	970830 358	(2.3−	5.0−)
960320 566	1.9+	0.0	970824 358	1.9−	1.6−			

1997 PE₂ = 1993 TQ₁₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	332.83200		(2000.0)	P	Q
<i>n</i>	0.23358669	ω	184.45671	+0.84396573	+0.50155356
<i>a</i>	2.6111831	Ω	143.36376	−0.48175934	+0.86465471
<i>e</i>	0.3101203	<i>i</i>	18.58378	−0.23585968	+0.02857009
<i>P</i>	4.22	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

931009 675	0.9+	0.1+	970809 824	0.4+	0.2−	970825 824	0.3+	0.2+
931009 675	0.3−	0.4−	970809 824	0.5+	0.5−	970825 824	0.3+	0.3−
931014 675	0.2−	0.0	970809 824	0.1−	0.0	970826 824	0.0	0.3+
931014 675	0.5−	0.1+	970810 824	0.7−	0.5−	970826 824	0.2+	0.2−
970803 566	0.3−	0.3−	970810 824	(2.8−	0.1+)	970826 824	0.4+	0.6−
970803 566	0.3−	0.5−	970810 824	1.1−	1.2+	970902 824	0.1+	0.1−
970803 566	0.1+	0.8−	970815 824	0.2−	0.9+	970902 824	0.0	0.2−
970807 824	0.5+	0.1−	970815 824	0.2−	0.7+	970902 824	0.2−	0.1−
970807 824	0.6+	0.5+	970815 824	0.1−	0.5+			
970807 824	0.1−	0.3−	970825 824	0.1+	0.4+			

1997 PM₂ = 1993 XW₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	269.83833		(2000.0)	P	Q
<i>n</i>	0.20617662	ω	118.40217	+0.44206131	−0.89458518
<i>a</i>	2.8377651	Ω	305.21419	+0.79233407	+0.42370643
<i>e</i>	0.1519419	<i>i</i>	4.60319	+0.42046227	+0.14209230
<i>P</i>	4.78	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

931205 408	0.6+	1.3−	970809 658	0.5−	0.1+	970905 816	0.0	0.2−
931205 408	0.5+	1.1+	970809 658	0.2−	0.0	970905 816	0.4+	0.5−
931205 408	0.4+	0.8−	970809 658	0.2−	0.1−	970909 816	0.0	0.1−
931218 408	0.5−	0.4+	970810 816	0.3+	0.1+	970909 816	0.1−	0.1−
931218 408	1.0−	0.6+	970810 816	0.4+	0.3+	970909 816	0.1−	0.2+
970807 816	0.4+	0.1−	970810 816	0.3+	0.2+	970910 816	0.4−	0.1+
970807 816	0.0	0.2−	970902 816	0.0	0.1+	970910 816	0.1−	0.2+
970807 816	0.1−	0.4+	970902 816	0.1−	0.3+	970910 816	0.3−	0.2−
970807 816	0.1+	0.1+	970905 816	0.1+	0.4−			

1997 PG₃ = 1995 EO₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	324.53288		(2000.0)	P	Q
<i>n</i>	0.17317098	ω	199.81072	+0.97830128	+0.20554731
<i>a</i>	3.1877626	Ω	148.29225	−0.18279304	+0.91539925
<i>e</i>	0.1103236	<i>i</i>	2.83740	−0.09753619	+0.34611344
<i>P</i>	5.69	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

950302 691	0.1+	0.3+	970810 540	0.1−	0.2+	970825 540	0.0	0.4−
950302 691	0.0	0.3−	970811 540	0.1−	2.5−	970825 540	0.4+	0.0
950308 691	0.0	0.0	970811 540	1.3+	0.7+	970825 540	0.1−	0.0
950308 691	0.1−	0.1−	970811 540	0.1+	0.6+	970830 540	0.3−	0.8+
970810 540	0.4−	0.3−	970812 540	0.2+	0.4+	970830 540	0.1+	0.5−
970810 540	0.1−	0.3−	970812 540	0.1−	0.1+			
970810 540	0.2−	0.9+	970812 540	0.7−	0.3+			

1997 PR₃ = 1993 OQ₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	48.97999		(2000.0)	P	Q
<i>n</i>	0.26990022	ω	142.43074	−0.29900490	+0.95390631
<i>a</i>	2.3713768	Ω	110.15857	−0.88200646	−0.26600108
<i>e</i>	0.1778380	<i>i</i>	1.56679	−0.36422612	−0.13894664
<i>P</i>	3.65	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

930719 809	0.7−	0.9+	970805 327	0.0	0.4−	970901 327	0.3+	0.5+
930719 809	0.4−	0.4−	970805 327	0.1−	0.4−	970901 327	0.0	0.3+
930719 809	0.7+	0.4−	970805 327	0.1−	0.4−	970901 327	0.0	0.2−
930723 809	0.8−	0.3+	970810 327	0.5+	0.1−	970904 327	0.1+	0.0
930723 809	0.3−	0.1−	970810 327	0.3+	0.4−	970904 327	0.5−	0.4+
930723 809	1.5+	0.1−	970810 327	0.1+	0.0	970904 327	0.3−	0.4+

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1997 SEPT.16

1997 PC₄ = 1996 EL₁₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	351.78392		(2000.0)	P	Q
<i>n</i>	0.23431204	ω	142.84917	+0.57926442	+0.81465968
<i>a</i>	2.6057914	Ω	162.49435	-0.76843671	+0.55720204
<i>e</i>	0.2346556	<i>i</i>	5.33542	-0.27195174	+0.16079641
<i>P</i>	4.21	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

960311	691	0.3-	0.1-	970804	106	0.5+	0.2-	970830	566	0.1-	1.1+
960311	691	0.2-	0.3-	970812	106	0.4-	0.2+	970903	106	0.0	0.3-
960311	691	0.4-	0.2-	970812	106	0.6-	0.1+	970903	106	0.0	0.4-
960319	566	0.7+	0.2+	970822	106	0.5-	0.3-	970908	106	0.4+	0.4-
960319	566	0.2-	0.1-	970822	106	0.0	0.3-	970908	106	0.3+	0.5-
960319	566	0.3+	0.3+	970830	566	0.2-	0.5+				
970804	106	0.6+	0.3-	970830	566	0.1-	0.5+				

1997 PF₄ = 1981 UK

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	312.65362		(2000.0)	P	Q
<i>n</i>	0.24052315	ω	59.73011	+0.99369880	-0.07028739
<i>a</i>	2.5607359	Ω	304.16666	+0.02361686	+0.89275372
<i>e</i>	0.1437783	<i>i</i>	6.05700	+0.10956702	+0.44502862
<i>P</i>	4.10	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

811023	046	1.5+	2.1-	970806	620	0.3-	0.5+	970815	620	0.2-	0.4-
811023	046	0.4-	0.8-	970811	620	0.7+	0.4+	970829	620	0.0	0.0
811025	046	0.3-	2.2+	970812	620	0.6+	0.8+	970829	620	0.0	0.4-
811025	046	0.8-	0.7+	970813	620	0.7+	1.1-	970829	620	0.5+	0.2+
970806	620	0.8-	0.6-	970813	620	0.2-	0.2-				
970806	620	0.7-	0.1-	970815	620	0.4-	0.8+				

1997 PP₄ = 1987 TJ = 1994 TX₁₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	297.06106		(2000.0)	P	Q
<i>n</i>	0.29073569	ω	228.92267	+0.88873383	-0.45702570
<i>a</i>	2.2566826	Ω	158.19960	+0.44416924	+0.83916547
<i>e</i>	0.1412353	<i>i</i>	5.52761	+0.11342782	+0.29483695
<i>P</i>	3.39	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

870918	095	1.1-	0.8+	941006	033	0.9+	0.7-	970815	104	0.3+	0.1+
871003	399	0.2+	0.1-	970813	104	0.5-	0.5-	970816	104	0.6-	0.9+
871003	399	1.7-	0.9-	970813	104	0.9-	0.3+	970822	104	0.2-	0.9-
871003	399	2.3+	1.0+	970813	104	1.3-	1.3+	970822	104	0.5+	0.9-
941005	033	0.8-	0.1-	970815	104	0.4+	0.8-	970822	104	0.6+	0.8-
941005	033	0.1-	0.4+	970815	104	1.7+	0.8+				

1997 PQ₄ = 1996 EK₁₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	324.01921		(2000.0)	P	Q
<i>n</i>	0.28793787	ω	200.14773	+0.99303334	+0.10182893
<i>a</i>	2.2712774	Ω	153.79154	-0.08104239	+0.95549376
<i>e</i>	0.1866318	<i>i</i>	7.71564	-0.08553892	+0.27688001
<i>P</i>	3.42	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

960312	691	0.3-	0.1-	970813	104	0.4-	0.4+	970815	104	0.5-	0.4+
960312	691	0.1-	0.1-	970813	104	0.1-	0.0	970815	104	0.7+	0.4+
960312	691	0.0	0.2-	970813	104	0.1+	0.4+	970815	104	0.6-	1.1-
960421	691	0.0	0.1-	970813	104	0.2+	0.0	970822	104	0.7-	0.1-
960421	691	0.2+	0.2+	970813	104	0.2+	0.4+	970822	104	0.6+	0.7-
960421	691	0.0	0.1+	970813	104	0.4+	0.1-				

1997 QS = 1978 VV₁₀ = 1982 QS = 1996 KL₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	357.12069		(2000.0)	P	Q
<i>n</i>	0.19572153	ω	280.30999	+0.65349227	+0.75660988
<i>a</i>	2.9379449	Ω	30.53133	-0.67631812	+0.59676824
<i>e</i>	0.0823215	<i>i</i>	2.49570	-0.33991418	+0.26722492
<i>P</i>	5.04	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

781105	675	0.4+	0.5+	970826	118	(2.7+	2.5+)	970903	118	0.7+	0.7-
781106	675	(2.8+	1.1+)	970826	118	(2.3+	2.8+)	970903	118	0.7+	0.2-
781107	675	0.7-	0.6+	970828	118	0.1+	0.6+	970904	118	0.3+	0.0
781108	675	0.1+	0.7+	970828	118	0.3-	0.3+	970904	118	0.4-	0.2+
820817	801	0.1+	0.3-	970901	684	0.2-	0.8+	970904	118	1.3+	0.2-
820818	801	(5.4+	4.2+)	970901	684	0.4-	0.6+	970905	684	0.3-	0.4+
960519	809	0.7+	1.0-	970901	684	0.2-	0.6+	970905	684	0.2-	0.5+
960519	809	1.4+	0.6-	970901	118	0.4+	0.1+	970905	684	0.3-	0.4+
960519	809	1.5+	0.8-	970901	118	0.4+	0.3-	970907	118	0.3-	1.7-
960522	809	0.1-	1.8+	970901	118	0.5+	0.5+	970907	118	0.0	0.9-
960522	809	1.7-	1.6+	970902	566	0.1-	0.1+	970908	118	0.5-	0.6-
960522	809	1.3-	0.5+	970902	566	0.1-	0.4+	970908	118	0.9-	0.5-
970824	118	0.0	0.2+	970902	566	0.0	0.1+	970908	118	0.3-	0.0
970824	118	0.3+	0.7+	970902	118	0.3-	0.1-				
970824	118	0.1-	0.5-	970902	118	0.2-	0.0				

1997 QU = 1989 TR₁ = 1989 UM₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	308.56665		(2000.0)	P	Q
<i>n</i>	0.23919080	ω	184.34410	+0.93183635	-0.36216414
<i>a</i>	2.5702364	Ω	196.94364	+0.33524390	+0.88318772
<i>e</i>	0.2875606	<i>i</i>	4.47978	+0.13889758	+0.29802112
<i>P</i>	4.12	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

891009	400	2.1-	0.5-	970812	691	1.2-	0.5-	970831	910	1.0+	0.5+
891009	400	1.2+	0.9-	970825	824	0.6+	0.5-	970902	824	0.3+	0.1-
891021	400	(0.4+	4.1+)	970825	824	0.2+	1.0-	970902	824	0.3+	0.0
891021	400	0.9+	1.2+	970825	824	0.5+	1.4-	970902	824	0.1+	0.1+
970802	566	0.7+	0.5+	970826	824	1.2-	0.1-	970909	824	0.2-	0.7+
970802	566	0.5+	1.0+	970826	824	0.7-	0.0	970909	824	0.4-	0.4+
970802	566	1.1+	0.3+	970826	824	0.5-	0.1-	970909	824	0.4-	0.3+
970812	691	1.3-	0.4-	970831	910	0.9+	0.5+				
970812	691	1.2-	0.4-	970831	910	0.8+	0.5+				

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1997 QN₁ = 1987 QJ₇ = 1994 WP₁₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>	329.56641	(2000.0)		P		Q	
<i>n</i>	0.29484037	<i>ω</i>	114.34927	+0.92709834		+0.37074465	
<i>a</i>	2.2356891	<i>Ω</i>	223.94492	-0.36620049		+0.86459175	
<i>e</i>	0.2014801	<i>i</i>	4.55480	-0.07991164		+0.33916002	
<i>P</i>	3.34	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

870826	095	3.2+	1.1+	970830	589	0.1+	0.5-	970905	589	0.2-	0.0
870831	054	0.3-	1.3+	970830	589	0.4-	0.1-	970905	589	0.2-	0.3-
870901	095	3.6-	0.4-	970830	589	0.8-	0.3+	970908	589	0.9+	0.4-
941127	408	0.2-	0.6-	970831	589	0.2-	0.2+	970908	589	1.0+	0.4-
941127	408	0.1-	0.1-	970831	589	0.3-	0.3+	970908	589	0.8-	0.1+
941204	408	0.2+	0.3+	970901	589	0.2-	0.3+	970910	589	0.2+	0.3-
941204	408	0.5+	1.3+	970901	589	0.6+	0.2-	970910	589	0.4+	0.6-
941204	408	0.4-	0.8-	970901	589	0.7+	0.1-	970910	589	0.1-	0.3-
970830	589	0.0	0.3+	970905	589	0.2+	0.3-				

1997 QY₁ = 1929 TA₁ = 1982 SY₁₂ = 1995 DA₁₄ = 1996 KE₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	308.20925	(2000.0)		P		Q	
<i>n</i>	0.26024791	<i>ω</i>	338.94884	+0.91596046		-0.39916169	
<i>a</i>	2.4296546	<i>Ω</i>	44.64699	+0.37600219		+0.81803862	
<i>e</i>	0.2011765	<i>i</i>	3.35008	+0.14013848		+0.41410477	
<i>P</i>	3.79	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

291010	690	0.2-	0.1+	960519	809	0.5+	1.6-	970824	905	1.0-	0.2+
820928	095	1.2+	0.7-	960519	809	1.1-	0.3-	970827	905	0.6+	0.1+
950222	033	0.6+	1.1+	960519	809	1.6-	0.4-	970827	905	1.6-	0.5-
950222	033	0.2-	1.3+	960522	809	0.7-	1.2+	970903	385	0.3-	0.4+
960417	809	2.3+	0.2+	960522	809	0.5-	0.1+	970903	385	0.5-	0.3+
960417	809	2.2+	0.6+	960522	809	2.4-	0.4+	970904	385	0.1+	0.7+
960417	809	1.7+	0.6+	970824	905	1.0+	0.7+	970904	385	0.1-	0.6+

1997 QE₂ = 1988 VU₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	292.76964	(2000.0)		P		Q	
<i>n</i>	0.20929186	<i>ω</i>	15.08318	+0.69517837		-0.71750254	
<i>a</i>	2.8095353	<i>Ω</i>	30.91415	+0.65038461		+0.60186914	
<i>e</i>	0.1292808	<i>i</i>	4.88902	+0.30614848		+0.35063321	
<i>P</i>	4.71	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

881102	399	0.8-	1.2-	881111	399	(3.8-	0.9-)	970828	905	0.1-	0.1-
881102	399	(3.7-	0.8-)	881111	399	1.9-	1.5-	970828	905	1.1+	1.4+
881102	399	0.4-	0.1+	881111	399	(3.3-	1.0-)	970904	385	0.5-	0.6-
881103	327	0.7-	2.1+	881114	399	1.6+	0.3-	970904	385	0.7-	0.2-
881108	399	(1.8+	2.5+)	881114	399	(0.1+	3.2+)	970905	385	0.4-	0.1-
881108	399	0.7+	0.6-	881114	399	1.5+	1.5+	970905	385	0.1-	1.1-
881108	399	(0.9-	3.3+)	970827	905	0.7+	0.1+				
881111	399	(2.7-	0.5-)	970827	905	0.1+	0.6+				

1997 QZ₂ = 1985 DJ₁ = 1990 RZ₂

Id. G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	149.52482	(2000.0)		P		Q	
<i>n</i>	0.27844833	<i>ω</i>	208.64757	-0.98324365		-0.17688840	
<i>a</i>	2.3225923	<i>Ω</i>	321.08477	+0.17776154		-0.87675356	
<i>e</i>	0.0661031	<i>i</i>	4.02322	+0.04040734		-0.44722891	
<i>P</i>	3.54	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

850225	688	0.6+	0.1+	900920	675	0.7-	0.9+	970904	358	0.1-	0.4-
850225	688	0.7-	0.4-	970828	358	1.1-	0.4+	970904	358	1.4+	1.6+
900914	675	0.3-	0.4-	970828	358	0.1-	0.0	970906	910	0.2+	0.2-
900914	675	1.3+	1.0-	970830	358	0.5-	0.6-	970906	910	0.4+	0.2-
900920	675	0.5-	1.0+	970830	358	0.0	1.1-	970906	910	0.2+	0.2-

1997 QK₃ = 1990 WF₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	11.40012	(2000.0)		P		Q	
<i>n</i>	0.26592743	<i>ω</i>	169.69747	+0.54712513		+0.83598181	
<i>a</i>	2.3949363	<i>Ω</i>	133.45744	-0.77206434		+0.52352172	
<i>e</i>	0.1639299	<i>i</i>	3.33999	-0.32337401		+0.16449746	
<i>P</i>	3.71	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

901112	364	(3.5+	29.6+)	901119	809	1.1+	0.4+	970904	360	1.4+	0.5+
901112	364	(5.5+	29.7+)	970831	360	0.7-	0.2-	970904	360	1.2+	0.3+
901118	809	1.7-	0.5+	970831	360	0.8-	0.5-	970904	360	1.2+	0.4+
901118	809	1.1-	0.1+	970831	360	1.2-	0.2-	970909	360	0.7-	0.3-
901118	809	0.3+	0.1-	970902	360	0.5+	0.2+	970909	360	0.7-	0.2-
901119	809	0.1+	0.5-	970902	360	0.3+	0.1+	970909	360	0.6-	0.2-
901119	809	1.4+	0.4-	970902	360	0.3+	0.1+				

1997 QP₃ = 1996 FU₁₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>	18.91620	(2000.0)		P		Q	
<i>n</i>	0.25591207	<i>ω</i>	129.71122	+0.74139083		+0.67101804	
<i>a</i>	2.4570210	<i>Ω</i>	188.15606	-0.63280755		+0.69477854	
<i>e</i>	0.1969890	<i>i</i>	3.48621	-0.22337016		+0.25887753	
<i>P</i>	3.85	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

960324	809	0.3-	0.1+	970830	910	0.1+	0.1+	970909	910	0.3-	0.0
960324	809	0.2+	0.3-	970830	910	0.3+	0.0	970909	910	0.1-	0.1-
960324	809	0.1-	0.1-	970830	910	0.1+	0.1+	970909	910	0.2-	0.0
960326	809	0.3+	0.6-	970901	910	0.0	0.0	970912	910	0.0	0.4+
960326	809	0.0	1.6+	970901	910	0.1-	0.3-	970912	910	0.1+	0.4+
960326	809	0.0	0.2-	970901	910	0.0	0.2-	970912	910	0.1+	0.3+

1997 QB₄ = 1993 RM₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Urata			
<i>M</i>	331.73602	(2000.0)		P		Q	
<i>n</i>	0.24341091	<i>ω</i>	358.24711	+0.98963309		+0.14040246	
<i>a</i>	2.5404424	<i>Ω</i>	353.44602	-0.12833591		+0.77005220	
<i>e</i>	0.1419469	<i>i</i>	15.35509	-0.06446891		+0.62233975	
<i>P</i>	4.05	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

930914	809	(2.7+	0.2-)	930919	809	1.2-	0.1-	970904	385	0.1-	0.1+
930914	809	1.4+	0.8-	970827	905	0.7-	0.1+	970904	385	0.1+	0.2+

M.P.C. 30680

930914 809	0.8+	0.1-	970827 905	0.4+	0.1-	970911 385	1.6-	0.4+
930919 809	(4.2-	0.3+)	970901 905	1.3+	0.1-	970911 385	0.9-	0.8-
930919 809	0.6-	0.4+	970901 905	1.1+	0.7+			

1997 QG₄ = 1991 JR₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Urata		
<i>M</i>	45.69418	(2000.0)	P	Q	
<i>n</i>	0.19052065	ω 118.94992	-0.04352682	+0.99271566	
<i>a</i>	2.9911717	Ω 147.95159	-0.97440724	-0.01736109	
<i>e</i>	0.1420628	<i>i</i> 12.22286	-0.22053560	-0.11922333	
<i>P</i>	5.17	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 6	

Residuals in seconds of arc

910511 675	0.1+	0.2-	970827 905	0.0	0.1+	970909 905	0.1+	0.2+
910511 675	0.5-	0.0	970904 905	1.4+	0.5-	970911 385	0.2+	0.2-
910512 675	0.4+	0.2+	970904 905	0.7+	0.2+	970911 385	0.3-	0.1-
970827 905	0.8-	0.0	970909 905	1.2-	0.5+			

1997 QS₄ = 1976 YP₅ = 1992 UX₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Nakano		
<i>M</i>	329.98673	(2000.0)	P	Q	
<i>n</i>	0.18006497	ω 152.90022	+0.99430073	+0.10632708	
<i>a</i>	3.1058697	Ω 201.00049	-0.10132876	+0.91980162	
<i>e</i>	0.1929936	<i>i</i> 1.24488	-0.03314440	+0.37770297	
<i>P</i>	5.47	<i>H</i> 14.1	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

761218 095	0.2-	2.1+	921103 010	2.5+	1.9+	970904 358	0.0	0.1-
921023 010	0.5+	1.0-	921103 010	0.4+	0.1+	970904 358	0.8-	1.4+
921023 010	1.2-	0.9-	921103 010	0.2+	1.7-	970909 358	(4.3-	0.6+)
921102 010	0.2+	0.2+	970830 358	0.7+	0.4+	970909 358	2.5-	1.0+
921102 010	0.9-	0.1-	970830 358	1.5+	0.6-			
921102 010	0.9-	0.6-	970904 358	0.7+	0.6-			

1997 RJ₁ = 1977 DG₆ = 1991 PF₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Nakano		
<i>M</i>	328.49673	(2000.0)	P	Q	
<i>n</i>	0.17189069	ω 236.14262	+0.99311137	-0.07810315	
<i>a</i>	3.2035720	Ω 128.18106	+0.10295919	+0.93753999	
<i>e</i>	0.1451588	<i>i</i> 6.37996	-0.05593932	+0.33899655	
<i>P</i>	5.73	<i>H</i> 13.8	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

770219 381	0.3+	0.4+	910805 809	1.1-	1.6-	970905 385	0.1-	0.1-
770219 381	0.2-	0.2-	910805 809	1.1-	1.6-	970905 385	0.2+	0.4-
910803 809	1.1+	2.2+	970903 385	0.2+	0.3-	970905 385	0.2-	0.1+
910803 809	1.5+	2.1+	970903 385	0.2+	0.2-	970905 385	0.4-	0.5+
910803 809	(0.9+	3.1+)	970904 385	0.1-	0.3+			
910805 809	0.4-	1.2-	970904 385	0.2+	0.2+			

1997 RN₁ = 1989 SL₁₁ = 1993 QU₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams		
<i>M</i>	335.70985	(2000.0)	P	Q	
<i>n</i>	0.24541849	ω 46.30075	+0.96063902	+0.27442865	
<i>a</i>	2.5265692	Ω 297.72796	-0.26683498	+0.86832106	
<i>e</i>	0.2716263	<i>i</i> 2.79391	-0.07727721	+0.41316759	
<i>P</i>	4.02	<i>H</i> 16.0	<i>G</i> 0.15	<i>U</i> 3	

1997 SEPT.16

Residuals in seconds of arc

890930 809	0.8+	0.4+	930816 010	1.1-	1.4-	970904 327	0.0	0.8+
890930 809	1.0+	0.4+	930817 010	0.7+	2.2-	970904 327	0.2+	0.5+
890930 809	1.7+	0.3+	970615 691	0.6+	0.4+	970904 327	0.3+	0.7+
891001 809	0.4-	0.4-	970615 691	1.0+	0.2+	970912 327	0.4-	0.5+
891001 809	0.1-	0.5-	970615 691	1.1+	0.5+	970912 327	0.1+	0.2+
891001 809	0.1+	0.6-	970901 327	0.5-	0.4+	970912 327	0.3-	0.4+
930816 010	1.8-	0.7-	970901 327	0.2-	0.6+	970912 327	0.2-	0.4+
930816 010	1.2-	1.4-	970901 327	0.4-	0.5+			

1997 RO₃ = 1986 VQ₈ = 1993 PQ₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Urata		
<i>M</i>	323.10025	(2000.0)	P	Q	
<i>n</i>	0.26442992	ω 208.00769	+0.96741253	-0.25234510	
<i>a</i>	2.4039697	Ω 166.55963	+0.24583276	+0.91632114	
<i>e</i>	0.1126103	<i>i</i> 5.14792	+0.06065690	+0.31093009	
<i>P</i>	3.73	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

861104 675	0.0	0.3+	930814 010	1.1+	1.7-	970905 905	0.4+	0.1+
861104 675	0.0	0.3-	930815 010	(0.7+	4.1-)	970905 905	0.8+	0.1-
930814 691	1.5-	1.0+	930818 010	0.7+	0.5+	970909 905	0.3-	0.1+
930814 691	1.3-	1.8+	930818 010	0.1+	0.3+	970909 905	0.7-	0.1+
930814 691	1.1-	1.2+	930818 010	0.8+	0.5+	970911 385	0.2+	0.3-
930814 010	1.1+	1.9-	970904 905	0.6-	0.2-	970911 385	0.7+	0.2+
930814 010	0.2+	1.8-	970904 905	0.5-	0.2+			

**1997 RP₃ = 1969 VE₂ = 1980 TL = 1982 BL₁₅ = 1988 CB₆ = 1991 SZ₁
= 1992 YU₅ = 1994 GZ₉ = 1996 KZ**

Id. T. Urata, S. Nakano

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Nakano		
<i>M</i>	310.44279	(2000.0)	P	Q	
<i>n</i>	0.17293320	ω 275.81397	+0.65177070	-0.75779322	
<i>a</i>	3.1906840	Ω 133.46185	+0.71151402	+0.59693330	
<i>e</i>	0.1690350	<i>i</i> 2.42657	+0.26256953	+0.26347689	
<i>P</i>	5.70	<i>H</i> 12.6	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

691115 095	(4.6-	7.3+)	910916 675	0.1-	0.8+	960524 867	0.4+	0.4+
801003 046	0.5-	2.0-	910916 675	0.4+	1.1+	960524 867	0.3-	0.9+
801003 046	0.9+	1.2-	921217 399	0.4+	0.9+	960525 867	(8.7-	3.5-)
801005 046	0.3-	1.7-	921217 399	0.6+	0.7+	970904 905	(2.6-	0.8+)
801005 046	1.7+	0.3-	930113 399	0.9+	1.4+	970904 905	0.3+	0.2+
820130 675	0.9-	0.6-	930113 399	0.8-	1.0+	970905 905	0.5+	0.2+
820131 675	0.6-	0.6-	940403 033	(2.8-	0.3+)	970905 905	1.2-	1.0+
880214 809	0.6+	0.3+	940403 033	1.0-	0.0	970909 905	0.1+	0.1+
880214 809	0.7+	0.4+	940403 033	1.9-	0.1+	970909 905	1.9-	0.1-
880214 809	1.5+	1.0+	940404 033	(3.2-	0.1-)	970911 385	0.1+	0.4+
880215 809	0.8+	0.3-	960522 867	0.2-	0.2+	970911 385	0.0	0.4+
880215 809	0.4-	0.1-	960522 867	0.4-	0.1+	970911 385	0.0	0.5+
910914 675	0.5-	0.1-	960523 867	1.6+	0.3-			
910914 675	0.4-	0.9+	960524 867	0.2-	0.8+			

1997 SEPT.16

M.P.C. 30681

1997 RQ₃ = 1980 RB₂ = 1991 PX₁₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Urata

<i>M</i>	7.11624	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17426970	ω 194.77028	+0.85387561	+0.51957739
<i>a</i>	3.1743499	Ω 133.88369	-0.47312107	+0.79933817
<i>e</i>	0.1855910	<i>i</i> 2.43252	-0.21691681	+0.30182414
<i>P</i>	5.66	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

800915 511	0.4+	0.3+	910810 675	0.3+	0.1-	970909 905	2.2-	0.4-
800915 511	0.0	0.1+	910810 675	1.4+	0.4+	970909 905	0.3-	0.0
800915 511	0.4-	0.4-	970904 905	1.4+	0.3-	970911 385	0.6+	0.0
910806 809	0.5-	0.0	970904 905	0.0	1.0-	970911 385	0.5+	0.2+
910806 809	0.7-	0.3-	970905 905	0.4-	1.0+	970911 385	0.7+	0.2+
910806 809	0.4-	0.1-	970905 905	0.4-	0.3+			

1997 RA₇ = 1977 EM₆ = 1978 RG₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	41.01606	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.30867492	ω 21.07883	-0.09640591	+0.99463688
<i>a</i>	2.1683788	Ω 243.40518	-0.91909734	-0.10340467
<i>e</i>	0.0922882	<i>i</i> 2.40107	-0.38205494	-0.00222457
<i>P</i>	3.19	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

770312 381	0.8-	0.5+	770315 381	0.6-	0.3-	970904 966	0.1-	0.8+
770312 381	0.0	0.2+	780906 095	0.0	0.1+	970904 966	0.4+	0.1+
770314 381	0.2+	0.0	970903 966	0.2+	0.5+	970909 966	0.4+	1.1-
770314 381	0.7+	0.4-	970904 966	0.5-	0.3+	970909 966	0.4+	0.3-
770315 381	0.6+	0.1+	970904 966	0.7-	0.5-			

2657 P-L = 1997 FN₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	349.67072	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25763802	ω 189.00582	-0.73740888	+0.67451496
<i>a</i>	2.4460355	Ω 33.49817	-0.61564040	-0.64958892
<i>e</i>	0.0818627	<i>i</i> 3.68421	-0.27787594	-0.35080451
<i>P</i>	3.83	<i>H</i> 15.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

600924 675	0.8+	0.3-	601025 675	0.9+	0.3+	970311 809	0.4-	0.2-
600926 675	0.1-	0.6-	601026 675	0.1-	0.3+	970311 809	0.2-	0.0
600927 675	0.3+	1.2+	601026 675	1.5+	0.3-	970331 704	0.1+	0.2+
600928 675	0.6-	0.2+	970310 809	0.8+	0.8+	970331 704	0.2+	0.3+
601017 675	0.8-	0.1+	970310 809	0.2+	0.1+	970403 704	0.4-	0.6-
601022 675	0.7-	0.2-	970310 809	0.1+	0.1+	970403 704	0.2-	0.7+
601025 675	1.3-	0.2-	970311 809	0.0	0.9-			

4535 P-L = 1995 YV₂₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	117.69518	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17292192	ω 359.25018	+0.73758077	-0.67525402
<i>a</i>	3.1908228	Ω 43.22407	+0.61955749	+0.67521933
<i>e</i>	0.1643963	<i>i</i> 0.21509	+0.26855750	+0.29683473
<i>P</i>	5.70	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

600924 675	0.0	0.4-	601024 675	0.9-	0.1-	951224 566	0.2+	0.6+
600926 675	0.6+	0.2-	601026 675	1.6+	0.4-	951224 566	0.3+	0.6+
600927 675	0.5-	1.6+	951222 566	0.0	0.1+	951225 566	0.1-	0.6-
600928 675	0.1-	0.3+	951222 566	0.2+	0.0	951225 566	0.5-	0.6-
601017 675	0.8-	0.0	951222 566	0.1+	0.1+	951225 566	0.5-	0.6-
601022 675	0.2+	0.9-	951224 566	0.3+	0.5+			

4573 P-L = 1997 GZ₃₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	95.34598	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17473132	ω 77.36400	-0.13446496	-0.98920883
<i>a</i>	3.1687566	Ω 20.63659	+0.83298158	-0.14464005
<i>e</i>	0.0804955	<i>i</i> 9.50199	+0.53671301	-0.02334847
<i>P</i>	5.64	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

600926 675	0.5+	0.0	970310 809	0.5+	1.6+	970406 566	0.2+	0.5+
600927 675	0.3+	0.0	970310 809	0.1+	0.4+	970406 566	0.1-	0.5+
600928 675	0.1-	0.2+	970311 809	1.4-	1.2-	970406 566	0.4-	0.3-
601017 675	0.7-	0.0	970311 809	1.0-	0.6-	970506 691	0.2-	0.1-
601022 675	0.6-	0.7+	970311 809	0.6-	1.0-	970506 691	0.0	0.2-
601026 675	0.0	0.1+	970403 704	0.7+	0.6+	970506 691	0.0	0.5-
970310 809	0.8+	1.0+	970403 704	2.0+	0.4+			

4800 P-L = 1997 PG₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	344.99934	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26488359	ω 156.08736	+0.66649161	+0.74530511
<i>a</i>	2.4012240	Ω 155.69779	-0.69069919	+0.62619380
<i>e</i>	0.2123140	<i>i</i> 2.44892	-0.28057720	+0.22891400
<i>P</i>	3.72	<i>H</i> 15.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

600924 675	0.1-	0.0	601026 675	0.4-	1.0-	970813 620	0.3+	1.0-
600926 675	0.4-	0.0	970811 620	0.2-	0.1-	970825 620	0.6+	1.6+
600927 675	0.4+	0.6+	970811 620	0.6-	0.0	970825 620	0.1-	0.6+
600928 675	0.1-	0.4+	970811 620	0.8-	0.1-	970825 620	0.6-	0.6-
601022 675	0.1-	0.5-	970813 620	1.0+	0.1+			
601025 675	0.7+	0.4+	970813 620	0.5+	0.5-			

6523 P-L = 1997 EP₄₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	247.56055	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23249716	ω 326.51462	+0.93770958	+0.34302041
<i>a</i>	2.6193344	Ω 13.75353	-0.24548681	+0.76645183
<i>e</i>	0.1813382	<i>i</i> 13.40461	-0.24583931	+0.54303646
<i>P</i>	4.24	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

600926 675	0.6+	0.6+	970210 910	0.5-	0.1+	970313 809	0.2-	0.8+
600927 675	1.2+	0.2+	970210 910	0.2-	0.0	970401 809	(2.0-	4.6+)
600928 675	0.9+	0.3-	970210 910	0.4-	0.0	970401 809	(2.7-	4.2+)
601017 675	0.3-	0.3-	970312 809	0.6+	1.2-	970401 809	(2.6-	2.9+)
601022 675	0.1-	0.2+	970312 809	0.1-	0.6-	970411 704	0.6-	0.5+
601022 675	1.9-	0.5-	970312 809	0.4+	0.5-	970411 704	0.8-	1.3+

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601024 675 0.5- 0.3+ 970313 809 1.0+ 0.7+
 601026 675 0.8- 0.7+ 970313 809 1.4+ 0.0

6570 P-L = 1993 SY₄Id. G. V. Williams (Williams *MPC* 22966)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	312.24253		(2000.0)	P	Q
<i>n</i>	0.26821303	ω	242.22826	+0.45671410	-0.88961342
<i>a</i>	2.3813111	Ω	180.59699	+0.83029405	+0.42643721
<i>e</i>	0.2078899	<i>i</i>	2.41071	+0.31941198	+0.16352146
<i>P</i>	3.67	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

600924 675 0.4- 0.0 601026 675 0.2- 1.4+ 930920 010(21.3- 4.0-)
 600926 675 0.9- 1.8- 910207 675 0.3- 0.6- 970902 046 0.0 0.1-
 600927 675 1.1+ 0.2- 910207 675 0.1+ 0.0 970902 046 0.1+ 0.1-
 600928 675 0.5+ 1.4- 930919 010(19.4- 3.5-)
 601017 675 0.2+ 1.0+ 930919 010(19.6- 2.8-)
 601022 675 0.9- 0.1- 930920 010(20.2- 3.3-)
 601024 675 0.6+ 1.2+ 930920 010(19.1- 2.3-)

1148 T-1 = 1997 EM₅₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	319.83436		(2000.0)	P	Q
<i>n</i>	0.30378474	ω	260.24419	-0.18575757	+0.98259538
<i>a</i>	2.1915872	Ω	359.04974	-0.88498857	-0.16760052
<i>e</i>	0.0968553	<i>i</i>	2.30830	-0.42695358	-0.08010236
<i>P</i>	3.24	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

710324 675 1.4+ 1.0- 710402 675 1.2+ 0.8+ 970310 809 0.5- 0.6-
 710325 675 0.0 0.1- 970308 809 0.2+ 0.3+ 970310 809 0.0 1.6-
 710325 675 1.0- 1.0+ 970308 809 0.5+ 0.4+ 970310 809 0.2+ 1.7-
 710326 675 0.5+ 0.6- 970308 809 0.4+ 0.8+ 970311 809 0.3- 0.3-
 710326 675 0.7+ 0.0 970309 809 0.3+ 1.4+ 970311 809 0.2- 0.1-
 710327 675 2.2- 0.6- 970309 809 0.2- 1.3+ 970311 809 0.1- 1.2-
 710327 675 0.5- 0.9+ 970309 809 0.4- 0.9+

1252 T-1 = 1997 RK

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	119.86439		(2000.0)	P	Q
<i>n</i>	0.27578831	ω	345.82153	-0.99669484	+0.07276877
<i>a</i>	2.3375028	Ω	198.46655	-0.05888286	-0.95338100
<i>e</i>	0.0383018	<i>i</i>	6.54645	-0.05596609	-0.29286409
<i>P</i>	3.57	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

710324 675 1.5+ 0.3- 710416 675 0.0 0.7- 970901 566 0.3- 0.2-
 710325 675 0.4+ 0.9+ 710416 675 0.7- 0.2- 970901 566 0.0 0.3-
 710325 675 0.8+ 0.2- 710513 675 0.8+ 0.6- 970902 566 0.1- 0.3+
 710326 675 0.7- 0.6+ 710514 675 0.6+ 0.4+ 970902 566 0.2+ 0.0
 710327 675 0.7- 0.3- 710516 675 0.9- 0.7+ 970902 566 0.6+ 0.3+
 710402 675 1.2- 0.1- 970901 566 0.3- 0.2-

1290 T-1 = 1997 GE₁₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	85.87297		(2000.0)	P	Q
<i>n</i>	0.26612480	ω	282.08475	-0.45604701	-0.88951095
<i>a</i>	2.3937520	Ω	195.14325	+0.85266913	-0.42766768
<i>e</i>	0.0687923	<i>i</i>	6.18207	+0.25490484	-0.16084349
<i>P</i>	3.70	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

710324 675 0.4- 0.6+ 710402 675 1.9- 0.2+ 970405 704 0.7- 0.5+
 710325 675 1.9+ 1.1+ 710416 675 0.6- 1.0- 970405 704 0.1- 0.4+
 710325 675 0.8+ 0.2- 710416 675 1.1- 1.4- 970405 704 0.3- 0.1+
 710325 675 0.3- 0.4+ 710513 675 0.2+ 0.3+ 970405 704 0.5- 0.1-
 710326 675 1.9+ 1.4- 710514 675 0.1+ 0.4+ 970406 704 0.2+ 0.0
 710326 675 0.8- 0.7+ 710516 675 0.6+ 0.3+ 970406 704 0.1- 0.5+
 710326 675 0.4- 0.2- 970403 704 0.1- 0.2- 970407 704 0.2+ 0.1+
 710327 675 (5.0+ 2.8-) 970403 704 0.8+ 0.2+ 970407 704 0.8+ 1.1-

4339 T-1 = 1990 SY₂₂ = 1997 PZ₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Marsden			
<i>M</i>	43.35853		(2000.0)	P	Q
<i>n</i>	0.27422473	ω	213.45236	-0.23850341	+0.96786035
<i>a</i>	2.3463798	Ω	42.90187	-0.86333932	-0.17370045
<i>e</i>	0.0966833	<i>i</i>	6.72899	-0.44470366	-0.18186395
<i>P</i>	3.59	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

710324 675 0.1+ 1.2- 710513 675 0.0 0.6- 900925 809 0.2- 1.0-
 710326 675 0.6+ 0.4+ 710513 675 (3.0- 2.1-) 970812 684 0.3- 0.1+
 710326 675 (2.5- 0.1-) 710514 675 0.1+ 0.5+ 970812 684 0.0 0.1+
 710327 675 (3.4- 1.2-) 710514 675 (2.3- 1.6-) 970812 684 0.2- 0.2+
 710402 675 0.9- 1.3+ 710516 675 0.7- 1.1- 970813 684 0.0 0.1+
 710416 675 0.7+ 0.9- 900925 809 (2.8+ 0.5+) 970813 684 0.2+ 0.1+
 710416 675 0.4- 0.6+ 900925 809 0.9+ 0.1- 970813 684 0.1+ 0.0

1069 T-2 = 1997 RR₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	18.76837		(2000.0)	P	Q
<i>n</i>	0.28637157	ω	68.41917	+0.26122159	+0.96489195
<i>a</i>	2.2795517	Ω	216.75785	-0.90166005	+0.23379956
<i>e</i>	0.1466962	<i>i</i>	2.61736	-0.34463376	+0.11967163
<i>P</i>	3.44	<i>H</i>	17.5	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

730919 675 0.4+ 1.1+ 730929 675 0.1+ 1.5- 970908 910 0.0 0.0
 730919 675 0.7- 0.4- 730929 675 1.2+ 0.2- 970908 910 0.1- 0.1+
 730920 675 0.7+ 0.9- 730930 675 2.4- 0.2+ 970908 910 0.1- 0.1+
 730924 675 1.8+ 0.6- 730930 675 1.3- 0.2- 970908 910 0.0 0.0
 730924 675 1.4+ 1.3- 731005 675 0.1+ 1.1+ 970908 910 0.0 0.1+
 730925 675 2.4- 0.3- 731005 675 1.7+ 1.3+
 730925 675 0.4- 1.1+ 970908 910 0.2+ 0.0

1140 T-3 = 1997 NB₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams					
<i>M</i>	283.79750	(2000.0)	P			Q		
<i>n</i>	0.18931784	ω	109.18565	+0.96742548	-0.22321890			
<i>a</i>	3.0038278	Ω	263.85159	+0.16251754	+0.90930008			
<i>e</i>	0.1352358	<i>i</i>	6.89853	+0.19410305	+0.35120747			
<i>P</i>	5.21	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

771007 675	1.0+	2.0-	771016 675	1.2-	0.4+	970707 327	0.2-	0.2+
771011 675	0.3+	0.7+	771017 675	0.8-	1.1-	970707 327	0.1-	0.1-
771011 675	1.1+	0.7+	771017 675	0.4-	0.2-	970708 327	0.7-	0.5-
771012 675	0.1+	1.0+	771022 675	0.1+	1.4-	970708 327	0.2+	0.1-
771012 675	0.1+	1.2+	771022 675	0.4+	0.1+	970712 327	0.1+	0.2+
771016 675	0.6-	0.7+	970707 327	0.3+	0.5+	970712 327	0.4+	0.2-

2077 T-3 = 1997 GT₂₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams					
<i>M</i>	4.55617	(2000.0)	P			Q		
<i>n</i>	0.27925132	ω	209.83142	-0.83622860	+0.54829850			
<i>a</i>	2.3181377	Ω	3.46374	-0.46681689	-0.70264166			
<i>e</i>	0.2013548	<i>i</i>	9.05877	-0.28775636	-0.45350133			
<i>P</i>	3.53	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

771011 675	0.4-	1.7+	970331 704	0.8+	0.5-	970405 704	0.7-	0.3+
771011 675	1.6-	1.6+	970331 704	0.2-	0.4-	970405 704	0.5-	1.1+
771012 675	0.5+	0.2-	970331 704	0.5+	1.5-	970406 704	0.5-	0.6+
771012 675	0.7+	1.2-	970331 704	0.4+	1.8+	970406 704	0.6-	0.1-
771016 675	1.1-	2.5-	970403 704	0.1-	0.2+	970407 704	0.2+	1.1-
771016 675	1.5+	2.0-	970403 704	0.3-	0.0	970407 704	1.1+	0.5-
771017 675	1.1+	2.3+	970405 704	0.3-	0.1+			
771017 675	0.8-	0.5+	970405 704	0.3+	0.0			

2182 T-3 = 1997 RM₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams					
<i>M</i>	76.57596	(2000.0)	P			Q		
<i>n</i>	0.29391366	ω	4.37625	-0.46584439	+0.88403199			
<i>a</i>	2.2403861	Ω	237.86317	-0.81322039	-0.44483898			
<i>e</i>	0.0988400	<i>i</i>	2.60082	-0.34880022	-0.14354697			
<i>P</i>	3.35	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

771007 675	0.8+	1.2-	771016 675	0.3-	1.7-	771022 675	0.3-	2.1+
771011 675	0.9+	1.4+	771016 675	0.8-	0.6-	970904 327	0.0	0.1-
771011 675	0.8-	0.6+	771017 675	0.4-	0.6-	970904 327	0.1+	0.0
771012 675	0.2+	0.5+	771017 675	0.6-	0.4-	970904 327	0.5-	0.4-
771012 675	0.3+	0.4-	771021 675	0.2-	0.8-	970912 327	0.1+	0.2+
771012 675	0.0	0.3+	771021 675	2.1+	1.1-	970912 327	0.0	0.1+
771012 675	0.8+	0.8+	771022 675	1.6-	1.0+	970912 327	0.2+	0.2+

2311 T-3 = 1997 RC₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams					
<i>M</i>	36.09017	(2000.0)	P			Q		
<i>n</i>	0.19308723	ω	74.39254	+0.26996694	+0.95934481			
<i>a</i>	2.9646063	Ω	211.64249	-0.93257825	+0.23924283			
<i>e</i>	0.0385261	<i>i</i>	9.02704	-0.23961565	+0.14973446			
<i>P</i>	5.10	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

771007 675	1.1+	0.2+	771017 675	0.7-	1.5+	771022 675	1.3+	0.9-
771011 675	0.5-	1.9+	771021 675	(3.0-	2.9+)	970907 966	0.7+	0.6+
771011 675	1.5-	0.4+	771021 675	1.7+	1.7-	970907 966	0.5+	0.5-
771012 675	0.3-	0.2-	771021 675	(3.5-	1.3+)	970907 966	0.9-	0.3-
771012 675	0.3-	1.4-	771021 675	1.8+	0.1-	970909 966	(2.4+	0.6-)
771016 675	1.5-	2.0-	771022 675	0.0	2.3+	970909 966	0.1-	0.8-
771016 675	0.3-	1.5-	771022 675	0.0	0.3-	970910 966	0.2-	0.9+
771017 675	1.2-	0.3+	771022 675	0.3+	1.6+			

3459 T-3 = 1997 RD₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams					
<i>M</i>	296.42518	(2000.0)	P			Q		
<i>n</i>	0.29417345	ω	199.92019	+0.75766618	-0.65253798			
<i>a</i>	2.2390669	Ω	200.82665	+0.60314734	+0.70692393			
<i>e</i>	0.1970745	<i>i</i>	1.88063	+0.24930953	+0.27286029			
<i>P</i>	3.35	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

771007 675	0.1+	0.3-	771016 675	1.1+	1.0-	970906 122	0.3-	0.2-
771011 675	0.5-	0.4+	771017 675	0.9+	1.4-	970906 122	0.1+	0.1-
771011 675	0.6-	0.6+	771017 675	0.4-	0.8-	970908 122	0.1+	0.1+
771012 675	0.4+	0.1-	771021 675	0.5+	0.1-	970908 122	0.1+	0.2+
771012 675	0.2-	0.9+	771021 675	1.4-	1.5+	970908 122	0.0	0.2-
771016 675	0.1+	0.3+	970906 122	0.1-	0.1+			

4082 T-3 = 1993 FH₃₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams					
<i>M</i>	322.42254	(2000.0)	P			Q		
<i>n</i>	0.22351693	ω	33.17810	-0.81303994	+0.58212372			
<i>a</i>	2.6890307	Ω	182.48943	-0.57138044	-0.80106868			
<i>e</i>	0.1187393	<i>i</i>	13.17636	-0.11176070	-0.13935903			
<i>P</i>	4.41	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

771011 675	1.6+	0.9-	771016 675	0.3-	1.1+	771022 675	0.4+	1.8-
771011 675	0.4+	0.2-	771017 675	0.5+	0.0	930319 809	1.3+	0.3+
771012 675	1.2-	1.3-	771017 675	0.7-	0.3-	930320 809	0.4+	0.6-
771012 675	0.0	0.5-	771021 675	0.6-	1.4+	930324 809	1.7-	0.0
771016 675	0.3-	0.9+	771021 675	0.2+	1.4+			

Object	<i>H</i>	<i>G</i>	Epoch	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	<i>a</i>	Obs.	Opp. & Arc	rms Perts	<i>U</i>	Computer	<i>MPC</i>	Object
(111)	8.02	0.15	19970601	339.09329	166.68424	305.98422	4.92146	0.1014232	2.5945212	239	37 1870-1997	1.02	M-v 1	Williams	29939	(111)
(314)	9.5	0.15	19970601	322.50537	190.26945	170.65082	12.56879	0.1857357	3.1483463	90	23 1891-1997	0.96	M-v 1	Williams	28882	(314)
(322)	9.01	0.15	19970601	298.09389	113.71592	252.99685	8.02149	0.2471458	2.7817962	103	28 1891-1997	0.97	M-v 1	Williams	20010	(322)

(668)	11.8	0.15	19970601	347.41049	112.79114	214.81823	6.82792	0.2365406	2.7945622	61	15	1908-1997	0.95	M-v	1	Williams	26916	(668)
(1193)	12.2	0.15	19970601	114.51478	184.89181	49.82584	14.12084	0.1219453	2.6468638	32	11	1931-1997	1.19	M-v	2	Williams	26922	(1193)
(1583)	8.60	0.15	19970601	329.12540	186.11099	221.35738	28.56210	0.0538182	5.1003466	101	21	1950-1997	0.93	M-v	0	Williams	26924	(1583)
(1959)	12.9	0.15	19970601	13.39784	31.37357	285.29069	6.19696	0.1333676	2.3162771	46	9	1930-1997	1.06	M-v	1	Williams	30469	(1959)
(2170)	13.9	0.15	19970601	309.20725	116.07726	256.16285	2.08087	0.1821803	2.4051720	34	9	1949-1997	1.03	M-v	1	Williams	30090	(2170)
(2693)	13.3	0.15	19970601	292.56054	345.74172	59.95976	7.30386	0.1806052	2.2400745	70	5	1977-1997	0.66	M-v	2	Williams	27454	(2693)
(2829)	10.3	0.15	19970601	4.29202	340.86960	324.24039	14.33312	0.1945677	3.0851301	22	7	1948-1997	0.84	M-v	2	Williams	30448	(2829)
(3082)	12.3	0.15	19970601	290.28106	231.61453	117.88692	10.35255	0.0775524	2.5768508	39	9	1936-1997	1.14	M-v	1	Williams	25538	(3082)
(3540)	9.0	0.15	19970601	253.31268	114.93292	26.42051	23.34787	0.1166179	5.2317007	29	7	1953-1997	0.55	M-v	1	Williams	29136	(3540)
(3855)	13.1	0.15	19970601	56.63997	233.33692	106.15948	6.84211	0.2090959	2.2371677	23	8	1946-1996	1.02	M-v	2	Williams	29137	(3855)
(3921)	12.7	0.15	19970601	321.38026	214.97422	155.63449	12.06142	0.2837683	2.6494521	11	5	1954-1997	0.81	M-v	1	Bowell	23527	(3921)
(4033)	13.7	0.15	19970601	103.07830	163.23687	46.59993	5.12412	0.0916304	2.2408439	91	7	1939-1997	0.80	M-v	1	Williams	24763	(4033)
(4146)	13.8	0.15	19970601	196.91931	321.05553	169.93885	4.70083	0.1060949	2.2598313	39	9	1938-1997	1.05	M-v	2	Williams	25340	(4146)
(4680)	14.2	0.15	19970601	307.48924	115.35768	302.76661	4.62012	0.1696519	2.3100227	25	6	1937-1997	1.05	M-v	3	Williams	26581	(4680)
(4684)	13.6	0.15	19970601	8.77426	50.43608	220.65167	5.27446	0.1113076	2.3978510	60	7	1978-1997	0.67	M-v	1	Williams	24573	(4684)
(4686)	13.4	0.15	19970601	321.24852	115.08555	237.30340	4.46920	0.1587502	2.3659216	64	6	1979-1997	0.66	M-v	1	Williams	29663	(4686)
(4886)	14.5	0.15	19970601	175.54719	138.89614	294.76487	4.81472	0.2076668	2.9185074	44	8	1954-1997	0.65	M-v	2	Williams	25433	(4886)
(5114)	12.6	0.15	19970601	41.33097	218.87770	24.61714	4.16399	0.0121171	2.4714092	49	6	1986-1997	0.99	M-v	1	Williams	29665	(5114)
(5258)	10.0	0.15	19970601	251.55231	225.21452	248.41770	5.87528	0.0812472	5.2715775	41	5	1989-1997	0.74	M-v	2	Bowell	26411	(5258)
(5321)	13.0	0.15	19970601	323.65715	138.20089	210.54245	13.55434	0.2216001	2.5811880	51	8	1931-1997	0.93	M-v	2	Williams	27560	(5321)
(5642)	13.5	0.15	19970601	324.79524	38.90296	310.31160	24.97330	0.3325955	2.3156293	29	5	1975-1997	0.65	M-v	2	Williams	29140	(5642)
(5786)	17.0	0.15	19970601	154.22918	8.27273	161.36090	23.24676	0.8268125	1.0815005	42	6	1991-1997	0.60	M-v	4	Williams	29666	(5786)
(5819)	13.6	0.15	19970601	294.57572	277.52325	151.73269	5.60920	0.1621593	2.5295392	29	7	1969-1997	0.73	M-v	3	Williams	29117	(5819)
(5879)	17.9	0.15	19970601	203.74035	355.52791	145.95002	21.57520	0.2893415	1.6248371	57	4	1992-1997	0.71	M-v	2	Williams	29320	(5879)
(6133)	13.3	0.15	19970601	312.88584	67.51622	217.48967	2.58212	0.1789203	2.4736367	31	6	1978-1997	0.67	M-v	1	Bowell	29641	(6133)
(6295)	13.6	0.15	19970601	318.46705	27.92384	333.91576	3.23579	0.1959111	2.3441786	32	7	1979-1997	0.85	M-v	2	Williams	30088	(6295)
(6423)	11.7	0.15	19970601	339.19965	34.34562	341.33437	11.19015	0.1933484	2.9979562	28	4	1940-1997	0.64	M-v	1	Bowell	29668	(6423)
(6991)	13.1	0.15	19970601	333.64119	228.93279	131.77172	5.75183	0.2032904	2.4020288	32	4	1965-1997	0.50	M-v	1	Bowell	30474	(6991)
(7037)	11.2	0.15	19970601	72.58986	296.57330	279.44268	11.09272	0.0967153	3.1152711	35	5	1971-1997	0.57	M-v	1	Williams	22972	(7037)
1958 TL ₁	12.0	0.15	19970601	332.61776	161.89494	203.77831	17.68353	0.1900493	3.1593939	36	4	1958-1997	0.70	M-v	2	Williams	27565	1958 TL ₁
1973 UR ₅	15.0	0.15	19970601	148.77360	15.01861	30.08735	2.82643	0.1957867	2.3749800	29	4	1973-1997	0.73	M-v	2	Williams	27118	1973 UR ₅
1975 SB ₁	13.5	0.15	19970601	227.14741	64.52937	32.58060	5.58091	0.0438154	3.1746883	23	3	1975-1997	0.82	M-v	3	Marsden	25972	1975 SB ₁
1975 UF	13.0	0.15	19970601	309.86873	265.26575	115.45418	2.23469	0.1938644	3.1716384	22	4	1975-1997	0.83	M-v	2	Williams	29652	1975 UF
1976 GD ₂	13.5	0.15	19970601	77.88227	22.71405	202.98459	8.36051	0.1381110	2.2487940	43	9	1953-1997	0.78	M-v	1	Williams	29939	1976 GD ₂
1976 SR ₅	14.0	0.15	19970601	258.91460	18.08175	34.43605	7.67178	0.1095490	2.3356581	32	6	1969-1997	0.83	M-v	2	Williams	29652	1976 SR ₅
1976 UR ₁₅	14.0	0.15	19970601	292.40207	338.73550	49.62038	9.89768	0.0569651	2.6370017	25	5	1976-1997	0.72	M-v	2	Williams	30468	1976 UR ₁₅
1977 DT ₂	13.5	0.15	19970601	54.70324	212.21165	56.98139	1.45847	0.0359442	2.7411351	22	3	1977-1997	0.49	M-v	4	Williams	25060	1977 DT ₂
1977 EM ₅	14.0	0.15	19970601	279.81635	223.40189	178.07023	9.57523	0.2114517	2.3926311	31	6	1977-1997	0.71	M-v	1	Williams	27930	1977 EM ₅
1977 ER ₅	13.5	0.15	19970601	151.12584	142.02719	266.60907	0.80720	0.0623536	2.9011476	23	3	1977-1997	0.74	M-v	6	Williams	26557	1977 ER ₅
1977 QQ ₅	15.0	0.15	19970601	326.21517	247.71127	134.51402	25.19591	0.4660720	2.2263924	103	4	1977-1997	0.50	M-v	1	Williams	30468	1977 QQ ₅
1977 RD ₂	12.5	0.15	19970601	305.49499	337.47409	50.44714	3.20312	0.1877850	2.9474377	27	8	1977-1997	0.62	M-v	1	Williams	27323	1977 RD ₂
1977 RZ ₈	12.5	0.15	19970601	60.47996	277.26937	341.14972	15.32589	0.1618008	2.9010488	19	7	1977-1997	0.74	M-v	1	Williams	27725	1977 RZ ₈
1978 QY ₁	14.0	0.15	19970601	286.12966	223.65859	168.50298	4.67149	0.1013043	2.4470092	22	5	1954-1997	0.85	M-v	1	Williams	30468	1978 QY ₁
1978 RR ₈	14.0	0.15	19970601	197.35187	325.00141	164.51889	11.10435	0.2341931	2.4414371	32	6	1978-1997	0.79	M-v	1	Williams	27930	1978 RR ₈
1978 SD ₇	14.5	0.15	19970601	259.95900	97.39563	216.96337	3.73527	0.2002927	2.2280791	29	3	1978-1997	0.94	M-v	4	Williams	30090	1978 SD ₇
1978 SV ₇	13.0	0.15	19970601	318.22110	33.56717	343.30724	6.77391	0.0743317	2.8486209	27	6	1954-1997	0.57	M-v	1	Williams	29652	1978 SV ₇
1978 TO ₈	13.0	0.15	19970601	181.89576	163.93338	214.48238	0.87637	0.1979417	3.0605234	42	7	1978-1997	0.88	M-v	1	Williams	29939	1978 TO ₈
1978 UW ₇	13.5	0.15	19970601	22.58370	71.46112	218.65000	11.89264	0.2176892	2.4443520	17	5	1954-1997	0.69	M-v	2	Williams	28314	1978 UW ₇
1978 VW ₂	14.0	0.15	19970601	55.23139	356.18723	134.77406	1.73555	0.1562009	3.1668461	19	4	1978-1997	0.87	M-v	1	Williams	30468	1978 VW ₂
1978 VT ₈	13.5	0.15	19970601	42.79793	358.70837	231.62625	4.76546	0.0125886	3.0028904	29	3	1978-1997	0.64	M-v	4	Williams	30287	1978 VT ₈
1978 VL ₁₀	13.5	0.15	19970601	299.50064	242.53240	161.38434	1.96218	0.1040023	2.8906369	18	5	1953-1997	0.88	M-v	2	Williams	25224	1978 VL ₁₀
1979 MR ₅	15.5	0.15	19970601	337.72058	80.23958	267.39630	1.94745	0.1369184	2.3244504	15	4	1978-1997	1.00	M-v	4	Williams	21965	1979 MR ₅

1979 MC ₉	17.0	0.15	19970601	5.32949	77.50305	187.65173	2.18534	0.1808761	2.3534298	17	4	1979–1997	0.56	M-v	2	Williams	26755	1979 MC ₉
1979 QC ₁	14.0	0.15	19970601	296.58813	60.44044	326.46274	11.68488	0.1738280	2.3477031	23	4	1954–1997	0.81	M-v	4	Williams	30468	1979 QC ₁
1979 SU ₂	14.0	0.15	19970601	287.31433	154.10711	238.12222	5.39605	0.1324657	2.3698286	28	3	1979–1997	0.45	M-v	4	Williams	21965	1979 SU ₂
1980 PB ₂	12.0	0.15	19970601	18.17526	114.14359	190.19951	10.50787	0.1023392	3.1857894	46	7	1955–1997	0.69	M-v	1	Williams	29653	1980 PB ₂
1980 SM	13.5	0.15	19970601	322.70194	27.16823	340.51373	9.07393	0.1988641	2.6338753	29	4	1980–1997	0.75	M-v	3	Williams	30468	1980 SM
1980 VA	15.0	0.15	19970601	323.91880	232.69728	169.39570	3.20897	0.2635737	2.2538091	33	4	1980–1997	0.92	M-v	2	Williams	21966	1980 VA
1981 EG ₅	14.0	0.15	19970601	331.08149	11.82497	321.07633	8.67370	0.1283499	2.4132634	36	4	1981–1997	0.85	M-v	2	Marsden	25647	1981 EG ₅
1981 EY ₁₀	14.5	0.15	19970601	263.40899	170.78839	210.15980	3.09095	0.1083341	2.4182674	49	5	1981–1997	0.76	M-v	1	Williams	30287	1981 EY ₁₀
1981 EK ₁₁	14.5	0.15	19970601	288.91031	186.25290	214.44208	9.42571	0.2176046	2.3574211	21	3	1981–1997	0.93	M-v	4	Williams	27303	1981 EK ₁₁
1981 EU ₁₃	15.0	0.15	19970601	268.83097	274.27022	199.12852	8.49151	0.1868128	2.3107014	26	3	1981–1997	0.68	M-v	3	Williams	21966	1981 EU ₁₃
1981 EG ₁₅	16.0	0.15	19970601	21.50013	18.78414	253.98054	1.99576	0.1270710	2.1139278	32	6	1981–1997	0.83	M-v	2	Williams	27725	1981 EG ₁₅
1981 EO ₁₈	14.5	0.15	19970601	261.52421	88.13103	331.64975	2.40018	0.0591946	2.3777498	33	6	1953–1997	0.79	M-v	1	Williams	24406	1981 EO ₁₈
1981 EJ ₂₂	15.0	0.15	19970601	358.75780	104.36945	188.34471	5.83845	0.2262345	2.4428904	27	4	1978–1997	0.78	M-v	2	Williams	22492	1981 EJ ₂₂
1981 EV ₂₂	14.0	0.15	19970601	318.96045	220.36283	168.69568	3.29639	0.2039978	2.7737225	25	4	1981–1997	0.52	M-v	1	Williams	29940	1981 EV ₂₂
1981 EW ₄₁	15.5	0.15	19970601	34.49768	153.08240	153.69780	1.56711	0.1946058	2.3870761	22	5	1981–1997	0.80	M-v	2	Williams	28611	1981 EW ₄₁
1981 GO ₁	15.0	0.15	19970601	143.14686	163.28475	12.25820	2.57031	0.1445635	2.3868725	52	6	1955–1997	0.59	M-v	1	Williams	30468	1981 GO ₁
1981 QK	14.5	0.15	19970601	254.36456	354.22812	359.77000	5.81764	0.1862429	2.2341439	25	5	1961–1997	0.96	M-v	3	Williams	21968	1981 QK
1981 RF ₇	13.5	0.15	19970601	317.46673	28.01278	350.85952	9.00005	0.3274044	3.0718853	18	4	1954–1997	0.75	M-v	2	Williams	30468	1981 RF ₇
1981 UT ₇	12.5	0.15	19970601	339.70234	206.95598	137.21747	1.73877	0.2033479	3.1360569	43	6	1953–1997	0.79	M-v	1	Williams	29654	1981 UT ₇
1981 UZ ₉	14.0	0.15	19970601	266.52973	21.07815	42.40930	6.85673	0.2488653	2.1979609	42	4	1981–1997	0.73	M-v	2	Williams	30468	1981 UZ ₉
1981 XM ₂	13.0	0.15	19970601	259.08387	172.85686	258.55275	10.80396	0.1074481	2.6009000	13	5	1951–1997	0.88	M-v	2	Williams	25225	1981 XM ₂
1981 YG	13.0	0.15	19970601	222.68930	216.37439	277.59858	14.83030	0.1308367	2.5830944	15	4	1981–1997	0.70	M-v	3	Williams	28294	1981 YG
1982 BM	13.5	0.15	19970601	141.86037	202.61102	307.85909	3.45645	0.1448469	2.7041705	27	6	1953–1997	0.79	M-v	1	Williams	28883	1982 BM
1982 DC ₂	15.5	0.15	19970601	172.58229	344.05604	164.31182	4.79315	0.1431949	2.2691789	39	4	1982–1997	0.62	M-v	4	Williams	30468	1982 DC ₂
1982 JD ₁	14.0	0.15	19970601	19.69781	36.48105	215.42507	8.38460	0.1727403	2.3816359	33	4	1982–1997	0.71	M-v	1	Marsden	26756	1982 JD ₁
1982 QX ₁	14.5	0.15	19970601	65.37187	161.45266	132.90864	7.54699	0.1225142	2.3534167	29	3	1982–1996	0.70	M-v	3	Williams	30287	1982 QX ₁
1982 RF	14.0	0.15	19970601	330.16814	188.16028	174.50506	2.29847	0.2272624	2.4080203	32	6	1955–1997	0.91	M-v	2	Williams	28611	1982 RF
1982 RR	13.5	0.15	19970601	189.64822	186.65231	174.10770	14.26406	0.3011678	2.5872175	19	3	1982–1997	1.00	M-v	3	Williams	29654	1982 RR
1982 UR ₆	14.0	0.15	19970601	355.88268	313.40229	46.82273	3.05631	0.2216181	2.4049668	24	8	1978–1997	0.79	M-v	2	Williams	30287	1982 UR ₆
1983 CO ₃	13.0	0.15	19970601	215.97253	224.26467	283.00790	14.14649	0.1651228	3.0870449	25	5	1972–1997	0.95	M-v	2	Williams	30468	1983 CO ₃
1983 PX	13.5	0.15	19970601	351.80948	112.46374	199.12897	8.82923	0.2691898	2.7951943	45	7	1974–1997	0.65	M-v	1	Williams	27726	1983 PX
1983 WJ	12.5	0.15	19970601	272.72234	325.77437	97.40061	3.26912	0.0876107	2.8943958	26	6	1978–1997	0.98	M-v	1	Williams	27931	1983 WJ
1983 WN	14.5	0.15	19970601	327.90974	110.79699	251.79840	9.32811	0.2493011	2.3314053	16	5	1951–1997	0.78	M-v	2	Williams	27726	1983 WN
1984 QM	14.5	0.15	19970601	346.61515	343.22537	321.51785	3.26949	0.1788231	2.2054025	24	5	1970–1997	0.90	M-v	2	Marsden	27305	1984 QM
1984 UN ₂	13.5	0.15	19970601	228.72306	140.64391	196.94100	1.60380	0.0516898	2.9114842	36	3	1984–1997	0.72	M-v	4	Williams	30468	1984 UN ₂
1985 PO	14.0	0.15	19970601	312.96336	201.37190	145.55712	3.41554	0.1438827	2.5429809	44	8	1949–1997	1.12	M-v	3	Williams	29654	1985 PO
1985 QP ₅	13.5	0.15	19970601	354.10803	307.83242	358.30901	14.15639	0.0962530	2.5527954	18	6	1965–1997	0.64	M-v	3	Williams	28315	1985 QP ₅
1985 RQ	15.0	0.15	19970601	335.42171	329.65746	18.45570	6.38607	0.2967761	2.5227766	22	6	1973–1997	0.90	M-v	3	Williams	29133	1985 RQ
1985 UY	12.0	0.15	19970601	290.89410	219.03815	177.97982	9.93352	0.0915796	3.4394248	14	4	1985–1997	0.85	M-v	3	Marsden	30446	1985 UY
1985 VK	12.5	0.15	19970601	174.73465	312.28238	89.27537	7.11435	0.1255621	2.7955167	21	6	1952–1996	0.72	M-v	1	Williams	29655	1985 VK
1986 PW ₄	12.5	0.15	19970601	10.74871	116.02599	191.25732	1.15583	0.1697164	3.0982009	35	9	1952–1997	0.77	M-v	1	Williams	29655	1986 PW ₄
1986 QJ ₂	13.0	0.15	19970601	23.45442	272.51509	5.56570	4.57973	0.1402133	3.1206418	34	4	1951–1997	0.43	M-v	2	Williams	25225	1986 QJ ₂
1986 RS ₂	14.0	0.15	19970601	295.06944	187.97752	179.93130	4.17315	0.2152085	2.4221451	26	7	1954–1997	0.83	M-v	1	Marsden	26924	1986 RS ₂
1986 RX ₂	13.0	0.15	19970601	337.64452	15.15494	344.02072	1.60689	0.1987334	3.1344883	21	8	1950–1997	0.64	M-v	1	Williams	25079	1986 RX ₂
1986 RA ₃	12.0	0.15	19970601	281.25332	164.32717	282.16151	11.68356	0.0793821	3.0525661	19	7	1976–1997	0.85	M-v	1	Williams	28840	1986 RA ₃
1986 RG ₃	14.5	0.15	19970601	54.50322	152.06811	163.78093	7.95570	0.2595414	2.2863017	15	5	1979–1996	0.73	M-v	2	Williams	30469	1986 RG ₃
1986 RJ ₄	14.0	0.15	19970601	305.13202	66.15092	333.19715	25.58435	0.2270444	2.3559023	28	3	1977–1997	0.78	M-v	3	Williams	16024	1986 RJ ₄
1986 RD ₅	12.5	0.15	19970601	351.69054	358.03451	348.92301	3.62607	0.1303534	3.0687968	48	6	1982–1997	0.68	M-v	1	Williams	25225	1986 RD ₅
1986 RL ₅	12.0	0.15	19970601	22.33112	302.70645	10.43652	9.75600	0.0910180	3.0631817	34	5	1986–1997	0.80	M-v	1	Williams	25439	1986 RL ₅
1986 TT ₁₁	13.5	0.15	19970601	246.43398	329.30260	4.85156	13.93479	0.1899543	2.5664614	19	4	1986–1997	0.77	M-v	3	Williams	29940	1986 TT ₁₁
1986 WV ₁	12.5	0.15	19970601	297.78422	297.21315	156.61795	1.67040	0.1627126	3.1421945	21	5	1969–1997	0.92	M-v	2	Williams	29133	1986 WV ₁
1986 WM ₅	11.5	0.15	19970601	28.26694	0.16415	293.93151	12.06440	0.1838449	3.0889622	31	7	1953–1997	0.73	M-v	1	Williams	29655	1986 WM ₅

1986 XF ₅	15.0	0.15	19970601	324.54897	195.33412	183.95356	1.86679	0.1793102	2.4076357	27	6	1982–1997	0.73	M-v	1	Marsden	27566	1986 XF ₅
1987 QF ₆	14.5	0.15	19970601	227.81064	262.69769	170.55325	21.92720	0.3181912	2.3091576	19	5	1980–1997	0.80	M-v	2	Williams	30469	1987 QF ₆
1987 RX	13.0	0.15	19970601	261.30262	176.06441	148.40132	1.89977	0.2410506	3.1858489	21	5	1982–1997	0.89	M-v	1	Williams	29911	1987 RX
1987 RN ₆	12.5	0.15	19970601	290.99626	309.38055	80.27763	5.94373	0.0602992	2.9954239	18	3	1987–1997	0.62	M-v	3	Williams	30288	1987 RN ₆
1987 SK ₁₂	14.5	0.15	19970601	139.01782	95.12893	79.69407	1.53697	0.0965271	2.2304631	32	6	1979–1997	0.55	M-v	2	Williams	27324	1987 SK ₁₂
1987 UU ₄	14.0	0.15	19970601	218.78336	51.14074	47.85839	6.58393	0.1620247	2.3079127	22	6	1973–1997	0.75	M-v	2	Williams	27566	1987 UU ₄
1987 VD	14.0	0.15	19970601	335.79241	66.61116	278.10532	5.14422	0.2533529	2.2552482	24	6	1953–1997	0.79	M-v	2	Williams	27727	1987 VD
1987 VR	13.0	0.15	19970601	260.68876	217.48301	212.60573	8.99368	0.0760805	3.0651516	38	3	1987–1997	0.53	M-v	4	Marsden	30469	1987 VR
1988 BC ₄	13.5	0.15	19970601	122.28777	254.51070	172.96108	2.51065	0.1488520	2.6247568	39	3	1988–1997	0.73	M-v	4	Williams	29656	1988 BC ₄
1988 EC	14.5	0.15	19970601	291.81623	33.03224	340.31438	19.29729	0.0999128	1.9337377	67	4	1988–1997	1.04	M-v	3	Williams	27324	1988 EC
1988 EB ₁	14.5	0.15	19970601	149.72318	129.07070	55.15962	3.08939	0.1385995	2.4319453	28	6	1954–1997	0.73	M-v	2	Williams	30469	1988 EB ₁
1988 GD	13.5	0.15	19970601	121.04947	127.72780	100.51508	5.21337	0.1067190	2.4296425	24	5	1988–1996	0.68	M-v	1	Williams	30469	1988 GD
1988 PG ₁	13.5	0.15	19970601	344.75128	20.93575	315.24701	12.19595	0.2010116	2.7138426	21	5	1955–1997	0.80	M-v	3	Williams	25537	1988 PG ₁
1988 QU	13.0	0.15	19970601	35.14995	147.63171	149.31901	15.26975	0.0334948	2.6604679	49	4	1988–1997	0.74	M-v	1	Marsden	29133	1988 QU
1988 RC ₇	13.0	0.15	19970601	97.17819	206.74306	177.19173	10.90203	0.2214707	2.4091943	33	4	1979–1997	0.76	M-v	2	Williams	29941	1988 RC ₇
1988 VB	13.0	0.15	19970601	319.67211	329.66694	44.06602	8.96344	0.2322627	2.7949320	47	6	1974–1997	0.89	M-v	2	Williams	25226	1988 VB
1988 XJ ₁	12.5	0.15	19970601	216.31087	320.78888	73.83225	13.64430	0.0507230	3.1396455	29	7	1954–1997	0.94	M-v	1	Williams	30469	1988 XJ ₁
1988 XV ₂	15.0	0.15	19970601	235.98310	127.03398	286.33700	3.50849	0.2033246	2.1964358	24	4	1952–1997	0.67	M-v	2	Williams	30288	1988 XV ₂
1989 AN ₅	14.0	0.15	19970601	263.77367	281.04758	129.28532	9.94467	0.1191621	3.0742095	21	2	1989–1997	0.73	M-v	4	Williams	30469	1989 AN ₅
1989 AL ₆	14.5	0.15	19970601	296.16369	247.21480	112.88834	1.78791	0.0896217	2.2395597	17	4	1986–1997	0.60	M-v	2	Williams	30447	1989 AL ₆
1989 AC ₇	13.5	0.15	19970601	272.10998	246.35144	137.09564	1.98485	0.1780481	3.1558332	29	4	1981–1997	0.60	M-v	2	Williams	30288	1989 AC ₇
1989 BW ₁	15.0	0.15	19970601	136.54275	28.12334	101.52759	2.71187	0.1027487	3.1317384	56	5	1989–1997	0.66	M-v	1	Williams	30288	1989 BW ₁
1989 CL ₁	13.0	0.15	19970601	192.97044	79.05789	72.49138	2.14951	0.2148460	3.0719611	28	6	1973–1997	0.80	M-v	2	Williams	22080	1989 CL ₁
1989 CX ₂	13.0	0.15	19970601	298.07153	111.62774	273.40820	8.60423	0.1176120	3.0660986	25	6	1955–1997	0.92	M-v	1	Williams	27728	1989 CX ₂
1989 EE	13.5	0.15	19970601	192.18493	320.58645	163.67643	29.15402	0.2726157	3.1628424	19	3	1989–1997	0.88	M-v	3	Williams	21107	1989 EE
1989 GB ₁	12.0	0.15	19970601	237.29968	251.10970	222.56270	5.51415	0.0993271	3.1698718	42	8	1951–1997	0.85	M-v	1	Williams	29657	1989 GB ₁
1989 GF ₁	14.5	0.15	19970601	195.68696	150.68416	338.40270	3.74206	0.1042634	2.2790054	26	4	1989–1997	0.60	M-v	2	Williams	28613	1989 GF ₁
1989 GR ₄	15.0	0.15	19970601	198.87075	302.78212	186.67470	4.09126	0.1130852	2.2674103	39	4	1989–1997	0.77	M-v	2	Williams	27454	1989 GR ₄
1989 LT	14.0	0.15	19970601	52.32159	247.94760	0.84390	1.69666	0.1438091	2.4124958	35	5	1989–1997	0.84	M-v	1	Marsden	29657	1989 LT
1989 PU	14.0	0.15	19970601	329.66984	194.00861	138.05203	29.67767	0.2455577	2.5387239	36	3	1989–1997	0.83	M-v	3	Marsden	30469	1989 PU
1989 SE	14.5	0.15	19970601	325.30738	347.12518	8.12628	7.62559	0.2902536	2.5465761	22	4	1981–1997	0.83	M-v	3	Williams	29657	1989 SE
1989 SX	14.0	0.15	19970601	314.84652	354.79422	27.93172	6.68502	0.3020604	2.5582793	49	4	1989–1997	0.99	M-v	3	Williams	30469	1989 SX
1989 SF ₁	13.5	0.15	19970601	358.14578	129.36338	160.50255	7.99742	0.1436197	2.6224860	27	4	1989–1997	0.83	M-v	4	Marsden	30288	1989 SF ₁
1989 SJ ₂	14.5	0.15	19970601	11.34206	120.68597	172.20331	13.27470	0.1527991	2.5816710	22	3	1989–1997	0.92	M-v	4	Marsden	30289	1989 SJ ₂
1989 SZ ₂	14.5	0.15	19970601	304.35485	191.06836	179.96093	10.87502	0.1819278	2.5953589	36	3	1989–1997	0.81	M-v	4	Marsden	30289	1989 SZ ₂
1989 SN ₄	13.5	0.15	19970601	105.15911	52.85249	157.28806	4.25242	0.1280658	2.6025463	29	5	1979–1997	1.03	M-v	3	Williams	30289	1989 SN ₄
1989 TT	14.0	0.15	19970601	297.27869	221.14875	173.40835	16.95419	0.2800911	2.5973552	33	4	1989–1997	0.75	M-v	3	Williams	30469	1989 TT
1989 TB ₁₁	13.0	0.15	19970601	278.41179	33.50920	336.56624	4.02909	0.1348306	2.6662763	29	6	1950–1997	0.73	M-v	1	Williams	30289	1989 TB ₁₁
1990 DA ₃	13.5	0.15	19970601	262.29032	313.45536	117.15421	3.16215	0.0457208	2.8370839	25	6	1988–1997	0.39	M-v	1	Marsden	30289	1990 DA ₃
1990 EZ ₅	13.5	0.15	19970601	59.77967	340.19851	263.16106	0.14582	0.1273847	3.0935193	47	8	1976–1997	0.61	M-v	1	Williams	30470	1990 EZ ₅
1990 HO ₃	14.0	0.15	19970601	314.07832	355.78578	70.19310	2.62398	0.1564830	3.0985325	27	8	1954–1997	0.55	M-v	1	Williams	29657	1990 HO ₃
1990 KA	16.5	0.15	19970601	50.63068	146.57660	105.74928	7.56407	0.4329502	2.1983190	61	5	1951–1996	0.91	M-v	2	Williams	27566	1990 KA
1990 QB	13.5	0.15	19970601	288.28320	56.70875	332.42262	21.84785	0.2536865	2.3330413	35	8	1975–1997	0.73	M-v	2	Williams	27325	1990 QB
1990 QW	14.0	0.15	19970601	345.48253	341.61029	348.07568	7.51097	0.1500251	2.2886585	23	4	1987–1997	0.61	M-v	2	Williams	30448	1990 QW
1990 QK ₃	14.5	0.15	19970601	297.61534	239.28450	151.24948	6.25168	0.1243703	2.3080096	23	3	1990–1997	0.72	M-v	4	Williams	25649	1990 QK ₃
1990 QC ₆	14.5	0.15	19970601	275.69183	316.40329	92.14288	0.68679	0.1850882	2.3294069	30	3	1990–1997	0.60	M-v	4	Williams	27307	1990 QC ₆
1990 QQ ₈	14.0	0.15	19970601	62.64908	301.86859	52.65274	2.16159	0.1580979	3.1517672	49	2	1990–1996	0.61	M-v	5	Williams	28614	1990 QQ ₈
1990 RN ₃	13.5	0.15	19970601	358.24425	94.40209	180.20721	5.47778	0.2017171	2.3778548	21	3	1990–1997	0.72	M-v	2	Marsden	29942	1990 RN ₃
1990 RW ₈	15.5	0.15	19970601	347.01056	28.18559	283.88931	6.70335	0.1943846	2.3156520	18	3	1990–1997	0.39	M-v	3	Williams	30470	1990 RW ₈
1990 RP ₉	13.5	0.15	19970601	347.28421	44.37332	247.54153	5.61695	0.1148837	2.3596954	27	4	1971–1997	0.63	M-v	2	Marsden	29134	1990 RP ₉
1990 SW	13.5	0.15	19970601	14.59764	84.35862	205.95011	8.48762	0.1161534	2.3426917	33	6	1971–1997	0.85	M-v	1	Williams	30470	1990 SW
1990 SL ₂	14.0	0.15	19970601	350.38974	251.24543	74.01370	6.34334	0.2039171	2.3226460	21	5	1989–1997	0.81	M-v	2	Williams	29658	1990 SL ₂

1990 SC ₄	14.0	0.15	19970601	247.14301	245.38051	190.49260	22.00727	0.2813467	2.3833706	26	3	1990–1997	0.63	M-v	2	Williams	24912	1990 SC ₄
1990 SN ₆	13.5	0.15	19970601	346.33010	182.79758	122.31723	4.86066	0.0804149	2.3816016	22	4	1990–1997	1.07	M-v	2	Williams	27119	1990 SN ₆
1990 ST ₈	15.5	0.15	19970601	330.38709	278.39039	52.03077	3.52188	0.1916185	2.3462207	18	4	1971–1997	0.60	M-v	2	Williams	21974	1990 ST ₈
1990 SN ₁₆	15.0	0.15	19970601	313.47319	341.65030	28.23406	4.11621	0.2171469	2.2987963	14	3	1990–1997	0.65	M-v	4	Williams	25062	1990 SN ₁₆
1990 TX	14.0	0.15	19970601	311.48461	298.62479	76.02500	4.46894	0.2669163	2.3414726	38	4	1965–1997	0.61	M-v	2	Williams	29658	1990 TX
1990 TM ₅	14.0	0.15	19970601	319.65638	78.66212	246.12024	6.13466	0.1340541	2.3691634	18	4	1990–1997	0.85	M-v	2	Williams	28614	1990 TM ₅
1990 TW ₇	15.5	0.15	19970601	282.57933	25.05651	36.04499	6.05800	0.2227033	2.3554689	18	5	1979–1997	0.56	M-v	1	Williams	30470	1990 TW ₇
1990 TV ₁₃	13.5	0.15	19970601	315.83873	339.52528	26.80434	8.44859	0.1403555	2.3639000	16	4	1968–1997	0.62	M-v	2	Williams	30448	1990 TV ₁₃
1990 TK ₁₅	13.0	0.15	19970601	298.32250	38.70181	342.49679	6.30245	0.1284022	2.3701645	19	4	1950–1997	0.50	M-v	2	Williams	30448	1990 TK ₁₅
1990 UR	14.0	0.15	19970601	288.49368	27.40517	337.88718	1.97409	0.2082294	2.4214562	15	7	1971–1997	1.00	M-v	2	Williams	30289	1990 UR
1990 VD ₄	14.5	0.15	19970601	292.89865	222.22006	171.49499	1.77690	0.1908285	2.3985324	34	7	1949–1997	0.84	M-v	1	Marsden	27567	1990 VD ₄
1990 VK ₅	14.0	0.15	19970601	26.34885	152.39289	133.54686	7.38986	0.1250248	2.4262153	20	5	1974–1997	0.72	M-v	2	Williams	29658	1990 VK ₅
1990 VD ₈	14.0	0.15	19901105	15.55010	84.30777	290.80471	3.43965	0.2777781	2.6865835	10	1	40 days	0.81			Williams		1990 VD ₈
1990 VB ₁₄	14.5	0.15	19970601	268.29111	123.64883	293.65744	1.61436	0.1992346	2.4245721	42	4	1990–1997	0.72	M-v	1	Marsden	30470	1990 VB ₁₄
1990 WD ₂	14.0	0.15	19970601	196.49183	7.77346	103.33451	7.32348	0.0790562	2.4786663	24	4	1990–1997	0.81	M-v	3	Williams	29134	1990 WD ₂
1991 AP ₁	14.5	0.15	19970601	307.03210	84.49852	332.36907	1.50228	0.2132067	2.3629100	36	6	1968–1997	0.85	M-v	1	Williams	25226	1991 AP ₁
1991 AC ₃	14.0	0.15	19970601	60.42976	119.49192	136.06525	4.52334	0.1578819	2.6455479	42	4	1991–1997	0.75	M-v	2	Williams	29135	1991 AC ₃
1991 BV ₁	13.0	0.15	19970601	90.84710	64.07349	154.34189	8.15902	0.2515965	2.7216139	17	4	1991–1997	0.79	M-v	3	Williams	30077	1991 BV ₁
1991 CU	13.0	0.15	19970601	317.04691	214.26817	140.63254	9.97739	0.0945647	2.5832679	25	4	1981–1997	0.48	M-v	3	Williams	29613	1991 CU
1991 EB	13.0	0.15	19970601	219.33509	209.52126	256.52694	2.83253	0.1237297	2.6265853	31	4	1951–1997	0.78	M-v	1	Williams	25440	1991 EB
1991 EO ₁	13.5	0.15	19970601	305.61628	277.98001	117.60344	3.72516	0.0868645	2.6377935	31	5	1954–1997	0.44	M-v	1	Marsden	27728	1991 EO ₁
1991 GX ₇	13.5	0.15	19970601	271.50396	46.94196	3.90823	9.09065	0.1303487	2.7621890	16	4	1984–1997	0.95	M-v	2	Williams	22814	1991 GX ₇
1991 GZ ₉	14.0	0.15	19970601	149.37454	229.23339	284.03061	7.55010	0.2193474	2.7508063	21	7	1977–1997	0.51	M-v	2	Williams	30470	1991 GZ ₉
1991 JA ₁	14.5	0.15	19970601	331.11767	145.43579	217.83236	19.93004	0.0750829	1.9252649	19	5	1989–1997	0.89	M-v	2	Williams	26757	1991 JA ₁
1991 NE ₁	12.0	0.15	19970601	316.21903	72.90935	305.16103	8.52264	0.0551095	3.1776026	28	7	1953–1997	0.74	M-v	1	Williams	28316	1991 NE ₁
1991 NE ₇	13.0	0.15	19970601	307.64131	108.79284	268.60655	5.19118	0.1005961	3.1577435	47	8	1980–1997	0.64	M-v	1	Marsden	28316	1991 NE ₇
1991 OK ₁	12.5	0.15	19970601	68.28877	298.48998	305.91337	9.52892	0.0369034	3.1806574	21	4	1986–1997	0.48	M-v	1	Williams	29030	1991 OK ₁
1991 PO ₂	13.5	0.15	19970601	266.09893	350.69784	79.94195	2.16986	0.1115473	3.1615291	39	6	1981–1997	0.75	M-v	1	Williams	30470	1991 PO ₂
1991 PU ₉	12.0	0.15	19910723	17.96072	113.91896	146.90748	25.95997	0.3029763	3.1704291	8	1	38 days	0.80			Williams		1991 PU ₉
1991 PQ ₁₂	12.5	0.15	19970601	69.19418	88.90063	173.49096	1.08464	0.1248811	3.1456411	26	5	1991–1997	0.68	M-v	1	Williams	29659	1991 PQ ₁₂
1991 PR ₁₂	13.0	0.15	19970601	13.16305	78.68168	239.65956	0.40491	0.1502115	3.2027328	21	5	1979–1997	0.51	M-v	1	Williams	27935	1991 PR ₁₂
1991 PR ₁₆	14.5	0.15	19970601	257.75510	187.58616	138.44193	1.42263	0.1955785	2.2719143	16	2	1991–1997	0.63	M-v	5	Williams	29614	1991 PR ₁₆
1991 RK ₇	14.5	0.15	19970601	41.32928	321.44228	289.01286	4.01014	0.1221897	2.1761513	31	4	1981–1997	0.55	M-v	2	Williams	30470	1991 RK ₇
1991 SK	12.0	0.15	19970601	3.24614	327.45841	11.34855	7.23872	0.0810266	3.2272665	29	4	1991–1997	0.79	M-v	1	Williams	27120	1991 SK
1991 VL ₁	15.0	0.15	19970601	296.73581	256.34669	102.73088	5.96772	0.1267223	2.1754063	35	5	1991–1997	0.47	M-v	2	Williams	29660	1991 VL ₁
1991 VP ₂	15.5	0.15	19970601	265.89032	348.08463	71.08280	0.29415	0.1517901	2.1558923	31	5	1989–1997	0.64	M-v	3	Williams	27325	1991 VP ₂
1991 XK	14.0	0.15	19970601	138.15114	290.41062	240.20334	4.84964	0.1052900	2.2419131	28	6	1976–1997	0.81	M-v	2	Williams	27325	1991 XK
1991 XZ	13.5	0.15	19970601	189.84805	152.10393	330.33116	4.33043	0.1763369	2.2810677	24	7	1975–1997	0.94	M-v	2	Williams	27935	1991 XZ
1991 YL ₁	15.0	0.15	19970601	127.97002	199.26335	313.18579	0.79485	0.1390734	2.3848834	17	3	1991–1997	0.50	M-v	3	Williams	27556	1991 YL ₁
1992 BE ₂	15.5	0.15	19970601	237.99792	263.37538	193.65914	5.18124	0.0750430	2.2305156	25	5	1977–1997	0.86	M-v	2	Williams	30470	1992 BE ₂
1992 BM ₂	14.0	0.15	19970601	260.21224	207.97826	213.76484	3.91427	0.0994766	2.2499916	36	6	1977–1996	0.79	M-v	2	Marsden	28316	1992 BM ₂
1992 CS	12.0	0.15	19920208	155.48830	209.95213	140.18890	23.36192	0.0686830	3.2406658	14	1	22 days	0.88			Williams		1992 CS
1992 DZ ₅	15.0	0.15	19970601	131.02217	313.32904	147.51445	3.48176	0.1976095	2.6130734	13	3	1971–1996	0.78	M-v	5	Williams	30450	1992 DZ ₅
1992 DJ ₈	15.0	0.15	19970601	82.53731	342.50872	210.37508	4.07579	0.1561172	2.5395869	14	3	1992–1997	0.53	M-v	5	Williams	25650	1992 DJ ₈
1992 ES ₁	14.0	0.15	19970601	92.76560	216.09766	36.05749	9.19102	0.1776418	2.3853773	21	5	1970–1997	0.76	M-v	2	Williams	30290	1992 ES ₁
1992 ES ₅	12.5	0.15	19970601	160.44716	222.55348	137.75244	10.63075	0.0921498	2.9835488	19	4	1992–1997	0.56	M-v	1	Williams	30450	1992 ES ₅
1992 EZ ₆	14.5	0.15	19970601	9.72413	151.90172	129.78237	11.25325	0.2334594	2.5513264	20	3	1992–1997	0.46	M-v	2	Williams	30450	1992 EZ ₆
1992 EW ₇	14.0	0.15	19970601	4.25037	53.11917	239.63754	1.18269	0.1618283	2.4739351	23	3	1989–1997	0.71	M-v	4	Williams	27729	1992 EW ₇
1992 EG ₈	13.0	0.15	19970601	101.67795	214.96912	180.32127	0.77723	0.1750177	3.0365886	14	4	1979–1997	0.60	M-v	2	Williams	30450	1992 EG ₈
1992 FY ₁	13.5	0.15	19970601	200.75866	83.88004	49.78370	8.79982	0.0733113	2.3443354	25	9	1976–1997	0.79	M-v	1	Williams	29135	1992 FY ₁
1992 GD ₃	14.5	0.15	19970601	3.24411	98.88157	211.90141	7.92721	0.0438660	2.5346483	26	4	1969–1997	0.58	M-v	2	Marsden	27309	1992 GD ₃
1992 HY	14.5	0.15	19970601	193.47152	306.08903	192.51356	0.53275	0.0464196	2.4423082	22	5	1986–1997	0.46	M-v	1	Williams	27455	1992 HY

1992 JS ₂	12.5	0.15	19970601	11.54677	80.15464	213.40328	12.95279	0.0533227	2.5681118	23	6	1977–1997	0.76	M-v	2	Williams	27729	1992 JS ₂
1992 KQ	12.0	0.15	19970601	16.91255	201.52856	103.70338	14.87771	0.1759329	2.6648007	18	4	1987–1997	0.71	M-v	2	Williams	29100	1992 KQ
1992 LR	18.0	0.15	19970601	344.69682	67.75818	233.22225	2.02355	0.4092910	1.8309125	221	2	1992–1997	0.61	M-v	0	Williams	30471	1992 LR
1992 NS	13.5	0.15	19970601	45.03952	64.31390	218.37067	10.89287	0.1806793	2.6636417	17	3	1992–1997	1.09	M-v	3	Williams	27729	1992 NS
1992 OV ₆	13.5	0.15	19970601	240.23385	242.39258	199.20783	1.49964	0.0330821	2.8803679	41	5	1990–1997	0.85	M-v	1	Williams	27455	1992 OV ₆
1992 PD ₂	12.5	0.15	19970601	350.23517	85.94501	206.38497	7.02599	0.2039399	3.0037593	22	6	1987–1997	0.76	M-v	2	Marsden	30450	1992 PD ₂
1992 QL ₂	12.0	0.15	19970601	337.14211	77.60770	242.45773	9.37670	0.1017393	3.0065984	18	6	1935–1997	0.81	M-v	2	Williams	30471	1992 QL ₂
1992 RQ	14.0	0.15	19970601	303.03006	240.64613	117.25954	2.54087	0.2615228	3.1565151	34	6	1981–1997	0.82	M-v	1	Williams	28615	1992 RQ
1992 RM ₇	14.0	0.15	19970601	270.20613	345.43093	65.55326	2.26769	0.1592687	3.0980053	38	3	1992–1997	0.54	M-v	3	Williams	23134	1992 RM ₇
1992 SU	12.0	0.15	19970601	289.21800	263.29291	176.61112	17.58485	0.2675298	2.9764294	31	6	1989–1997	0.70	M-v	1	Williams	29660	1992 SU
1992 SS ₂₆	11.5	0.15	19970601	346.73439	336.21898	351.83057	11.66461	0.1088948	3.1023798	25	6	1959–1997	0.74	M-v	2	Williams	29300	1992 SS ₂₆
1992 UQ	13.0	0.15	19970601	137.25645	111.86761	174.49360	4.58316	0.1517213	2.5305795	53	7	1980–1996	0.87	M-v	2	Williams	29661	1992 UQ
1992 WC ₂	13.0	0.15	19970601	302.78868	326.21203	76.08703	0.37461	0.1701743	3.1466342	30	6	1964–1997	0.74	M-v	1	Williams	29661	1992 WC ₂
1993 FO ₈	13.0	0.15	19970601	47.83275	12.17305	88.25225	4.61419	0.0692287	2.7413515	16	2	1993–1997	0.55	M-v	5	Williams	29136	1993 FO ₈
1993 FN ₁₄	15.0	0.15	19970601	274.12808	299.64725	72.79108	4.65257	0.1395179	2.1994914	19	2	1993–1997	0.63	M-v	5	Williams	30274	1993 FN ₁₄
1993 FW ₂₄	15.0	0.15	19970601	2.01152	19.08491	287.16983	1.18307	0.1799300	2.2075624	14	5	1981–1997	0.50	M-v	1	Williams	28588	1993 FW ₂₄
1993 FL ₃₉	15.0	0.15	19970601	349.59852	244.97759	37.05146	2.66013	0.2096285	2.3484299	26	4	1993–1997	0.50	M-v	1	Williams	30291	1993 FL ₃₉
1993 HO ₁	16.5	0.15	19970601	211.41877	105.35305	22.72094	5.90611	0.4166463	1.9880929	55	5	1979–1997	0.44	M-v	2	Williams	28887	1993 HO ₁
1993 HL ₆	13.5	0.15	19970601	90.58536	345.70897	215.83664	7.51218	0.1435077	2.1972330	21	5	1967–1997	0.92	M-v	2	Williams	28888	1993 HL ₆
1993 KP	14.0	0.15	19970601	18.71799	78.73470	185.18943	3.60091	0.1906561	2.3817805	19	5	1953–1997	0.68	M-v	1	Williams	22827	1993 KP
1993 KQ	13.5	0.15	19970601	71.67910	124.87380	98.03028	9.42257	0.1996767	2.2905641	22	7	1958–1997	0.75	M-v	2	Williams	26927	1993 KQ
1993 LZ ₁	13.5	0.15	19970601	304.74560	86.74295	275.54153	5.75570	0.1276953	2.3822740	16	5	1979–1997	0.89	M-v	1	Williams	27455	1993 LZ ₁
1993 MB	14.0	0.15	19970601	334.45634	63.55214	203.76250	13.26944	0.1846694	2.6767634	26	3	1949–1997	0.83	M-v	2	Williams	30471	1993 MB
1993 NB ₂	14.0	0.15	19970601	258.19436	104.01243	297.47587	1.50292	0.1710061	2.5318344	28	6	1949–1997	0.75	M-v	2	Williams	24763	1993 NB ₂
1993 OA ₇	14.0	0.15	19970601	236.08943	331.99439	111.89231	3.39380	0.1292695	2.4153681	19	5	1979–1997	0.72	M-v	2	Williams	27730	1993 OA ₇
1993 OG ₁₃	14.5	0.15	19970601	257.41474	124.93287	303.70658	1.72325	0.1796093	2.3901132	23	4	1977–1997	0.84	M-v	3	Williams	25082	1993 OG ₁₃
1993 PB	16.5	0.15	19970601	183.48603	212.21892	316.02973	40.87551	0.6069197	1.4237419	67	3	1993–1997	0.56	M-v	4	Williams	26191	1993 PB
1993 QS	14.0	0.15	19970601	349.18742	176.12340	164.10605	13.26899	0.2534258	2.4477722	17	3	1993–1997	0.45	M-v	3	Williams	27106	1993 QS
1993 QR ₄	13.5	0.15	19970601	212.33102	97.43934	12.40117	3.53282	0.0788565	2.5685426	23	4	1989–1997	0.93	M-v	4	Williams	29662	1993 QR ₄
1993 QX ₄	12.5	0.15	19970601	191.76328	321.35286	160.38403	15.32289	0.0497749	2.5645979	22	4	1975–1997	0.67	M-v	2	Williams	30452	1993 QX ₄
1993 RO	8.0	0.15	19970601	359.94963	187.91264	170.29006	3.70960	0.2041271	39.5593614	38	5	1993–1997	0.77	M-v	4	Marsden	28087	1993 RO
1993 RC ₂	14.0	0.15	19970601	304.06892	37.32458	4.03020	13.30770	0.2833093	2.5510307	18	3	1989–1997	0.84	M-v	4	Williams	27936	1993 RC ₂
1993 RQ ₅	14.5	0.15	19970601	185.23818	299.61002	183.41543	7.05117	0.0500099	2.7037321	39	4	1979–1997	0.83	M-v	4	Williams	28317	1993 RQ ₅
1993 SG ₁	14.0	0.15	19970601	326.16619	175.42094	174.76004	13.86208	0.2925058	2.5828851	30	3	1989–1997	0.52	M-v	2	Williams	30471	1993 SG ₁
1993 SO ₂	14.0	0.15	19970601	97.01617	336.76961	208.22164	7.56943	0.1089493	2.7955945	35	2	1993–1997	0.50	M-v	4	Williams	30471	1993 SO ₂
1993 SQ ₂	13.5	0.15	19970601	342.60566	140.83275	178.19085	13.94731	0.1899081	2.6088105	28	5	1975–1997	0.68	M-v	2	Williams	29137	1993 SQ ₂
1993 SY ₃	13.5	0.15	19970601	302.43396	193.93372	207.91862	5.87962	0.1720743	2.5492286	22	7	1955–1997	0.66	M-v	2	Williams	28888	1993 SY ₃
1993 TD	14.5	0.15	19970601	322.33911	32.45549	4.46109	10.95499	0.1839694	2.4821439	26	4	1989–1997	0.76	M-v	3	Williams	30291	1993 TD
1993 TE	14.5	0.15	19970601	338.20026	161.46860	192.43697	8.68600	0.2740622	2.5430852	53	6	1985–1997	0.68	M-v	3	Williams	30472	1993 TE
1993 TQ	13.0	0.15	19970601	312.97183	292.18541	67.27283	8.48901	0.2070122	2.6920438	21	6	1971–1997	0.74	M-v	2	Williams	30472	1993 TQ
1993 TQ ₃₆	13.0	0.15	19930930	338.42331	329.11154	66.40988	10.52836	0.1391565	2.7992062	14	1	27 days	0.81			Williams		1993 TQ ₃₆
1993 UP ₈	12.0	0.15	19970601	335.43982	118.04660	171.75265	10.53034	0.1276201	3.0457134	32	6	1982–1997	0.83	M-v	1	Williams	30472	1993 UP ₈
1993 VX	12.5	0.15	19970601	274.71439	336.55712	90.97119	7.87914	0.1432848	2.7844931	62	7	1955–1997	0.53	M-v	1	Williams	29662	1993 VX
1993 VR ₂	12.5	0.15	19970601	348.24886	104.55712	248.19524	11.43543	0.1866342	2.6243121	14	4	1992–1997	0.58	M-v	1	Williams	27326	1993 VR ₂
1993 WE	13.5	0.15	19970601	208.74345	210.96156	290.47503	1.56660	0.1210097	2.7598765	34	5	1988–1997	0.70	M-v	1	Williams	30472	1993 WE
1993 XF	13.5	0.15	19970601	315.05424	268.32619	115.31574	3.30457	0.0838099	2.7590723	40	7	1979–1997	0.71	M-v	1	Williams	30291	1993 XF
1994 BT	13.5	0.15	19970601	277.18569	111.28965	6.53623	9.02850	0.1160875	2.7715771	34	5	1981–1997	0.67	M-v	1	Williams	28318	1994 BT
1994 CG ₂	13.0	0.15	19940217	266.09945	269.27057	0.58934	14.85596	0.1216486	2.6140702	25	1	35 days	0.93			Williams		1994 CG ₂
1994 LE ₃	14.0	0.15	19970601	340.89837	153.74458	195.84808	21.96737	0.0770193	1.8772908	20	5	1986–1997	0.74	M-v	2	Williams	26927	1994 LE ₃
1994 PW ₁₆	14.5	0.15	19970601	47.63043	296.37666	294.21165	3.24664	0.0728252	2.1852445	28	5	1991–1997	0.85	M-v	2	Williams	30472	1994 PW ₁₆
1994 PR ₂₀	14.5	0.15	19970601	210.50805	285.96585	143.61383	3.63257	0.1221845	2.2924254	29	3	1994–1997	0.59	M-v	3	Williams	30291	1994 PR ₂₀
1994 PW ₂₀	14.0	0.15	19970601	7.95046	204.24680	346.03093	3.92174	0.0240994	2.7429550	21	3	1992–1997	0.73	M-v	4	Williams	30453	1994 PW ₂₀

1994 PN ₂₁	13.0	0.15	19970601	110.25122	288.32711	145.06795	2.29374	0.1659716	3.0919722	27	5	1951–1997	0.74	M-v	1	Williams	29945	1994 PN ₂₁
1994 QC	18.5	0.15	19970601	355.04459	94.17548	162.60225	13.87119	0.1179084	1.3243679	239	2	1994–1997	0.60	M-v	2	Marsden	30472	1994 QC
1994 RA ₁₁	14.5	0.15	19970601	311.87766	304.32200	334.73556	2.49460	0.2262230	2.3607171	22	5	1954–1997	0.69	M-v	2	Williams	30454	1994 RA ₁₁
1994 SB	13.0	0.15	19970601	167.49678	201.02315	297.83771	6.26575	0.1013739	2.2009888	79	3	1994–1997	0.73	M-v	3	Williams	30472	1994 SB
1994 TA	11.5	0.15	19970601	66.11592	154.54671	137.61108	5.39613	0.3039662	16.8291132	25	4	1994–1997	0.60	M-v	3	Marsden	27937	1994 TA
1994 TB	7.0	0.15	19970601	329.40730	98.08799	317.29228	12.10978	0.3198000	39.7739078	75	4	1994–1997	0.77	M-v	3	Marsden	30292	1994 TB
1994 TR ₁	13.5	0.15	19970601	263.02082	119.91214	205.97694	12.09443	0.3046185	2.5573621	19	3	1993–1997	0.76	M-v	3	Williams	24763	1994 TR ₁
1994 TD ₂	14.0	0.15	19970601	333.84386	277.45117	60.01254	5.04516	0.1904739	2.1811926	39	4	1978–1997	0.71	M-v	2	Williams	24763	1994 TD ₂
1994 TF ₂	19.0	0.15	19970601	106.31667	349.59604	175.32718	23.75517	0.2837865	0.9932252	105	4	1994–1997	0.70	M-v	3	Marsden	28617	1994 TF ₂
1994 UH	14.5	0.15	19970601	254.57847	314.85017	117.82080	2.25017	0.1084559	2.2683543	32	5	1955–1997	0.59	M-v	2	Williams	29663	1994 UH
1994 UC ₂	14.5	0.15	19970601	258.16544	171.82358	246.93274	5.06310	0.1861714	2.2932860	16	3	1994–1997	0.68	M-v	4	Williams	28617	1994 UC ₂
1994 VD ₁	14.5	0.15	19970601	223.51180	33.68251	68.33015	7.65932	0.0801708	2.2816542	18	3	1994–1997	0.61	M-v	3	Williams	27568	1994 VD ₁
1994 WL	13.5	0.15	19941124	85.03573	269.31203	57.28206	7.43102	0.1321463	2.3566584	10	1	27 days	0.52			Williams		1994 WL
1994 WU ₁	14.5	0.15	19970601	3.13542	123.45388	172.92192	14.82208	0.1607684	2.4466451	86	3	1994–1997	0.62	M-v	2	Williams	30472	1994 WU ₁
1994 WH ₂	14.0	0.15	19970601	244.28360	292.77947	156.68611	5.10593	0.0842083	2.2696449	29	5	1987–1997	0.69	M-v	2	Williams	25084	1994 WH ₂
1994 WG ₃	14.5	0.15	19970601	323.88361	255.96551	103.62273	4.06752	0.2216700	2.1847374	25	4	1981–1997	0.77	M-v	2	Williams	28889	1994 WG ₃
1994 WD ₄	13.5	0.15	19970601	250.76232	277.41769	162.54231	4.17058	0.1463280	2.2431290	22	6	1982–1997	0.89	M-v	2	Williams	27456	1994 WD ₄
1994 XE ₁	13.5	0.15	19970601	278.87368	343.65217	74.49069	8.44574	0.0962017	2.3340204	26	5	1951–1997	0.65	M-v	2	Williams	27327	1994 XE ₁
1994 YN ₁	14.5	0.15	19970601	304.89161	299.65437	74.23236	3.73411	0.1830661	2.4039211	21	5	1975–1997	0.86	M-v	2	Williams	27122	1994 YN ₁
1994 YV ₁	14.0	0.15	19970601	232.12191	49.90825	74.91440	7.36110	0.0455761	2.2997834	19	3	1992–1995	0.48	M-v	3	Williams	29622	1994 YV ₁
1995 AM	16.5	0.15	19970601	334.95038	257.38299	108.95556	4.78383	0.3599041	2.1574068	57	3	1994–1997	0.61	M-v	4	Williams	27568	1995 AM
1995 BH ₁	15.5	0.15	19970601	299.92988	75.74971	309.32459	1.51644	0.2071199	2.3849039	52	3	1995–1997	0.50	M-v	4	Williams	30472	1995 BH ₁
1995 BJ ₁	12.5	0.15	19970601	147.90051	24.33226	97.35941	2.30189	0.1380766	3.2162436	67	4	1990–1997	0.59	M-v	1	Williams	30292	1995 BJ ₁
1995 BW ₁	15.0	0.15	19970601	226.85446	328.84009	131.35658	9.01036	0.2223093	2.5833041	22	2	1995–1997	0.65	M-v	4	Williams	30455	1995 BW ₁
1995 BT ₃	13.5	0.15	19970601	307.35632	249.78946	157.70167	3.61515	0.1674253	2.3670102	25	4	1979–1997	0.70	M-v	1	Williams	25084	1995 BT ₃
1995 DK	13.0	0.15	19970601	168.46475	358.02679	161.40652	9.97848	0.1109964	2.8782011	21	4	1990–1997	0.51	M-v	2	Williams	29664	1995 DK
1995 DZ ₁	13.0	0.15	19970601	26.72281	203.01031	79.21210	7.31940	0.1253392	3.1020558	18	3	1995–1997	0.81	M-v	4	Williams	27449	1995 DZ ₁
1995 DE ₂	13.5	0.15	19970601	297.53730	68.60891	324.55733	3.69002	0.0775744	2.6313160	34	5	1989–1997	0.59	M-v	1	Williams	30093	1995 DE ₂
1995 DO ₂	13.5	0.15	19970601	203.43134	15.46904	118.65010	3.65347	0.1333799	2.7574026	38	3	1992–1997	0.46	M-v	3	Williams	30292	1995 DO ₂
1995 QY ₉	7.5	0.15	19970601	347.74972	24.29530	342.06147	4.82384	0.2702792	40.0793239	51	3	1995–1997	0.63	M-v	4	Marsden	28318	1995 QY ₉
1995 QZ ₉	7.5	0.15	19970601	31.12634	143.29413	187.98944	19.51939	0.1521911	39.7176290	35	3	1995–1997	0.44	M-v	4	Marsden	27918	1995 QZ ₉
1995 WW ₁₇	16.0	0.15	19970601	343.08143	212.21791	21.96481	4.12318	0.0796220	2.1583048	28	2	1995–1997	0.67	M-v	4	Williams	29946	1995 WW ₁₇
1995 YN ₃	14.5	0.15	19970601	67.76441	289.73786	278.38376	6.20970	0.1416154	2.2635588	18	5	1976–1997	0.72	M-v	2	Williams	26761	1995 YN ₃
1996 AL	13.5	0.15	19970601	81.98382	27.75273	113.56241	16.02984	0.1787057	2.9366264	17	3	1991–1997	0.74	M-v	3	Williams	26575	1996 AL
1996 AF ₂	13.0	0.15	19970601	63.54035	244.06258	319.17078	5.97318	0.1645388	2.4189743	20	4	1986–1997	0.64	M-v	1	Williams	26928	1996 AF ₂
1996 AO ₃	10.5	0.15	19970601	170.73313	78.31780	266.22430	5.38913	0.0479110	3.8954477	36	6	1981–1997	0.84	M-v	1	Williams	29139	1996 AO ₃
1996 BD ₁	12.0	0.15	19970601	58.65595	281.00946	310.14649	25.02578	0.2894846	2.4381176	23	5	1978–1997	0.76	M-v	2	Williams	29666	1996 BD ₁
1996 BS ₈	16.0	0.15	19970601	347.66265	276.49669	35.88279	4.19862	0.1306331	2.1331702	16	4	1981–1997	0.29	M-v	3	Williams	26928	1996 BS ₈
1996 CH ₁	14.0	0.15	19970601	185.69900	326.27777	120.74385	4.96864	0.0697833	2.3679460	36	5	1978–1997	0.80	M-v	2	Williams	30292	1996 CH ₁
1996 CN ₇	14.5	0.15	19970601	20.14989	253.22553	17.12785	2.41266	0.1460821	2.4122778	23	2	1996–1997	0.86	M-v	4	Williams	30457	1996 CN ₇
1996 CW ₇	15.0	0.15	19970601	33.69554	154.09575	125.35419	5.66990	0.2081110	2.2175449	20	4	1977–1997	0.73	M-v	2	Williams	30473	1996 CW ₇
1996 CG ₈	15.5	0.15	19970601	95.13493	57.58788	145.56645	3.81253	0.1410498	2.2588289	34	4	1960–1997	0.71	M-v	1	Williams	27328	1996 CG ₈
1996 CK ₉	14.0	0.15	19970601	331.86162	174.46203	152.14265	6.57955	0.1558287	2.3072400	32	4	1962–1997	0.75	M-v	2	Williams	30457	1996 CK ₉
1996 DD	14.5	0.15	19970601	219.20935	29.79299	53.61293	2.26385	0.0020529	2.1886007	25	3	1991–1997	0.58	M-v	3	Williams	30278	1996 DD
1996 DV ₂	15.0	0.15	19970601	18.50322	150.21339	150.58011	3.47924	0.1857709	2.1995966	27	5	1983–1997	0.52	M-v	2	Marsden	28890	1996 DV ₂
1996 EJ	12.0	0.15	19970601	95.86720	28.28749	150.38493	13.48107	0.0891372	2.6600135	21	5	1949–1997	0.65	M-v	2	Williams	30473	1996 EJ
1996 EX ₁	13.0	0.15	19970601	161.53275	260.06046	178.80798	16.12381	0.1104841	3.1617347	28	4	1980–1997	0.45	M-v	1	Williams	30458	1996 EX ₁
1996 FL ₂	12.5	0.15	19970601	351.76992	285.51446	340.76494	1.15575	0.0343111	2.8980836	23	5	1978–1996	0.56	M-v	1	Williams	30458	1996 FL ₂
1996 FP ₃	16.5	0.15	19970601	233.63329	315.30859	123.16771	5.28074	0.0971541	2.2134892	35	2	1996–1997	0.55	M-v	4	Marsden	30458	1996 FP ₃
1996 GC ₁₈	14.0	0.15	19970601	170.95580	0.74187	123.77741	0.87689	0.0946644	2.6458196	21	3	1987–1997	0.92	M-v	5	Williams	30473	1996 GC ₁₈
1996 GT ₁₉	12.5	0.15	19970601	198.55922	247.63226	196.91688	9.05055	0.0687949	3.0662834	18	1	78 days	1.23	M-v	6 D	Williams		1996 GT ₁₉
1996 GG ₂₀	13.0	0.15	19970601	312.97907	215.48795	137.81676	2.54497	0.1295045	2.9150974	13	3	1978–1997	0.92	M-v	4	Williams	28890	1996 GG ₂₀

1996 HO	15.5	0.15	19970601	259.58361	297.84779	123.48687	7.89004	0.0945628	2.3772773	58	2	1996–1997	0.69	M-v	4	Marsden	30458	1996 HO
1996 HX	14.5	0.15	19970601	359.98914	316.65331	2.71871	6.22104	0.1702619	3.0194716	33	2	1996–1997	0.31	M-v	3	Williams	30278	1996 HX
1996 HP ₁	15.5	0.15	19970601	103.38521	355.26896	198.26618	11.06630	0.1180406	2.6198389	46	2	1996–1997	0.57	M-v	3	Williams	30459	1996 HP ₁
1996 HM ₁₁	14.5	0.15	19970601	1.57304	126.46201	191.69696	3.68494	0.0689535	2.6163341	21	5	1976–1997	0.81	M-v	2	Williams	27561	1996 HM ₁₁
1996 HR ₂₄	13.0	0.15	19970601	3.34366	225.78634	86.02753	4.59670	0.1785512	3.1864964	20	3	1991–1997	0.92	M-v	4	Williams	27451	1996 HR ₂₄
1996 JL	13.0	0.15	19970601	302.28836	175.78588	208.71252	8.94225	0.1643207	2.7828571	22	3	1993–1997	0.48	M-v	5	Marsden	27319	1996 JL
1996 JJ ₁	13.5	0.15	19970601	10.64335	123.10390	177.00927	9.32555	0.0477060	2.9683095	27	4	1972–1997	0.72	M-v	2	Williams	27562	1996 JJ ₁
1996 JK ₁	14.0	0.15	19970601	43.92268	56.48534	225.25598	12.59722	0.0316119	2.5651394	27	3	1989–1997	0.58	M-v	2	Williams	27569	1996 JK ₁
1996 LA	13.5	0.15	19970601	107.58267	320.01207	223.46376	7.66574	0.1089979	3.0859268	62	4	1987–1997	0.53	M-v	2	Williams	30459	1996 LA
1996 RR ₂₀	7.0	0.15	19970601	106.35346	54.49497	163.53331	5.30129	0.1883392	40.0397879	37	2	1996–1997	0.41	M-v	6	Marsden	30279	1996 RR ₂₀
1996 SH ₆	14.0	0.15	19960914	185.88309	356.73162	195.17116	7.92850	0.0631937	2.2960246	15	1	26 days	0.30			Williams		1996 SH ₆
1996 TB ₅	15.0	0.15	19961024	356.55985	188.65418	203.22603	16.65536	0.1790115	3.1716390	29	1	42 days	0.34			Williams		1996 TB ₅
1996 TL ₆₆	5.0	0.15	19970601	358.13551	184.55561	217.75907	23.96859	0.5845204	84.3118668	71	2	1996–1997	0.60	M-v	5	Marsden	30279	1996 TL ₆₆
1996 TO ₆₆	4.0	0.15	19970601	108.06123	243.95823	355.20106	27.33989	0.1208871	43.5559776	39	2	1996–1997	0.71	M-v	6	Marsden	30279	1996 TO ₆₆
1996 TP ₆₆	6.5	0.15	19970601	356.17840	74.55040	316.62970	5.68442	0.3342568	39.6245084	27	2	1996–1997	0.61	M-v	5	Marsden	30280	1996 TP ₆₆
1996 TQ ₆₆	6.5	0.15	19970601	355.87012	22.03363	10.69455	14.63949	0.1260259	39.5803477	19	2	1996–1997	0.30	M-v	E	Marsden	30280	1996 TQ ₆₆
1996 TS ₆₆	6.0	0.15	19970601	335.72846	142.41019	285.72791	7.35322	0.1325491	44.0688666	21	2	1996–1997	0.29	M-v	6	Marsden	30280	1996 TS ₆₆
1996 VB ₈	14.0	0.15	19970601	143.28709	130.12691	170.20337	3.31211	0.1948884	2.1533703	14	5	1980–1996	0.83	M-v	2	Williams	30460	1996 VB ₈
1996 XF ₆	13.0	0.15	19970601	2.14397	91.99769	41.82112	2.18231	0.1675657	3.1705243	16	4	1975–1996	0.69	M-v	2	Williams	30460	1996 XF ₆
1996 XP ₁₃	15.0	0.15	19970601	43.23133	14.69511	70.90780	6.72239	0.3167453	2.6073480	11	1	95 days	0.48	M-v	4	Williams		1996 XP ₁₃
1996 YB ₂	12.5	0.15	19970601	37.52472	231.31346	172.45625	12.28392	0.1871895	2.5755832	19	5	1955–1997	0.49	M-v	2	Williams	30460	1996 YB ₂
1997 AF	13.5	0.15	19970601	91.47870	281.20633	99.18565	7.51737	0.3096784	2.5560535	15	1	69 days	0.30	M-v	6	Williams		1997 AF
1997 AG ₇	16.5	0.15	19970601	59.95438	249.34983	198.33858	2.85532	0.2268500	2.4139189	16	1	63 days	0.59	M-v	5	Williams		1997 AG ₇
1997 BR	17.5	0.15	19970601	356.76950	133.73672	116.78942	17.23775	0.3058711	1.3360287	395	3	1980–1997	0.59	M-v	1	Williams	30473	1997 BR
1997 BF ₁	16.0	0.15	19970601	10.63840	214.93798	311.34356	5.20051	0.2037351	2.3431068	17	1	63 days	0.39	M-v	5	Williams		1997 BF ₁
1997 CJ ₁	15.0	0.15	19970221	292.67156	166.16486	76.79964	3.17365	0.1877974	2.3270954	12	1	40 days	0.62			Williams		1997 CJ ₁
1997 CZ ₅	13.5	0.15	19970601	37.52417	169.07567	288.15987	24.93831	0.3989263	2.2927860	246	1	84 days	0.44	M-v	4	Williams	30094	1997 CZ ₅
1997 CJ ₂₉	13.5	0.15	19970601	5.54352	12.29768	154.97611	3.65340	0.0666724	2.2640816	26	4	1987–1997	0.78	M-v	2	Williams	30461	1997 CJ ₂₉
1997 EZ ₅₃	14.0	0.15	19970221	58.22499	96.40423	5.43530	8.41657	0.1901456	2.8047374	9	1	2 days	0.59		E	Williams		1997 EZ ₅₃
1997 EB ₅₄	14.0	0.15	19970221	257.15289	295.08441	0.63650	2.07053	0.1208041	2.3673382	9	1	2 days	0.30		E	Williams		1997 EB ₅₄
1997 EE ₅₄	14.0	0.15	19970221	315.56016	52.46269	183.92663	14.63602	0.1262474	2.8083824	12	1	3 days	0.52		E	Williams		1997 EE ₅₄
1997 EF ₅₄	14.5	0.15	19970221	308.41731	244.60565	5.26590	4.20115	0.1870676	2.5956016	9	1	3 days	0.74		E	Williams		1997 EF ₅₄
1997 EH ₅₄	15.0	0.15	19970221	35.00911	299.66961	182.41664	4.32751	0.2406649	2.5761407	9	1	3 days	0.28		E	Williams		1997 EH ₅₄
1997 EK ₅₄	12.5	0.15	19970221	253.69576	259.01062	35.95447	1.67693	0.0433421	3.2316198	12	1	3 days	0.66		E	Williams		1997 EK ₅₄
1997 EL ₅₄	14.5	0.15	19970221	37.08016	102.40304	12.39998	4.32652	0.2828043	2.6775156	12	1	3 days	0.76		E	Williams		1997 EL ₅₄
1997 EM ₅₄	15.0	0.15	19970221	35.72722	121.69905	6.70196	3.89417	0.1734730	2.4974843	12	1	3 days	0.85		E	Williams		1997 EM ₅₄
1997 EH ₅₅	15.0	0.15	19970221	54.75493	282.02956	184.72769	5.73357	0.1565783	3.3213650	12	1	3 days	0.56		E	Williams		1997 EH ₅₅
1997 EJ ₅₅	13.0	0.15	19970221	330.19772	217.74940	359.56763	2.02807	0.0700595	3.2503403	12	1	3 days	0.86		E	Williams		1997 EJ ₅₅
1997 EK ₅₅	13.0	0.15	19970221	285.52459	16.58405	267.16482	0.21371	0.2224553	3.1814313	12	1	3 days	0.60		E	Williams		1997 EK ₅₅
1997 EL ₅₅	14.0	0.15	19970221	32.55407	177.09257	307.28157	0.86701	0.2802874	3.0886046	12	1	3 days	1.09		E	Williams		1997 EL ₅₅
1997 FX	13.0	0.15	19970313	63.14541	87.06526	16.49856	9.43205	0.1786574	3.1375780	12	1	18 days	0.37			Williams		1997 FX
1997 FL ₂	14.0	0.15	19970601	87.39016	282.34329	135.27811	3.13853	0.1769044	2.4536182	15	1	140 days	0.41	M-v	5	Williams		1997 FL ₂
1997 FM ₂	15.0	0.15	19970313	85.42859	55.90320	24.82440	6.60949	0.1859546	2.4360731	14	1	24 days	0.39			Williams		1997 FM ₂
1997 FO ₂	14.0	0.15	19970313	298.63078	69.03455	188.06597	14.96839	0.0648151	3.1130124	14	1	27 days	0.61			Williams		1997 FO ₂
1997 FQ ₂	14.5	0.15	19970313	349.55757	10.95399	189.67790	13.34368	0.0606457	3.1528095	10	1	24 days	0.81			Williams		1997 FQ ₂
1997 FR ₂	15.5	0.15	19970313	185.52624	351.54313	12.93484	9.66115	0.1754536	2.1651314	10	1	26 days	0.56			Williams		1997 FR ₂
1997 FK ₃	14.5	0.15	19970313	156.55300	202.50444	185.82686	12.07706	0.1096934	2.7515246	12	1	26 days	0.62			Williams		1997 FK ₃
1997 FN ₃	15.0	0.15	19970313	265.76907	275.40513	29.41012	4.85496	0.2087348	2.3686445	20	1	27 days	0.50			Williams		1997 FN ₃
1997 FO ₃	15.0	0.15	19970402	296.22147	101.75991	166.64674	3.49226	0.1090577	2.7669475	18	1	54 days	0.79			Williams		1997 FO ₃
1997 FT ₃	15.5	0.15	19970601	21.75064	336.18731	212.01517	4.51372	0.0991846	2.2994129	26	3	1991–1997	0.50	M-v	4	Williams	30461	1997 FT ₃
1997 FA ₅	16.0	0.15	19970313	343.04234	22.11856	187.85699	4.47952	0.1659565	2.6706902	11	1	27 days	0.55			Williams		1997 FA ₅
1997 FB ₅	15.0	0.15	19970601	208.23644	347.94717	13.64477	2.31495	0.1139351	2.5724586	20	1	60 days	0.54	M-v	5	Williams		1997 FB ₅

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1997 FE ₅	14.5	0.15	19970313	312.56608	199.69853	40.02542	2.58708	0.0660009	2.9269850	12	1	26 days	0.33		Williams		1997 FE ₅
1997 GJ	14.5	0.15	19970601	355.97321	164.33668	48.27318	1.97848	0.1001160	2.5302081	21	2	1993–1997	0.54	M-v	5	Williams	30462 1997 GJ
1997 GX ₇	14.0	0.15	19970601	143.59934	329.43163	100.87911	2.41116	0.1900682	3.1705706	31	2	1996–1997	0.65	M-v	4	Williams	30462 1997 GX ₇
1997 GR ₈	15.0	0.15	19970402	127.93447	40.02717	18.64034	8.33811	0.0774538	3.0339491	13	1	59 days	0.93			Williams	1997 GR ₈
1997 GZ ₂₅	14.5	0.15	19970601	23.70803	56.94676	150.16971	4.91190	0.0779620	2.2890727	17	1	139 days	0.45	M-v	4	Williams	1997 GZ ₂₅
1997 HQ ₁	15.0	0.15	19970601	323.98483	243.44358	15.28889	3.94984	0.1293485	2.2900132	23	3	1983–1997	1.01	M-v	4	Williams	30462 1997 HQ ₁
1997 HV ₂	16.0	0.15	19970601	309.83494	262.97443	8.95680	3.58510	0.1185445	2.2894034	18	1	60 days	0.54	M-v	5	Williams	1997 HV ₂
1997 HC ₃	13.0	0.15	19970601	6.87520	354.88464	197.65177	4.71730	0.0615445	3.9484533	15	1	61 days	0.72	M-v	6	Williams	1997 HC ₃
1997 HL ₃	16.5	0.15	19970402	18.81001	157.52053	7.71163	3.86564	0.1680912	2.3630318	12	1	56 days	0.33			Williams	1997 HL ₃
1997 HT ₁₁	16.0	0.15	19970601	334.38083	239.32749	35.34573	4.61605	0.2293525	2.3442156	34	2	1994–1997	0.42	M-v	5	Williams	30463 1997 HT ₁₁
1997 HK ₁₆	13.5	0.15	19970402	179.21001	16.48432	356.67220	1.23386	0.1090144	2.9511198	14	1	59 days	0.75			Williams	1997 HK ₁₆
1997 KC	14.0	0.15	19970601	357.47075	140.44745	98.10195	14.46191	0.1998513	2.4421595	55	1	72 days	0.70	M-v	4	Williams	1997 KC
1997 LY ₄	17.0	0.15	19970601	336.55327	51.10913	252.92614	8.36043	0.2717003	1.8032832	166	1	93 days	0.45	M-v	4	Williams	30464 1997 LY ₄
1997 MY	16.0	0.15	19970621	296.51002	178.90421	196.08096	2.55582	0.2216290	2.2380105	9	1	17 days	0.25			Williams	1997 MY
1997 MR ₁	15.0	0.15	19970711	15.05870	349.36760	252.67877	23.64843	0.0933980	2.2989122	19	1	56 days	0.36			Williams	1997 MR ₁
1997 MV ₁	18.5	0.15	19970601	345.95479	112.69016	196.02969	6.47814	0.3237616	2.3355946	15	1	75 days	0.38	M-v	4	Williams	1997 MV ₁
1997 MW ₁	19.5	0.15	19970601	138.00250	203.64511	260.12520	12.77424	0.3465906	0.9376042	132	1	56 days	0.63	M-v	6	Williams	30464 1997 MW ₁
1997 MQ ₂	16.5	0.15	19970621	322.13042	161.22384	168.86367	1.48938	0.1777668	2.4356443	12	1	4 days	0.77		E	Williams	1997 MQ ₂
1997 ME ₃	16.0	0.15	19970621	310.23342	310.92369	32.44356	1.38625	0.1731690	2.1659414	26	1	5 days	0.63			Williams	1997 ME ₃
1997 MF ₃	16.0	0.15	19970621	3.67347	345.32952	285.04161	10.39882	0.2067402	2.4887338	13	1	4 days	0.79		E	Williams	1997 MF ₃
1997 MH ₃	15.5	0.15	19970621	66.59030	91.95119	99.86217	11.25938	0.1712718	2.5178883	13	1	4 days	0.93		E	Williams	1997 MH ₃
1997 MJ ₃	14.0	0.15	19970621	248.94524	315.26958	101.43532	7.42081	0.2895115	2.7281908	12	1	4 days	0.45			Williams	1997 MJ ₃
1997 MK ₃	15.5	0.15	19970621	261.10260	153.29979	224.95863	1.33250	0.0155841	2.3212033	16	1	4 days	0.65		E	Williams	1997 MK ₃
1997 MM ₃	16.0	0.15	19970621	268.16960	278.38467	102.00197	24.47099	0.1076853	1.9334982	22	1	5 days	0.66			Williams	1997 MM ₃
1997 MN ₃	16.5	0.15	19970621	317.48704	52.07015	273.03528	16.91123	0.0740571	1.9371487	17	1	5 days	0.53			Williams	1997 MN ₃
1997 MO ₃	15.0	0.15	19970621	273.12855	140.05114	245.13473	4.78631	0.1740093	2.6377367	12	1	4 days	0.56		E	Williams	1997 MO ₃
1997 MP ₃	16.0	0.15	19970621	332.91069	192.18659	122.14639	5.49255	0.1723225	2.2143629	13	1	4 days	0.48			Williams	1997 MP ₃
1997 MQ ₃	15.5	0.15	19970621	301.78375	233.92387	123.29833	7.65318	0.2004437	2.4746210	18	1	5 days	0.49			Williams	1997 MQ ₃
1997 MS ₃	15.5	0.15	19970621	346.13667	153.27618	142.22914	4.59082	0.1269937	2.6777573	12	1	4 days	0.61		E	Williams	1997 MS ₃
1997 MT ₃	16.0	0.15	19970621	330.12757	185.13708	128.26254	3.38377	0.1010890	2.4568059	13	1	4 days	0.36			Williams	1997 MT ₃
1997 MU ₃	18.0	0.15	19970621	10.02693	106.93467	151.47416	0.81440	0.2338282	2.1917974	12	1	4 days	0.95		E	Williams	1997 MU ₃
1997 MV ₃	15.5	0.15	19970621	315.02440	238.66450	109.22013	5.68662	0.2568161	2.6282151	17	1	4 days	0.43			Williams	1997 MV ₃
1997 MX ₃	14.0	0.15	19970621	287.80851	264.84575	97.11706	10.92550	0.1033263	2.9952257	12	1	4 days	0.70		E	Williams	1997 MX ₃
1997 MY ₃	14.0	0.15	19970621	274.54094	94.22447	283.07427	7.32022	0.1172327	3.0852460	13	1	4 days	0.73		E	Williams	1997 MY ₃
1997 MA ₄	16.0	0.15	19970621	14.24262	253.63424	359.92394	1.01277	0.2193862	2.5866294	13	1	4 days	0.74		E	Williams	1997 MA ₄
1997 MC ₄	15.0	0.15	19970621	312.72455	52.16403	294.56715	6.19012	0.2263479	2.4212053	23	1	5 days	0.74			Williams	1997 MC ₄
1997 MF ₄	16.0	0.15	19970621	325.51127	311.23836	17.01461	2.93465	0.2226824	2.2496708	12	1	4 days	0.36			Williams	1997 MF ₄
1997 MK ₄	15.5	0.15	19970621	69.98604	75.04147	117.56676	5.13208	0.1214953	2.2335087	12	1	4 days	0.69		E	Williams	1997 MK ₄
1997 ML ₄	14.0	0.15	19970621	291.61960	93.07510	276.99888	11.68493	0.2168817	2.6114539	11	1	4 days	0.63		E	Williams	1997 ML ₄
1997 MM ₄	16.5	0.15	19970621	337.37151	205.74764	102.51836	4.71300	0.1862742	2.2905197	13	1	4 days	0.49			Williams	1997 MM ₄
1997 MN ₄	16.0	0.15	19970621	327.61289	54.62341	274.27582	4.18980	0.2591877	2.3302464	18	1	4 days	0.50			Williams	1997 MN ₄
1997 MO ₄	14.0	0.15	19970621	60.29007	99.14264	94.25950	27.23616	0.2175915	3.2164716	12	1	4 days	1.06		E	Williams	1997 MO ₄
1997 MP ₄	12.5	0.15	19970621	241.59943	123.35979	292.57862	17.87442	0.2347430	3.2121568	13	1	4 days	0.51		E	Williams	1997 MP ₄
1997 MQ ₄	14.5	0.15	19970621	281.49054	283.93501	89.42567	12.33753	0.1598443	2.5234409	13	1	4 days	0.62		E	Williams	1997 MQ ₄
1997 MR ₄	14.5	0.15	19970621	33.70246	309.19975	290.89414	7.31044	0.0391217	2.8131184	11	1	4 days	0.28		E	Williams	1997 MR ₄
1997 MS ₄	13.5	0.15	19970621	315.53664	260.64844	88.35434	8.19170	0.2738902	3.1998910	13	1	4 days	0.38		E	Williams	1997 MS ₄
1997 MT ₄	14.0	0.15	19970621	287.15256	252.63832	99.90189	21.86937	0.0214756	3.1028736	12	1	4 days	0.62		E	Williams	1997 MT ₄
1997 MU ₄	17.5	0.15	19970621	324.20409	236.57559	102.61311	5.37013	0.3166048	2.0127062	13	1	4 days	0.38			Williams	1997 MU ₄
1997 MV ₄	13.5	0.15	19970621	276.87112	262.43799	111.53172	10.45381	0.1178211	3.0561033	12	1	4 days	0.31		E	Williams	1997 MV ₄
1997 MW ₄	15.0	0.15	19970621	82.91374	77.89005	104.81681	21.63481	0.0938960	2.5176094	11	1	4 days	0.88		E	Williams	1997 MW ₄
1997 MX ₄	15.5	0.15	19970621	314.98333	86.07916	262.01423	9.81786	0.2630587	2.5861161	11	1	4 days	0.65			Williams	1997 MX ₄
1997 MY ₄	16.0	0.15	19970621	24.51964	83.29714	157.35055	2.49474	0.1712209	2.3152182	13	1	4 days	0.58			Williams	1997 MY ₄

1997 MZ ₄	15.0	0.15	19970621	347.51443	190.82951	101.11581	7.66830	0.1373597	2.4091331	12	1	4 days	0.58	E	Williams	1997 MZ ₄
1997 MA ₅	16.5	0.15	19970621	320.20960	67.11051	276.50369	5.23006	0.2942957	2.5097439	11	1	4 days	0.75	E	Williams	1997 MA ₅
1997 MB ₅	13.5	0.15	19970621	296.07869	32.64102	326.05285	0.53308	0.1644116	3.1066373	12	1	4 days	0.69	E	Williams	1997 MB ₅
1997 MU ₅	17.0	0.15	19970621	346.62279	193.99251	105.43463	13.80315	0.2920791	2.5056455	13	1	4 days	0.49		Williams	1997 MU ₅
1997 MD ₁₀	16.0	0.15	19970601	358.85595	68.92851	281.66469	59.13236	0.9430137	26.9523165	87	1	67 days	0.72	M-v	2 Williams	30464 1997 MD ₁₀
1997 ME ₁₁			19970621	1.18032	289.36504	344.27994	1.96908	0.1497572	2.5975750	18	1	4 days	0.71	E	Williams	1997 ME ₁₁
1997 MK ₁₁	16.0	0.15	19970621	347.14958	197.06025	96.80062	7.97737	0.1571734	2.4842787	11	1	4 days	0.60	E	Williams	1997 MK ₁₁
1997 NQ	14.0	0.15	19970601	314.52083	136.20899	212.60482	12.22907	0.1938299	2.6901977	18	1	61 days	0.61	M-v	5 Williams	1997 NQ
1997 NU	12.5	0.15	19970711	33.85029	81.14334	122.12122	13.52399	0.1160415	2.6688295	17	1	38 days	0.65		Williams	1997 NU
1997 NV	14.5	0.15	19970601	292.59005	98.60299	263.39356	5.35738	0.1287825	2.3477839	41	3	1983–1997	0.51	M-v	4 Williams	30464 1997 NV
1997 NZ	12.5	0.15	19970601	347.38771	8.29136	284.78835	12.06893	0.1628751	2.6066484	32	4	1972–1997	0.39	M-v	2 Williams	30474 1997 NZ
1997 NA ₁	14.5	0.15	19970601	327.79677	139.48567	196.35688	1.68245	0.2476994	3.0730457	25	3	1976–1997	0.52	M-v	2 Williams	30464 1997 NA ₁
1997 NC ₁	18.5	0.15	19970601	113.62916	16.56247	96.63199	16.71466	0.2089041	0.8653575	100	1	63 days	0.57	M-v	5 Williams	30464 1997 NC ₁
1997 NP ₁	14.5	0.15	19970711	185.67797	352.04233	131.82308	36.65731	0.1285601	2.7803806	13	1	39 days	0.53		Williams	1997 NP ₁
1997 NP ₂	15.0	0.15	19970601	37.78842	33.41971	202.84288	5.04498	0.1483337	2.2313339	26	1	65 days	0.76	M-v	5 Williams	1997 NP ₂
1997 NZ ₂	15.0	0.15	19970601	347.57010	232.86371	62.12309	4.37807	0.1632925	2.7246978	30	3	1992–1997	0.65	M-v	4 Williams	30465 1997 NZ ₂
1997 NE ₃	14.0	0.15	19970731	101.57529	247.23307	293.72373	6.56257	0.1531358	2.3982261	22	1	53 days	0.37		Williams	1997 NE ₃
1997 NE ₅	15.0	0.15	19970601	15.61386	323.83431	305.03173	3.80855	0.1668839	2.1619440	12	1	60 days	0.32	M-v	6 Williams	1997 NE ₅
1997 NL ₆	15.5	0.15	19970601	359.63556	85.55553	192.79941	4.41913	0.1892706	2.1919475	23	5	1977–1997	0.74	M-v	2 Marsden	30465 1997 NL ₆
1997 NR ₆	12.5	0.15	19970601	296.61368	229.05727	126.02584	11.43115	0.1158653	2.9829523	23	4	1992–1997	0.47	M-v	1 Williams	30465 1997 NR ₆
1997 NU ₆	13.5	0.15	19970731	55.10275	355.38962	237.98690	8.36302	0.0908561	2.8092245	31	1	54 days	0.33		Williams	1997 NU ₆
1997 NY ₆	15.0	0.15	19970601	241.22707	293.15188	137.12015	12.62886	0.1193876	2.5136785	11	1	60 days	0.50	M-v	6 Williams	1997 NY ₆
1997 NM ₁₀	16.0	0.15	19970731	344.10224	42.42781	282.89478	11.06859	0.1886359	2.2878344	25	1	40 days	0.69		Williams	1997 NM ₁₀
1997 NP ₁₀	20.5	0.15	19970601	334.51177	121.32822	211.34388	4.54109	0.4037362	2.2675404	60	1	59 days	0.69	M-v	4 Williams	1997 NP ₁₀
1997 NR ₁₀	17.0	0.15	19970601	340.54008	152.74044	156.32141	5.25026	0.2406405	2.3946316	32	1	60 days	0.48	M-v	4 Marsden	1997 NR ₁₀
1997 NE ₁₁	13.0	0.15	19970711	338.69924	58.59356	273.67159	13.90613	0.1835545	2.8076981	15	1	19 days	0.79		Nakano	1997 NE ₁₁
1997 OJ	14.0	0.15	19970731	9.19490	230.98948	58.65656	1.26682	0.1664515	3.1781791	16	1	37 days	0.49		Williams	1997 OJ
1997 OK	15.5	0.15	19970731	347.71227	18.76326	305.03047	11.82036	0.2388822	2.7267272	17	1	37 days	0.60		Williams	1997 OK
1997 OM	15.0	0.15	19970731	322.31675	207.11674	144.28274	2.71733	0.0706744	2.8552451	25	1	15 days	0.52		Williams	1997 OM
1997 OY	13.8	0.15	19970731	206.56888	148.28587	318.94272	8.22051	0.1443022	2.7379038	17	1	42 days	0.22		Nakano	1997 OY
1997 OB ₁	17.0	0.15	19970731	0.25657	142.79183	167.61035	3.69054	0.1989222	2.1756736	17	1	33 days	0.80		Williams	1997 OB ₁
1997 OG ₁	16.5	0.15	19970731	47.49790	288.61829	300.78219	22.14644	0.2510379	2.2740470	20	1	38 days	0.62		Williams	1997 OG ₁
1997 OH ₁	16.5	0.15	19970731	324.11436	311.37603	64.69975	1.77672	0.2439095	2.4805444	23	1	39 days	0.52		Marsden	1997 OH ₁
1997 OJ ₁	15.0	0.15	19970601	325.12913	249.36014	97.90029	3.14001	0.0528872	2.9151868	30	2	1996–1997	0.67	M-v	5 Marsden	30465 1997 OJ ₁
1997 OK ₁	16.0	0.15	19970731	336.32667	335.51983	35.48691	1.79324	0.3721546	2.9997552	12	1	36 days	0.34		Williams	1997 OK ₁
1997 OY ₁	14.0	0.15	19970731	285.33345	231.00846	178.21100	9.37383	0.1981954	2.5290486	16	1	31 days	1.08		Williams	1997 OY ₁
1997 OA ₂	15.3	0.15	19970731	42.68998	81.60289	175.61055	3.85907	0.1768780	2.2790053	7	1	6 days	0.95		Nakano	1997 OA ₂
1997 OB ₂	14.5	0.15	19970731	339.16296	21.76346	318.13388	14.66614	0.1823544	3.1108510	9	1	13 days	0.77		Williams	1997 OB ₂
1997 OC ₂	16.0	0.15	19970711	331.73861	89.97417	249.01829	1.29288	0.0489274	2.2852074	15	1	32 days	0.37		Williams	1997 OC ₂
1997 OD ₂	16.5	0.15	19970711	321.89579	201.29653	161.82761	2.50265	0.2142230	2.3777926	12	1	31 days	0.74		Williams	1997 OD ₂
1997 OE ₂	16.0	0.15	19970731	43.48339	105.24345	146.26406	5.37956	0.2000567	2.3567164	20	1	52 days	0.80		Williams	1997 OE ₂
1997 OF ₂	16.5	0.15	19970731	357.67636	31.83907	287.53817	3.70932	0.2048440	2.5645997	15	1	6 days	0.15		Williams	1997 OF ₂
1997 OG ₂	16.5	0.15	19970731	0.62897	127.36909	187.45837	1.99329	0.1972183	2.4070483	12	1	5 days	0.07		Williams	1997 OG ₂
1997 OH ₂	17.5	0.15	19970731	331.28383	168.19842	188.04043	2.04053	0.1651790	2.4042727	9	1	4 days	0.22		Williams	1997 OH ₂
1997 OJ ₂	17.0	0.15	19970731	286.59350	243.22986	159.41080	4.22480	0.1024865	2.2751958	9	1	4 days	0.34	E	Williams	1997 OJ ₂
1997 OK ₂	16.0	0.15	19970731	59.36877	299.65122	305.46174	5.00788	0.1289424	2.2656830	12	1	5 days	0.19		Williams	1997 OK ₂
1997 OL ₂	14.5	0.15	19970731	337.30924	58.53887	291.68922	2.75608	0.1421612	3.0432663	15	1	6 days	0.31		Williams	1997 OL ₂
1997 OM ₂	16.0	0.15	19970731	327.96831	205.97589	158.67847	2.98767	0.1927816	2.4362125	9	1	4 days	0.30		Williams	1997 OM ₂
1997 ON ₂	15.0	0.15	19970731	33.10033	4.05714	263.59107	8.44549	0.1538455	2.5732979	16	1	26 days	1.22		Williams	1997 ON ₂
1997 PF	14.5	0.15	19970731	6.32637	64.94991	232.58653	6.26997	0.1205470	3.2173413	23	1	11 days	0.74		Williams	1997 PF
1997 PJ	14.5	0.15	19970731	350.68231	121.81552	188.28835	7.25674	0.1277543	2.7538805	14	1	10 days	0.28		Williams	1997 PJ
1997 PL	16.0	0.15	19970731	291.97413	158.30820	230.57934	6.13685	0.1337099	2.2133944	9	1	11 days	0.19		Williams	1997 PL

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1997 PN	20.0	0.15	19970601	345.44546	348.10182	309.75950	26.44457	0.4221565	2.2244556	110	1	40 days	0.61	M-v	5	Williams	1997 PN
1997 PO	16.5	0.15	19970601	351.38816	161.83472	136.63875	23.60429	0.4323582	3.0549316	118	1	38 days	0.54	M-v	4	Williams	1997 PO
1997 PS	15.5	0.15	19970731	325.89501	61.13836	305.22611	9.91221	0.2026344	2.6232498	9	1	3 days	0.24			Williams	1997 PS
1997 PV	16.5	0.15	19970731	26.16393	330.03595	302.69513	4.07598	0.2778601	2.9105248	12	1	4 days	0.46	E		Williams	1997 PV
1997 PW	16.0	0.15	19970731	354.38816	140.52630	188.41228	2.66528	0.2474593	3.9083430	9	1	4 days	0.29	E		Williams	1997 PW
1997 PY	15.5	0.15	19970731	261.23408	228.19775	200.09355	1.58669	0.0749725	2.8830247	9	1	4 days	0.25	E		Williams	1997 PY
1997 PZ	15.0	0.15	19970731	96.55037	93.40051	137.94608	3.71793	0.0814330	2.2939452	10	1	10 days	0.19			Williams	1997 PZ
1997 PD ₁	15.0	0.15	19970731	43.91017	172.76038	114.54329	2.34132	0.0678008	2.4236177	16	1	10 days	0.24			Williams	1997 PD ₁
1997 PF ₁	15.5	0.15	19970731	328.36837	59.80656	304.67655	4.23145	0.1633612	2.3124002	19	1	28 days	0.95			Williams	1997 PF ₁
1997 PG ₁	15.5	0.15	19970820	326.87946	68.09009	319.12114	29.01006	0.3055981	2.6215909	16	1	35 days	0.66			Williams	1997 PG ₁
1997 PM ₁	13.5	0.15	19970731	195.32496	3.84677	126.11984	6.65853	0.0872005	3.1764222	23	1	34 days	0.27	D		Marsden	1997 PM ₁
1997 PY ₁	14.5	0.15	19970820	62.48033	286.75570	344.93642	10.11052	0.0708894	2.9909227	38	1	35 days	0.35			Marsden	1997 PY ₁
1997 PZ ₁	15.0	0.15	19970820	322.44369	213.53217	155.44834	2.89951	0.1011724	2.9708378	37	1	35 days	0.50			Marsden	1997 PZ ₁
1997 PA ₂	16.0	0.15	19970731	11.41376	270.51303	36.76330	2.29015	0.1007244	2.9379214	18	1	29 days	0.48			Marsden	1997 PA ₂
1997 PD ₂	17.5	0.15	19970731	2.16139	73.56093	229.67723	1.59855	0.2414687	2.3721679	10	1	5 days	0.15			Williams	1997 PD ₂
1997 PF ₂	17.0	0.15	19970820	356.46209	316.17729	33.15585	2.67319	0.2164951	2.2540843	22	1	32 days	0.34			Williams	1997 PF ₂
1997 PJ ₂	16.0	0.15	19970731	341.97826	221.06018	124.31237	4.73789	0.1854986	2.5326165	21	1	32 days	0.19			Marsden	1997 PJ ₂
1997 PK ₂	15.0	0.15	19970820	13.52536	9.32044	302.53475	6.09493	0.1417356	2.3679565	28	1	33 days	0.40			Williams	1997 PK ₂
1997 PL ₂	17.0	0.15	19970820	349.94027	122.30738	223.79041	1.53583	0.1882052	2.3175937	21	1	34 days	0.41			Williams	1997 PL ₂
1997 PO ₂	16.5	0.15	19970731	122.09203	260.84162	275.68112	6.56547	0.0793671	2.5679326	10	1	4 days	0.31	E		Williams	1997 PO ₂
1997 PP ₂	15.0	0.15	19970731	324.50189	52.66141	310.86971	21.72392	0.0917050	3.1761486	15	1	13 days	0.50			Williams	1997 PP ₂
1997 PQ ₂	16.5	0.15	19970820	27.16365	107.67908	175.54838	7.05259	0.2103641	2.9926396	9	1	33 days	0.61			Williams	1997 PQ ₂
1997 PS ₂	16.5	0.15	19970820	10.20135	192.65406	126.88011	9.35235	0.2271426	2.7938757	30	1	30 days	0.35			Marsden	1997 PS ₂
1997 PT ₂	16.0	0.15	19970820	12.21465	288.51954	29.05793	4.85502	0.1845097	2.5919726	26	1	30 days	0.39			Marsden	1997 PT ₂
1997 PU ₂	14.5	0.15	19970820	153.14102	5.24813	150.50537	23.00076	0.1405446	2.2803212	29	1	28 days	0.36			Marsden	1997 PU ₂
1997 PV ₂	14.5	0.15	19970731	78.04136	121.50425	111.90384	12.20258	0.1674378	3.1601104	7	1	2 days	0.17	E		Marsden	1997 PV ₂
1997 PY ₂	15.5	0.15	19970820	322.24319	291.90058	83.75053	7.15242	0.0716679	2.4212314	12	1	17 days	0.18			Williams	1997 PY ₂
1997 PB ₃	13.5	0.15	19970731	20.14458	336.93340	311.42530	13.65035	0.2523105	3.2405587	6	1	2 days	0.20			Williams	1997 PB ₃
1997 PC ₃	15.5	0.15	19970820	329.24072	232.86049	156.63959	14.45492	0.2340445	3.1056173	17	1	33 days	0.42			Williams	1997 PC ₃
1997 PD ₃	16.0	0.15	19970820	315.34984	247.07444	144.14339	2.53909	0.0950757	2.1464478	22	1	33 days	0.23			Williams	1997 PD ₃
1997 PE ₃	14.5	0.15	19970820	105.66885	240.27429	340.25389	9.51054	0.1942699	2.6884059	31	1	29 days	0.33			Marsden	1997 PE ₃
1997 PF ₃	16.0	0.15	19970820	30.55340	204.47002	82.67669	1.96440	0.2440719	3.0450244	31	1	29 days	0.50			Marsden	1997 PF ₃
1997 PN ₃	14.5	0.15	19970731	356.88161	317.92055	25.34683	2.40949	0.0592505	2.8691761	15	1	21 days	0.29			Williams	1997 PN ₃
1997 PP ₃	16.0	0.15	19970820	333.08461	24.97732	351.81395	6.41876	0.1335055	2.3990268	8	1	30 days	0.16			Williams	1997 PP ₃
1997 PV ₃	12.0	0.15	19970731	19.61454	47.54525	253.47283	8.34500	0.0912393	3.0638119	10	1	2 days	0.09	E		Williams	1997 PV ₃
1997 PW ₃	15.5	0.15	19970731	47.62994	275.66458	355.60268	5.62906	0.1812687	2.5222404	8	1	3 days	0.25			Williams	1997 PW ₃
1997 PY ₃	15.5	0.15	19970820	68.67927	351.37167	256.36068	3.71102	0.1376259	2.3334133	18	1	27 days	0.54			Williams	1997 PY ₃
1997 PZ ₃	15.5	0.15	19970820	355.66049	165.20301	172.63584	10.29394	0.1114450	2.9812192	12	1	27 days	0.27			Williams	1997 PZ ₃
1997 PA ₄	13.5	0.15	19970731	296.79360	93.63047	308.51043	24.27451	0.2660769	3.1740898	19	1	28 days	0.31			Williams	1997 PA ₄
1997 PB ₄	16.0	0.15	19970820	315.44861	73.03624	306.33493	8.84885	0.1329391	3.0563634	17	1	28 days	0.45			Williams	1997 PB ₄
1997 PG ₄	18.0	0.15	19970731	357.89689	176.82071	156.48438	3.51040	0.3794912	2.7638909	10	1	3 days	0.42			Williams	1997 PG ₄
1997 PH ₄	17.5	0.15	19970731	256.30379	278.76409	151.09720	21.73032	0.0824576	1.8948138	17	1	2 days	0.32			Williams	1997 PH ₄
1997 PJ ₄	12.5	0.15	19970820	262.55070	146.81166	282.47200	12.76160	0.1335497	2.6656677	23	1	28 days	1.00			Williams	1997 PJ ₄
1997 PL ₄	15.5	0.15	19970820	105.04282	241.85173	344.75789	6.89035	0.0744478	2.3041897	26	1	28 days	0.33			Marsden	1997 PL ₄
1997 PM ₄	15.0	0.15	19970820	346.79972	55.63719	308.29656	6.53375	0.2043023	2.5774082	29	1	30 days	0.19			Williams	1997 PM ₄
1997 PN ₄	16.0	0.15	19970820	70.02398	1.50017	241.49807	3.28669	0.1655250	2.2717882	10	1	26 days	0.19			Williams	1997 PN ₄
1997 PR ₄	13.5	0.15	19970731	257.14838	137.54160	296.03338	5.97739	0.0851509	2.3844694	9	1	14 days	0.55			Williams	1997 PR ₄
1997 PT ₄	15.5	0.15	19970820	327.19913	92.28342	285.60765	3.04080	0.2304781	2.4151430	16	1	30 days	1.00			Williams	1997 PT ₄
1997 PU ₄	14.0	0.15	19970820	331.68792	69.47339	289.80710	4.15077	0.0614473	2.7652480	11	1	22 days	0.39			Williams	1997 PU ₄
1997 PV ₄	14.5	0.15	19970731	6.47155	156.81345	152.59780	9.57768	0.1820245	2.3934341	8	1	14 days	0.44			Williams	1997 PV ₄
1997 PW ₄	14.5	0.15	19970820	353.48552	176.41853	155.50563	3.36148	0.1319154	3.9834028	22	1	23 days	0.47			Marsden	1997 PW ₄
1997 PY ₄	15.5	0.15	19970731	2.20316	34.88398	287.48139	13.02762	0.1962531	2.5305401	9	1	10 days	0.37			Williams	1997 PY ₄

1997 PA ₅	15.5	0.15	19970731	300.80149	100.70996	309.77817	3.93041	0.1904650	2.2718240	9	1	10 days	0.11	Williams	1997 PA ₅
1997 PE ₅	16.0	0.15	19970820	356.09120	164.41314	177.87548	2.05803	0.2279836	2.4019282	11	1	27 days	0.15	Williams	1997 PE ₅
1997 PF ₅	15.0	0.15	19970820	8.15189	146.34922	177.29785	2.23763	0.2064830	2.4052276	17	1	33 days	0.14	Williams	1997 PF ₅
1997 PL ₅	13.5	0.15	19970820	297.36169	72.44507	323.50547	6.46540	0.0184668	3.1690860	9	1	20 days	0.93	Nakano	1997 PL ₅
1997 PN ₅	13.5	0.15	19970601	291.24502	93.01818	293.51128	12.16424	0.1931920	2.6224190	17	1	62 days	0.50	M-v 5 Marsden	1997 PN ₅
1997 PQ ₅	16.5	0.15	19970820	113.03412	314.21438	242.43711	4.06299	0.1530214	2.2773768	14	1	23 days	0.51	Williams	1997 PQ ₅
1997 QA	14.0	0.15	19970820	23.46798	25.49987	317.89266	6.81072	0.0844254	2.4141517	28	1	27 days	0.51	Marsden	1997 QA
1997 QC	14.0	0.15	19970820	230.17928	183.94568	263.53654	5.89672	0.0867429	2.3712297	25	1	19 days	0.58	Williams	1997 QC
1997 QE	16.0	0.15	19970820	14.04029	139.91666	165.47651	6.15164	0.2295518	2.3044073	17	1	11 days	0.94	Williams	1997 QE
1997 QF	14.0	0.15	19970820	48.88495	143.08729	138.84790	13.77637	0.0766065	2.8733107	12	1	7 days	0.19	Williams	1997 QF
1997 QG	15.0	0.15	19970820	246.22186	296.70984	150.41472	5.44097	0.0951160	2.5663463	27	1	18 days	0.41	Marsden	1997 QG
1997 QH	15.5	0.15	19970820	331.48733	159.68681	206.79411	1.50039	0.1711445	2.8730367	13	1	5 days	0.53	Nakano	1997 QH
1997 QJ	16.0	0.15	19970820	319.64627	258.50810	136.89953	1.43430	0.2948601	2.3936096	14	1	13 days	0.15	Marsden	1997 QJ
1997 QK	13.0	0.15	19970820	353.63095	37.84077	296.70510	9.15976	0.1421783	3.0301719	31	1	8 days	0.43	Nakano	1997 QK
1997 QN	15.0	0.15	19970820	335.72273	141.88568	256.32574	5.03220	0.0904245	2.2440857	21	1	9 days	1.14	Nakano	1997 QN
1997 QO	15.7	0.15	19970820	320.92414	240.80222	155.12436	4.44277	0.2821672	2.3752035	8	1	3 days	0.53	E Nakano	1997 QO
1997 QP	13.5	0.15	19970820	110.13164	262.38668	328.06389	13.60758	0.0662652	2.5829283	21	1	18 days	0.11	Williams	1997 QP
1997 QR	16.5	0.15	19970820	331.14304	111.52633	281.44440	4.39713	0.2700525	2.6229500	15	1	14 days	0.29	Williams	1997 QR
1997 QV	17.0	0.15	19970820	308.24445	229.09627	165.76917	10.50473	0.1810330	2.3275698	12	1	15 days	0.19	Williams	1997 QV
1997 QX	14.5	0.15	19970820	309.99255	52.17650	336.00658	9.29261	0.0370055	3.0891646	56	1	11 days	0.21	Marsden	1997 QX
1997 QY	14.0	0.15	19970820	354.63812	142.30100	183.63565	9.23259	0.1793325	2.5535031	10	1	10 days	1.02	Williams	1997 QY
1997 QZ	15.0	0.15	19970820	12.82407	133.55059	173.91599	4.65957	0.2269952	2.4126030	15	1	10 days	1.06	Williams	1997 QZ
1997 QD ₁	15.5	0.15	19970820	293.65669	83.56515	322.39548	3.87443	0.0610941	2.1443243	12	1	15 days	0.23	Williams	1997 QD ₁
1997 QE ₁	13.0	0.15	19970820	152.82165	2.71483	91.68905	16.28899	0.1348788	2.6444917	26	1	8 days	0.36	Marsden	1997 QE ₁
1997 QG ₁	14.0	0.15	19970820	158.24941	319.84587	220.47910	5.74728	0.1370887	2.4424534	8	1	6 days	0.44	Williams	1997 QG ₁
1997 QH ₁	14.0	0.15	19970820	55.99480	352.25836	277.20705	5.07135	0.1481101	2.2037539	9	1	6 days	0.28	Williams	1997 QH ₁
1997 QJ ₁	16.0	0.15	19970820	19.15203	107.54839	190.76858	2.87803	0.2167935	2.4509009	9	1	4 days	0.92	E Williams	1997 QJ ₁
1997 QK ₁	19.0	0.15	19970820	0.62820	2.66305	306.93214	2.92290	0.6553933	2.8973299	44	1	6 days	0.81	Williams	1997 QK ₁
1997 QL ₁	17.5	0.15	19970820	37.41526	73.43361	200.67801	5.07489	0.1636333	2.3851769	10	1	9 days	0.26	Williams	1997 QL ₁
1997 QO ₁	16.5	0.15	19970820	243.32723	119.24191	336.87920	19.07673	0.0627408	1.9114868	44	1	12 days	0.30	Williams	1997 QO ₁
1997 QP ₁	16.5	0.15	19970820	352.69404	202.33084	129.08531	2.64999	0.2201720	2.4926037	12	1	6 days	0.47	Marsden	1997 QP ₁
1997 QR ₁	15.5	0.15	19970820	301.63052	44.89547	335.53387	3.48264	0.0375679	2.5323057	8	1	2 days	0.80	E Marsden	1997 QR ₁
1997 QU ₁	14.0	0.15	19970820	139.30983	20.18825	161.66319	2.73501	0.1293967	2.9060044	9	1	10 days	0.38	Marsden	1997 QU ₁
1997 QW ₁	14.2	0.15	19970820	17.67004	354.91538	293.71587	6.04719	0.2552284	2.4474196	6	1	8 days	0.60	Nakano	1997 QW ₁
1997 QA ₂	14.2	0.15	19970820	195.37882	258.06636	265.80349	4.04947	0.0250727	2.7348021	9	1	10 days	0.12	Nakano	1997 QA ₂
1997 QB ₂	15.3	0.15	19970909	348.16184	10.22064	357.37633	8.07265	0.2717682	2.4352145	12	1	15 days	0.56	Nakano	1997 QB ₂
1997 QC ₂	14.7	0.15	19970909	20.37696	176.25414	133.21939	6.58873	0.2866980	2.6800757	10	1	15 days	0.41	Nakano	1997 QC ₂
1997 QD ₂	12.3	0.15	19970909	106.29573	90.98366	143.33808	11.03994	0.0687864	3.0034869	9	1	15 days	0.21	Nakano	1997 QD ₂
1997 QE ₂	13.8	0.15	19970909	343.31265	4.63003	5.50332	12.87476	0.1460975	3.0603768	8	1	15 days	0.42	Nakano	1997 QE ₂
1997 QG ₂	14.5	0.15	19970820	323.11614	238.45884	158.75606	33.77487	0.3351759	2.7093697	16	1	10 days	0.53	Williams	1997 QG ₂
1997 QJ ₂	15.5	0.15	19970820	10.13717	180.68001	126.96860	8.72257	0.2289678	2.2941120	12	1	5 days	0.28	Williams	1997 QJ ₂
1997 QK ₂	17.0	0.15	19970820	356.82874	14.62951	315.39700	12.63163	0.2681447	2.4284720	9	1	2 days	0.75	E Williams	1997 QK ₂
1997 QM ₂	15.5	0.15	19970820	295.78756	1.66239	42.97865	6.14261	0.0998657	2.2558828	9	1	3 days	0.22	Williams	1997 QM ₂
1997 QN ₂	13.5	0.15	19970820	82.44871	128.39710	102.04761	8.73065	0.1478781	3.1727080	9	1	3 days	0.29	E Williams	1997 QN ₂
1997 QO ₂	16.5	0.15	19970820	356.10698	192.18548	143.86059	25.14922	0.1761025	2.3593944	9	1	3 days	0.20	E Williams	1997 QO ₂
1997 QP ₂	17.5	0.15	19970820	316.93159	50.11092	329.56601	28.68732	0.0830881	1.7207501	42	1	3 days	0.41	Williams	1997 QP ₂
1997 QR ₂	13.0	0.15	19970820	183.58212	202.23113	298.96596	17.32321	0.0888575	3.1626496	9	1	4 days	0.36	E Williams	1997 QR ₂
1997 QR ₂	15.0	0.15	19970820	293.92338	276.78367	154.97413	12.13457	0.1895650	2.6085781	8	1	3 days	0.83	E Williams	1997 QR ₂
1997 QV ₂	16.0	0.15	19970820	340.30746	78.39190	292.20088	4.64820	0.1829764	2.2607417	15	1	13 days	0.15	Williams	1997 QV ₂
1997 QY ₂	16.0	0.15	19970731	343.12310	29.70235	327.83456	5.22363	0.2419185	2.3541174	10	1	49 days	0.53	Williams	1997 QY ₂
1997 QD ₃	12.0	0.15	19970820	140.58329	227.09234	316.15606	15.92624	0.0896949	3.0086013	8	1	4 days	0.35	E Williams	1997 QD ₃
1997 QJ ₃	15.5	0.15	19970820	5.69308	126.03788	192.69647	5.99652	0.1195384	2.4601515	15	1	7 days	0.17	Williams	1997 QJ ₃

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1997 QR ₃	16.5	0.15	19970820	310.55005	245.95973	190.19478	5.09914	0.1267825	2.2956419	9	1	10 days	0.15	Williams	1997 QR ₃
1997 QV ₃	15.0	0.15	19970820	97.08009	82.10481	192.28256	5.90495	0.0974814	2.5112575	9	1	10 days	0.10	Williams	1997 QV ₃
1997 QX ₃	12.5	0.15	19970820	20.56725	162.31641	206.49147	10.41531	0.1080808	5.3068135	9	1	10 days	0.58	E Williams	1997 QX ₃
1997 QH ₄	6.5	0.15	19970820	359.97583	359.71998	355.73469	12.51709	0.0693672	44.4039454	9	1	5 days	0.28	E Williams	1997 QH ₄
1997 QJ ₄	7.5	0.15	19970820	359.96711	9.63821	346.72458	16.38524	0.1206588	39.5800793	8	1	4 days	0.15	E Williams	1997 QJ ₄
1997 QP ₄	16.0	0.15	19970820	278.90415	101.93283	311.93785	6.71198	0.0208972	2.2406878	8	1	14 days	0.47	Williams	1997 QP ₄
1997 QU ₄	15.4	0.15	19970820	324.89155	52.84666	329.71720	7.08467	0.2091112	2.4189964	8	1	11 days	1.09	E Nakano	1997 QU ₄
1997 RA	17.0	0.15	19970820	2.00665	272.43279	49.14535	4.93021	0.3216835	2.6168635	25	1	1 days	0.36	Williams	1997 RA
1997 RB	14.5	0.15	19970820	217.86740	147.16002	345.50714	14.09030	0.0609557	3.0769469	10	1	6 days	0.16	Williams	1997 RB
1997 RE	15.5	0.15	19970909	348.85642	208.06057	152.02652	9.05587	0.1772029	2.7485581	11	1	10 days	0.33	Nakano	1997 RE
1997 RF	13.9	0.15	19970909	273.72814	275.42741	171.33237	19.31700	0.1111088	3.1723241	9	1	10 days	0.26	Nakano	1997 RF
1997 RG	15.9	0.15	19970909	348.72751	349.09344	17.40462	3.02591	0.1880701	2.5978227	9	1	10 days	0.47	Nakano	1997 RG
1997 RH	15.0	0.15	19970820	22.80345	1.50658	317.23734	1.43500	0.1012427	2.6941104	12	1	11 days	0.40	Williams	1997 RH
1997 RT	19.5	0.15	19970909	4.88311	5.97361	326.12202	6.18055	0.5232642	2.2422682	171	1	13 days	0.54	Williams	1997 RT
1997 RX	15.0	0.15	19970820	302.98475	195.85306	219.34346	2.00277	0.2013431	2.5285724	10	1	7 days	0.56	Williams	1997 RX
1997 RZ	16.0	0.15	19970820	352.91516	60.59808	285.06589	2.51713	0.1917768	2.4344897	6	1	2 days	0.67	E Williams	1997 RZ
1997 RA ₁	13.5	0.15	19970820	316.91191	47.09739	355.43616	9.00431	0.0297029	3.0541220	14	1	11 days	0.33	Williams	1997 RA ₁
1997 RB ₁	15.0	0.15	19970820	38.59895	9.39690	272.30591	4.66854	0.1292195	2.3131540	9	1	5 days	0.26	Williams	1997 RB ₁
1997 RC ₁	16.0	0.15	19970820	10.52767	138.09862	183.06663	3.07305	0.0780794	2.6467897	10	1	7 days	0.28	Williams	1997 RC ₁
1997 RD ₁	16.0	0.15	19970820	357.75562	161.59748	170.22562	13.51640	0.4047895	2.6677203	100	1	10 days	0.57	Marsden	1997 RD ₁
1997 RK ₁	18.0	0.15	19970820	32.02901	118.80046	177.33234	7.62765	0.2058380	2.2392617	10	1	8 days	0.32	Marsden	1997 RK ₁
1997 RM ₁	15.0	0.15	19970820	15.64802	281.08294	3.90010	4.88798	0.3329975	2.2889892	37	1	4 days	0.92	Williams	1997 RM ₁
1997 RO ₁	17.5	0.15	19970909	6.90143	183.47958	155.52101	6.51344	0.3083401	2.4059492	13	1	9 days	0.23	Williams	1997 RO ₁
1997 RP ₁	15.8	0.15	19970909	353.96520	12.86852	346.01091	3.14613	0.2264933	2.3609998	9	1	8 days	0.35	Nakano	1997 RP ₁
1997 RR ₁	15.0	0.15	19970820	32.96820	238.61986	67.24698	2.34744	0.0895911	2.2125852	9	1	7 days	0.94	Williams	1997 RR ₁
1997 RS ₁	14.0	0.15	19970820	335.38293	228.18406	151.39878	8.41286	0.1036971	3.0045692	7	1	7 days	0.64	Williams	1997 RS ₁
1997 RT ₁	15.5	0.15	19970820	353.63033	330.49671	24.52411	4.45409	0.2090665	2.6174922	8	1	7 days	0.57	Williams	1997 RT ₁
1997 RY ₁	16.0	0.15	19970820	271.81491	307.07915	176.05763	0.79616	0.1832341	2.2312077	9	1	5 days	0.31	E Williams	1997 RY ₁
1997 RS ₂	15.0	0.15	19970820	249.48146	131.58401	344.95842	8.99947	0.1390422	3.0458050	9	1	3 days	0.40	Marsden	1997 RS ₂
1997 RU ₂	16.0	0.15	19970820	321.44650	21.87996	26.77208	3.78001	0.2782661	2.3851201	7	1	7 days	1.15	E Williams	1997 RU ₂
1997 RF ₃	15.5	0.15	19970820	59.20851	85.01017	177.53890	5.38826	0.2393124	2.3535739	20	1	5 days	0.22	Williams	1997 RF ₃
1997 RG ₃	13.5	0.15	19970909	66.48929	86.73584	172.71549	2.81457	0.1916703	2.4841072	15	1	5 days	0.44	Williams	1997 RG ₃
1997 RK ₃	14.0	0.15	19970820	13.37002	249.69722	86.53583	7.30142	0.1638637	2.4322123	10	1	4 days	0.25	Williams	1997 RK ₃
1997 RL ₃	13.5	0.15	19970909	12.57477	0.55523	340.24496	8.01295	0.1554789	2.5552021	11	1	9 days	0.13	Williams	1997 RL ₃
1997 RM ₃	16.0	0.15	19970820	7.84038	154.94160	161.08965	4.65427	0.2373076	3.1087601	10	1	4 days	0.49	Marsden	1997 RM ₃
1997 RN ₃	15.0	0.15	19970820	146.13276	8.24955	167.46782	2.36175	0.1445501	2.4248517	6	1	4 days	0.46	E Marsden	1997 RN ₃
1997 RR ₃	13.3	0.15	19970909	278.98081	281.44761	177.52460	13.69261	0.1179570	2.5862977	8	1	7 days	0.49	Nakano	1997 RR ₃
1997 RS ₃	13.5	0.15	19970820	292.92456	75.96193	22.59437	5.10195	0.1034865	3.0430788	9	1	11 days	0.11	Williams	1997 RS ₃
1997 RT ₃	15.0	0.15	19970820	145.45352	207.80602	21.50174	3.48140	0.0597006	2.5649515	9	1	11 days	0.15	Williams	1997 RT ₃
1997 RV ₃	16.5	0.15	19970820	331.55107	221.65500	190.89534	2.04577	0.1935964	2.4717400	9	1	11 days	0.14	Williams	1997 RV ₃
1997 RX ₃	17.0	0.15	19970820	321.22604	239.50855	187.16177	2.36553	0.1604331	2.4720956	9	1	11 days	0.11	Williams	1997 RX ₃
1997 RF ₄	15.0	0.15	19970820	40.35107	294.30450	27.02557	8.07154	0.1865501	2.8626262	9	1	8 days	0.09	Williams	1997 RF ₄
1997 RJ ₄	17.0	0.15	19970909	316.96126	47.33151	24.52344	4.54423	0.1189287	2.2161493	9	1	7 days	0.22	Williams	1997 RJ ₄
1997 RJ ₅	16.0	0.15	19970909	352.24641	35.87432	323.41707	4.12740	0.1615348	2.7265071	8	1	2 days	0.59	E Williams	1997 RJ ₅
1997 RK ₅	16.6	0.15	19970909	332.65257	203.25512	167.88901	4.78570	0.0334504	2.2266206	9	1	5 days	0.25	E Nakano	1997 RK ₅
1997 RT ₅	7.0	0.15	19970909	0.00000	180.08399	163.74840	12.84553	0.0000000	42.2800177	12	1	3 days	0.21	E Marsden	1997 RT ₅
1997 RU ₅	16.7	0.15	19970909	331.56741	57.52989	325.63919	2.06623	0.1860858	2.5434612	7	1	7 days	0.31	Nakano	1997 RU ₅
1997 RC ₆	16.0	0.15	19970820	335.12066	210.78185	170.42771	10.01173	0.2954483	2.3761379	12	1	6 days	0.91	Williams	1997 RC ₆
1997 RY ₆	7.0	0.15	19970909	0.00000	38.76617	319.79130	12.79653	0.0000000	41.3672505	9	1	4 days	0.27	E Marsden	1997 RY ₆
1997 RH ₇	17.5	0.15	19970909	18.32527	354.38565	326.10406	4.07863	0.1959991	2.3601008	11	1	3 days	0.42	Williams	1997 RH ₇
1997 RJ ₇	14.5	0.15	19970909	17.25760	6.18816	321.40907	5.52599	0.1452544	3.1124817	7	1	3 days	0.17	Williams	1997 RJ ₇
1997 RZ ₇	13.0	0.15	19970909	344.24497	36.54524	339.50026	14.56336	0.1736253	2.5850144	6	1	7 days	0.37	Nakano	1997 RZ ₇

1997 RA ₈	15.6	0.15	19970909	24.25731	23.04563	286.25363	2.02185	0.2323164	2.8885603	9	1	2 days	0.39	E	Nakano	1997 RA ₈	
1997 RK ₈	13.0	0.15	19970820	25.65671	239.83235	80.77685	2.37875	0.2573903	3.3202683	9	1	12 days	0.20		Williams	1997 RK ₈	
1997 RO ₈	15.0	0.15	19970909	345.56649	41.64623	337.18401	4.40095	0.1695584	2.5886369	10	1	9 days	0.23		Williams	1997 RO ₈	
1997 RE ₉	12.5	0.15	19970820	351.81071	343.58562	19.58672	5.60254	0.1991221	2.5088720	3	1	6 days	0.31	E	Williams	1997 RE ₉	
2098 P-L	13.0	0.15	19970601	226.98667	158.28248	192.06671	11.95596	0.2650303	2.6279009	36	4	1960–1997	0.69	M-v	1	Williams	30474 2098 P-L
4028 P-L	14.5	0.15	19970601	250.09785	223.84336	207.50299	7.15355	0.1759306	2.5871206	22	5	1960–1997	0.71	M-v	1	Williams	22971 4028 P-L
4069 P-L	13.5	0.15	19970601	92.61569	351.85418	203.14950	9.03371	0.0353671	3.0870444	22	5	1952–1997	0.62	M-v	2	Williams	28892 4069 P-L
4073 P-L	15.5	0.15	19970601	293.85417	19.77031	260.99638	2.76534	0.0212027	2.1556714	20	3	1960–1997	0.56	M-v	3	Williams	30474 4073 P-L
4084 P-L	15.5	0.15	19970601	345.92298	70.57289	220.47675	2.15793	0.2106457	2.5873285	24	3	1960–1997	0.64	M-v	4	Williams	30293 4084 P-L
4668 P-L	14.5	0.15	19970601	261.22649	27.11221	28.44831	7.47763	0.1020267	2.4053667	21	4	1960–1997	0.72	M-v	2	Williams	28892 4668 P-L
6039 P-L	13.5	0.15	19970601	222.75576	264.40867	186.47172	9.18832	0.1738627	2.8104831	40	5	1953–1997	0.48	M-v	1	Williams	30466 6039 P-L
6065 P-L	14.5	0.15	19970601	14.23334	289.88894	348.31269	4.15967	0.2446482	2.5766085	35	5	1960–1997	0.84	M-v	2	Marsden	28620 6065 P-L
6071 P-L	13.5	0.15	19970601	150.18910	341.50813	196.74511	8.90035	0.0914019	2.7826969	22	5	1954–1997	0.53	M-v	2	Williams	30474 6071 P-L
6581 P-L	10.5	0.15	19970601	302.10785	61.13709	351.01121	4.91771	0.0408883	5.2909511	19	4	1960–1997	0.60	M-v	1	Williams	23135 6581 P-L
9002 P-L	14.0	0.15	19970601	95.79524	11.43113	199.78875	13.96488	0.1055173	2.5771555	30	5	1960–1997	0.60	M-v	2	Williams	28620 9002 P-L
9062 P-L	14.0	0.15	19970601	301.95604	141.06973	240.75795	2.47310	0.1906661	2.5758738	13	3	1960–1997	0.63	M-v	5	Williams	27321 9062 P-L
9076 P-L	12.5	0.15	19970601	296.53033	194.18884	196.19925	13.57789	0.1875429	2.5759589	22	4	1960–1997	0.83	M-v	2	Williams	30474 9076 P-L
9094 P-L	15.5	0.15	19970601	308.81642	166.89035	196.87575	9.41429	0.2576961	2.3998896	19	4	1960–1997	0.60	M-v	1	Williams	27123 9094 P-L
1174 T-1	13.5	0.15	19970601	269.95960	134.69342	301.00385	0.46333	0.1280281	3.2426806	17	4	1971–1997	0.66	M-v	2	Williams	23986 1174 T-1
3051 T-1	13.5	0.15	19970601	286.25059	111.89809	189.20010	10.94953	0.2049238	2.9947825	20	3	1955–1997	1.11	M-v	5	Williams	29650 3051 T-1
3064 T-1	15.5	0.15	19970601	96.63911	265.81064	277.02273	0.26989	0.1421135	2.3522689	25	4	1971–1997	0.75	M-v	2	Williams	30474 3064 T-1
3212 T-1	14.0	0.15	19970601	128.55902	65.16388	6.30803	3.77536	0.0849888	2.1930989	22	4	1955–1997	0.67	M-v	2	Williams	27732 3212 T-1
2218 T-2	14.5	0.15	19970601	344.97266	196.97109	163.03332	0.16342	0.0981821	2.2660331	34	5	1973–1997	0.66	M-v	2	Williams	27322 2218 T-2
2258 T-2	14.5	0.15	19970601	225.91486	189.43666	155.17919	2.08973	0.0844340	2.6224073	32	3	1973–1997	0.92	M-v	5	Williams	24764 2258 T-2
4196 T-2	13.0	0.15	19970601	32.26237	232.39515	76.51022	3.20199	0.0704367	2.8387180	27	3	1973–1997	0.66	M-v	4	Williams	30294 4196 T-2
4234 T-2	13.0	0.15	19970601	121.02871	259.03524	29.94302	5.25779	0.1281913	3.1911295	36	6	1971–1996	0.82	M-v	1	Williams	28620 4234 T-2
2078 T-3	13.0	0.15	19970601	84.78418	227.96935	344.31588	7.26558	0.1449628	2.5676298	50	7	1977–1997	0.64	M-v	2	Williams	30474 2078 T-3
3241 T-3	15.0	0.15	19970601	305.87042	341.14386	37.17401	2.32632	0.2120717	2.2429618	29	5	1977–1997	0.95	M-v	2	Williams	24585 3241 T-3
5041 T-3	12.5	0.15	19970601	348.37758	118.37444	152.30031	11.72055	0.0969222	3.0434609	28	3	1977–1997	0.97	M-v	5	Williams	16039 5041 T-3

1996 GT₁₉ = 1996 LB₄ (T. B. Spahr)
 1997 PM₁ = 1997 PP₅ (G. V. Williams)

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C/1997 P2 (Spacewatch)				Elements MPC 30632					
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 19		21 26.66	−06 13.9	3.388	4.250	145.0	7.8	18.9	
1997 09 29		21 25.35	−06 07.2	3.484	4.254	135.2	9.6	19.0	
1997 10 09		21 25.40	−05 57.7	3.600	4.259	125.5	11.0	19.1	
1997 10 19		21 26.89	−05 44.3	3.731	4.265	116.2	12.1	19.2	
1997 10 29		21 29.78	−05 26.1	3.874	4.273	107.2	12.8	19.2	
1997 11 08		21 34.02	−05 02.6	4.025	4.283	98.4	13.2	19.3	
1997 11 18		21 39.48	−04 33.4	4.181	4.295	89.9	13.3	19.4	
1997 11 28		21 46.02	−03 58.3	4.339	4.308	81.7	13.1	19.5	
1997 12 08		21 53.52	−03 17.4	4.496	4.323	73.6	12.6	19.6	
1997 12 18		22 01.81	−02 30.8	4.648	4.339	65.8	11.9	19.7	
1997 12 28		22 10.78	−01 38.7	4.795	4.357	58.2	11.1	19.8	
1998 01 07		22 20.29	−00 41.4	4.932	4.376	50.7	10.0	19.9	
1998 01 17		22 30.22	+00 20.6	5.059	4.397	43.4	8.9	20.0	
1998 01 27		22 40.48	+01 26.9	5.174	4.420	36.3	7.6	20.0	

1989 VA

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 09 29		14 07.68	+32 58.3	0.399	0.762	43.3	115.7	19.4
1997 10 09		15 25.76	+38 35.1	0.308	0.867	56.4	106.4	18.6
1997 10 19		17 30.48	+38 37.3	0.252	0.954	73.1	92.3	17.7
1997 10 29		19 44.60	+27 51.8	0.248	1.024	90.0	76.0	17.2
1997 11 08		21 14.78	+13 54.9	0.299	1.079	99.1	65.1	17.3
1997 11 18		22 09.53	+04 12.0	0.383	1.120	99.9	60.4	17.8
1997 11 28		22 46.44	−01 34.9	0.482	1.146	96.6	58.7	18.3
1997 12 08		23 14.60	−04 56.6	0.585	1.160	91.7	58.1	18.7
1997 12 18		23 38.16	−06 52.3	0.685	1.161	86.1	57.8	19.1
1997 12 28		23 59.15	−07 55.5	0.779	1.148	80.4	57.6	19.3
1998 01 07		00 18.69	−08 25.3	0.861	1.122	74.6	57.6	19.5
1998 01 17		00 37.32	−08 34.6	0.928	1.083	68.9	57.9	19.6
1998 01 27		00 55.28	−08 31.6	0.978	1.029	63.3	58.7	19.6

1997 PO

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 09 29		20 40.92	−30 20.0	1.145	1.842	118.1	28.7	19.4
1997 10 09		20 55.25	−31 08.8	1.264	1.872	111.1	29.9	19.7
1997 10 19		21 11.38	−31 21.4	1.390	1.904	104.7	30.4	19.9
1997 10 29		21 28.77	−31 03.9	1.523	1.939	98.6	30.4	20.2
1997 11 08		21 47.02	−30 21.4	1.660	1.976	92.9	30.1	20.4

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1997 11 18	22 05.75	-29 18.4	1.801	2.015	87.4	29.3	20.6
1997 11 28	22 24.70	-27 58.8	1.944	2.055	82.1	28.4	20.8
1997 12 08	22 43.70	-26 26.1	2.089	2.097	76.9	27.2	20.9
1997 12 18	23 02.62	-24 43.3	2.233	2.141	71.8	25.9	21.1
1997 12 28	23 21.37	-22 53.0	2.377	2.185	66.8	24.4	21.2
1998 01 07	23 39.93	-20 57.6	2.519	2.230	61.8	22.9	21.3

1997 QK ₁ $a, e, i = 2.90, 0.66, 3$ Elements <i>MPC</i> 30694							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29		21 23.45	-01 41.5	0.208	1.159	135.3	37.5
1997 10 09		22 22.79	+01 59.3	0.281	1.230	141.1	30.7
1997 10 19		23 01.28	+04 09.9	0.372	1.308	141.4	28.4
1997 10 29		23 28.76	+05 36.5	0.479	1.390	138.7	28.1
1997 11 08		23 50.53	+06 44.4	0.601	1.475	134.4	28.7
1997 11 18		00 09.30	+07 46.3	0.736	1.562	129.2	29.4
1997 11 28		00 26.42	+08 47.4	0.885	1.649	123.6	29.9
1997 12 08		00 42.72	+09 50.2	1.045	1.737	117.6	30.2
1997 12 18		00 58.61	+10 55.3	1.217	1.824	111.5	30.1

1997 RD ₁ $a, e, i = 2.67, 0.40, 14$ Elements <i>MPC</i> 30695							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29		21 49.88	-12 33.7	0.710	1.609	139.5	23.9
1997 10 09		22 01.39	-14 30.4	0.781	1.625	131.5	27.4
1997 10 19		22 15.34	-15 38.2	0.864	1.645	124.3	30.0
1997 10 29		22 31.13	-16 02.2	0.957	1.670	117.7	31.8
1997 11 08		22 48.27	-15 48.6	1.061	1.697	111.6	32.9
1997 11 18		23 06.29	-15 04.5	1.173	1.728	105.9	33.4
1997 11 28		23 24.85	-13 56.2	1.292	1.762	100.5	33.4
1997 12 08		23 43.74	-12 29.4	1.418	1.799	95.2	33.1
1997 12 18		00 02.78	-10 49.0	1.549	1.837	90.2	32.4
1997 12 28		00 21.86	-08 59.1	1.684	1.878	85.2	31.5
1998 01 07		00 40.96	-07 03.3	1.823	1.920	80.3	30.3
1998 01 17		01 00.02	-05 04.6	1.965	1.963	75.4	29.0
1998 01 27		01 19.05	-03 05.4	2.108	2.007	70.5	27.6
1998 02 06		01 38.05	-01 07.8	2.251	2.052	65.7	26.0
1998 02 16		01 57.01	+00 46.4	2.393	2.098	60.9	24.3

1997 RT ₅ $a, e, i = 42.28, 0.00, 13$ Elements <i>MPC</i> 30695							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29		22 58.79	-06 33.9	41.353	42.280	157.5	0.5
1997 10 09		22 58.16	-06 38.4	41.435	42.280	147.4	0.7
1997 10 19		22 57.61	-06 42.3	41.542	42.280	137.4	0.9
1997 10 29		22 57.17	-06 45.5	41.671	42.280	127.3	1.1
1997 11 08		22 56.85	-06 48.0	41.818	42.280	117.2	1.2
1997 11 18		22 56.67	-06 49.6	41.979	42.280	107.1	1.3
1997 11 28		22 56.64	-06 50.3	42.149	42.280	97.0	1.3
1997 12 08		22 56.76	-06 50.0	42.323	42.280	86.8	1.3
1997 12 18		22 57.03	-06 48.9	42.495	42.280	76.8	1.3
1997 12 28		22 57.45	-06 46.8	42.660	42.280	66.7	1.2
1998 01 07		22 58.00	-06 43.8	42.813	42.280	56.6	1.1
1998 01 17		22 58.68	-06 40.1	42.950	42.280	46.6	1.0
1998 01 27		22 59.46	-06 35.8	43.066	42.280	36.7	0.8

M.P.C. 30697

1997 RY ₆ $a, e, i = 41.37, 0.00, 13$ Elements <i>MPC</i> 30695							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29		23 38.61	+06 36.0	40.385	41.367	168.4	0.3
1997 10 09		23 37.88	+06 31.1	40.427	41.367	160.1	0.5
1997 10 19		23 37.21	+06 26.3	40.497	41.367	150.6	0.7
1997 10 29		23 36.62	+06 21.6	40.593	41.367	140.8	0.9
1997 11 08		23 36.14	+06 17.4	40.712	41.367	130.9	1.0
1997 11 18		23 35.79	+06 13.7	40.851	41.367	120.9	1.2
1997 11 28		23 35.58	+06 10.7	41.006	41.367	110.8	1.3
1997 12 08		23 35.52	+06 08.6	41.172	41.367	100.8	1.3
1997 12 18		23 35.61	+06 07.4	41.343	41.367	90.7	1.4
1997 12 28		23 35.86	+06 07.2	41.515	41.367	80.7	1.3
1998 01 07		23 36.26	+06 08.1	41.682	41.367	70.7	1.3
1998 01 17		23 36.79	+06 10.1	41.839	41.367	60.8	1.2
1998 01 27		23 37.46	+06 13.0	41.981	41.367	50.9	1.1
1998 02 06		23 38.23	+06 16.9	42.105	41.367	41.1	0.9
1998 02 16		23 39.08	+06 21.6	42.206	41.367	31.5	0.7

1997 QJ ₄ $a, e, i = 39.58, 0.12, 16$ Elements <i>MPC</i> 30695							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29		23 40.25	+00 56.8	33.819	34.804	169.5	0.3
1997 10 09		23 39.39	+00 52.0	33.866	34.804	159.6	0.6
1997 10 19		23 38.60	+00 47.4	33.942	34.804	149.6	0.8
1997 10 29		23 37.91	+00 43.3	34.043	34.804	139.5	1.1
1997 11 08		23 37.35	+00 39.9	34.168	34.804	129.4	1.3
1997 11 18		23 36.94	+00 37.4	34.312	34.804	119.2	1.4
1997 11 28		23 36.69	+00 35.9	34.470	34.805	109.0	1.5
1997 12 08		23 36.62	+00 35.5	34.639	34.805	98.9	1.6
1997 12 18		23 36.74	+00 36.2	34.812	34.805	88.8	1.6
1997 12 28		23 37.04	+00 38.1	34.984	34.805	78.7	1.6
1998 01 07		23 37.51	+00 41.2	35.151	34.805	68.6	1.5

1997 QH ₄ $a, e, i = 44.40, 0.07, 13$ Elements <i>MPC</i> 30695							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29		23 42.90	-01 53.3	40.339	41.324	169.4	0.3
1997 10 09		23 42.17	-01 57.5	40.388	41.324	159.4	0.5
1997 10 19		23 41.50	-02 01.3	40.464	41.324	149.3	0.7
1997 10 29		23 40.90	-02 04.6	40.567	41.324	139.2	0.9
1997 11 08		23 40.41	-02 07.2	40.693	41.324	129.0	1.1
1997 11 18		23 40.05	-02 09.0	40.838	41.324	118.9	1.2
1997 11 28		23 39.82	-02 09.9	40.997	41.324	108.7	1.3
1997 12 08		23 39.75	-02 09.9	41.166	41.324	98.5	1.4
1997 12 18		23 39.82	-02 08.8	41.340	41.324	88.4	1.4
1997 12 28		23 40.05	-02 06.8	41.513	41.324	78.3	1.3
1998 01 07		23 40.43	-02 03.8	41.679	41.324	68.2	1.3

1996 TK ₆₆ $a, e, i = 42.47, 0.00, 5$ Elements <i>MPC</i> 29068							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29		00 24.84	+00 25.1	41.473	42.474	177.9	0.0
1997 10 09		00 24.10	+00 20.6	41.491	42.474	169.7	0.2
1997 10 19		00 23.39	+00 16.3	41.538	42.474	159.7	0.5
1997 10 29		00 22.72	+00 12.5	41.614	42.474	149.6	0.7
1997 11 08		00 22.14	+00 09.2	41.716	42.474	139.4	0.9
1997 11 18		00 21.65	+00 06.7	41.841	42.474	129.3	1.0

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1997 11 28	00 21.29	+00 04.9	41.986	42.474	119.1	1.2	23.9
1997 12 08	00 21.06	+00 04.1	42.145	42.474	108.9	1.3	23.9
1997 12 18	00 20.97	+00 04.3	42.314	42.474	98.7	1.3	24.0
1997 12 28	00 21.03	+00 05.4	42.487	42.474	88.5	1.3	24.0
1998 01 07	00 21.24	+00 07.5	42.660	42.474	78.4	1.3	24.0
1998 01 17	00 21.60	+00 10.5	42.827	42.474	68.3	1.2	24.0

1996 RQ ₂₀		$a, e, i = 44.33, 0.12, 32$				Elements <i>MPC</i> 30670	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	00 45.78		+05 36.2	38.498	39.493	173.2	0.2
1997 10 09	00 44.93		+05 32.3	38.497	39.494	176.7	0.1
1997 10 19	00 44.10		+05 28.4	38.526	39.496	166.6	0.3
1997 10 29	00 43.31		+05 24.8	38.585	39.497	156.4	0.6
1997 11 08	00 42.58		+05 21.6	38.671	39.499	146.2	0.8
1997 11 18	00 41.95		+05 18.9	38.783	39.500	136.0	1.0
1997 11 28	00 41.44		+05 16.9	38.917	39.502	125.8	1.2
1997 12 08	00 41.07		+05 15.8	39.069	39.503	115.5	1.3
1997 12 18	00 40.85		+05 15.6	39.234	39.505	105.3	1.4
1997 12 28	00 40.79		+05 16.5	39.406	39.506	95.1	1.4
1998 01 07	00 40.89		+05 18.3	39.582	39.508	85.0	1.4
1998 01 17	00 41.15		+05 21.2	39.755	39.509	74.9	1.4
1998 01 27	00 41.57		+05 25.0	39.920	39.511	64.8	1.3

1996 SZ ₄		$a, e, i = 39.69, 0.25, 5$				Elements <i>MPC</i> 30670	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	00 48.54		+04 55.1	29.414	30.409	172.8	0.2
1997 10 09	00 47.54		+04 49.1	29.408	30.405	177.0	0.1
1997 10 19	00 46.55		+04 43.2	29.431	30.402	166.9	0.4
1997 10 29	00 45.62		+04 37.7	29.484	30.398	156.7	0.7
1997 11 08	00 44.77		+04 32.8	29.565	30.395	146.4	1.0
1997 11 18	00 44.05		+04 28.6	29.671	30.392	136.2	1.3
1997 11 28	00 43.48		+04 25.4	29.799	30.388	125.9	1.5
1997 12 08	00 43.09		+04 23.4	29.945	30.385	115.7	1.7
1997 12 18	00 42.90		+04 22.6	30.104	30.381	105.4	1.8
1997 12 28	00 42.91		+04 23.1	30.272	30.378	95.3	1.8
1998 01 07	00 43.14		+04 24.9	30.442	30.375	85.1	1.8
1998 01 17	00 43.57		+04 28.1	30.610	30.371	75.1	1.8
1998 01 27	00 44.20		+04 32.5	30.770	30.368	65.1	1.7

1997 RT		$a, e, i = 2.24, 0.52, 6$				Elements <i>MPC</i> 30695	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	01 31.71		+38 55.2	0.190	1.154	140.1	33.8
1997 10 09	01 32.68		+38 08.7	0.234	1.202	147.1	26.8
1997 10 19	01 31.59		+36 18.6	0.285	1.257	153.6	20.6
1997 10 29	01 31.08		+33 58.1	0.345	1.318	157.3	16.9
1997 11 08	01 32.74		+31 33.7	0.417	1.383	156.4	16.7
1997 11 18	01 37.15		+29 25.0	0.502	1.450	151.7	18.9
1997 11 28	01 44.13		+27 41.0	0.602	1.520	145.1	21.8
1997 12 08	01 53.43		+26 24.2	0.716	1.590	137.9	24.6
1997 12 18	02 04.63		+25 33.0	0.843	1.660	130.6	26.7
1997 12 28	02 17.34		+25 03.3	0.982	1.731	123.4	28.3
1998 01 07	02 31.29		+24 50.8	1.132	1.800	116.5	29.3
1998 01 17	02 46.23		+24 51.2	1.292	1.869	109.7	29.7
1998 01 27	03 01.94		+25 00.7	1.459	1.937	103.2	29.7

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1998 02 06	03 18.30	+25 16.1	1.632	2.004	96.7	29.3	23.4
1998 02 16	03 35.16	+25 34.6	1.810	2.069	90.5	28.5	23.6
1998 02 26	03 52.41	+25 53.9	1.990	2.132	84.3	27.5	23.9
1998 03 08	04 09.99	+26 12.4	2.170	2.195	78.2	26.3	24.1
1998 03 18	04 27.78	+26 28.4	2.350	2.255	72.2	24.9	24.3
1998 03 28	04 45.72	+26 40.8	2.526	2.314	66.3	23.3	24.4
1998 04 07	05 03.75	+26 48.7	2.698	2.371	60.5	21.6	24.6

1995 OO		$a, e, i = 2.15, 0.78, 24$				Elements <i>MPC</i> 26192	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	04 35.44		+49 36.0	1.969	2.479	108.7	22.5
1997 10 09	04 35.17		+52 04.2	1.785	2.400	116.2	21.9
1997 10 19	04 29.36		+54 41.7	1.612	2.317	123.6	21.0
1997 10 29	04 15.82		+57 20.3	1.456	2.231	130.3	19.8
1997 11 08	03 52.16		+59 41.5	1.319	2.141	135.5	18.9
1997 11 18	03 17.39		+61 14.8	1.204	2.047	137.8	18.9
1997 11 28	02 34.63		+61 24.4	1.114	1.949	136.2	20.5
1997 12 08	01 52.15		+59 51.3	1.047	1.847	130.6	23.9
1997 12 18	01 18.20		+56 51.8	1.002	1.740	122.3	28.6
1997 12 28	00 55.89		+53 05.0	0.973	1.628	112.6	33.9
1998 01 07	00 44.30		+49 09.1	0.953	1.510	102.5	39.5
1998 01 17	00 41.03		+45 28.2	0.934	1.387	92.6	45.1
1998 01 27	00 43.87		+42 10.0	0.909	1.258	83.1	51.0
1998 02 06	00 51.10		+39 09.9	0.872	1.123	74.1	57.6
1998 02 16	01 01.00		+36 09.6	0.817	0.982	65.1	65.9
1998 02 26	01 11.46		+32 30.4	0.741	0.837	55.6	77.5
1998 03 08	01 18.38		+26 49.4	0.645	0.693	44.0	95.8

1994 AH ₂		$a, e, i = 2.53, 0.71, 10$				Elements <i>MPC</i> 26422	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	04 44.80		+10 54.8	2.078	2.651	114.2	20.2
1997 10 09	04 46.09		+10 00.0	1.887	2.577	123.5	18.9
1997 10 19	04 44.50		+08 54.0	1.710	2.501	133.3	16.8
1997 10 29	04 39.56		+07 37.7	1.549	2.422	143.6	14.1
1997 11 08	04 30.96		+06 13.2	1.410	2.340	153.9	10.8
1997 11 18	04 18.78		+04 45.2	1.296	2.256	161.8	7.9
1997 11 28	04 03.68		+03 21.4	1.210	2.170	161.8	8.1
1997 12 08	03 47.02		+02 11.4	1.154	2.081	153.1	12.4
1997 12 18	03 30.71		+01 24.7	1.124	1.989	141.1	18.1
1997 12 28	03 16.60		+01 07.1	1.117	1.894	128.7	23.9
1998 01 07	03 06.14		+01 20.1	1.124	1.797	116.9	29.2
1998 01 17	03 00.04		+02 01.3	1.138	1.696	105.9	33.9
1998 01 27	02 58.45		+03 06.6	1.153	1.593	96.1	37.9
1998 02 06	03 01.23		+04 32.1	1.163	1.488	87.2	41.4
1998 02 16	03 08.09		+06 14.2	1.163	1.380	79.4	44.7
1998 02 26	03 18.73		+08 10.5	1.149	1.271	72.5	48.0
1998 03 08	03 33.00		+10 19.7	1.118	1.162	66.5	51.6
1998 03 18	03 50.75		+12 41.2	1.069	1.055	61.3	55.9
1998 03 28	04 11.91		+15 15.6	1.000	0.952	56.9	61.4
1998 04 07	04 36.38		+18 05.8	0.911	0.860	53.2	68.7
1998 04 17	05 03.74		+21 17.6	0.803	0.787	50.1	78.3
1998 04 27	05 33.28		+25 04.1	0.681	0.741	47.4	90.0
1998 05 07	06 04.39		+29 50.6	0.553	0.732	45.0	102.6

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1998 05 17	06 38.45	+36 21.2	0.429	0.761	43.7	113.4	18.5
1998 05 27	07 24.97	+45 45.9	0.320	0.823	45.7	118.1	18.3
1998 06 06	09 06.12	+58 33.1	0.235	0.907	56.7	110.8	17.4
1998 06 16	13 18.86	+60 21.1	0.194	1.005	81.4	87.6	16.0
1998 06 26	15 55.78	+37 30.5	0.217	1.111	110.5	59.0	15.5
1998 07 06	16 49.33	+17 53.9	0.292	1.220	128.3	40.8	15.9
1998 07 16	17 15.90	+06 00.4	0.399	1.329	135.2	32.6	16.5
1998 07 26	17 33.74	-01 23.2	0.525	1.437	135.4	29.8	17.2
1998 08 05	17 48.43	-06 17.6	0.668	1.544	132.1	29.2	17.8
1998 08 15	18 02.02	-09 42.5	0.825	1.648	127.2	29.3	18.4
1998 08 25	18 15.37	-12 09.6	0.994	1.750	121.5	29.5	19.0
1998 09 04	18 28.88	-13 56.2	1.175	1.848	115.4	29.5	19.5
1998 09 14	18 42.65	-15 12.9	1.366	1.944	109.2	29.3	19.9
1998 09 24	18 56.72	-16 06.3	1.564	2.038	102.8	28.7	20.3
1998 10 04	19 11.07	-16 40.9	1.769	2.128	96.5	27.8	20.6
1998 10 14	19 25.63	-16 59.8	1.978	2.216	90.0	26.8	20.9
1998 10 24	19 40.35	-17 05.4	2.189	2.301	83.6	25.4	21.2
1998 11 03	19 55.17	-16 59.4	2.399	2.383	77.1	23.9	21.4
1998 11 13	20 10.01	-16 43.3	2.608	2.464	70.6	22.3	21.6
1998 11 23	20 24.83	-16 18.3	2.812	2.541	64.1	20.5	21.8

1993 WD		$a, e, i = 1.01, 0.27, 63$				Elements <i>MPC</i> 30092	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	06 49.27	-35 18.4	0.917	1.274	83.0	51.3	19.2
1997 10 09	06 43.41	-36 46.1	0.793	1.267	89.2	52.0	18.9
1997 10 19	06 28.26	-38 33.6	0.660	1.256	96.6	52.0	18.5
1997 10 29	05 55.93	-40 24.8	0.523	1.240	105.5	50.5	17.9
1997 11 08	04 50.45	-40 45.9	0.395	1.219	116.5	46.6	17.2
1997 11 18	02 58.47	-33 43.6	0.304	1.194	126.4	41.8	16.4
1997 11 28	01 02.04	-14 14.9	0.294	1.164	120.7	46.8	16.4
1997 12 08	23 49.75	+04 34.8	0.371	1.130	103.5	57.9	17.2
1997 12 18	23 10.89	+16 02.3	0.488	1.092	89.2	64.3	17.9
1997 12 28	22 48.56	+23 01.5	0.614	1.051	78.5	66.5	18.4
1998 01 07	22 34.07	+27 46.9	0.733	1.006	70.1	66.7	18.7
1998 01 17	22 23.04	+31 17.6	0.835	0.959	63.1	66.1	18.9
1998 01 27	22 13.23	+33 56.9	0.914	0.912	57.3	65.3	18.9
1998 02 06	22 03.45	+35 51.1	0.964	0.866	52.7	65.0	18.9

(7304) 1994 AE ₂		$a, e, i = 2.61, 0.43, 10$				Elements <i>MPC</i> 28290	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	06 57.13	+18 42.6	3.131	3.159	82.4	18.3	19.2
1997 10 09	07 04.50	+18 33.8	2.953	3.125	90.5	18.6	19.1
1997 10 19	07 10.33	+18 26.7	2.775	3.091	99.0	18.6	18.9
1997 10 29	07 14.34	+18 23.2	2.599	3.055	107.9	18.0	18.7
1997 11 08	07 16.20	+18 24.7	2.430	3.019	117.5	16.9	18.5
1997 11 18	07 15.64	+18 32.7	2.273	2.981	127.7	15.2	18.3
1997 11 28	07 12.43	+18 48.5	2.130	2.943	138.5	12.8	18.0
1997 12 08	07 06.48	+19 12.2	2.008	2.904	150.1	9.7	17.8
1997 12 18	06 58.01	+19 43.2	1.911	2.863	162.2	6.0	17.5
1997 12 28	06 47.55	+20 19.4	1.842	2.822	174.5	1.9	17.1
1998 01 07	06 36.07	+20 58.0	1.804	2.780	171.6	3.0	17.1
1998 01 17	06 24.77	+21 36.4	1.796	2.737	159.0	7.4	17.3
1998 01 27	06 14.86	+22 12.7	1.816	2.693	146.6	11.6	17.5

1998 02 06	06 07.35	+22 46.2	1.861	2.649	134.7	15.4	17.6
1998 02 16	06 02.87	+23 16.9	1.924	2.603	123.5	18.4	17.7
1998 02 26	06 01.64	+23 45.0	2.000	2.557	113.2	20.9	17.9
1998 03 08	06 03.65	+24 10.8	2.084	2.510	103.6	22.6	18.0
1998 03 18	06 08.68	+24 33.7	2.171	2.462	94.8	23.8	18.1
1998 03 28	06 16.45	+24 53.1	2.257	2.413	86.6	24.4	18.1
1998 04 07	06 26.67	+25 08.1	2.341	2.364	79.0	24.6	18.2
1998 04 17	06 39.04	+25 17.3	2.418	2.315	72.0	24.4	18.2
1998 04 27	06 53.30	+25 19.7	2.489	2.265	65.5	23.9	18.2

1988 JB ₁		$a, e, i = 3.14, 0.40, 20$				Elements <i>MPC</i> 29133	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	07 08.34	+05 35.2	3.945	3.875	78.7	14.7	20.7
1997 10 09	07 13.67	+04 57.5	3.775	3.849	86.7	15.0	20.6
1997 10 19	07 17.65	+04 19.3	3.604	3.822	95.1	15.0	20.5
1997 10 29	07 20.11	+03 42.1	3.434	3.795	103.8	14.7	20.4
1997 11 08	07 20.86	+03 07.7	3.270	3.768	112.9	14.0	20.3
1997 11 18	07 19.77	+02 38.4	3.116	3.739	122.3	12.9	20.1
1997 11 28	07 16.78	+02 16.7	2.977	3.710	132.0	11.4	19.9
1997 12 08	07 11.92	+02 04.9	2.857	3.681	141.7	9.5	19.7
1997 12 18	07 05.44	+02 05.5	2.760	3.651	150.8	7.5	19.6
1997 12 28	06 57.73	+02 19.9	2.690	3.620	157.8	5.9	19.4
1998 01 07	06 49.39	+02 48.6	2.650	3.589	159.7	5.5	19.3
1998 01 17	06 41.11	+03 30.8	2.640	3.557	155.1	6.7	19.4
1998 01 27	06 33.61	+04 24.1	2.659	3.524	146.7	8.8	19.5
1998 02 06	06 27.50	+05 25.5	2.704	3.491	137.0	11.1	19.6
1998 02 16	06 23.23	+06 31.8	2.772	3.457	126.9	13.2	19.7
1998 02 26	06 21.03	+07 39.8	2.856	3.422	117.1	14.9	19.8
1998 03 08	06 21.02	+08 46.7	2.954	3.387	107.5	16.2	19.9
1998 03 18	06 23.11	+09 50.6	3.059	3.352	98.4	17.1	20.0
1998 03 28	06 27.19	+10 49.9	3.167	3.316	89.7	17.5	20.0
1998 04 07	06 33.09	+11 43.5	3.275	3.279	81.4	17.6	20.1
1998 04 17	06 40.60	+12 30.6	3.380	3.242	73.6	17.3	20.1
1998 04 27	06 49.55	+13 10.6	3.478	3.204	66.0	16.7	20.1

1991 WA		$a, e, i = 1.58, 0.64, 40$				Elements <i>MPC</i> 29660	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 09 29	09 34.31	-28 17.5	0.567	0.747	47.6	98.3	18.7
1997 10 09	09 01.40	-23 02.1	0.511	0.859	59.3	89.9	18.4
1997 10 19	08 31.53	-15 43.4	0.454	0.973	73.9	79.5	18.0
1997 10 29	07 57.67	-06 03.8	0.401	1.087	92.4	66.0	17.5
1997 11 08	07 12.62	+06 25.9	0.366	1.197	115.8	48.2	17.0
1997 11 18	06 13.20	+20 09.8	0.370	1.302	142.5	27.5	16.6
1997 11 28	05 07.33	+30 49.4	0.425	1.402	165.0	10.5	16.5
1997 12 08	04 11.32	+36 26.9	0.527	1.497	162.8	11.2	17.2
1997 12 18	03 33.80	+38 43.5	0.662	1.587	148.6	18.9	18.1
1997 12 28	03 12.78	+39 32.5	0.818	1.672	136.0	24.1	18.8
1998 01 07	03 03.58	+39 52.3	0.989	1.752	125.3	27.3	19.4
1998 01 17	03 02.35	+40 06.4	1.170	1.828	115.9	29.0	19.9
1998 01 27	03 06.53	+40 22.6	1.356	1.899	107.4	29.7	20.3
1998 02 06	03 14.56	+40 43.2	1.545	1.966	99.6	29.6	20.7
1998 02 16	03 25.39	+41 08.0	1.734	2.029	92.3	29.1	21.0
1998 02 26	03 38.34	+41 35.6	1.920	2.088	85.4	28.2	21.3

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1998 03 08	03 52.98	+42 05.0	2.103	2.144	78.8	27.0	21.5
1998 03 18	04 08.95	+42 34.6	2.279	2.195	72.5	25.6	21.7
1998 03 28	04 26.03	+43 03.1	2.447	2.244	66.5	24.1	21.8
1998 04 07	04 44.03	+43 29.6	2.606	2.288	60.7	22.4	22.0

(7753) 1988 XB		$a, e, i = 1.47, 0.48, 3$				Elements <i>MPC</i> 30258		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 10 09		08 55.72	+16 27.8	0.756	0.953	64.1	70.5	20.4
1997 10 19		09 16.43	+15 43.3	0.795	1.028	69.0	64.8	20.5
1997 10 29		09 34.79	+14 58.8	0.818	1.105	74.5	60.0	20.5
1997 11 08		09 50.26	+14 21.9	0.824	1.183	80.8	55.8	20.6
1997 11 18		10 02.35	+13 59.2	0.818	1.260	88.0	51.6	20.6
1997 11 28		10 10.51	+13 57.4	0.800	1.335	96.2	47.3	20.5
1997 12 08		10 13.99	+14 22.6	0.774	1.408	105.7	42.4	20.4
1997 12 18		10 12.01	+15 19.7	0.746	1.477	116.6	36.6	20.3
1997 12 28		10 03.87	+16 49.8	0.722	1.544	129.1	29.6	20.1
1998 01 07		09 49.34	+18 46.6	0.708	1.607	143.0	21.6	19.9
1998 01 17		09 29.55	+20 53.6	0.713	1.666	157.9	12.8	19.7
1998 01 27		09 07.09	+22 48.4	0.742	1.722	171.8	4.7	19.5
1998 02 06		08 45.54	+24 12.7	0.798	1.775	168.6	6.3	19.8
1998 02 16		08 28.05	+25 01.1	0.879	1.824	155.5	13.0	20.4
1998 02 26		08 16.13	+25 19.0	0.982	1.870	143.0	18.6	20.9
1998 03 08		08 09.96	+25 14.8	1.103	1.913	131.7	22.8	21.3
1998 03 18		08 08.84	+24 55.5	1.236	1.952	121.7	25.7	21.7
1998 03 28		08 11.81	+24 25.5	1.378	1.988	112.6	27.6	22.0

1995 DB ₂		$a, e, i = 46.27, 0.13, 4$				Elements <i>MPC</i> 30093		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 10 09		09 06.15	+16 54.6	40.701	40.238	61.8	1.3	23.7
1997 10 19		09 06.69	+16 52.5	40.543	40.239	71.6	1.3	23.7
1997 10 29		09 07.07	+16 51.1	40.376	40.240	81.4	1.4	23.7
1997 11 08		09 07.28	+16 50.4	40.205	40.241	91.4	1.4	23.7
1997 11 18		09 07.33	+16 50.5	40.034	40.242	101.4	1.4	23.7
1997 11 28		09 07.21	+16 51.3	39.869	40.243	111.6	1.3	23.7
1997 12 08		09 06.92	+16 52.8	39.716	40.244	121.8	1.2	23.7
1997 12 18		09 06.48	+16 55.0	39.579	40.244	132.1	1.0	23.7
1997 12 28		09 05.90	+16 57.7	39.462	40.245	142.4	0.9	23.6
1998 01 07		09 05.22	+17 00.9	39.369	40.246	152.8	0.6	23.6
1998 01 17		09 04.44	+17 04.4	39.305	40.247	163.1	0.4	23.6
1998 01 27		09 03.62	+17 08.2	39.270	40.248	173.5	0.2	23.5
1998 02 06		09 02.77	+17 12.0	39.265	40.249	176.1	0.1	23.5
1998 02 16		09 01.93	+17 15.7	39.292	40.250	165.8	0.3	23.6
1998 02 26		09 01.14	+17 19.2	39.348	40.251	155.5	0.6	23.6
1998 03 08		09 00.42	+17 22.4	39.432	40.252	145.3	0.8	23.6
1998 03 18		08 59.81	+17 25.1	39.541	40.253	135.2	1.0	23.7
1998 03 28		08 59.32	+17 27.3	39.671	40.254	125.1	1.2	23.7
1998 04 07		08 58.97	+17 28.8	39.819	40.255	115.2	1.3	23.7
1998 04 17		08 58.78	+17 29.7	39.979	40.256	105.3	1.4	23.7
1998 04 27		08 58.75	+17 29.9	40.147	40.256	95.5	1.4	23.7
1998 05 07		08 58.89	+17 29.4	40.317	40.257	85.9	1.4	23.7
1998 05 17		08 59.20	+17 28.2	40.486	40.258	76.3	1.4	23.8
1998 05 27		08 59.66	+17 26.4	40.648	40.259	66.8	1.3	23.8

1995 DA ₂		$a, e, i = 36.17, 0.07, 7$				Elements <i>MPC</i> 29664		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 10 09		09 07.59	+17 07.6	34.469	34.004	61.5	1.5	23.5
1997 10 19		09 08.24	+17 05.3	34.312	34.005	71.3	1.6	23.5
1997 10 29		09 08.71	+17 03.8	34.146	34.006	81.1	1.7	23.5
1997 11 08		09 08.99	+17 03.1	33.974	34.007	91.1	1.7	23.5
1997 11 18		09 09.06	+17 03.4	33.804	34.008	101.1	1.6	23.5
1997 11 28		09 08.94	+17 04.5	33.639	34.009	111.2	1.5	23.5
1997 12 08		09 08.62	+17 06.5	33.486	34.010	121.5	1.4	23.5
1997 12 18		09 08.11	+17 09.2	33.348	34.011	131.8	1.2	23.4
1997 12 28		09 07.45	+17 12.6	33.231	34.012	142.1	1.0	23.4
1998 01 07		09 06.65	+17 16.6	33.138	34.013	152.5	0.8	23.4
1998 01 17		09 05.75	+17 20.9	33.073	34.014	162.9	0.5	23.4
1998 01 27		09 04.78	+17 25.5	33.037	34.015	173.3	0.2	23.3
1998 02 06		09 03.78	+17 30.2	33.033	34.016	176.2	0.1	23.3
1998 02 16		09 02.80	+17 34.7	33.059	34.017	165.9	0.4	23.3
1998 02 26		09 01.86	+17 39.0	33.115	34.019	155.6	0.7	23.4
1998 03 08		09 01.02	+17 42.8	33.199	34.020	145.3	1.0	23.4
1998 03 18		09 00.30	+17 46.0	33.308	34.021	135.2	1.2	23.4
1998 03 28		08 59.73	+17 48.6	33.438	34.022	125.1	1.4	23.5
1998 04 07		08 59.33	+17 50.5	33.585	34.023	115.1	1.5	23.5
1998 04 17		08 59.11	+17 51.5	33.745	34.024	105.3	1.6	23.5
1998 04 27		08 59.09	+17 51.7	33.913	34.025	95.5	1.7	23.5
1998 05 07		08 59.27	+17 51.1	34.084	34.026	85.9	1.7	23.5
1998 05 17		08 59.64	+17 49.7	34.252	34.027	76.3	1.7	23.5
1998 05 27		09 00.19	+17 47.6	34.414	34.028	66.8	1.6	23.5

1996 FG ₃		$a, e, i = 1.05, 0.35, 2$				Elements <i>MPC</i> 29666		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 10 09		09 09.03	+19 53.6	0.504	0.883	62.1	87.6	19.8
1997 10 19		09 21.01	+18 47.2	0.533	0.946	68.9	79.4	19.8
1997 10 29		09 33.93	+17 32.9	0.547	1.007	75.5	72.7	19.8
1997 11 08		09 45.89	+16 20.0	0.547	1.067	82.4	67.0	19.7
1997 11 18		09 55.56	+15 15.6	0.533	1.123	89.9	61.7	19.6
1997 11 28		10 01.72	+14 27.2	0.510	1.175	98.4	56.2	19.4
1997 12 08		10 02.87	+14 02.8	0.479	1.222	108.1	50.0	19.2
1997 12 18		09 57.36	+14 10.1	0.446	1.265	119.6	42.6	18.9
1997 12 28		09 43.41	+14 54.6	0.414	1.302	133.2	33.4	18.6
1998 01 07		09 20.00	+16 13.7	0.392	1.335	149.1	22.2	18.2
1998 01 17		08 48.91	+17 48.7	0.386	1.362	166.9	9.4	17.7
1998 01 27		08 15.48	+19 11.8	0.401	1.385	174.9	3.7	17.6
1998 02 06		07 46.65	+20 05.0	0.438	1.402	157.9	15.4	18.3
1998 02 16		07 26.76	+20 29.9	0.494	1.414	143.1	24.8	18.9
1998 02 26		07 16.33	+20 36.6	0.562	1.421	130.6	31.9	19.4
1998 03 08		07 14.05	+20 32.2	0.638	1.423	120.0	37.1	19.8
1998 03 18		07 18.07	+20 19.6	0.717	1.420	111.0	40.9	20.1
1998 03 28		07 26.79	+19 59.2	0.796	1.412	103.2	43.5	20.4
1998 04 07		07 39.08	+19 29.9	0.873	1.398	96.3	45.4	20.7
1998 04 17		07 54.03	+18 50.7	0.946	1.380	90.1	46.7	20.8
1998 04 27		08 11.01	+18 00.4	1.012	1.356	84.4	47.6	21.0
1998 05 07		08 29.63	+16 58.2	1.070	1.327	79.3	48.3	21.1
1998 05 17		08 49.53	+15 43.3	1.119	1.293	74.6	48.9	21.1
1998 05 27		09 10.52	+14 15.3	1.158	1.254	70.2	49.5	21.2

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1998 06 06	09 32.50	+12 33.8	1.185	1.211	66.2	50.1	21.1
1998 06 16	09 55.38	+10 38.9	1.200	1.162	62.6	50.9	21.1

10P/Tempel 2					Elements <i>MPC</i> 27082				
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 10 09	10	58.74	+12 56.9	5.193	4.415	35.3	7.5		21.8
1997 10 19	11	07.24	+12 19.3	5.070	4.394	43.0	8.9		21.8
1997 10 29	11	15.33	+11 45.5	4.931	4.371	50.8	10.1		21.8
1997 11 08	11	22.90	+11 16.7	4.777	4.348	58.9	11.2		21.8
1997 11 18	11	29.82	+10 53.9	4.611	4.324	67.1	12.2		21.7
1997 11 28	11	35.96	+10 38.3	4.436	4.299	75.7	12.8		21.7
1997 12 08	11	41.17	+10 31.1	4.254	4.274	84.5	13.3		21.6
1997 12 18	11	45.29	+10 33.3	4.069	4.248	93.7	13.4		21.5
1997 12 28	11	48.14	+10 46.1	3.886	4.221	103.2	13.1		21.3
1998 01 07	11	49.56	+11 10.0	3.709	4.193	113.1	12.5		21.2
1998 01 17	11	49.40	+11 45.3	3.543	4.164	123.3	11.4		21.0
1998 01 27	11	47.56	+12 31.5	3.392	4.135	133.8	9.9		20.9
1998 02 06	11	44.03	+13 27.1	3.261	4.105	144.6	8.0		20.7
1998 02 16	11	38.92	+14 29.2	3.156	4.074	155.2	5.8		20.5
1998 02 26	11	32.48	+15 34.1	3.079	4.043	164.6	3.7		20.3
1998 03 08	11	25.15	+16 37.1	3.034	4.010	168.0	2.9		20.2
1998 03 18	11	17.48	+17 33.6	3.020	3.977	161.7	4.5		20.3
1998 03 28	11	10.06	+18 19.7	3.035	3.943	151.7	6.9		20.4
1998 04 07	11	03.47	+18 52.7	3.078	3.908	141.1	9.3		20.5
1998 04 17	10	58.19	+19 11.6	3.144	3.872	130.5	11.4		20.6
1998 04 27	10	54.52	+19 16.5	3.229	3.836	120.2	13.1		20.7
1998 05 07	10	52.61	+19 08.3	3.326	3.798	110.4	14.4		20.8
1998 05 17	10	52.51	+18 48.4	3.432	3.760	101.1	15.3		20.9
1998 05 27	10	54.12	+18 18.4	3.542	3.721	92.2	15.8		21.0
1998 06 06	10	57.33	+17 39.5	3.651	3.681	83.7	15.9		21.0
1998 06 16	11	01.99	+16 53.2	3.757	3.640	75.6	15.7		21.0
1998 06 26	11	07.93	+16 00.3	3.856	3.599	67.9	15.2		21.1
1998 07 06	11	15.00	+15 01.8	3.947	3.556	60.4	14.4		21.0
1998 07 16	11	23.07	+13 58.5	4.026	3.513	53.2	13.4		21.0
1998 07 26	11	32.01	+12 51.0	4.092	3.469	46.3	12.2		21.0
1998 08 05	11	41.71	+11 40.0	4.144	3.424	39.6	10.9		20.9
1998 08 15	11	52.09	+10 25.9	4.182	3.378	33.1	9.4		20.9

22P/Kopff					Elements <i>MPC</i> 27080				
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 10 19		04 22.96	+16 08.2	3.077	3.882	138.7	9.7	20.8	22.5
1997 10 29		04 16.80	+15 47.4	3.033	3.925	150.1	7.3	20.8	22.4
1997 11 08		04 09.37	+15 25.3	3.015	3.968	161.6	4.5	21.0	22.3
1997 11 18		04 01.23	+15 03.2	3.028	4.010	172.2	1.9	21.1	22.2
1997 11 28		03 53.01	+14 42.9	3.072	4.051	171.5	2.1	21.2	22.2
1997 12 08		03 45.32	+14 26.2	3.149	4.091	160.7	4.6	21.4	22.4

(7096) Napier		$a, e, i = 2.78, 0.50, 11$			Elements <i>MPC</i> 27551			
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 10 19		09 39.83	+08 07.1	2.027	1.778	61.3	29.4	19.4
1997 10 29		09 57.89	+06 55.1	1.988	1.835	66.6	29.8	19.4
1997 11 08		10 14.04	+05 50.2	1.941	1.894	72.4	29.9	19.4
1997 11 18		10 28.15	+04 55.1	1.887	1.953	78.8	29.8	19.4
1997 11 28		10 40.09	+04 12.6	1.827	2.013	85.9	29.3	19.4

1997 12 08	10 49.60	+03 45.9	1.763	2.073	93.6	28.3	19.4
1997 12 18	10 56.46	+03 37.8	1.697	2.133	102.1	26.8	19.3
1997 12 28	11 00.39	+03 51.2	1.632	2.193	111.5	24.7	19.2
1998 01 07	11 01.16	+04 28.2	1.574	2.252	121.8	21.8	19.1
1998 01 17	10 58.72	+05 29.1	1.527	2.311	132.9	18.2	19.0
1998 01 27	10 53.22	+06 52.0	1.496	2.370	144.9	13.8	18.8
1998 02 06	10 45.19	+08 31.3	1.487	2.428	157.5	8.9	18.7
1998 02 16	10 35.59	+10 17.9	1.506	2.485	170.4	3.8	18.5
1998 02 26	10 25.58	+12 01.5	1.553	2.541	176.0	1.6	18.5
1998 03 08	10 16.40	+13 32.7	1.629	2.597	163.6	6.2	18.9
1998 03 18	10 09.03	+14 45.6	1.733	2.651	151.6	10.3	19.3
1998 03 28	10 04.05	+15 37.8	1.861	2.705	140.3	13.6	19.6
1998 04 07	10 01.66	+16 09.7	2.009	2.758	129.7	16.2	19.9
1998 04 17	10 01.79	+16 23.4	2.171	2.810	119.9	18.0	20.2
1998 04 27	10 04.17	+16 21.5	2.345	2.861	110.7	19.2	20.4
1998 05 07	10 08.50	+16 06.3	2.527	2.910	102.1	19.8	20.6
1998 05 17	10 14.45	+15 40.0	2.712	2.959	94.0	19.9	20.8
1998 05 27	10 21.72	+15 04.6	2.899	3.007	86.2	19.6	21.0
1998 06 06	10 30.05	+14 21.4	3.084	3.054	78.8	19.0	21.1
1998 06 16	10 39.23	+13 31.8	3.266	3.100	71.6	18.1	21.3
1998 06 26	10 49.06	+12 37.0	3.441	3.144	64.7	17.0	21.4

P/1997 C1 (Gehrels)				Elements <i>MPC</i> 30063					
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 10 19		11 19.30	+01 58.7	5.845	5.072	35.9	6.6	18.9	
1997 10 29		11 26.64	+01 10.1	5.777	5.107	43.8	7.7	18.9	
1997 11 08		11 33.40	+00 24.6	5.693	5.142	52.0	8.7	18.9	
1997 11 18		11 39.48	−00 17.1	5.595	5.177	60.3	9.5	18.9	
1997 11 28		11 44.78	−00 54.2	5.485	5.213	69.0	10.2	18.9	
1997 12 08		11 49.20	−01 26.0	5.366	5.248	77.9	10.6	18.8	
1997 12 18		11 52.63	−01 51.7	5.241	5.283	87.1	10.7	18.8	
1997 12 28		11 55.00	−02 10.6	5.115	5.319	96.6	10.6	18.8	
1998 01 07		11 56.21	−02 22.1	4.992	5.354	106.4	10.1	18.8	
1998 01 17		11 56.23	−02 25.7	4.877	5.389	116.6	9.4	18.8	
1998 01 27		11 55.08	−02 21.3	4.774	5.424	127.0	8.3	18.7	
1998 02 06		11 52.80	−02 09.1	4.689	5.459	137.7	7.0	18.7	
1998 02 16		11 49.56	−01 49.8	4.626	5.495	148.7	5.4	18.7	
1998 02 26		11 45.56	−01 24.6	4.590	5.530	159.8	3.5	18.7	
1998 03 08		11 41.07	−00 55.1	4.583	5.565	170.8	1.6	18.8	
1998 03 18		11 36.43	−00 23.4	4.606	5.600	176.3	0.7	18.8	
1998 03 28		11 31.94	+00 08.3	4.661	5.635	166.1	2.4	18.9	
1998 04 07		11 27.92	+00 38.1	4.745	5.669	155.2	4.2	18.9	
1998 04 17		11 24.62	+01 04.0	4.857	5.704	144.6	5.9	19.0	
1998 04 27		11 22.20	+01 24.7	4.992	5.739	134.1	7.2	19.1	
1998 05 07		11 20.79	+01 39.3	5.148	5.774	124.0	8.3	19.2	
1998 05 17		11 20.43	+01 47.3	5.319	5.808	114.3	9.1	19.3	
1998 05 27		11 21.10	+01 48.7	5.501	5.843	104.8	9.7	19.4	
1998 06 06		11 22.76	+01 43.5	5.690	5.877	95.6	9.9	19.5	
1998 06 16		11 25.32	+01 32.3	5.881	5.911	86.7	9.9	19.6	
1998 06 26		11 28.71	+01 15.4	6.071	5.945	78.1	9.6	19.7	
1998 07 06		11 32.84	+00 53.3	6.257	5.979	69.6	9.2	19.7	
1998 07 16		11 37.59	+00 26.7	6.434	6.013	61.4	8.5	19.8	
1998 07 26		11 42.89	−00 03.9	6.600	6.047	53.3	7.7	19.9	

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1998 08 05	11 48.64	−00 38.0	6.752	6.081	45.3	6.8	20.0		
1998 08 15	11 54.76	−01 14.8	6.889	6.115	37.3	5.8	20.1		
55P/Tempel-Tuttle						Elements <i>MPC</i> 30244			
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 10 19	12 06.24	+12 40.3	2.962	2.177	31.6	13.9	20.8	20.8	
1997 10 29	12 12.15	+12 37.8	2.728	2.064	39.7	17.9	20.0	20.7	
1997 11 08	12 18.02	+12 49.6	2.466	1.950	48.2	22.3	19.2	20.5	
1997 11 18	12 23.69	+13 22.0	2.178	1.836	57.0	26.8	18.3	20.2	
1997 11 28	12 29.00	+14 26.2	1.867	1.722	66.1	31.6	17.3	19.9	
1997 12 08	12 33.63	+16 23.0	1.538	1.609	75.7	36.4	16.1	19.4	
1997 12 18	12 37.06	+19 57.0	1.196	1.498	86.2	41.0	14.8	18.9	
1997 12 28	12 37.89	+27 03.2	0.851	1.390	98.2	44.5	13.2	18.1	
1998 01 07	12 29.49	+43 58.3	0.533	1.287	112.7	44.8	11.4	16.9	
1998 01 12	12 06.24	+61 33.1	0.412	1.238	119.3	43.8	10.4	16.2	
1998 01 17	07 06.1	+82 59.0	0.357	1.192	117.7	47.0	9.7	15.9	
1998 01 22	01 53.17	+60 50.1	0.396	1.149	104.4	56.1	9.5	16.3	
1998 01 27	01 28.87	+41 41.6	0.506	1.109	90.2	62.6	9.6	17.0	
1998 02 01	01 21.40	+30 10.2	0.649	1.073	79.2	64.4	9.8	17.5	
1998 02 06	01 18.06	+23 00.4	0.805	1.042	70.3	63.0	10.0	17.9	
1998 02 11	01 16.25	+18 13.1	0.964	1.017	62.8	59.7	10.1	18.1	
1998 02 16	01 15.12	+14 47.4	1.120	0.997	56.0	55.3	10.2	18.3	
1998 02 26	01 13.68	+10 08.5	1.415	0.977	43.7	44.4	10.5	18.4	
1998 03 08	01 12.67	+07 01.2	1.671	0.985	32.2	32.4	11.0	18.5	

P/1992 G2 (Shoemaker-Levy 8)

Date	TT	α_{2000}	δ_{2000}	Δ	r	Variation		m_1	m_2
1997 10 29		07 57.32	+14 30.0	4.088	4.324	−0.44	+1.3	22.3	22.4
1997 11 08		07 59.37	+14 07.3	3.917	4.304	−0.46	+1.4	22.1	22.3
1997 11 18		07 59.85	+13 48.7	3.753	4.283	−0.48	+1.5	22.0	22.1
1997 11 28		07 58.69	+13 34.9	3.601	4.263	−0.50	+1.5	21.9	22.0
1997 12 08		07 55.86	+13 26.8	3.466	4.241	−0.52	+1.6	21.7	21.8
1997 12 18		07 51.46	+13 24.6	3.353	4.220	−0.54	+1.6	21.6	21.7
1997 12 28		07 45.74	+13 28.5	3.265	4.198	−0.55	+1.6	21.5	21.5
1998 01 07		07 39.06	+13 37.8	3.206	4.176	−0.56	+1.6	21.4	21.3
1998 01 17		07 31.95	+13 51.8	3.179	4.154	−0.56	+1.6	21.4	21.3
1998 01 27		07 24.98	+14 09.0	3.183	4.131	−0.56	+1.5	21.3	21.4
1998 02 06		07 18.71	+14 28.2	3.216	4.108	−0.55	+1.4	21.3	21.5
1998 02 16		07 13.65	+14 48.0	3.277	4.085	−0.53	+1.3	21.3	21.6
1998 02 26		07 10.13	+15 07.3	3.360	4.062	−0.51	+1.2	21.3	21.7
1998 03 08		07 08.37	+15 25.1	3.461	4.038	−0.49	+1.2	21.3	21.8
1998 03 18		07 08.42	+15 40.5	3.575	4.014	−0.48	+1.1	21.3	21.9
1998 03 28		07 10.25	+15 53.0	3.698	3.990	−0.46	+1.1	21.4	22.1
1998 04 07		07 13.75	+16 01.9	3.824	3.966	−0.45	+1.0	21.4	22.2
1998 04 17		07 18.76	+16 06.8	3.950	3.941	−0.43	+1.0	21.4	22.3
1998 04 27		07 25.13	+16 07.3	4.072	3.917	−0.42	+1.0	21.4	22.3
1998 05 07		07 32.68	+16 02.9	4.188	3.892	−0.42	+1.1	21.4	22.4
1998 05 17		07 41.24	+15 53.5	4.296	3.867	−0.41	+1.1	21.4	22.4
1998 05 27		07 50.67	+15 38.8	4.392	3.841	−0.41	+1.1	21.4	22.5
1998 06 06		08 00.82	+15 18.8	4.476	3.816	−0.41	+1.2	21.4	22.5
1998 06 16		08 11.57	+14 53.4	4.547	3.790	−0.41	+1.3	21.4	22.5
1998 06 26		08 22.81	+14 22.5	4.603	3.765	−0.41	+1.3	21.3	22.4

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88P/Howell									
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
Elements <i>MPC</i> 25184									
1997 10 29	12 02.84	+03 19.0	3.906	3.162	36.4	10.8	21.5	21.6	
1997 11 08	12 15.10	+02 01.8	3.757	3.108	43.1	12.6	21.3	21.6	
1997 11 18	12 27.25	+00 46.3	3.596	3.053	49.8	14.3	21.1	21.5	
1997 11 28	12 39.25	−00 26.9	3.424	2.998	56.7	16.0	20.8	21.4	
1997 12 08	12 50.99	−01 36.8	3.243	2.941	63.7	17.5	20.6	21.3	
1997 12 18	13 02.37	−02 42.6	3.054	2.884	70.8	18.8	20.3	21.2	
1997 12 28	13 13.27	−03 43.3	2.861	2.826	78.0	19.9	20.1	21.0	
1998 01 07	13 23.51	−04 38.0	2.664	2.767	85.5	20.8	19.8	20.9	
1998 01 17	13 32.90	−05 25.6	2.468	2.707	93.2	21.3	19.4	20.7	
1998 01 27	13 41.20	−06 05.0	2.273	2.646	101.2	21.4	19.1	20.4	
1998 02 06	13 48.10	−06 34.9	2.082	2.585	109.5	21.1	18.8	20.2	
1998 02 16	13 53.28	−06 54.3	1.900	2.523	118.3	20.2	18.4	19.9	
1998 02 26	13 56.35	−07 01.9	1.728	2.460	127.5	18.6	18.1	19.6	
1998 03 08	13 56.92	−06 56.8	1.570	2.397	137.4	16.3	17.7	19.3	
1998 03 18	13 54.68	−06 38.8	1.429	2.333	147.9	13.1	17.3	18.9	
1998 03 28	13 49.48	−06 08.5	1.309	2.269	159.0	9.1	16.9	18.5	
1998 04 07	13 41.52	−05 28.5	1.211	2.204	170.3	4.4	16.6	18.0	
1998 04 17	13 31.51	−04 43.8	1.139	2.140	174.1	2.8	16.2	17.7	
1998 04 27	13 20.60	−04 01.6	1.092	2.076	163.1	8.1	15.9	17.8	
1998 05 07	13 10.31	−03 30.3	1.069	2.012	151.1	14.0	15.7	18.0	
1998 05 17	13 02.09	−03 17.0	1.066	1.949	139.5	19.7	15.5	18.1	
1998 05 27	12 56.99	−03 26.3	1.078	1.887	128.9	24.7	15.3	18.2	
1998 06 06	12 55.67	−03 59.9	1.101	1.826	119.2	29.0	15.1	18.3	
1998 06 16	12 58.25	−04 57.2	1.131	1.766	110.6	32.6	15.0	18.4	
1998 06 26	13 04.64	−06 16.4	1.164	1.709	103.1	35.4	14.8	18.4	
1998 07 06	13 14.65	−07 55.0	1.197	1.655	96.4	37.6	14.7	18.5	
1998 07 16	13 28.02	−09 50.0	1.229	1.605	90.7	39.3	14.5	18.5	
1998 07 26	13 44.57	−11 58.3	1.260	1.558	85.7	40.5	14.4	18.6	
1998 08 05	14 04.17	−14 16.2	1.289	1.516	81.4	41.4	14.3	18.6	
1998 08 15	14 26.73	−16 39.3	1.316	1.480	77.8	42.0	14.2	18.6	
1998 08 25	14 52.22	−19 02.4	1.342	1.451	74.6	42.2	14.1	18.6	
1998 09 04	15 20.59	−21 19.5	1.369	1.428	72.0	42.2	14.0	18.6	
1998 09 14	15 51.69	−23 23.7	1.399	1.413	69.8	41.9	14.0	18.6	
1998 09 24	16 25.32	−25 07.6	1.433	1.407	67.9	41.4	14.0	18.6	
1998 10 04	17 01.06	−26 24.2	1.472	1.408	66.3	40.6	14.1	18.7	
1998 10 14	17 38.28	−27 07.8	1.519	1.418	64.8	39.5	14.2	18.7	
1998 10 24	18 16.22	−27 14.9	1.574	1.435	63.3	38.3	14.3	18.8	
1998 11 03	18 54.07	−26 44.8	1.639	1.460	61.8	36.8	14.5	18.9	
1998 11 13	19 31.03	−25 39.8	1.714	1.492	60.1	35.1	14.8	19.0	
1998 11 23	20 06.54	−24 04.5	1.799	1.530	58.2	33.3	15.0	19.1	
1998 12 03	20 40.24	−22 04.6	1.893	1.574	56.1	31.3	15.3	19.2	
1998 12 13	21 11.95	−19 46.4	1.996	1.622	53.8	29.3	15.7	19.3	
1998 12 23	21 41.71	−17 15.7	2.107	1.674	51.1	27.2	16.0	19.5	
1999 01 02	22 09.63	−14 37.4	2.223	1.729	48.1	25.0	16.3	19.6	
1999 01 12	22 35.88	−11 55.8	2.344	1.787	44.9	22.8	16.6	19.7	
1999 01 22	23 00.66	−09 13.8	2.468	1.847	41.3	20.6	17.0	19.8	
1999 02 01	23 24.15	−06 34.1	2.592	1.908	37.6	18.4	17.3	19.9	
1999 02 11	23 46.54	−03 58.3	2.716	1.971	33.6	16.1	17.6	20.0	

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C/1997 O1 (Tilbrook)				Elements MPC 30632					
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 11 08		14 42.67	+16 21.9	2.893	2.132	33.0	14.7	13.6	
1997 11 18		14 54.01	+18 42.2	2.909	2.231	39.1	16.2	13.8	
1997 11 28		15 05.25	+21 19.2	2.907	2.332	45.9	17.7	14.0	
1997 12 08		15 16.32	+24 16.5	2.892	2.433	53.2	18.9	14.2	
1997 12 18		15 27.08	+27 36.9	2.868	2.535	60.6	19.8	14.3	
1997 12 28		15 37.39	+31 22.4	2.840	2.638	68.2	20.2	14.5	
1998 01 07		15 47.03	+35 33.8	2.815	2.740	75.5	20.3	14.6	
1998 01 17		15 55.72	+40 09.4	2.798	2.843	82.5	20.1	14.8	
1998 01 27		16 03.06	+45 05.7	2.795	2.945	88.9	19.5	14.9	
1998 02 06		16 08.50	+50 16.2	2.811	3.047	94.2	18.8	15.1	
1998 02 16		16 11.24	+55 31.9	2.851	3.149	98.3	18.1	15.3	
1998 02 26		16 10.11	+60 42.1	2.915	3.250	100.8	17.4	15.4	
1998 03 08		16 03.32	+65 35.1	3.005	3.351	101.7	16.9	15.6	
1998 03 18		15 48.32	+69 58.2	3.120	3.452	101.0	16.4	15.9	

1998 03 28		15 21.7	+73 37.8	3.257	3.551	98.9	16.1	16.1	
1998 04 02		15 03.0	+75 06.5	3.332	3.601	97.5	16.0	16.2	
1998 04 07		14 40.6	+76 18.5	3.411	3.651	95.8	15.8	16.3	
1998 04 12		14 15.0	+77 12.2	3.494	3.700	93.9	15.7	16.4	
1998 04 17		13 47.1	+77 46.7	3.580	3.749	91.9	15.5	16.5	
1998 04 22		13 18.7	+78 02.2	3.668	3.799	89.7	15.3	16.6	
1998 04 27		12 51.4	+78 00.3	3.758	3.848	87.5	15.1	16.7	
1998 05 02		12 26.8	+77 43.8	3.849	3.897	85.2	14.9	16.8	
1998 05 07		12 05.7	+77 15.7	3.942	3.945	82.9	14.7	16.9	
1998 05 12		11 48.3	+76 39.2	4.034	3.994	80.5	14.4	17.0	
1998 05 17		11 34.4	+75 57.0	4.127	4.042	78.2	14.2	17.1	
1998 05 22		11 23.7	+75 11.3	4.219	4.091	75.9	13.9	17.2	
1998 05 27		11 15.6	+74 23.6	4.309	4.139	73.6	13.6	17.3	

1998 06 06		11 05.8	+72 47.0	4.487	4.235	69.2	12.9	17.5	
1998 06 16		11 02.3	+71 13.5	4.657	4.330	65.2	12.3	17.7	
1998 06 26		11 02.95	+69 46.4	4.816	4.424	61.6	11.7	17.9	
1998 07 06		11 06.60	+68 27.3	4.963	4.519	58.7	11.1	18.0	
1998 07 16		11 12.34	+67 17.0	5.096	4.612	56.4	10.6	18.2	
1998 07 26		11 19.63	+66 16.2	5.215	4.705	54.9	10.2	18.3	
1998 08 05		11 28.07	+65 25.2	5.319	4.797	54.3	9.9	18.4	
1998 08 15		11 37.36	+64 44.4	5.406	4.889	54.6	9.7	18.6	
1998 08 25		11 47.34	+64 14.2	5.478	4.980	55.8	9.7	18.7	
1998 09 04		11 57.84	+63 55.1	5.535	5.071	57.8	9.7	18.8	
1998 09 14		12 08.74	+63 47.5	5.578	5.161	60.7	9.8	18.9	
1998 09 24		12 19.98	+63 52.0	5.608	5.251	64.3	9.9	18.9	
1998 10 04		12 31.46	+64 09.2	5.627	5.340	68.4	10.0	19.0	

OPPOSITION DATA

Planet	Opposition	α_{2000}	δ_{2000}	V	$\dot{\alpha}$	$\dot{\delta}$	ϕ_{MIN}	MPC
1990 WD ₂	97 08 16.0	21 42.54	-21 33.8	17.5	-0.92	- 6.6	2.8/13.7	30687
1989 CX ₂	97 08 16.1	21 42.80	-02 32.8	17.0	-0.80	- 2.0	3.8/19.1	30686
(6973)	97 08 16.1	21 42.92	-13 37.9	16.9	-0.86	- 5.6	0.0/16.2	27096
(6921)	97 08 16.1	21 42.94	-22 20.7	15.2	-0.95	- 6.7	3.9/13.6	26895
1996 GH ₂₀	97 08 16.1	21 42.94	-17 26.8	16.6	-0.86	- 4.9	1.4/15.1	28863
1989 VS ₁	97 08 16.1	21 43.02	-16 25.7	16.6	-0.89	- 6.0	1.0/15.4	30273

(7126)	97 08 16.2	21 43.02	-11 37.2	16.8	-0.81	- 4.3	0.8/16.8	27702
1980 TV ₂	97 08 16.2	21 43.29	-22 57.6	16.5	-1.14	- 2.5	4.4/13.9	24406
1981 EJ ₄₀	97 08 16.3	21 43.64	-43 45.5	17.7	-1.78	+ 5.4	11.4/10.4	22823
4050 T-3	97 08 16.4	21 43.94	-14 50.4	17.5	-0.88	- 6.7	0.4/16.1	19332
1992 ED ₁₃	97 08 16.4	21 43.94	-03 21.8	17.1	-0.81	- 6.8	4.7/19.6	30656
1983 PX	97 08 16.5	21 44.10	+01 01.0	15.7	-0.64	- 7.4	6.6/21.6	30685
1978 RE ₃	97 08 16.6	21 44.55	-12 25.9	17.1	-0.94	- 3.8	0.5/16.9	22967
1996 CN ₇	97 08 16.6	21 44.70	-17 26.7	16.7	-0.96	- 3.7	1.7/15.6	30689
(6969)	97 08 16.7	21 45.10	-12 24.5	15.7	-0.94	- 9.0	0.5/17.1	30433
1993 RK	97 08 17.0	21 46.09	-23 23.9	15.3	-1.14	+ 4.6	5.0/15.3	30661
1979 MY ₅	97 08 17.0	21 46.24	+02 17.6	16.5	-0.91	- 1.2	5.9/21.1	30287
(6953)	97 08 17.1	21 46.46	-12 44.3	15.4	-0.75	- 4.7	0.2/17.3	27091
1981 DS	97 08 17.1	21 46.54	+00 54.1	17.7	-0.66	- 3.1	3.7/21.4	24733
3312 T-3	97 08 17.2	21 47.08	-12 50.2	18.6	-0.83	- 6.2	0.3/17.4	27928
1986 QO ₃	97 08 17.3	21 47.08	-20 30.4	16.0	-0.97	- 5.1	3.3/15.3	28840
(7890)	97 08 17.3	21 47.40	-11 07.3	16.3	-0.87	- 4.8	1.2/18.0	30642
9062 P-L	97 08 17.4	21 47.60	-08 34.0	16.5	-0.87	- 4.2	2.0/18.8	30696
(7185)	97 08 17.4	21 47.81	-18 50.9	15.3	-0.96	- 8.0	2.5/15.8	27901
9076 P-L	97 08 17.5	21 47.97	+05 48.6	15.5	-0.77	- 7.8	7.7/23.9	30696
1993 SB ₁₅	97 08 17.5	21 47.98	-19 51.6	16.5	-0.83	- 9.2	2.3/15.4	30452
1981 EV ₄₅	97 08 17.6	21 48.22	-10 54.6	18.7	-0.83	- 3.3	0.9/18.3	20811
1991 VT ₁	97 08 17.6	21 48.52	-07 53.4	16.1	-1.01	- 4.2	2.4/19.1	30656
1993 TW ₃₃	97 08 17.7	21 48.94	-19 32.1	16.9	-0.84	- 5.7	2.3/15.9	27557
1978 PO ₃	97 08 17.7	21 48.97	-14 52.2	16.1	-0.91	- 4.3	0.7/17.3	30468
1981 EJ ₃₇	97 08 17.8	21 49.38	-14 28.7	19.3	-1.04	- 2.2	0.5/17.6	26922
1997 PF ₄	97 08 17.9	21 49.46	-08 49.9	16.5	-0.95	- 1.4	1.9/19.0	30678
4327 T-3	97 08 17.9	21 49.70	-28 40.8	18.3	-0.98	- 4.1	5.4/13.6	22702
(6966)	97 08 18.0	21 50.05	-13 30.9	17.1	-1.08	- 3.8	0.2/18.0	27094
1994 YC	97 08 18.1	21 50.45	-11 42.4	18.1	-0.89	- 3.3	0.4/18.6	30455
(7829)	97 08 18.2	21 50.60	+19 53.7	16.1	-1.23	+ 2.3	15.3/25.7	30439
1997 QN ₁	97 08 18.4	21 51.20	-02 13.9	15.7	-0.78	- 4.9	5.7/21.7	30679
1989 GH ₄	97 08 18.4	21 51.32	-17 12.4	17.0	-1.04	- 2.7	1.8/17.4	28613
1997 PK ₁	97 08 18.4	21 51.36	-13 24.8	18.2	-0.79	- 6.5	0.1/18.3	30676
1989 AS ₁	97 08 18.4	21 51.44	-18 14.8	16.5	-1.03	- 5.1	2.0/17.0	28315
1990 QC ₆	97 08 18.4	21 51.47	-14 04.0	16.7	-0.98	- 5.4	0.5/18.2	30686
1996 FQ ₄	97 08 18.5	21 51.61	-09 42.6	16.9	-0.94	- 6.6	1.3/19.5	30668
2777 P-L	97 08 18.5	21 51.77	-11 35.1	16.2	-0.89	- 6.6	0.6/19.0	29668
(6889)	97 08 18.6	21 51.92	-23 01.5	15.1	-0.81	- 6.5	5.3/15.4	26887
1979 SU ₂	97 08 18.6	21 51.96	-02 22.7	16.5	-0.91	- 4.4	4.6/21.6	30685
1992 EW ₇	97 08 18.6	21 52.07	-10 32.2	16.0	-0.87	- 4.6	1.1/19.3	30687
1996 FP ₃	97 08 18.6	21 52.11	-16 41.6	19.0	-0.98	- 7.8	1.6/17.5	30689
1993 HH ₁	97 08 18.6	21 52.11	-12 08.0	16.4	-1.00	- 5.0	0.3/18.9	29944
1981 EK ₁₁	97 08 18.6	21 52.23	+04 29.0	16.9	-0.87	- 5.6	7.8/23.8	30685
(7455)	97 08 18.7	21 52.33	-11 39.4	16.7	-0.80	- 5.0	0.4/19.1	29078
1991 XZ	97 08 18.7	21 52.58	-13 29.2	16.7	-1.03	- 3.8	0.2/18.6	30687
(7807)	97 08 18.8	21 52.65	+03 30.7	17.3	-0.69	- 6.0	5.0/24.3	30433
1991 CU	97 08 18.8	21 52.67	-14 30.0	15.6	-0.79	- 9.5	0.6/18.3	30687
1083 T-3	97 08 18.8	21 52.81	-11 45.2	18.6	-0.97	- 2.5	0.4/19.1	25337
1985 QP ₅	97 08 18.8	21 53.11	-28 24.3	16.4	-1.16	+ 1.7	6.5/15.6	30685
1995 BW ₁	97 08 18.9	21 53.15	-16 23.2	18.9	-0.87	- 7.2	1.1/17.8	30689
1981 RF ₇	97 08 19.1	21 54.06	-20 17.5	16.2	-0.95	- 0.2	3.2/17.3	30685

9515 P-L	97 08 19.2	21 54.13	-19 16.5	17.1	-0.92	- 4.6	2.5/17.3	28892	(7013)	97 08 22.2	22 05.40	-12 41.8	16.3	-0.85	- 4.2	0.4/22.0	27294
1993 TU ₃₈	97 08 19.2	21 54.27	-19 20.1	17.4	-0.83	- 5.5	2.2/17.2	29662	1987 DF ₆	97 08 22.3	22 05.84	-12 06.4	16.3	-1.00	- 0.8	0.1/22.3	18286
1993 OG ₁₃	97 08 19.2	21 54.36	-11 30.1	17.2	-0.98	- 4.4	0.5/19.6	30688	1991 OK ₁	97 08 22.4	22 06.11	-05 19.3	16.9	-0.80	- 2.0	1.9/24.2	30687
2116 T-2	97 08 19.3	21 54.93	-13 21.0	18.1	-0.99	- 5.2	0.2/19.2	30474	(7099)	97 08 22.4	22 06.35	-14 39.4	16.9	-0.76	- 4.4	0.9/21.6	27551
1993 US	97 08 19.4	21 55.22	-11 30.2	17.3	-0.82	- 5.3	0.4/19.8	30662	1975 UF	97 08 22.5	22 06.67	-13 43.6	16.5	-0.75	- 4.9	0.7/21.9	30684
1997 QS	97 08 19.6	21 55.65	-16 27.2	18.5	-0.82	- 3.8	1.4/18.5	30678	1993 UL	97 08 22.6	22 06.71	+05 56.7	16.6	-0.67	- 9.4	7.3/29.3	29318
1989 SY ₁₃	97 08 19.6	21 55.65	-02 04.1	18.1	-0.92	- 1.7	3.4/22.3	29134	4668 P-L	97 08 22.7	22 07.09	-23 44.8	17.5	-1.04	- 3.3	4.9/19.3	30696
(7862)	97 08 19.6	21 56.00	-16 19.1	17.6	-0.84	- 4.0	1.3/18.6	30634	1991 RK ₇	97 08 22.7	22 07.09	-06 06.1	16.6	-1.04	- 3.9	2.5/24.2	30687
(6808)	97 08 19.7	21 55.99	-24 43.1	16.2	-1.12	- 2.6	5.1/16.7	26548	2016 P-L	97 08 22.7	22 07.26	-02 39.8	16.4	-0.74	- 6.5	3.5/25.7	28891
1994 YN ₁	97 08 19.7	21 56.18	-19 54.9	16.6	-0.91	- 5.7	3.3/17.5	30689	(7015)	97 08 22.7	22 07.34	-12 55.1	17.8	-0.93	- 7.0	0.5/22.3	27294
1981 EJ ₄₇	97 08 19.7	21 56.25	-08 36.1	19.9	-0.87	- 7.6	1.5/21.0	26923	(7036)	97 08 22.8	22 07.55	+00 06.3	16.6	-0.77	- 3.2	3.3/26.3	27300
1996 JL	97 08 19.7	21 56.26	+01 11.9	16.3	-0.77	- 5.8	5.2/24.1	30690	1992 RB ₃	97 08 22.9	22 08.08	-10 34.3	17.3	-0.79	- 4.3	0.3/23.2	30657
1997 OJ ₁	97 08 19.8	21 56.46	-16 28.0	18.6	-0.80	- 4.9	1.3/18.7	30692	1981 ED ₁₈	97 08 22.9	22 08.15	-08 32.3	17.4	-0.79	- 5.0	1.0/23.9	26918
1994 SB	97 08 20.0	21 57.41	-06 38.8	15.9	-1.06	- 3.1	2.3/21.6	30689	1993 QX ₄	97 08 23.0	22 08.15	-07 03.6	16.0	-0.79	-10.3	1.5/24.5	30688
1252 T-1	97 08 20.1	21 57.82	-03 18.3	17.0	-0.89	- 6.9	3.5/23.0	30682	1992 EZ ₆	97 08 23.0	22 08.24	-19 05.1	16.6	-0.74	-11.4	3.3/20.2	30687
1994 VT	97 08 20.1	21 57.90	-12 55.7	17.8	-0.97	- 4.4	0.2/20.1	28888	1991 NE ₇	97 08 23.0	22 08.27	-03 55.2	17.0	-0.76	- 3.3	2.5/25.3	30687
1991 GX ₇	97 08 20.2	21 57.86	-22 09.2	17.1	-0.97	- 2.0	3.5/17.6	30687	3181 T-2	97 08 23.0	22 08.55	-15 57.4	18.3	-0.81	- 5.0	1.5/21.7	30294
1994 YX ₁	97 08 20.2	21 57.87	-16 09.1	17.3	-0.87	- 3.7	1.3/19.2	30472	1988 EC	97 08 23.1	22 08.95	-21 24.3	15.7	-1.78	+10.9	5.6/22.2	30686
1992 RX ₆	97 08 20.2	21 58.19	-23 07.7	17.1	-0.89	- 1.9	3.5/17.4	29660	(7891)	97 08 23.2	22 09.05	-09 33.4	15.5	-0.94	- 3.8	0.9/23.7	30642
1992 EV ₁₅	97 08 20.3	21 58.21	-11 19.5	17.8	-0.95	- 5.9	0.4/20.6	27729	1985 UY	97 08 23.2	22 09.06	-04 36.1	16.6	-0.65	- 6.0	1.9/25.5	30685
9072 P-L	97 08 20.4	21 58.66	-03 23.2	18.3	-0.79	- 5.3	3.0/23.2	27321	1992 EB ₁₄	97 08 23.2	22 09.11	-10 22.0	17.9	-0.93	- 5.2	0.4/23.6	30657
1996 JU	97 08 20.4	21 58.81	-04 17.6	18.2	-0.87	-12.7	2.6/23.3	30669	1987 SO ₅	97 08 23.2	22 09.18	-17 15.6	16.4	-0.85	- 2.2	1.8/21.6	22698
1996 JJ ₁	97 08 20.4	21 58.89	-05 04.5	17.4	-0.72	- 6.9	2.4/22.9	30690	1990 QX ₁	97 08 23.2	22 09.20	-13 07.5	17.2	-0.99	- 5.4	0.7/22.8	30470
(6857)	97 08 20.6	21 59.51	-05 32.2	15.9	-1.11	- 0.7	3.0/22.2	26730	1996 HJ ₂₀	97 08 23.2	22 09.33	-14 05.0	17.7	-0.83	- 4.8	1.0/22.5	27720
1993 OY ₂	97 08 20.7	22 00.00	-28 57.2	16.9	-1.28	+ 6.3	7.9/18.1	26903	1990 VD ₄	97 08 23.2	22 09.34	-10 04.9	16.5	-0.89	- 6.1	0.6/23.7	30687
1996 DD	97 08 20.8	22 00.06	-16 41.7	16.8	-1.03	- 5.2	1.9/19.6	30689	3777 T-3	97 08 23.3	22 09.60	-13 12.7	17.9	-0.92	- 5.2	0.8/22.8	25337
1981 EW ₁₁	97 08 20.8	22 00.35	-09 43.8	20.3	-0.94	- 5.0	0.9/21.6	26917	1989 SE	97 08 23.3	22 09.62	-22 47.4	16.0	-0.95	+ 1.2	6.0/20.5	30686
1993 HL ₆	97 08 20.9	22 00.80	+00 30.4	16.5	-0.97	- 6.9	5.0/24.9	30688	1993 VL ₃	97 08 23.4	22 09.64	-15 57.9	17.0	-0.80	- 4.9	1.5/22.0	27447
1994 WU ₁	97 08 21.0	22 00.86	-00 12.7	16.8	-0.71	-13.8	5.0/25.7	30689	1991 GB ₁	97 08 23.4	22 10.00	-50 27.4	16.5	-1.85	+ 6.0	18.9/15.5	26757
1993 OA ₇	97 08 21.1	22 01.16	-15 38.2	17.1	-0.93	- 6.2	1.3/20.1	30688	3178 T-3	97 08 23.5	22 10.22	-12 27.8	18.5	-0.80	- 4.4	0.4/23.2	25337
(7274)	97 08 21.1	22 01.53	-29 05.0	17.0	-1.15	- 1.9	6.7/16.9	28283	3111 T-2	97 08 23.6	22 10.65	-01 31.6	18.3	-0.80	- 8.5	3.2/27.0	17978
1996 GM ₂₀	97 08 21.2	22 01.58	-13 25.2	17.5	-0.78	- 4.2	0.4/20.8	28863	1979 QC ₁	97 08 23.8	22 11.11	-09 13.7	15.9	-1.17	+ 2.3	0.9/24.2	30685
1982 TK ₁	97 08 21.2	22 01.83	+03 38.0	16.4	-0.76	- 3.6	5.0/26.0	30650	(6957)	97 08 23.8	22 11.54	-09 25.1	16.6	-0.88	- 5.3	0.6/24.4	27092
(7837)	97 08 21.3	22 02.23	-35 58.9	15.8	-1.01	- 2.4	11.1/13.5	30440	1989 UG ₃	97 08 23.9	22 11.61	-18 58.5	16.6	-0.89	- 5.9	3.0/21.5	30289
1986 QO ₂	97 08 21.3	22 02.23	-13 31.4	15.6	-0.74	- 4.8	0.5/20.9	27324	1996 GR ₂₀	97 08 23.9	22 11.89	-15 42.8	17.6	-0.77	- 4.4	1.4/22.6	28890
1987 UU ₄	97 08 21.3	22 02.26	-23 34.5	17.3	-1.05	- 4.8	4.3/18.1	30686	(7005)	97 08 24.0	22 11.87	-04 59.9	16.8	-0.83	- 8.0	2.5/26.0	27292
1990 EN ₄	97 08 21.4	22 02.29	-14 07.3	18.1	-0.85	- 2.2	0.7/20.8	25440	1997 PR	97 08 24.2	22 12.83	-07 11.2	15.9	-1.05	+ 1.4	1.9/25.1	30676
(7885)	97 08 21.5	22 02.66	-23 49.8	18.0	-0.95	-14.8	4.4/17.2	30640	1996 GE ₂₀	97 08 24.2	22 12.84	-19 08.1	16.8	-0.86	- 4.8	3.0/21.8	27560
(7895)	97 08 21.5	22 02.69	-16 38.0	15.9	-0.70	- 6.4	1.2/20.0	30643	1996 CJ ₁	97 08 24.2	22 12.89	-17 48.5	18.7	-1.02	- 5.3	2.5/22.3	27123
1995 BH ₁	97 08 21.5	22 02.86	-10 54.7	17.2	-0.93	- 3.9	0.5/21.8	30689	1996 HW ₂₀	97 08 24.2	22 12.99	-11 21.5	16.9	-0.72	- 5.0	0.1/24.2	27938
1981 UZ ₉	97 08 21.5	22 03.06	-25 24.0	16.4	-1.16	- 5.1	5.9/17.7	30685	1981 ES ₁₀	97 08 24.3	22 13.06	-05 27.4	19.5	-0.96	- 4.4	2.2/25.9	22270
1981 EC ₁₂	97 08 21.6	22 03.26	-03 30.1	19.9	-0.94	- 4.2	3.1/24.0	30649	1994 XB ₅	97 08 24.4	22 13.32	+02 45.2	20.1	-0.87	- 5.4	4.5/28.6	25084
1986 QJ ₂	97 08 21.6	22 03.34	-16 38.0	16.7	-0.82	- 2.8	1.6/20.4	30685	1981 EG ₂₂	97 08 24.4	22 13.33	-16 52.7	18.7	-1.08	- 1.6	2.2/23.0	26919
1976 YR ₁	97 08 21.6	22 03.38	-21 00.7	17.5	-0.98	- 6.0	3.3/18.9	27725	1981 EU ₂₅	97 08 24.4	22 13.48	-07 22.0	16.6	-0.75	- 8.6	1.7/26.0	26919
(7439)	97 08 21.7	22 03.57	-19 16.3	17.5	-0.89	- 4.9	2.5/19.6	28835	(7029)	97 08 24.4	22 13.54	-07 36.6	15.9	-0.67	- 6.8	1.0/25.6	27298
1981 EQ ₄₃	97 08 21.8	22 03.76	-10 25.2	19.9	-0.93	- 5.6	0.6/22.2	24406	1991 FG	97 08 24.4	22 13.61	+04 15.8	18.8	-0.75	- 5.7	3.9/29.5	27934
(7876)	97 08 21.9	22 04.13	-09 05.0	14.9	-0.83	- 4.5	1.5/22.7	30638	1997 QS ₄	97 08 24.5	22 13.91	-09 16.8	17.2	-0.74	- 4.6	0.6/25.1	30680
1978 QY ₁	97 08 21.9	22 04.27	-08 57.3	16.6	-0.86	- 7.2	1.2/22.8	30684	(6915)	97 08 24.6	22 14.10	-26 40.7	16.4	-0.89	- 6.6	5.4/19.5	26893
2678 P-L	97 08 21.9	22 04.48	-13 43.0	19.5	-0.92	- 5.7	0.7/21.4	27328	(7860)	97 08 24.6	22 14.42	-04 21.0	15.7	-1.06	+ 1.6	3.4/26.1	30634
1265 T-2	97 08 22.0	22 04.64	-09 51.5	18.7	-0.88	- 5.1	0.6/22.6	22695	(6964)	97 08 24.6	22 14.43	-03 27.3	15.6	-0.81	- 7.6	3.4/27.1	27094
1989 TF ₁₄	97 08 22.0	22 04.69	-17 42.0	16.5	-0.89	- 5.0	2.3/20.3	29611	(6939)	97 08 24.6	22 14.47	-33 42.3	17.5	-1.07	- 1.6	8.2/18.4	27088

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(7867)	97 08 24.7	22 14.48	-16 11.2	15.7	-1.03	+	0.9	2.8/23.5	30635
1997 PC ₂	97 08 24.9	22 15.22	-10 16.6	16.4	-0.95	-	4.5	0.2/25.1	30677
2193 T-3	97 08 25.0	22 15.95	-13 50.3	18.1	-0.95	-	4.1	1.1/24.2	24910
1992 CJ ₃	97 08 25.1	22 15.91	-07 50.6	17.4	-0.95	-	7.5	1.2/26.0	27567
1993 GN ₁	97 08 25.1	22 16.20	-03 28.8	18.0	-1.00	-	5.3	2.8/27.3	28887
5137 T-2	97 08 25.2	22 16.28	+09 29.1	19.4	-0.82	-	7.0	6.8/01.3	20833
(7344)	97 08 25.3	22 16.90	-01 58.3	16.9	-0.78	-	9.1	2.8/28.4	28574
1981 EA ₄₃	97 08 25.3	22 16.94	-10 34.0	18.0	-0.97	-	4.5	0.0/25.4	30446
1988 BJ	97 08 25.4	22 17.01	+11 29.8	17.4	-1.57	+	6.0	10.6/29.0	22079
4735 P-L	97 08 25.6	22 17.79	-15 57.8	18.1	-1.04	-	5.4	2.4/24.1	29948
1992 BM	97 08 25.6	22 18.17	-13 55.3	16.8	-1.10	-	2.9	1.4/24.8	28615
1975 SK	97 08 25.7	22 18.13	-14 33.4	16.7	-0.77	-	4.5	1.3/24.5	29652
1992 CD ₁	97 08 25.7	22 18.40	-07 39.6	16.9	-0.92	-	6.2	1.0/26.7	30470
1990 TK ₁₅	97 08 26.0	22 19.17	-12 42.2	15.1	-1.04	-	1.6	1.0/25.4	30687
1981 ED ₁₁	97 08 26.0	22 19.27	-07 52.2	18.6	-1.04	-	0.8	1.2/26.7	22270
1992 SS ₂₆	97 08 26.0	22 19.29	-17 27.2	15.2	-0.91	-	0.5	2.4/24.2	30688
(7880)	97 08 26.0	22 19.35	-06 45.7	16.3	-0.84	-	3.8	1.3/27.1	30638
1992 FV ₁	97 08 26.0	22 19.39	-24 41.3	16.3	-0.97	-	3.6	5.0/22.0	29660
1997 PM ₂	97 08 26.1	22 19.56	-06 42.2	17.6	-0.85	-	3.3	1.3/27.2	30677
1991 EB	97 08 26.1	22 19.98	-05 45.9	16.8	-0.86	-	4.7	1.5/27.6	30687
(7863)	97 08 26.2	22 20.02	-11 24.3	16.1	-0.76	-	4.1	0.4/25.9	30634
1992 EH ₄	97 08 26.3	22 20.60	-13 09.1	17.8	-0.93	-	6.3	1.0/25.5	27935
4302 T-1	97 08 26.4	22 20.76	-19 22.8	18.2	-0.92	-	4.5	3.1/23.7	29668
1990 EZ ₅	97 08 26.4	22 21.02	-10 04.0	17.5	-0.77	-	4.4	0.1/26.6	30686
1994 WM ₁	97 08 26.5	22 21.05	-37 33.0	17.3	-1.07	-	4.3	9.6/17.4	27559
1144 T-3	97 08 26.6	22 21.41	-11 10.2	17.3	-0.86	-	2.0	0.3/26.4	22088
(7018)	97 08 26.6	22 21.57	-14 25.2	16.2	-0.92	-	7.5	1.7/25.3	27295
1987 RN ₆	97 08 26.6	22 21.68	-19 28.5	16.5	-0.79	-	4.9	3.0/23.7	30686
(6925)	97 08 26.6	22 21.79	+08 49.5	16.0	-0.72	-	7.5	6.6/02.7	26895
1981 EG ₁₅	97 08 26.6	22 21.80	-05 51.7	17.6	-0.99	-	5.6	2.1/28.0	30685
1993 TL ₃₂	97 08 26.7	22 21.96	-13 10.1	17.0	-0.83	-	5.7	1.1/25.8	27730
2078 T-3	97 08 26.7	22 22.05	-12 38.0	16.5	-0.97	-	2.7	0.9/26.1	30696
1989 ST ₃	97 08 26.8	22 22.13	-11 44.0	18.9	-0.85	-	6.0	0.5/26.3	30447
1992 CF ₁	97 08 26.8	22 22.28	-15 04.1	16.0	-1.01	-	2.0	2.1/25.6	29135
1996 BS ₈	97 08 26.8	22 22.42	-18 55.7	17.4	-1.01	-	3.2	4.5/24.4	30689
1997 PX ₁	97 08 26.9	22 22.73	-20 13.5	17.4	-0.93	-	6.5	4.4/23.8	30676
1990 TX	97 08 27.1	22 23.49	-20 30.0	15.3	-0.83	-	6.1	5.3/23.6	30687
1989 TX ₂	97 08 27.2	22 23.75	+02 28.9	17.2	-0.77	-	9.2	4.2/31.7	28884
(7100)	97 08 27.4	22 24.39	-08 21.3	17.2	-0.79	-	5.0	0.6/27.9	27552
1991 YY	97 08 27.4	22 24.42	-04 29.4	17.4	-0.97	-	6.7	2.3/29.1	27308
(7864)	97 08 27.5	22 24.70	-20 22.2	16.6	-0.83	-	6.7	3.4/24.0	30635
(7031)	97 08 27.5	22 24.74	-15 06.9	17.0	-1.05	-	3.7	2.0/26.1	27299
1981 XM ₂	97 08 27.5	22 25.01	+08 41.9	16.6	-0.88	-	3.3	6.7/02.2	30685
1977 EA ₆	97 08 27.8	22 26.11	-06 10.8	17.2	-0.97	-	3.6	1.5/28.9	22823
1988 RF ₁₃	97 08 27.9	22 26.36	-37 43.5	17.4	-1.12	+	1.3	11.0/20.5	28613
6065 P-L	97 08 28.0	22 26.64	-11 47.5	16.5	-0.94	-	2.4	0.9/27.5	30696
(7871)	97 08 28.0	22 26.87	-10 18.9	16.0	-0.86	-	8.0	0.3/27.9	30636
(7353)	97 08 28.0	22 26.93	+00 29.2	14.3	-1.10	+	3.6	4.7/30.2	28576
1978 RR ₈	97 08 28.4	22 28.21	-06 49.0	17.9	-0.85	-	8.2	0.9/29.4	30684
(7906)	97 08 28.5	22 28.31	+06 42.8	16.2	-0.72	-	5.2	5.8/03.0	30646
1996 HO	97 08 28.5	22 28.46	-17 05.3	18.3	-0.89	-	8.6	2.9/26.0	30690

1992 BM ₂	97 08 28.5	22 28.57	-03 03.2	16.4	-0.93	-	6.6	2.7/30.6	30687
1993 YD	97 08 28.5	22 28.67	-27 24.9	16.3	-0.75	-	5.8	5.1/22.4	27568
1989 SJ ₂	97 08 28.6	22 28.76	-02 35.9	17.1	-0.72	-	12.1	2.7/31.3	30686
9002 P-L	97 08 28.7	22 29.06	+06 08.2	17.8	-0.79	-	8.3	5.2/03.3	30696
(7874)	97 08 28.7	22 29.27	+24 19.6	17.2	-1.05	+	0.5	10.2/07.7	30637
1993 SS ₄	97 08 28.7	22 29.36	-10 48.0	18.2	-0.91	-	4.3	0.6/28.4	30471
2312 T-1	97 08 28.7	22 29.46	-13 14.9	17.3	-0.82	-	4.3	1.3/27.6	25085
1981 EO ₁₂	97 08 28.9	22 29.82	-00 03.0	20.2	-0.89	-	6.5	3.5/31.9	26917
1992 OV ₆	97 08 28.9	22 30.02	-07 43.7	17.3	-0.79	-	5.0	0.5/29.5	30688
1992 GD ₃	97 08 28.9	22 30.10	+02 18.3	17.6	-0.81	-	7.0	4.4/01.9	30687
1976 YF ₃	97 08 29.0	22 30.27	+10 52.1	17.1	-0.72	-	3.6	5.4/04.7	30648
4258 T-2	97 08 29.0	22 30.55	-12 12.3	18.4	-0.86	-	6.1	1.1/28.2	27323
1987 VR	97 08 29.1	22 30.63	+02 18.7	17.3	-0.71	-	5.6	3.5/02.0	30686
1994 QA	97 08 29.1	22 30.95	-50 19.3	18.2	-1.32	-	2.4	13.8/15.7	25083
1991 XK	97 08 29.2	22 31.05	-00 35.5	17.1	-0.96	-	5.9	3.3/31.9	30687
1991 VP ₂	97 08 29.2	22 31.08	-09 55.8	17.3	-1.01	-	6.0	0.3/29.1	30687
1981 EL ₂₅	97 08 29.2	22 31.09	-03 31.7	19.1	-0.87	-	7.5	2.2/31.1	27565
1996 HY ₁₇	97 08 29.3	22 31.39	-09 55.1	16.8	-0.72	-	5.5	0.2/29.1	30084
1988 RQ ₂	97 08 29.4	22 31.67	-01 09.6	16.5	-0.90	-	2.1	2.6/31.7	29133
1990 XF	97 08 29.4	22 31.80	+03 33.9	16.4	-0.91	-	3.0	3.9/02.2	25080
1982 FJ ₃	97 08 29.4	22 31.98	-10 39.1	17.7	-1.00	-	5.0	0.6/29.1	27553
1989 GQ ₁	97 08 29.4	22 32.01	-04 29.6	16.6	-0.83	-	4.9	2.3/31.0	16235
(7896)	97 08 29.5	22 32.16	-12 02.8	17.3	-0.74	-	4.2	0.8/28.7	30644
1991 CC ₃	97 08 29.6	22 32.42	-06 15.5	17.3	-0.80	-	6.2	1.0/30.6	28885
1979 MK ₆	97 08 29.6	22 32.67	-08 37.5	17.5	-0.81	-	6.0	0.2/29.9	18804
1995 FY ₂	97 08 29.7	22 32.71	-17 54.0	18.4	-0.93	-	2.6	2.9/27.2	30277
1977 RD ₂	97 08 29.7	22 32.78	-14 39.5	15.7	-0.82	-	4.3	2.0/28.0	30684
(7893)	97 08 29.7	22 32.80	-23 03.6	16.2	-0.90	-	7.2	6.4/25.0	30643
1992 EM ₆	97 08 29.7	22 32.90	-15 20.0	19.2	-0.95	-	5.4	2.1/27.9	27308
1990 RH ₂	97 08 29.9	22 33.56	-10 56.9	17.1	-1.05	-	1.6	0.8/29.4	25649
1991 OL ₁	97 08 29.9	22 33.69	-12 20.3	15.8	-0.72	-	5.2	1.2/28.9	30470
1991 DY	97 08 29.9	22 33.70	-03 12.1	17.2	-0.79	-	6.5	1.8/31.9	27455
1986 AA ₂	97 08 30.0	22 33.85	-15 11.2	16.7	-0.82	-	6.3	2.1/28.0	27324
(6943)	97 08 30.2	22 34.63	-01 42.9	16.8	-0.98	-	6.4	2.9/01.5	27089
1978 TU ₈	97 08 30.2	22 34.86	-06 41.0	16.1	-0.78	-	5.0	0.8/31.0	27930
1344 T-2	97 08 30.2	22 34.88	-10 09.9	17.9	-0.78	-	5.3	0.4/29.9	30474
3241 T-3	97 08 30.3	22 34.91	-13 45.2	16.2	-0.92	-	4.3	2.4/28.9	30696
1995 DA	97 08 30.3	22 34.98	-22 55.7	17.1	-0.92	-	3.9	5.0/26.0	29138
1990 SW	97 08 30.3	22 35.16	+03 33.9	15.9	-0.82	-	8.9	5.3/03.8	30686
1992 JC ₁	97 08 30.3	22 35.20	-24 11.6	18.6	-0.98	-	4.9	6.0/25.5	27455
1989 AB ₃	97 08 30.4	22 35.54	-20 48.7	16.1	-0.76	-	6.8	3.7/26.3	29656
1996 DN ₂	97 08 30.6	22 36.08	-15 05.0	17.2	-0.99	-	5.1	2.3/28.8	29630
1996 CY ₇	97 08 30.7	22 36.32	-12 52.1	18.8	-0.95	-	6.1	1.5/29.4	27112
1996 CG ₈	97 08 30.7	22 36.59	-10 10.3	18.4	-0.95	-	7.3	0.5/30.3	30689
1996 BD ₁	97 08 30.8	22 36.76	+16 27.9	15.7	-1.27	+	1.1	9.3/06.5	30689
1978 VH ₁₀	97 08 30.9	22 37.39	-13 43.5	18.2	-0.79	-	5.0	1.7/29.4	30287
(7620)	97 08 30.9	22 37.49	-07 53.6	18.2	-0.93	-	5.1	0.3/31.2	29605
1994 XP ₄	97 08 31.0	22 37.43	-09 18.4	19.1	-0.88	-	4.2	0.2/30.8	24915
1981 EL ₃₆	97 08 31.0	22 37.43	-04 31.3	18.3	-0.92	-	4.8	1.8/01.3	22697
2159 T-2	97 08 31.0	22 37.84	-10 11.5	18.2	-0.88	-	5.2	0.6/30.6	27322
1981 EB ₂₄	97 08 31.3	22 38.63	-12 49.0	18.4	-0.85	-	3.7	1.4/30.0	27726

1993 QR ₄	97 08 31.3	22 38.67	-12 04.7	17.0	-0.91	- 4.2	1.2/30.3	30688
1981 UT ₇	97 08 31.4	22 39.28	-09 36.9	15.4	-0.72	- 5.1	0.4/31.1	30685
4339 T-1	97 08 31.5	22 39.35	-20 26.8	18.3	-1.02	- 3.5	4.9/28.1	30682
1984 YL ₁	97 08 31.6	22 39.85	-19 51.5	17.6	-1.03	- 5.6	4.3/28.1	28084
2127 T-1	97 08 31.7	22 39.95	-11 03.5	16.2	-0.93	- 6.4	1.3/30.9	21122
1993 HS ₁	97 08 31.7	22 40.41	-21 12.7	16.8	-1.11	- 2.7	5.3/28.3	30660
(7732)	97 08 31.8	22 40.46	-07 03.0	16.4	-0.79	- 4.5	0.5/01.3	30253
1995 BZ ₁	97 08 31.8	22 40.65	-17 34.0	17.5	-0.93	- 6.6	3.9/28.9	28087
(6962)	97 08 31.8	22 40.75	+04 48.8	16.5	-0.94	- 2.3	6.4/04.7	27093
1981 EO ₂₂	97 09 01.0	22 41.20	-06 59.9	19.5	-0.93	- 5.4	0.5/01.4	27118
1990 UH ₁	97 09 01.0	22 41.26	-26 48.9	16.1	-0.91	- 8.3	8.3/25.1	27120
1992 SQ ₂₄	97 09 01.0	22 41.38	+02 36.5	17.5	-0.71	- 6.3	3.2/04.9	25428
1990 QB ₉	97 09 01.0	22 41.45	-11 20.2	17.6	-0.79	-10.7	1.4/31.0	23859
1981 DQ ₁	97 09 01.1	22 41.43	+02 14.8	18.6	-0.86	- 3.1	3.4/04.2	26914
1981 DC ₃	97 09 01.1	22 41.43	+01 04.2	19.5	-0.93	- 4.9	3.6/04.0	26914
(6947)	97 09 01.1	22 41.46	-02 38.8	17.7	-0.89	- 6.5	2.1/02.9	29586
(6922)	97 09 01.1	22 41.54	-12 09.9	16.7	-0.93	- 7.6	1.5/30.9	26895
1994 AC ₃	97 09 01.2	22 41.87	-08 56.9	17.7	-0.72	- 4.2	0.2/32.0	23242
(7016)	97 09 01.2	22 42.11	-00 51.0	17.2	-0.95	- 6.1	2.6/03.6	27295
3437 T-3	97 09 01.5	22 43.00	-11 04.2	17.0	-0.91	- 4.0	1.2/31.7	29669
1994 XN ₁	97 09 01.6	22 43.36	-15 30.7	19.3	-0.97	- 4.8	2.7/30.4	27314
4226 P-L	97 09 01.6	22 43.54	-05 13.4	18.9	-0.92	- 5.4	1.0/02.6	16439
1981 EO ₁₈	97 09 01.8	22 44.37	-07 22.0	17.1	-0.96	- 4.5	0.3/02.1	30685
1990 SN ₁₆	97 09 01.9	22 44.69	-15 26.5	16.3	-0.93	- 2.7	3.8/30.8	30687
1981 EF ₃₃	97 09 02.0	22 44.72	+01 15.0	20.7	-0.88	- 7.6	3.4/05.1	26921
1995 DZ ₁	97 09 02.0	22 44.74	-19 52.5	17.0	-0.78	- 4.5	3.9/29.1	30689
1981 EQ ₄₆	97 09 02.0	22 44.75	-07 18.0	17.5	-0.78	- 6.6	0.2/02.2	26923
1993 OG ₉	97 09 02.0	22 45.02	-18 12.5	17.3	-0.90	-10.0	4.0/29.4	24913
1997 LB ₄	97 09 02.1	22 45.16	-06 31.0	16.9	-0.83	- 4.2	0.6/02.6	30673
1975 SB ₁	97 09 02.1	22 45.23	-20 22.8	18.2	-0.81	- 2.9	3.6/29.3	30684
1996 HR ₂₁	97 09 02.2	22 45.75	-07 19.1	17.2	-0.74	- 4.9	0.2/02.5	30669
1990 QA ₁	97 09 02.4	22 46.18	-00 58.1	15.7	-0.86	- 6.1	3.2/05.0	30653
(7865)	97 09 02.4	22 46.52	-05 38.8	15.8	-0.99	- 5.0	0.9/03.1	30635
4611 P-L	97 09 02.5	22 46.73	-19 30.3	17.7	-1.08	- 1.9	4.1/30.4	22086
(7071)	97 09 02.7	22 47.60	-15 56.3	17.5	-0.71	- 6.3	2.2/30.9	29587
1990 UW ₃	97 09 02.8	22 47.61	-10 30.0	18.7	-0.91	- 7.0	1.1/01.9	22431
1992 DL ₄	97 09 03.0	22 48.44	-15 07.2	16.6	-1.06	- 0.9	3.7/01.0	20342
4820 P-L	97 09 03.1	22 48.69	-18 05.0	18.4	-0.84	- 2.6	3.2/30.9	21121
1991 BD ₁	97 09 03.1	22 48.80	-15 08.7	17.3	-0.84	- 6.5	2.5/31.6	29658
1997 PP ₄	97 09 03.1	22 48.92	-08 02.5	16.1	-0.83	- 9.6	0.2/03.0	30678
(6895)	97 09 03.2	22 49.28	-06 04.5	16.5	-0.86	- 4.9	0.5/03.7	26888
(7053)	97 09 03.3	22 49.59	-08 57.6	16.6	-0.93	- 7.4	0.6/02.9	27436
1992 OK ₂	97 09 03.4	22 50.02	+07 25.6	17.0	-1.00	+ 2.5	6.6/07.2	25066
1992 DA ₆	97 09 03.4	22 50.15	-08 30.5	17.4	-0.90	- 6.1	0.4/03.1	27120
1993 FX ₅₂	97 09 03.7	22 50.93	-10 51.8	18.4	-0.96	- 8.1	1.5/02.6	30659
1997 RN ₁	97 09 03.7	22 51.10	-02 38.8	17.2	-0.76	- 2.4	2.4/05.2	30680
1994 BD ₄	97 09 03.7	22 51.20	-07 57.0	17.9	-0.70	- 5.8	0.2/03.6	23343
1981 EW ₂₇	97 09 03.8	22 51.18	-02 43.8	18.0	-0.78	- 7.6	1.6/05.0	26920
1996 DZ	97 09 03.8	22 51.35	-10 51.3	16.5	-0.93	- 5.8	1.3/02.7	29666
1987 SB ₃	97 09 03.8	22 51.53	-19 04.2	16.4	-0.97	- 1.0	6.2/31.6	28883
1997 PQ ₄	97 09 03.9	22 51.61	-09 35.3	16.7	-0.69	-12.2	1.1/03.0	30678

1991 PO ₂	97 09 03.9	22 51.80	-10 39.8	17.8	-0.74	- 4.6	1.0/02.8	30687
1993 RO ₇	97 09 04.0	22 52.23	-10 20.8	17.7	-0.92	- 4.3	1.1/03.1	25216
2311 T-3	97 09 04.2	22 53.02	+03 51.3	18.1	-0.72	- 6.4	3.5/08.2	30683
1994 WD ₄	97 09 04.3	22 53.15	-07 00.7	15.7	-0.93	- 8.2	0.0/04.4	30689
1980 FH ₁	97 09 04.3	22 53.20	-08 40.8	17.4	-0.86	- 2.2	0.5/03.9	25225
1996 DK ₂	97 09 04.4	22 53.63	-11 36.7	17.8	-0.86	- 6.9	1.6/03.0	30668
1976 UR ₁₅	97 09 04.4	22 53.64	-23 48.7	17.5	-0.95	- 3.2	6.1/30.3	30684
1988 PG ₁	97 09 04.4	22 53.74	+05 03.5	16.0	-0.99	+ 1.5	5.3/07.5	30686
1989 TM ₁	97 09 04.5	22 53.84	-19 23.2	16.7	-1.02	- 2.2	4.7/31.9	30448
1994 WM	97 09 04.6	22 54.11	-21 40.4	17.6	-0.93	- 4.3	4.7/31.0	29138
2144 T-2	97 09 04.6	22 54.24	-09 18.9	17.2	-0.94	- 3.3	0.9/04.0	27732
1992 WA ₄	97 09 04.6	22 54.43	-17 46.4	16.3	-0.76	- 4.4	3.6/01.1	28616
1990 SK ₆	97 09 04.6	22 54.47	-17 52.6	17.1	-1.03	- 3.2	4.2/01.6	27119
1996 HR ₂₄	97 09 04.7	22 54.82	-14 37.8	16.5	-0.74	- 4.7	2.7/02.2	30690
1981 EJ ₂₅	97 09 04.8	22 54.81	-05 34.8	20.1	-0.91	- 6.6	0.5/05.2	22697
4224 T-2	97 09 04.8	22 54.89	-09 44.2	19.3	-0.77	- 8.7	1.4/03.8	22414
(7313)	97 09 05.0	22 55.53	-02 22.2	18.2	-0.86	- 5.6	1.6/06.5	28292
2173 T-3	97 09 05.3	22 57.00	+06 17.5	16.6	-0.84	- 8.7	5.8/10.0	28320
1983 VQ ₁	97 09 05.3	22 57.08	-60 09.4	17.5	-1.71	+ 1.0	22.4/21.0	22697
1990 RA ₇	97 09 05.4	22 56.97	-06 16.9	17.0	-0.90	- 9.9	0.2/05.6	27444
2190 T-1	97 09 05.4	22 57.03	-13 28.9	18.0	-0.92	- 4.4	2.4/03.3	22087
(7856)	97 09 05.4	22 57.39	-16 52.6	16.5	-0.75	- 4.8	3.4/02.1	30633
1994 YY ₁	97 09 05.6	22 58.06	-16 37.9	17.0	-0.87	- 5.5	3.0/02.4	24753
(7028)	97 09 05.7	22 58.31	-10 26.0	16.7	-0.78	- 5.6	1.3/04.5	29587
1989 LT	97 09 05.8	22 58.50	-07 31.6	16.7	-0.95	- 5.0	0.4/05.5	30686
1217 T-1	97 09 05.9	22 58.93	-05 53.7	16.4	-0.91	- 4.4	0.2/06.1	28892
1994 UH	97 09 05.9	22 59.13	-09 37.3	16.9	-0.95	- 6.8	1.3/05.0	30689
1987 WT ₁	97 09 05.9	22 59.16	-12 55.4	17.9	-0.71	- 4.7	1.7/03.8	29655
(7800)	97 09 06.0	22 59.12	-05 23.8	15.7	-1.02	- 3.9	0.5/06.3	30270
1994 UO ₁	97 09 06.0	22 59.38	-04 02.1	15.7	-0.88	- 6.6	1.2/06.9	30663
1989 GP ₄	97 09 06.2	22 59.93	+01 10.4	17.2	-0.87	- 8.3	3.0/08.8	30469
6064 P-L	97 09 06.2	23 00.06	+01 44.1	16.7	-0.76	- 7.4	2.5/09.1	27724
1990 SG ₈	97 09 06.2	23 00.07	-12 10.7	16.8	-0.96	- 6.3	2.1/04.4	27454
1981 EX ₃₁	97 09 06.2	23 00.21	-04 10.3	17.0	-0.74	- 7.3	0.8/07.1	26921
1996 EH	97 09 06.3	23 00.39	+07 38.8	16.8	-0.92	- 6.3	5.2/11.1	27123
1995 DQ ₂	97 09 06.3	23 00.46	-31 11.9	20.4	-1.24	+ 1.0	7.1/30.8	30292
1982 DC ₂	97 09 06.6	23 01.62	-06 12.4	18.6	-0.92	- 7.7	0.0/06.7	30685
1992 EA ₄	97 09 06.7	23 01.66	-09 56.1	18.3	-0.90	- 6.4	1.3/05.5	27913
1995 CR ₁	97 09 06.8	23 02.07	+16 08.7	18.8	-0.87	- 9.9	7.5/15.0	25431
6299 P-L	97 09 06.8	23 02.13	+04 12.3	18.8	-0.74	- 7.8	3.1/10.5	22087
1989 SX	97 09 06.8	23 02.21	-17 14.0	15.6	-0.93	- 1.1	5.5/03.6	30686
(7050)	97 09 06.9	23 02.79	-14 50.0	16.4	-0.92	- 2.4	3.2/04.5	29076
3300 T-1	97 09 07.0	23 02.76	-04 26.5	15.9	-0.93	- 3.3	0.9/07.5	22701
1984 YY ₁	97 09 07.0	23 02.79	-08 54.2	17.1	-0.98	- 4.2	1.3/06.2	22698
1975 LY	97 09 07.0	23 03.00	+11 10.8	16.9	-0.97	- 1.6	5.9/12.1	30647
1992 DC ₁₁	97 09 07.1	23 03.16	-07 18.1	18.3	-0.93	- 7.3	0.5/06.7	30471
1981 EE ₃₄	97 09 07.2	23 03.47	-04 16.7	21.0	-0.93	- 5.2	0.6/07.8	26921
2026 T-2	97 09 07.3	23 03.98	+00 54.9	18.5	-0.89	- 8.1	2.7/09.7	27927
1976 GD ₂	97 09 07.4	23 04.25	+03 19.6	16.4	-0.90	- 9.2	3.5/10.7	30684
1992 JQ	97 09 07.4	23 04.39	+00 50.3	17.0	-0.78	- 9.7	2.3/10.0	29660
(6978)	97 09 07.5	23 04.63	-04 25.2	15.6	-0.99	- 1.9	0.6/07.9	27097

1997 SEPT.16

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1989 GP 97 09 07.8 23 05.84 -08 01.4 16.9 -0.90 - 7.1 0.9/07.1 30652
 1996 GA₁₈ 97 09 07.8 23 05.87 +01 48.2 18.3 -0.82 - 7.2 2.5/10.5 29140
 1980 SM 97 09 07.8 23 06.00 -04 06.3 15.5 -0.99 + 0.5 0.8/08.3 30685
 1989 GF₁ 97 09 07.9 23 05.97 -04 55.8 17.3 -1.01 - 4.6 0.3/08.2 30686
 1993 HW₁ 97 09 07.9 23 06.10 -30 23.1 15.8 -1.06 - 3.2 10.4/31.4 29662
 1069 T-2 97 09 07.9 23 06.23 -01 30.6 19.5 -0.90 - 7.1 1.9/09.4 30682
 1997 RA₇ 97 09 08.0 23 06.45 -00 54.4 16.6 -0.97 - 6.6 2.1/09.6 30681
 1993 RV₇ 97 09 08.0 23 06.67 -08 08.2 17.3 -0.94 - 2.7 1.0/07.4 30661
 1993 OB₁₀ 97 09 08.1 23 06.85 +02 51.3 17.5 -0.91 - 3.0 4.0/10.7 30661
 1990 VT₁ 97 09 08.2 23 07.28 -03 13.5 15.6 -0.83 - 6.5 1.1/09.1 28614
 7639 P-L 97 09 08.2 23 07.48 -12 19.9 19.2 -0.85 - 5.5 2.0/06.1 27457
 (7887) 97 09 08.3 23 07.48 +15 28.0 15.3 -0.98 - 0.7 8.2/14.4 30640
 (7207) 97 09 08.3 23 07.56 -10 42.0 17.6 -1.08 - 0.9 1.9/07.0 27906
 1991 NE₁ 97 09 08.3 23 07.77 +03 53.9 16.3 -0.78 - 2.8 2.9/11.4 30687
 1996 HM₁₁ 97 09 08.4 23 07.99 -02 41.0 17.4 -0.80 - 6.8 1.1/09.4 30690
 1987 SK₁₂ 97 09 08.4 23 08.16 -08 22.9 17.4 -0.98 - 6.1 1.1/07.6 30686
 1990 OV 97 09 08.5 23 08.20 +03 12.2 16.6 -0.85 - 9.1 3.8/11.7 26925
 1980 PB₂ 97 09 08.5 23 08.39 +01 10.9 16.0 -0.67 - 7.6 2.1/11.0 30685
 4100 P-L 97 09 08.6 23 08.75 -08 17.1 18.0 -1.02 - 1.5 1.0/07.9 25341
 1994 TD₂ 97 09 08.6 23 08.80 -17 45.5 15.2 -0.89 - 3.0 6.5/04.9 30689
 1988 VB 97 09 08.7 23 08.89 -21 05.0 15.7 -0.90 - 1.9 6.6/03.8 30686
 4658 P-L 97 09 08.7 23 08.97 -10 53.3 16.6 -0.84 - 3.4 2.2/07.1 28620
 1996 DC 97 09 08.7 23 08.98 -11 49.2 16.6 -0.91 - 8.4 2.5/06.6 30668
 (7900) 97 09 08.7 23 08.99 -12 47.0 16.1 -1.01 - 4.1 3.2/06.6 30645
 1996 GF₂₀ 97 09 08.8 23 09.29 -01 32.2 20.2 -0.93 - 6.9 1.4/10.1 30668
 1997 QY₁ 97 09 08.8 23 09.31 -11 41.9 15.9 -0.90 - 4.2 2.9/06.9 30679
 1981 EP₃₁ 97 09 08.8 23 09.50 -10 07.4 17.6 -0.91 - 2.4 2.3/07.5 26921
 1992 RD₁ 97 09 08.9 23 09.83 -11 28.9 16.7 -0.95 - 0.2 2.2/07.3 30657
 1990 TV₁₃ 97 09 08.9 23 10.00 -17 36.1 15.6 -1.05 - 1.0 5.6/05.6 30687
 1981 EU₁₆ 97 09 09.0 23 10.03 -02 19.1 20.0 -1.00 - 4.3 1.1/09.9 26918
 1995 DG₁ 97 09 09.0 23 10.13 -00 27.4 19.3 -0.79 - 5.9 1.5/10.7 30664
 1997 RJ₁ 97 09 09.1 23 10.33 -11 51.4 17.5 -0.70 - 6.3 2.2/06.8 30680
 (7054) 97 09 09.1 23 10.44 -18 33.1 16.9 -1.04 - 4.8 5.5/05.0 27437
 1996 HF₁₁ 97 09 09.2 23 10.91 -09 35.5 18.3 -0.79 - 4.8 1.4/07.8 27569
 1997 QZ₂ 97 09 09.2 23 11.08 -01 58.7 17.4 -0.98 - 4.5 1.2/10.3 30679
 1182 T-3 97 09 09.3 23 11.05 -01 11.7 18.1 -0.84 - 2.6 1.3/10.5 22702
 1991 GZ₁ 97 09 09.3 23 11.16 -50 44.1 17.4 -1.76 + 3.9 19.9/26.5 27120
 1995 DK 97 09 09.3 23 11.30 -06 36.5 17.3 -0.73 - 7.2 0.4/08.9 30689
 1996 HX 97 09 09.5 23 12.06 -08 20.1 17.6 -0.84 - 2.3 1.2/08.6 30690
 1993 NB 97 09 09.6 23 12.48 -23 17.2 15.3 -0.60 -13.2 8.2/01.7 30660
 2620 P-L 97 09 09.7 23 12.54 -06 58.2 17.7 -0.87 - 5.0 0.6/09.1 27938
 1989 CB₈ 97 09 09.8 23 13.15 -05 01.7 16.8 -0.99 - 5.2 9.7/30.0 30652
 1995 DE₂ 97 09 09.9 23 13.23 -02 20.8 16.5 -0.88 - 3.9 1.0/10.7 30689
 1988 XK 97 09 10.1 23 14.15 +04 57.3 17.9 -0.75 - 5.2 2.7/13.5 22272
 1981 EE₄₈ 97 09 10.1 23 14.25 +00 36.7 21.0 -0.73 - 7.6 1.6/12.2 26923
 1981 EZ₂₁ 97 09 10.2 23 14.37 -03 21.7 18.2 -0.78 - 5.4 0.5/10.7 26919
 1986 PW₄ 97 09 10.2 23 14.56 -04 04.7 15.8 -0.74 - 5.2 0.3/10.5 30685
 1981 EU₂₄ 97 09 10.3 23 14.76 -03 02.5 17.2 -0.84 - 3.9 0.7/10.9 30649
 (7194) 97 09 10.3 23 14.81 +06 19.7 14.8 -0.59 -15.2 4.7/15.2 27903
 1995 FV₁₄ 97 09 10.3 23 15.02 -15 06.5 17.5 -0.77 - 3.2 2.7/07.1 25539
 1981 EY₄₂ 97 09 10.4 23 15.32 -04 00.9 20.1 -0.91 - 6.0 0.3/10.7 21968

1996 JK₁₆ 97 09 10.4 23 15.34 -10 37.1 16.5 -0.76 - 8.4 2.1/08.4 27562
 (7019) 97 09 10.4 23 15.37 -22 32.3 16.9 -0.94 - 6.9 6.1/04.3 27295
 1992 SJ₂ 97 09 10.5 23 15.32 -04 41.1 16.6 -0.70 - 7.6 0.0/10.5 25427
 1983 WJ 97 09 10.5 23 15.42 -09 57.3 16.3 -0.79 - 5.3 1.7/08.8 30685
 1993 KQ 97 09 10.5 23 15.45 -20 34.2 16.8 -0.99 - 6.3 5.9/05.4 30688
 1997 QB₄ 97 09 10.5 23 15.46 -08 16.2 17.2 -1.17 + 3.1 1.5/09.8 30679
 (7872) 97 09 10.5 23 15.57 -00 11.3 15.1 -0.65 -12.1 2.2/12.4 30637
 1996 HJ₁₅ 97 09 10.6 23 15.76 -05 42.2 17.6 -0.87 - 5.9 0.3/10.3 27731
 (7811) 97 09 10.6 23 15.93 -19 52.9 16.8 -0.80 - 7.5 4.7/05.2 30434
 (7907) 97 09 10.7 23 16.39 -04 10.4 17.3 -0.83 - 4.4 0.2/10.9 30646
 1174 T-1 97 09 10.7 23 16.44 -04 08.5 17.7 -0.72 - 4.5 0.2/11.0 30696
 1981 ED₃₀ 97 09 10.8 23 16.55 +09 47.5 19.2 -0.67 - 3.8 3.7/15.8 26920
 1981 EQ₄₁ 97 09 10.9 23 16.80 -03 06.4 19.2 -0.86 - 3.3 0.6/11.4 26922
 4865 P-L 97 09 10.9 23 16.85 -07 51.6 17.0 -1.03 - 5.5 1.4/09.9 23993
 1995 EF 97 09 10.9 23 16.96 -12 58.0 18.1 -0.77 - 6.3 2.4/08.1 30664
 1995 AO₁ 97 09 11.1 23 17.68 +05 16.8 19.5 -0.76 - 6.2 2.6/14.6 27731
 1990 QK₃ 97 09 11.1 23 17.77 -08 17.0 16.5 -0.82 - 9.7 1.6/09.8 30686
 1992 FK₁ 97 09 11.1 23 17.84 +32 08.3 18.8 -1.09 - 2.1 11.8/23.5 21580
 1989 GR₄ 97 09 11.1 23 17.87 -02 14.5 17.9 -0.92 - 7.7 0.9/12.0 30686
 1169 T-2 97 09 11.2 23 18.19 -03 55.1 18.4 -0.79 - 4.5 0.2/11.5 22701
 1996 GR₁₇ 97 09 11.2 23 18.22 -13 19.4 16.1 -0.99 - 2.2 4.0/08.7 28862
 1992 WC₂ 97 09 11.4 23 18.81 -05 04.2 16.5 -0.75 - 4.8 0.2/11.2 30688
 (7440) 97 09 11.4 23 18.95 -10 40.9 17.7 -0.81 - 8.9 2.1/09.2 28836
 1981 GO₁ 97 09 11.5 23 19.08 -06 11.6 18.5 -0.94 - 5.1 0.6/11.0 30685
 (7614) 97 09 11.5 23 19.12 -10 52.3 16.4 -0.94 - 5.6 2.5/09.5 29604
 1958 TL₁ 97 09 11.6 23 19.31 +12 05.9 15.5 -0.61 -10.3 5.6/18.4 30684
 1981 EF₇ 97 09 11.7 23 19.68 +05 46.6 18.5 -0.90 - 6.2 3.9/15.0 26916
 1993 RC₂ 97 09 11.8 23 20.32 -12 36.6 15.9 -1.19 + 3.0 4.0/10.0 30688
 1994 YL₁ 97 09 11.8 23 20.41 -09 17.6 16.2 -0.94 - 5.2 2.2/10.3 30663
 1997 QG₄ 97 09 12.0 23 20.88 -11 10.2 16.9 -0.71 - 8.3 2.2/09.5 30680
 1990 KX 97 09 12.1 23 21.12 -14 19.2 15.7 -0.95 - 6.8 4.5/08.8 26925
 (6946) 97 09 12.1 23 21.17 -08 18.5 15.6 -0.84 - 8.7 1.9/10.7 27090
 1990 TY₇ 97 09 12.1 23 21.30 -07 23.1 18.4 -0.94 - 5.0 1.1/11.1 24564
 (7119) 97 09 12.1 23 21.39 +20 52.0 16.6 -0.55 - 1.8 4.7/21.3 27700
 (7553) 97 09 12.2 23 21.45 -09 46.6 18.0 -0.92 - 5.6 1.9/10.4 29590
 3252 T-1 97 09 12.2 23 21.65 +00 51.2 17.7 -0.91 - 6.0 2.1/13.9 22701
 3813 T-3 97 09 12.3 23 21.87 -06 04.8 18.6 -0.86 - 4.4 0.9/11.7 24238
 1981 EZ₉ 97 09 12.3 23 22.02 +05 42.6 17.8 -0.68 -10.7 3.4/16.2 26916
 (7883) 97 09 12.4 23 22.37 -16 35.7 16.4 -1.00 - 4.6 5.5/08.6 30639
 (7032) 97 09 12.4 23 22.58 +02 11.2 16.0 -0.94 - 6.2 2.5/14.5 27299
 1994 UY₁ 97 09 12.5 23 22.88 +00 09.9 16.7 -0.94 - 7.7 1.8/14.0 27731
 1990 QW 97 09 12.6 23 23.16 -03 23.3 15.4 -1.06 - 0.1 0.3/12.8 30686
 (7882) 97 09 12.6 23 23.18 -07 54.1 16.7 -0.99 - 6.6 1.7/11.4 30639
 1993 TS₃₆ 97 09 12.6 23 23.22 -30 10.7 16.8 -1.02 - 3.6 10.0/03.3 30452
 1994 VD₁ 97 09 12.7 23 23.23 -18 18.0 17.5 -1.01 - 5.0 5.6/08.1 30689
 1989 SS₁ 97 09 12.8 23 23.89 -12 02.0 17.1 -0.80 - 3.2 4.0/10.3 30289
 1990 DA₃ 97 09 12.9 23 23.99 -08 05.9 17.2 -0.78 - 5.6 1.4/11.5 30686
 1997 QE₂ 97 09 12.9 23 24.00 -09 43.5 16.6 -0.86 - 3.7 2.1/11.1 30679
 1993 FW₁₁ 97 09 12.9 23 24.07 -10 19.0 16.0 -0.79 - 8.0 3.2/10.7 30659
 1989 SN₄ 97 09 12.9 23 24.37 -05 24.2 17.2 -0.82 - 6.6 0.5/12.5 30686
 (7859) 97 09 13.0 23 24.45 -06 00.4 16.3 -0.86 - 3.8 0.8/12.4 30633

1982 SV	97 09 13.0	23 24.61	+10 22.3	16.5	-0.74	-19.1	6.0/19.1	8393
3230 T-2	97 09 13.0	23 24.64	-08 54.2	18.5	-0.70	- 4.8	1.4/11.3	25337
1981 DH ₂	97 09 13.0	23 24.68	+13 13.9	18.8	-0.77	- 7.0	5.7/19.3	26914
(7870)	97 09 13.1	23 24.82	+04 35.9	14.2	-0.77	- 5.5	4.5/16.0	30636
6071 P-L	97 09 13.2	23 25.05	+02 18.5	17.7	-0.75	- 7.2	1.8/15.4	30696
1996 EK ₁	97 09 13.2	23 25.29	-00 55.7	17.4	-0.94	- 7.1	1.1/14.2	27328
1996 JK ₁	97 09 13.2	23 25.40	+13 45.5	17.5	-0.80	- 8.0	6.1/19.8	30690
1981 EM ₃₁	97 09 13.3	23 25.56	-04 04.3	18.2	-0.87	- 6.4	0.1/13.2	22074
1997 PC ₁	97 09 13.3	23 25.64	-06 11.6	17.6	-0.76	- 4.6	0.8/12.5	30676
1995 EY ₇	97 09 13.4	23 26.12	+03 56.6	16.9	-0.75	- 7.0	2.4/16.2	30665
1989 WS	97 09 13.5	23 26.18	+12 05.9	15.6	-0.78	- 6.5	6.6/19.1	23246
1997 PR ₃	97 09 13.5	23 26.26	-06 13.2	18.2	-0.94	- 6.2	1.0/12.7	30677
1996 HT	97 09 13.6	23 26.48	+02 33.1	16.8	-0.90	- 5.0	2.2/15.6	28890
1996 GV ₂₀	97 09 13.7	23 27.12	-04 12.5	18.6	-0.96	- 6.2	0.2/13.6	28319
(7004)	97 09 13.8	23 27.58	+03 44.6	15.6	-0.79	- 8.2	3.4/16.5	27292
1986 RJ ₄	97 09 13.9	23 27.87	+19 54.5	16.0	-1.69	+13.6	12.0/16.1	30685
1993 OQ ₄	97 09 14.0	23 28.17	-05 38.2	18.4	-0.92	- 6.9	0.8/13.3	27106
1977 DT ₂	97 09 14.1	23 28.24	-05 43.7	17.0	-0.82	- 5.0	0.8/13.3	30684
1990 UN ₁	97 09 14.1	23 28.38	-03 58.8	15.7	-0.87	- 8.9	0.2/13.9	24739
1992 EP ₆	97 09 14.3	23 29.04	-13 55.8	17.6	-0.95	- 5.5	4.0/10.9	27567
1995 DO ₂	97 09 14.3	23 29.06	-08 00.3	17.7	-0.80	- 5.7	1.4/12.7	30689
(7484)	97 09 14.3	23 29.13	-13 34.3	17.8	-0.88	- 7.1	3.8/10.8	29086
1982 FA	97 09 14.3	23 29.16	-06 11.9	17.8	-0.96	- 6.1	1.0/13.4	28883
1995 AK	97 09 14.4	23 29.35	-11 36.1	18.0	-0.89	- 5.1	2.9/11.7	25071
1990 TW ₇	97 09 14.4	23 29.37	-12 28.6	17.7	-1.03	- 3.6	4.1/11.6	30687
2198 T-1	97 09 14.4	23 29.44	-07 42.2	18.7	-0.72	- 4.6	1.2/12.9	23867
1982 UK ₇	97 09 14.4	23 29.60	-13 53.3	15.0	-0.77	- 5.6	5.2/10.7	20812
1992 DF ₁₀	97 09 14.5	23 30.09	+04 02.1	15.8	-0.82	- 8.2	3.3/17.2	30656
1995 DW	97 09 14.6	23 30.27	-08 17.0	17.1	-0.78	- 5.0	1.7/13.0	24909
1993 RR	97 09 14.7	23 30.73	-07 08.2	17.2	-1.00	+ 1.2	2.1/13.7	23135
1989 SG ₁	97 09 14.8	23 30.93	-04 21.3	17.7	-0.80	- 7.8	0.4/14.4	30469
1993 VX	97 09 15.0	23 31.56	-16 31.7	16.1	-0.83	- 5.5	4.6/10.4	30688
1992 ER ₁₁	97 09 15.0	23 31.82	-06 31.3	16.3	-0.87	- 7.3	1.2/13.9	29916
1992 EC ₁₈	97 09 15.0	23 31.89	+01 52.0	17.7	-0.88	- 7.1	2.1/16.8	29135
1981 EF ₂₂	97 09 15.1	23 31.88	-01 21.0	19.8	-0.92	- 6.9	0.6/15.7	26919
(7881)	97 09 15.1	23 32.06	-06 08.2	16.4	-0.75	- 5.8	1.1/14.1	30639
1993 SS ₁	97 09 15.2	23 32.22	-06 06.6	16.5	-0.83	- 7.2	1.2/14.1	25331
1985 RQ	97 09 15.3	23 32.71	-10 16.8	16.1	-0.86	+ 2.0	4.0/13.4	30685
1994 WE ₁	97 09 15.4	23 33.28	-15 42.0	17.3	-0.97	- 4.7	4.7/11.4	28087
1992 DB ₉	97 09 15.7	23 34.42	-07 44.0	15.8	-1.02	- 1.7	2.1/14.4	27326
1990 SX ₁₀	97 09 15.8	23 34.34	+05 29.8	15.8	-0.99	- 3.3	3.6/18.3	30470
1977 EZ	97 09 15.9	23 35.08	+07 22.7	15.8	-1.07	- 1.6	3.8/18.8	27930
1990 WS ₂	97 09 16.0	23 35.27	-04 43.1	16.3	-0.89	- 7.3	0.8/15.4	29658
1978 SV ₇	97 09 16.0	23 35.35	-00 29.6	16.3	-0.87	- 2.7	0.8/16.7	30684
1981 EY ₄₁	97 09 16.1	23 35.51	-01 44.8	20.8	-0.91	- 6.5	0.3/16.4	26922
1996 HW ₈	97 09 16.1	23 35.57	+05 48.1	16.4	-0.75	- 8.5	3.2/19.3	28863
1995 BP ₂	97 09 16.1	23 35.58	+05 43.2	18.8	-0.87	-13.4	2.9/19.3	25431
1995 BS ₃	97 09 16.1	23 35.84	-03 14.2	16.3	-0.81	- 6.2	0.2/16.0	30664
3459 T-3	97 09 16.2	23 35.95	-00 37.2	17.8	-0.86	- 7.1	1.0/16.9	30683
(6981)	97 09 16.2	23 36.11	-15 32.4	16.5	-1.04	- 0.1	4.9/12.9	27097
1993 FB ₂₆	97 09 16.4	23 36.80	-00 35.6	16.8	-1.02	- 5.7	0.8/17.1	26743

1980 FO ₁	97 09 16.4	23 36.88	-01 08.6	16.1	-0.79	- 4.7	0.5/16.9	27930
1991 PW ₉	97 09 16.5	23 36.95	-07 59.8	17.0	-0.67	- 7.4	1.7/14.5	29659
1989 UW ₅	97 09 16.6	23 37.58	-11 03.7	16.9	-0.90	- 4.5	3.7/13.9	30289
1996 GR	97 09 16.6	23 37.63	-06 59.0	18.4	-0.94	- 6.2	1.6/15.2	28618
1981 EP ₁₀	97 09 16.7	23 37.58	+05 10.2	19.6	-0.97	- 4.3	2.9/19.1	22696
1981 EU ₃₄	97 09 16.7	23 37.61	-04 17.7	19.8	-0.92	- 6.2	0.7/16.1	26921
1990 QC ₃	97 09 17.0	23 38.66	-03 49.8	16.4	-0.80	- 8.4	0.7/16.5	30470
1981 QG	97 09 17.0	23 38.70	-02 09.1	15.9	-0.76	- 4.3	0.1/17.1	28294
1986 RX ₂	97 09 17.0	23 38.76	-01 46.5	16.0	-0.75	- 4.0	0.2/17.2	30685
(7866)	97 09 17.2	23 39.49	-10 01.7	15.1	-0.83	- 4.4	3.7/14.7	30635
1989 CL ₁	97 09 17.2	23 39.69	-05 21.9	18.1	-0.72	- 4.6	0.8/16.2	30686
1993 TO ₂₄	97 09 17.3	23 39.86	-06 59.6	18.1	-0.82	- 5.5	1.5/15.7	25083
1993 FW ₂₄	97 09 17.3	23 39.96	+00 21.0	16.4	-0.93	- 5.7	1.2/18.2	30688
(7850)	97 09 17.3	23 39.97	-03 15.0	17.9	-1.00	- 3.2	0.4/17.0	30444
(7421)	97 09 17.3	23 40.00	+03 49.5	16.8	-0.77	-11.7	2.0/20.0	28831
1981 EB ₅	97 09 17.5	23 40.47	+07 36.1	19.2	-0.85	- 3.6	3.0/20.6	26915
1996 LX ₂	97 09 17.5	23 40.81	-02 02.2	18.9	-0.85	- 8.5	0.0/17.6	27563
1992 TW	97 09 17.6	23 40.79	+02 04.9	17.4	-0.68	- 8.9	1.4/19.2	27446
1996 FJ ₁₈	97 09 17.6	23 40.81	-06 48.7	16.3	-0.85	- 3.5	1.6/16.1	29114
2218 T-3	97 09 17.6	23 41.06	-03 35.5	16.9	-1.08	- 2.7	0.7/17.2	23867
1994 TM ₂	97 09 17.7	23 41.52	-07 26.9	16.2	-0.96	- 7.4	2.3/16.0	29921
1986 WM ₅	97 09 17.8	23 41.56	+16 41.9	15.5	-0.84	- 3.0	6.1/24.2	30685
1983 RW ₃	97 09 17.8	23 41.82	-00 30.3	16.5	-1.25	+ 4.0	0.7/18.2	27119
1994 YQ ₁	97 09 17.8	23 41.90	-16 18.4	15.8	-0.89	- 4.9	6.3/13.1	27917
1981 EN	97 09 18.0	23 42.33	-04 53.9	18.0	-0.86	- 8.9	1.0/17.0	30468
1989 SJ ₁	97 09 18.1	23 42.82	-09 55.8	17.3	-0.81	- 4.1	3.8/15.5	30289
1990 VK ₅	97 09 18.1	23 42.96	-11 03.0	16.7	-0.84	- 8.1	3.7/14.9	30687
1995 GO ₇	97 09 18.2	23 43.00	-04 03.9	16.9	-0.72	- 4.4	0.6/17.5	30665
1981 EK ₂₉	97 09 18.3	23 43.36	+04 32.2	19.3	-0.76	- 6.5	2.1/20.5	26920
1978 TR ₂	97 09 18.3	23 43.56	-00 07.5	16.2	-0.79	- 5.0	0.6/18.9	30648
1994 AJ ₁	97 09 18.4	23 43.79	+13 15.8	17.0	-0.81	- 3.5	4.9/23.4	23791
1981 EL ₂₉	97 09 18.4	23 44.06	+01 33.1	19.8	-0.86	- 8.3	1.2/19.6	26920
(7576)	97 09 18.6	23 44.50	-07 37.6	16.7	-0.75	- 7.6	1.8/16.5	29595
1987 VD	97 09 18.6	23 44.63	+11 47.4	14.9	-0.76	- 3.6	7.3/23.3	30686
1992 GB ₁	97 09 18.7	23 44.91	-33 24.0	18.5	-1.19	+ 0.1	9.9/09.5	29135
6519 P-L	97 09 18.8	23 45.14	-04 37.6	17.6	-0.77	- 4.2	0.8/17.8	22274
(7585)	97 09 18.8	23 45.45	-16 22.4	16.1	-0.69	- 7.1	4.6/13.4	29597
1981 ET ₁₉	97 09 18.9	23 45.62	-03 48.9	19.4	-0.91	- 6.5	0.8/18.2	21967
1983 WN	97 09 19.0	23 45.88	+20 39.1	15.9	-0.67	- 5.9	11.2/28.0	30685
1989 SV ₅	97 09 19.1	23 46.42	-11 56.5	18.8	-0.90	- 5.1	3.5/15.7	30289
1991 PO ₄	97 09 19.2	23 46.53	-02 45.7	15.7	-0.71	- 5.5	0.5/18.8	30655
1995 AV ₂	97 09 19.4	23 47.36	-07 36.7	17.6	-0.92	- 5.1	2.1/17.4	24915
1994 WH ₂	97 09 19.4	23 47.54	-04 38.2	16.5	-0.89	- 8.6	1.3/18.3	30689
1990 ON ₂	97 09 19.5	23 47.75	-01 59.2	15.7	-1.00	- 4.4	0.3/19.3	26925
1989 UJ ₃	97 09 19.7	23 48.36	-02 41.6	16.0	-1.11	+ 0.6	0.6/19.4	30470
1988 FB	97 09 19.7	23 48.44	-04 42.4	16.4	-0.94	- 5.4	1.2/18.6	29941
1977 RZ ₈	97 09 19.7	23 48.45	+06 41.0	16.5	-0.95	- 1.3	2.6/22.0	30684
(7546)	97 09 19.7	23 48.68	-03 43.1	18.4	-0.89	- 8.3	1.0/18.9	29588
1996 GZ ₂	97 09 19.8	23 48.76	-02 39.3	18.5	-0.95	- 5.2	0.5/19.4	28595
1402 T-2	97 09 19.8	23 48.91	+00 24.4	18.2	-0.89	- 4.1	0.7/20.4	28892
1991 BV ₁	97 09 20.0	23 49.61	-05 57.0	17.3	-0.79	- 7.0	1.4/18.4	30687

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1981 EG ₂₉	97 09 20.0	23 49.66	+01 06.2	18.7	-0.77	- 8.1	0.7/20.9	26920
1993 TY ₃₈	97 09 20.0	23 49.71	-04 40.6	17.5	-0.78	- 8.8	1.3/18.8	23784
1992 HY	97 09 20.2	23 50.11	-00 49.2	17.5	-0.89	- 6.0	0.1/20.3	30687
1994 VO ₁	97 09 20.2	23 50.35	+01 36.0	16.1	-0.93	- 6.5	1.2/21.1	27313
(7360)	97 09 20.2	23 50.55	+06 13.2	15.8	-1.01	- 4.8	2.7/22.5	28578
1986 PN ₄	97 09 20.3	23 50.55	+20 45.0	15.2	-0.93	- 0.7	7.8/27.3	30651
1990 DZ	97 09 20.4	23 50.86	+04 21.5	17.8	-0.81	- 3.2	1.5/22.1	25440
1993 XM	97 09 20.5	23 51.57	-23 49.1	16.7	-0.75	- 5.2	5.9/12.1	25442
1981 EN ₉	97 09 20.6	23 51.65	+03 18.2	20.0	-0.99	- 4.0	1.4/21.9	26916
1991 DE	97 09 20.6	23 51.70	-21 35.5	17.9	-0.88	- 4.5	5.9/13.6	24913
1990 QM ₄	97 09 20.7	23 52.01	-07 11.7	16.4	-0.91	- 7.9	2.5/18.6	22600
1993 KO	97 09 20.7	23 52.19	+02 51.8	16.8	-0.92	- 8.8	1.4/22.0	27311
1978 VL ₁₀	97 09 20.8	23 52.37	-01 47.3	16.8	-0.77	- 5.8	0.3/20.5	30684
1994 WG ₃	97 09 21.0	23 53.31	-11 00.8	15.4	-0.74	- 5.7	5.5/17.4	30689
1988 CF ₆	97 09 21.0	23 53.41	+05 40.2	16.9	-0.92	- 6.1	2.3/23.2	21568
1993 PY ₅	97 09 21.1	23 53.36	+09 37.2	17.6	-0.97	- 4.7	3.6/24.4	23981
1979 MA ₆	97 09 21.1	23 53.42	-07 47.4	17.3	-0.89	- 8.0	2.7/18.7	30468
1993 SY ₃	97 09 21.1	23 53.43	+04 55.9	15.9	-0.77	- 8.3	2.3/23.2	30688
1991 RJ ₁₁	97 09 21.1	23 53.46	-04 31.5	17.4	-0.74	- 5.0	1.2/19.8	30290
1996 GV ₁₈	97 09 21.1	23 53.67	-12 29.9	16.2	-1.01	- 2.1	5.3/17.7	29140
1981 EZ ₃₀	97 09 21.2	23 53.71	+01 21.5	19.5	-0.83	- 4.4	0.7/21.9	26920
1989 SU	97 09 21.2	23 53.89	+07 37.1	14.9	-0.85	- 4.4	3.8/24.0	30469
1994 CF ₂	97 09 21.2	23 54.00	-03 30.6	17.7	-0.72	- 5.0	0.8/20.3	30453
1989 GB ₁	97 09 21.2	23 54.09	+05 14.0	16.6	-0.70	- 5.6	1.6/23.3	30686
1993 FB ₂₄	97 09 21.2	23 54.09	+00 17.1	15.0	-1.02	- 1.4	0.5/21.5	27105
(7204)	97 09 21.3	23 54.07	-01 32.5	16.8	-0.78	- 7.6	0.3/21.0	28818
1990 TQ ₁₂	97 09 21.3	23 54.17	+08 45.0	16.2	-0.91	- 6.0	4.1/24.4	17965
1990 SY ₈	97 09 21.5	23 55.09	-08 16.0	17.6	-0.97	- 4.0	3.5/19.2	24582
(7292)	97 09 21.6	23 55.48	-09 00.6	16.1	-1.02	- 1.8	3.7/19.3	28287
1996 KB	97 09 21.6	23 55.56	+03 16.4	17.5	-0.86	- 6.3	1.3/23.0	28303
1979 MR ₅	97 09 21.7	23 55.88	+03 47.0	17.3	-0.88	- 5.8	1.9/23.2	30684
1353 T-2	97 09 21.8	23 56.22	-00 38.7	17.8	-0.89	- 5.4	0.1/21.8	28892
1991 FQ ₂	97 09 21.9	23 56.22	-00 41.8	18.1	-0.86	- 4.1	0.1/21.8	29098
2110 T-3	97 09 21.9	23 56.50	+00 50.8	17.7	-0.99	- 2.6	0.4/22.3	24115
1996 CR ₁	97 09 22.2	23 57.30	+02 58.3	16.2	-0.87	- 9.5	1.4/23.4	27123
(7072)	97 09 22.3	23 57.79	-00 20.2	17.2	-0.92	- 6.0	0.0/22.3	27441
1981 SC ₇	97 09 22.3	23 57.84	-13 31.5	15.4	-0.97	- 0.2	6.4/18.5	30468
6581 P-L	97 09 22.3	23 57.98	+00 47.7	17.2	-0.50	- 2.6	0.2/22.7	30696
1988 FN	97 09 22.3	23 58.03	+20 28.9	18.4	-1.15	- 0.7	6.5/28.1	27932
1993 BJ ₅	97 09 22.4	23 58.06	+07 35.4	17.6	-0.62	- 3.0	1.7/25.1	30658
1992 BE ₂	97 09 22.4	23 58.43	+02 14.7	17.9	-0.90	- 8.9	1.0/23.3	30687
1978 SE ₃	97 09 22.5	23 58.37	+02 48.6	15.9	-0.85	- 7.3	1.2/23.5	28610
(6975)	97 09 22.7	23 59.43	+05 38.4	15.2	-0.88	- 3.8	2.3/25.0	27096
1981 ED ₄₅	97 09 22.8	23 59.79	+07 10.0	20.1	-0.98	- 4.1	2.7/25.1	26923
1982 YR ₁	97 09 22.9	23 59.97	-01 38.1	15.4	-1.00	- 2.0	0.7/22.5	24894
1989 WU ₁	97 09 23.0	00 00.32	+15 52.7	15.3	-0.61	-10.8	7.2/29.8	30289
1996 OO	97 09 23.0	00 00.42	+11 14.0	18.3	-0.58	- 4.8	2.5/27.2	30473
1993 OB	97 09 23.0	00 00.46	+50 47.4	15.1	-0.91	+ 4.6	24.8/15.0	22816
1981 EA ₂₁	97 09 23.1	00 00.69	+01 02.0	18.3	-0.80	- 5.0	0.3/23.5	26919
1993 NU ₁	97 09 23.3	00 01.58	-02 54.1	16.4	-0.76	- 7.4	1.5/22.3	27556
1987 SM ₁₂	97 09 23.4	00 01.93	+00 56.1	16.9	-0.79	- 4.7	0.2/23.7	22078

1995 HE	97 09 23.5	00 02.13	-03 23.7	17.7	-0.87	- 4.1	1.3/22.4	30665
1995 EQ ₁	97 09 23.5	00 02.31	-02 37.8	17.8	-0.73	- 4.6	0.8/22.6	29664
1993 UT ₆	97 09 23.6	00 02.34	-00 16.2	17.2	-0.78	- 8.8	0.2/23.4	23784
1997 QK ₃	97 09 23.6	00 02.38	-04 41.3	16.7	-0.86	- 6.9	2.1/22.0	30679
1996 EL	97 09 23.6	00 02.40	+08 07.3	17.0	-1.02	- 4.1	2.8/26.0	27114
2647 P-L	97 09 23.6	00 02.41	-00 39.0	16.4	-0.91	- 4.8	0.4/23.3	16438
1981 EV ₃₇	97 09 23.6	00 02.41	+06 18.1	20.2	-0.86	- 8.7	2.3/25.8	26922
1994 VR ₁	97 09 23.8	00 03.20	+03 38.6	16.2	-0.95	- 5.4	1.5/24.9	28854
1981 EU ₇	97 09 23.8	00 03.31	+12 23.5	17.7	-0.93	- 4.1	5.3/27.7	24758
1992 BG	97 09 23.8	00 03.35	-08 46.5	17.0	-0.88	- 8.6	3.1/20.7	27325
1993 XF	97 09 23.9	00 03.74	-04 57.2	16.7	-0.80	- 5.7	1.9/22.2	30688
1995 AZ ₃	97 09 24.1	00 04.51	+06 32.3	16.9	-0.95	- 4.2	2.3/26.1	28617
1993 RH ₂	97 09 24.2	00 04.78	-00 47.1	15.7	-1.17	+ 4.2	0.6/24.0	30471
1996 EK ₁₅	97 09 24.2	00 04.78	-03 06.5	16.6	-0.93	- 6.8	1.7/23.1	27115
1993 PV ₆	97 09 24.3	00 04.93	+06 24.1	16.3	-0.88	- 3.3	2.7/26.1	29137
3175 T-3	97 09 24.3	00 05.07	-00 58.2	18.5	-0.79	- 4.4	0.5/23.9	21127
1978 WY ₈	97 09 24.4	00 05.46	-04 41.9	17.3	-0.79	- 4.8	1.7/22.7	23336
1981 ET ₉	97 09 24.5	00 05.85	+07 35.0	19.6	-0.97	- 5.2	2.6/26.7	22270
1996 DA	97 09 24.6	00 05.92	-05 26.2	17.4	-0.95	- 5.9	2.4/22.7	30473
2330 T-2	97 09 24.6	00 06.09	+00 14.3	18.1	-0.93	- 4.1	0.2/24.5	27939
1994 AP ₁	97 09 24.6	00 06.15	+24 28.1	17.6	-0.91	- 1.6	6.4/02.2	27716
1991 AC ₃	97 09 24.7	00 06.39	-04 48.0	17.5	-0.83	- 6.4	1.9/22.9	30687
1981 EN ₁₄	97 09 24.7	00 06.54	+04 17.9	18.6	-0.92	- 6.0	1.3/25.9	26917
1991 GQ ₃	97 09 25.0	00 07.54	+07 16.4	16.5	-0.76	-10.5	2.3/27.5	28614
1996 JF ₉	97 09 25.0	00 07.63	-04 08.8	20.0	-0.74	- 6.6	1.5/23.3	27562
1981 EH ₃₅	97 09 25.1	00 07.97	+04 57.6	19.0	-1.00	- 4.4	1.8/26.4	21967
2182 T-3	97 09 25.1	00 07.99	+04 55.3	17.2	-0.96	- 7.1	1.6/26.5	30683
2073 P-L	97 09 25.2	00 08.23	+03 29.4	18.2	-0.86	- 6.6	0.9/26.1	27938
1995 AW	97 09 25.4	00 08.93	+19 40.6	16.3	-0.92	- 3.9	5.8/01.6	25539
1991 PR ₁₂	97 09 25.4	00 09.17	+01 34.1	16.6	-0.73	- 4.9	0.2/25.7	30687
1992 EB ₁₃	97 09 25.5	00 09.43	+07 59.5	16.4	-0.95	- 4.7	3.0/27.8	29660
1990 SX ₅	97 09 25.5	00 09.56	-02 57.3	17.1	-0.92	- 4.6	1.9/24.3	24564
1990 SL ₂	97 09 25.6	00 09.53	-12 53.6	15.7	-0.91	- 2.5	6.8/21.4	30686
4195 T-1	97 09 25.6	00 09.58	-04 15.4	17.9	-0.79	- 5.1	1.7/23.9	30293
(7868)	97 09 25.6	00 09.87	-05 03.2	15.1	-1.05	+ 1.7	2.7/24.2	30636
1981 EN ₁₁	97 09 25.7	00 10.06	+06 24.2	20.6	-1.16	- 4.0	2.2/27.2	26917
1991 AQ ₂	97 09 25.7	00 10.10	+01 12.9	17.4	-0.92	- 5.9	0.0/25.8	29134
1992 DC ₁₀	97 09 25.7	00 10.15	+08 24.2	15.8	-0.91	- 6.3	3.1/28.2	27120
2778 P-L	97 09 25.8	00 10.47	+00 21.3	17.2	-0.89	- 6.6	0.3/25.6	28088
1990 WZ ₁	97 09 26.1	00 11.72	-02 56.7	16.5	-0.82	- 8.8	1.8/24.7	26901
1993 FD ₂₇	97 09 26.3	00 12.11	-00 12.1	17.8	-1.02	- 6.0	0.6/25.9	27455
1991 AL	97 09 26.3	00 12.29	-08 54.9	15.8	-0.91	- 6.6	4.0/22.9	24896
3063 P-L	97 09 26.3	00 12.30	+11 38.5	17.4	-0.72	- 4.0	2.8/29.9	27724
1990 QW ₁₀	97 09 26.3	00 12.39	+01 15.9	16.5	-1.05	- 3.6	0.0/26.4	28885
1993 TH ₁₄	97 09 26.6	00 13.19	-01 10.2	17.4	-0.84	- 6.4	0.8/25.8	27936
1992 FY ₁	97 09 26.6	00 13.29	-10 48.0	16.7	-1.02	- 3.4	4.6/23.0	30687
4124 T-3	97 09 26.6	00 13.36	-03 17.1	19.0	-0.76	- 5.6	1.6/25.1	25540
1994 AL ₁₆	97 09 26.6	00 13.46	+00 35.3	17.1	-0.69	- 7.5	0.3/26.4	23676
1996 PS ₁	97 09 26.7	00 13.71	+09 36.3	17.0	-0.47	- 5.8	1.5/29.9	28890
1981 EM ₃₈	97 09 26.8	00 14.25	+07 45.9	19.8	-0.84	- 4.6	2.0/28.9	22430
1986 RD ₅	97 09 26.9	00 14.35	+03 13.7	15.9	-0.79	- 3.7	0.6/27.5	30685

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1978 UW ₇	97 09 27.1	00 15.17	+14 11.4	16.1	-0.82	-11.8	4.9/02.1	30684
1989 UN ₁	97 09 27.1	00 15.23	+06 59.6	15.9	-0.68	- 8.3	2.5/29.2	22969
1983 CO ₃	97 09 27.2	00 15.42	+23 18.9	18.1	-0.79	- 3.7	5.7/04.7	30685
1980 FX ₃	97 09 27.2	00 15.59	+03 12.0	16.8	-0.98	- 3.6	0.6/27.7	23969
1990 VD ₃	97 09 27.2	00 15.68	+07 36.1	17.1	-0.93	- 5.9	2.2/29.2	21575
1992 SU	97 09 27.4	00 16.11	-02 05.0	15.3	-0.69	-12.3	1.3/25.9	30688
1989 UK ₁	97 09 27.4	00 16.31	+13 37.2	16.1	-0.80	-10.2	4.7/01.9	22812
(7069)	97 09 27.4	00 16.35	-07 02.9	16.7	-0.92	- 4.6	3.3/24.7	29587
1993 TY ₃₄	97 09 27.5	00 16.48	-02 19.6	18.0	-0.92	- 3.7	1.7/26.3	27557
1996 LG ₄	97 09 27.5	00 16.63	-03 41.5	15.8	-0.80	- 4.7	2.2/25.8	28863
1994 XE ₁	97 09 27.6	00 16.91	-14 15.5	16.2	-0.98	- 4.0	6.7/22.5	30689
1997 LD	97 09 27.7	00 17.22	+00 40.9	14.9	-0.70	-10.1	0.6/27.3	30673
1994 YB	97 09 27.7	00 17.37	+17 44.1	17.4	-0.99	- 5.0	5.3/03.0	26760
1993 WE	97 09 27.8	00 17.56	+04 23.0	17.5	-0.82	- 5.1	0.8/28.6	30688
1989 UB ₃	97 09 27.8	00 17.82	-07 03.7	16.7	-0.95	- 4.6	3.6/25.0	30470
1979 MW ₃	97 09 27.9	00 17.91	+05 49.3	18.0	-0.96	- 7.4	1.6/29.2	26913
1996 HU ₂₄	97 09 28.0	00 18.33	-09 57.0	17.5	-1.03	- 3.4	5.1/24.5	27721
1991 EO ₁	97 09 28.0	00 18.54	-04 16.7	16.5	-0.83	- 6.0	2.4/26.0	30687
1996 FL ₅	97 09 28.0	00 18.58	-03 29.3	17.3	-1.03	- 3.7	2.0/26.5	30458
1981 YG	97 09 28.3	00 19.23	+27 11.2	17.0	-0.94	- 4.2	8.3/06.9	30685
1990 UQ ₃	97 09 28.4	00 19.72	+00 25.8	16.9	-0.74	-10.1	0.8/27.8	23860
1988 QU	97 09 28.4	00 19.76	-12 28.2	16.6	-0.75	- 9.4	4.9/22.9	30686
(6867)	97 09 28.4	00 19.93	+00 00.6	16.0	-0.82	-10.1	0.7/27.7	29586
3553 P-L	97 09 28.7	00 20.75	+12 15.7	17.7	-0.85	- 4.4	3.1/01.9	27732
1981 EQ ₂	97 09 28.7	00 20.98	+12 58.2	18.8	-0.94	- 5.8	3.9/02.3	26915
1982 RF	97 09 28.7	00 21.09	+01 14.8	15.1	-0.73	- 7.1	0.5/28.4	30685
1981 EV ₂₂	97 09 28.8	00 21.19	+00 25.8	16.4	-0.74	- 6.9	0.8/28.2	30685
1282 T-2	97 09 28.8	00 21.36	+04 09.3	17.3	-0.79	- 5.3	0.6/29.5	22087
1986 RL ₅	97 09 28.9	00 21.61	+00 55.2	15.8	-0.86	- 2.0	0.5/28.5	30685
(7034)	97 09 28.9	00 21.73	+06 12.5	16.4	-0.88	- 9.2	1.5/30.3	27299
4342 T-1	97 09 29.0	00 22.10	-04 08.4	19.0	-0.91	- 4.3	2.3/27.0	25224
1988 EB ₁	97 09 29.0	00 22.12	-01 39.4	18.1	-0.92	- 5.2	1.4/27.8	30686
1989 TL ₁₅	97 09 29.2	00 22.84	+04 25.7	16.3	-0.88	- 5.0	0.8/29.9	23991
1977 DQ ₃	97 09 29.2	00 22.89	-00 31.2	17.4	-0.76	- 4.5	1.0/28.3	23347
1995 FU ₂	97 09 29.3	00 23.05	-02 44.2	19.5	-0.78	- 5.3	1.8/27.6	25442
1967 HA	97 09 29.4	00 23.24	+17 51.3	16.7	-1.04	- 1.7	5.3/03.9	27929
1994 VO ₇	97 09 29.4	00 23.57	+05 15.8	16.6	-0.96	- 7.3	1.2/30.4	28617
1977 QT ₂	97 09 29.5	00 23.93	+06 41.0	15.9	-0.97	- 5.3	1.9/30.9	28313
1996 DR	97 09 29.7	00 24.65	-05 28.6	16.6	-0.92	- 9.0	3.0/27.0	27457
1981 EM ₂₄	97 09 29.8	00 24.93	+05 32.6	16.9	-0.84	- 4.2	1.0/30.8	22697
1991 PG ₃	97 09 30.0	00 25.73	-01 30.5	18.2	-0.75	- 4.7	1.2/28.7	29942
1992 KF	97 09 30.1	00 25.98	-20 50.9	17.5	-0.98	- 1.7	8.0/23.1	25441
1991 SK	97 09 30.1	00 25.99	+01 51.9	15.9	-0.80	- 2.7	0.3/29.9	30687
1996 HL ₁₂	97 09 30.1	00 26.15	+03 20.4	18.8	-0.93	- 5.8	0.2/30.4	27561
1981 EV ₁₇	97 09 30.2	00 26.45	+05 13.8	19.5	-0.92	- 6.6	0.9/01.1	22697
1989 WG ₇	97 09 30.3	00 26.66	+05 06.5	16.7	-0.86	- 6.0	0.8/01.1	30470
1991 PQ ₁₂	97 09 30.3	00 26.77	+02 29.2	16.8	-0.73	- 5.0	0.1/30.2	30687
1992 ER ₁₂	97 09 30.9	00 28.87	+03 51.6	17.7	-0.91	- 6.8	0.3/01.2	27729
1995 EP ₁	97 09 30.9	00 28.97	+09 32.2	17.4	-0.89	- 2.5	1.9/02.9	25442
(6914)	97 10 01.0	00 29.09	+03 58.7	16.4	-0.91	- 5.1	0.3/01.3	26893
1993 TE	97 10 01.0	00 29.37	+04 41.5	15.7	-0.55	-12.9	0.7/01.7	30688

1992 DA	97 10 01.1	00 29.38	+00 57.6	17.0	-0.97	- 4.9	0.7/30.4	28886
(6940)	97 10 01.3	00 30.13	+02 41.0	17.3	-1.01	- 5.0	0.2/01.1	27088
(7451)	97 10 01.3	00 30.47	-08 49.0	15.7	-0.70	- 8.4	4.6/26.9	29077
1990 WX ₁	97 10 01.4	00 30.64	-04 58.4	17.8	-0.86	- 7.9	3.2/28.6	27454
1996 JF	97 10 01.5	00 30.81	-05 18.4	18.5	-0.98	- 5.1	3.0/28.8	29140
1989 WB ₂	97 10 01.7	00 31.59	+12 20.7	16.8	-0.93	- 4.9	3.3/04.5	28884
2748 P-L	97 10 01.9	00 32.56	-00 57.0	17.6	-0.74	- 9.7	1.9/30.3	23985
5004 P-L	97 10 02.1	00 33.14	+10 07.2	16.0	-0.67	- 9.9	2.4/05.0	29668
1991 PB ₁₂	97 10 02.1	00 33.21	+14 43.3	16.4	-0.74	- 5.6	3.3/06.1	27935
1981 EM ₂₅	97 10 02.2	00 33.43	+02 03.3	19.7	-0.90	- 7.1	0.5/01.7	26919
(7894)	97 10 02.3	00 33.87	-19 45.5	17.9	-0.90	- 3.8	7.5/24.7	30643
1975 XD	97 10 02.3	00 34.02	-10 06.5	17.4	-0.85	- 6.7	5.9/27.6	27323
1990 QN ₉	97 10 02.4	00 34.21	-03 37.3	17.0	-0.93	- 7.3	3.0/30.0	23859
2818 P-L	97 10 02.4	00 34.23	-01 03.6	19.0	-0.96	- 4.6	1.6/31.0	27320
1989 GE ₃	97 10 02.7	00 35.41	+06 29.1	17.6	-0.81	- 4.0	0.8/03.6	23670
1992 EL ₁₇	97 10 02.7	00 35.51	-05 25.9	18.2	-0.92	- 6.1	4.0/29.8	24106
(7007)	97 10 02.8	00 35.73	+04 18.3	17.9	-0.95	- 5.8	0.2/03.0	27292
6313 P-L	97 10 02.8	00 35.85	+07 24.5	18.7	-0.84	- 4.7	1.2/04.0	16036
1980 FY	97 10 03.0	00 36.26	+06 45.9	16.3	-1.03	- 5.8	1.2/03.9	29132
1990 TG ₁₁	97 10 03.2	00 37.25	+08 44.5	17.7	-0.96	- 6.2	1.9/05.0	22953
1988 TQ ₄	97 10 03.3	00 37.44	+01 55.6	15.7	-0.81	- 5.4	0.8/02.6	29656
1997 RO ₃	97 10 03.4	00 37.93	-00 01.0	16.7	-0.81	- 8.5	1.7/02.0	30680
1995 CB ₁	97 10 03.5	00 38.09	-10 56.0	16.2	-0.85	- 5.2	6.7/28.5	26928
1986 QK ₂	97 10 03.5	00 38.42	-15 26.7	16.4	-0.83	- 9.3	7.6/26.3	27324
1993 OQ ₈	97 10 03.7	00 38.88	-00 49.1	17.0	-0.82	- 5.3	2.4/02.1	27121
6381 P-L	97 10 03.8	00 39.15	+01 39.2	17.5	-0.78	- 9.8	0.9/02.9	28892
1991 RR ₃₀	97 10 03.8	00 39.36	+01 19.2	15.6	-0.82	- 2.7	1.0/03.0	29659
4805 P-L	97 10 04.0	00 40.05	+03 35.2	18.4	-0.95	- 5.2	0.2/03.8	28620
1995 EE ₈	97 10 04.2	00 41.05	+14 43.7	16.8	-1.05	- 1.1	3.5/07.1	28889
1997 RP ₃	97 10 04.3	00 41.20	+00 57.3	16.2	-0.73	- 5.2	1.2/03.2	30680
1997 RQ ₃	97 10 04.4	00 41.35	+00 56.5	17.0	-0.74	- 5.2	1.2/03.2	30681
1996 HQ ₂₃	97 10 04.4	00 41.76	+02 33.6	16.0	-0.91	- 6.4	0.9/03.9	27720
1990 SA ₁₅	97 10 04.5	00 41.84	+12 47.3	16.0	-0.90	- 7.1	3.7/07.3	30654
(7033)	97 10 04.5	00 41.86	-05 57.0	16.1	-0.92	- 7.9	4.1/01.0	27299
1993 BE ₅	97 10 04.5	00 41.89	+07 29.2	16.4	-0.67	- 4.0	0.8/05.5	28887
1991 DK ₁	97 10 04.7	00 42.42	+01 43.0	20.0	-0.50	- 2.5	0.5/03.7	29942
1986 QZ ₁	97 10 04.7	00 42.62	-06 49.2	16.6	-0.71	- 7.0	3.6/30.7	30651
1996 ER	97 10 04.7	00 42.68	+01 51.5	16.8	-0.91	- 9.2	1.2/03.8	30668
1992 OB ₉	97 10 04.8	00 43.15	-15 16.2	16.7	-0.82	- 5.0	7.0/28.3	29660
5030 T-2	97 10 04.9	00 43.34	+19 33.7	18.7	-0.53	- 2.9	2.8/10.2	15258
1992 RZ	97 10 04.9	00 43.37	+06 15.0	16.7	-0.80	- 5.1	0.5/05.5	23869
1996 OH	97 10 05.0	00 43.64	-04 04.9	19.1	-0.66	- 4.7	2.3/02.0	27938
1988 AA ₂	97 10 05.0	00 43.67	-05 53.9	16.5	-0.97	- 5.7	4.5/01.7	24736
4370 T-1	97 10 05.0	00 43.77	-01 19.9	17.3	-0.98	- 6.1	2.8/03.2	27322
1993 HG ₁	97 10 05.1	00 44.14	+01 58.9	17.0	-0.98	- 7.7	1.1/04.3	29944
(7641)	97 10 05.1	00 44.23	+36 23.2	16.5	-0.55	- 4.7	5.2/18.3	29897
1994 YZ ₁	97 10 05.3	00 44.75	-00 33.9	17.2	-0.96	- 4.4	2.1/03.7	27568
1991 QE	97 10 05.6	00 45.97	-04 09.1	15.3	-1.16	+ 4.3	3.5/03.8	22084
1985 CN ₁	97 10 05.7	00 46.41	+04 55.8	16.8	-1.00	- 4.9	0.0/05.8	29133
1973 SP ₁	97 10 05.8	00 46.66	+01 45.9	17.8	-0.48	- 3.4	0.6/04.7	30089
1979 MO ₇	97 10 05.8	00 46.77	+11 08.0	18.3	-0.71	- 6.2	2.0/08.0	21561

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1994 BJ ₄	97 10 05.8	00 46.82	+18 07.3	18.1	-0.77	- 4.8	3.7/10.3	28888
1990 TH ₁₂	97 10 05.9	00 47.08	+11 05.0	16.9	-0.93	- 6.9	2.3/07.9	29134
1991 PR ₁	97 10 05.9	00 47.11	+22 03.3	17.6	-0.85	- 3.4	5.1/11.5	23339
1981 EQ ₂₈	97 10 06.0	00 47.44	+01 25.4	16.1	-0.78	- 6.7	1.4/04.8	29653
1994 YJ ₂	97 10 06.1	00 47.74	-18 03.4	16.7	-0.89	- 3.8	7.3/28.6	24754
2122 T-3	97 10 06.5	00 49.07	+08 59.6	18.9	-0.97	- 7.1	1.4/07.7	28088
1986 TR ₃	97 10 06.6	00 49.66	+05 25.2	17.2	-0.77	- 4.6	0.0/06.7	29655
2234 T-1	97 10 06.7	00 50.03	+05 03.8	17.5	-1.08	- 0.9	0.1/06.7	25336
1992 UZ ₃	97 10 06.9	00 50.66	+05 37.2	15.6	-0.79	- 3.6	0.1/07.0	29661
1982 RK ₁	97 10 07.0	00 50.82	+12 51.8	17.3	-0.96	- 5.8	3.2/10.0	22271
1994 FQ	97 10 07.0	00 50.92	-08 35.7	18.8	-0.69	- 7.4	3.8/01.9	27730
1993 TB ₃₉	97 10 07.0	00 51.10	-02 18.6	17.8	-0.83	- 6.6	2.5/04.5	25642
1996 RJ	97 10 07.0	00 51.21	+39 53.0	16.5	-0.59	- 3.8	6.0/21.3	30459
1996 GA ₁₉	97 10 07.1	00 51.58	+00 43.2	17.8	-1.02	- 4.4	1.9/05.8	29630
1973 SA ₂	97 10 07.2	00 51.61	-01 43.8	17.8	-0.50	- 2.8	1.3/04.7	27725
1995 GE	97 10 07.2	00 51.78	-02 44.0	15.0	-0.67	-12.8	3.3/04.0	28302
4034 T-1	97 10 07.3	00 52.02	+01 28.8	16.4	-0.77	- 6.0	1.3/06.0	27732
1987 YU ₁	97 10 07.4	00 52.50	+20 13.1	16.9	-0.50	- 5.5	2.9/13.0	16428
1981 EN ₁₉	97 10 07.4	00 52.69	+07 02.8	18.1	-0.82	- 6.6	0.5/08.0	26918
1992 KQ	97 10 07.4	00 52.69	-21 24.7	15.4	-0.87	- 2.9	10.3/28.8	30688
(7152)	97 10 07.5	00 52.90	+00 42.0	16.5	-0.50	- 3.2	0.9/05.8	27893
1993 XK ₁	97 10 07.5	00 52.91	+00 31.0	17.1	-0.81	- 4.4	1.7/05.9	25539
1993 UM ₈	97 10 07.6	00 53.20	+01 52.7	16.8	-0.76	-11.8	1.4/06.2	24112
4381 T-1	97 10 07.6	00 53.30	+03 12.7	18.5	-0.99	- 3.2	1.1/07.0	27927
1987 SG ₁₃	97 10 07.8	00 53.82	+04 19.0	16.2	-1.05	- 2.8	0.7/07.4	22078
(6991)	97 10 07.8	00 53.83	-05 32.0	14.8	-0.77	- 6.6	5.3/03.9	30684
1993 HS	97 10 08.0	00 54.60	+05 16.3	16.3	-1.06	- 5.0	0.2/07.9	29944
(7098)	97 10 08.0	00 54.64	-02 57.3	17.8	-0.83	- 5.3	2.5/05.2	27551
1981 FL	97 10 08.1	00 55.04	+03 30.6	18.1	-0.88	- 8.1	0.8/07.4	28882
4722 P-L	97 10 08.2	00 55.22	+06 36.3	17.5	-0.92	- 6.3	0.2/08.4	22086
1993 OH ₄	97 10 08.2	00 55.40	+04 04.7	17.7	-0.97	- 5.7	0.7/07.7	30660
1985 HH	97 10 08.2	00 55.47	+03 21.0	17.3	-0.93	- 6.5	0.9/07.4	27305
(6942)	97 10 08.2	00 55.62	+00 43.9	15.6	-0.96	- 3.8	2.3/06.8	27088
1989 EG ₁	97 10 08.6	00 57.05	+00 18.0	17.5	-0.94	- 8.0	2.2/06.8	27566
1992 JP ₃	97 10 08.6	00 57.11	-00 21.7	19.2	-0.96	- 3.3	2.2/06.9	27309
1992 WP ₃	97 10 08.7	00 57.11	+22 14.7	16.3	-0.80	- 4.8	5.5/14.2	28887
1991 DK	97 10 08.8	00 57.41	+17 18.6	14.2	-1.19	+ 2.6	4.8/11.3	25440
1992 EF ₂	97 10 08.9	00 57.84	-06 18.4	17.7	-0.86	- 8.4	4.2/04.7	30290
1981 ES ₃₈	97 10 08.9	00 58.13	+06 44.8	16.4	-0.81	- 9.9	0.2/09.2	28882
(7065)	97 10 09.0	00 58.13	+07 00.8	15.7	-0.77	- 7.9	0.3/09.3	29076
1996 KG	97 10 09.0	00 58.14	+05 54.4	17.4	-0.94	- 7.5	0.1/08.9	27453
1989 CD ₈	97 10 09.1	00 58.74	+20 36.2	15.8	-0.78	- 5.9	4.8/14.1	27566
(7068)	97 10 09.1	00 58.76	-06 33.1	15.5	-0.97	- 5.7	5.6/05.1	27440
1990 WJ ₄	97 10 09.4	00 59.69	-04 29.3	18.1	-0.90	- 6.2	3.9/05.9	25957
1993 OJ ₇	97 10 09.4	00 59.90	+18 09.9	16.7	-0.99	- 4.8	5.1/13.1	24763
1996 JF ₃	97 10 09.4	01 00.03	-06 44.0	16.4	-0.98	- 1.8	6.2/05.8	27562
1984 CP	97 10 09.5	01 00.06	-05 28.1	17.7	-0.89	- 6.1	4.0/05.7	29654
6038 P-L	97 10 09.5	01 00.10	+11 06.0	15.6	-1.00	- 1.1	2.1/10.8	27938
1991 PL ₈	97 10 09.5	01 00.18	+05 49.8	17.9	-0.79	- 4.4	0.2/09.4	25065
1993 YH	97 10 09.7	01 00.93	+02 41.9	17.6	-0.75	- 4.5	1.1/08.5	29137
4196 T-2	97 10 09.8	01 01.06	+01 44.6	16.6	-0.83	- 4.4	1.6/08.3	30696

1981 EH ₉	97 10 09.9	01 01.62	+12 08.9	18.8	-0.97	- 6.3	2.0/11.7	22696
1982 BS	97 10 09.9	01 01.87	+31 15.4	15.9	-0.98	- 2.6	10.1/18.0	22823
1981 EG ₂₆	97 10 10.0	01 02.09	+12 50.7	18.5	-0.93	- 2.8	2.0/11.9	26919
1992 EQ ₉	97 10 10.0	01 02.12	+06 22.3	16.0	-0.93	- 7.7	0.1/10.0	30274
1991 FB ₄	97 10 10.0	01 02.19	+09 44.3	16.8	-0.88	- 4.1	1.0/11.0	29135
1992 CA ₂	97 10 10.1	01 02.45	-00 10.0	16.6	-0.94	- 7.1	2.7/08.0	27935
1992 NS	97 10 10.2	01 02.89	+13 12.9	16.9	-0.81	- 9.3	2.2/12.6	30688
(6944)	97 10 10.3	01 02.94	-07 33.8	16.8	-0.92	- 5.9	5.9/05.8	27089
4655 P-L	97 10 10.3	01 03.04	+11 37.6	17.4	-0.55	- 1.5	0.9/11.9	29649
1993 VR ₂	97 10 10.5	01 03.78	+23 35.6	15.1	-0.78	- 9.4	6.8/17.0	30688
1981 EX ₃₀	97 10 10.6	01 04.04	+01 50.9	16.8	-0.76	- 6.7	2.5/08.9	28314
1973 SO ₁	97 10 10.7	01 04.72	+03 00.0	17.6	-0.48	- 4.0	0.7/09.4	29652
1995 DD ₂	97 10 10.7	01 04.72	-02 01.9	16.0	-0.77	- 7.3	2.8/07.7	30292
1990 SK	97 10 10.8	01 05.14	-33 18.9	15.7	-1.81	+20.4	22.6/09.7	22699
(7886)	97 10 10.8	01 05.15	+14 11.1	17.1	-0.92	- 6.5	3.0/13.2	30640
1993 OW ₃	97 10 10.9	01 05.11	+00 25.4	15.8	-0.87	- 5.7	3.0/08.9	30660
1988 FE	97 10 11.0	01 05.49	-02 14.1	17.4	-0.99	- 3.1	3.0/08.4	21569
1994 AH	97 10 11.0	01 05.61	+02 59.0	15.3	-0.78	- 5.2	1.3/09.7	25228
9519 P-L	97 10 11.1	01 06.06	+05 14.3	18.3	-0.88	- 3.5	0.6/10.6	14631
4409 T-1	97 10 11.4	01 07.23	-00 16.6	17.9	-0.92	- 7.0	2.9/09.1	29668
1992 EE ₁	97 10 11.5	01 07.55	-03 33.3	17.4	-1.24	+ 1.1	3.7/09.2	21977
1992 WS ₂	97 10 11.5	01 07.74	+07 02.0	15.9	-0.78	- 4.4	0.1/11.5	25641
(7062)	97 10 11.8	01 08.49	-14 00.3	18.0	-0.72	- 5.7	5.9/04.6	27439
1981 EQ ₁₇	97 10 11.8	01 08.65	+08 34.0	18.6	-0.94	- 6.4	0.5/12.2	26918
1045 T-2	97 10 11.8	01 08.69	+07 37.9	15.4	-0.78	-11.7	0.2/12.0	28892
1978 UK ₇	97 10 12.0	01 09.59	+07 34.3	16.7	-0.84	- 6.5	0.1/12.2	28610
6591 P-L	97 10 12.1	01 09.65	+07 23.6	17.8	-0.51	- 2.3	0.0/12.1	28620
1981 ED ₃₁	97 10 12.1	01 09.74	+03 14.3	18.2	-0.89	- 7.1	1.8/10.8	26920
1996 CW ₇	97 10 12.2	01 10.22	-03 13.7	17.5	-1.00	- 6.2	4.5/09.1	30689
1986 XF ₅	97 10 12.3	01 10.45	+06 25.5	16.5	-0.82	- 6.6	0.5/12.0	30686
(6963)	97 10 12.3	01 10.62	+16 43.4	15.6	-1.02	- 6.3	4.1/15.3	27093
1995 FG ₁	97 10 12.3	01 10.69	+08 59.8	16.4	-0.81	- 4.8	0.5/12.9	25963
1211 T-2	97 10 12.5	01 11.22	+14 10.2	18.0	-1.09	- 3.6	2.6/14.4	25652
1991 EL	97 10 12.5	01 11.37	+35 39.7	19.1	-0.55	- 2.8	4.4/23.1	18437
1992 UM ₃	97 10 12.5	01 11.43	+16 38.0	16.2	-0.76	- 6.6	2.7/15.7	29661
1995 DP ₂	97 10 12.5	01 11.44	+07 22.9	19.3	-0.91	- 4.1	0.1/12.5	30292
1993 RZ ₁	97 10 12.7	01 12.02	+09 06.6	16.5	-0.92	- 6.0	0.6/13.2	28616
1988 CD ₂	97 10 12.7	01 12.14	+04 15.1	17.0	-0.93	- 6.5	1.5/11.7	25339
(6873)	97 10 12.8	01 12.14	+07 41.2	16.6	-0.98	- 8.5	0.0/12.8	26734
1981 ES ₂₅	97 10 12.8	01 12.26	+07 26.0	17.9	-0.98	- 5.0	0.1/12.8	26919
1973 SJ ₁	97 10 12.9	01 12.73	+06 36.2	18.0	-0.59	- 3.9	0.2/12.6	30647
(7082)	97 10 13.1	01 13.48	-12 59.9	16.4	-0.71	- 6.1	6.4/06.0	27547
1981 EE ₁₅	97 10 13.2	01 13.64	+15 53.5	19.1	-0.84	- 5.1	2.5/15.8	26917
1987 SE ₇	97 10 13.2	01 13.72	+19 06.4	16.4	-0.95	- 5.3	5.6/16.8	28315
1995 CJ	97 10 13.2	01 13.90	-12 34.9	17.6	-0.74	- 4.6	5.4/06.6	24906
2093 P-L	97 10 13.3	01 14.07	+11 09.2	17.1	-0.73	- 7.1	1.0/14.5	21977
1989 UL ₁	97 10 13.4	01 14.63	-00 45.3	15.3	-1.02	- 0.6	3.5/11.3	27325
1995 DF ₈	97 10 13.6	01 15.15	+03 29.4	18.4	-0.85	- 6.6	1.8/12.2	25229
1986 RA ₃	97 10 13.6	01 15.50	+26 31.6	16.3	-0.83	- 4.7	5.8/19.9	30685
1981 EK ₁₀	97 10 13.7	01 15.69	+13 33.9	17.6	-1.00	- 5.2	2.3/15.4	24580
1993 FX ₇₇	97 10 13.8	01 15.87	+11 43.6	16.7	-1.05	- 7.4	1.5/15.0	24109

1981 EN ₂₆	97 10 13.8	01 16.04	+05 04.1	17.9	-0.77	- 6.7	0.8/12.9	21967
1989 SR ₄	97 10 13.8	01 16.22	+03 59.2	17.5	-0.94	- 2.4	1.8/12.8	24582
1981 EX ₂₆	97 10 13.9	01 16.61	+07 57.8	17.7	-0.95	- 7.2	0.1/14.0	28882
1994 AX ₂	97 10 14.0	01 16.96	+25 46.5	17.4	-0.83	- 4.1	4.8/19.8	27730
1991 GJ ₁	97 10 14.0	01 17.02	+01 29.5	16.5	-1.04	- 1.1	2.3/12.4	28614
1981 EL ₉	97 10 14.2	01 17.47	+26 54.9	18.4	-0.91	- 0.8	5.8/19.7	26916
(6961)	97 10 14.3	01 17.72	+11 23.8	16.9	-0.95	- 7.2	1.1/15.3	27093
1981 EL ₂₂	97 10 14.4	01 18.13	+12 46.9	21.4	-1.02	- 4.3	1.6/15.7	26919
1980 FF ₁₂	97 10 14.4	01 18.43	+11 06.5	16.6	-1.07	- 5.1	1.1/15.3	28610
1991 GH ₃	97 10 14.5	01 18.53	+09 42.7	16.2	-0.89	- 5.6	0.6/15.0	29658
1981 EW ₃₆	97 10 14.5	01 18.64	+17 32.0	19.6	-0.85	- 5.2	3.2/17.5	22271
1987 RJ	97 10 14.5	01 18.85	+03 18.6	15.7	-0.98	- 4.2	2.4/13.2	25338
1989 BA ₁	97 10 14.6	01 18.84	+49 34.6	16.7	-0.95	-13.1	13.9/03.3	30469
(7571)	97 10 14.6	01 18.97	+04 55.2	17.3	-0.76	- 4.6	1.0/13.6	29594
1996 KL ₁	97 10 14.7	01 19.24	-18 01.8	19.2	-0.78	- 4.1	7.7/06.4	28077
1981 ED ₁₃	97 10 14.7	01 19.35	+18 58.3	19.2	-0.91	- 3.6	4.0/17.9	26917
1992 ER	97 10 14.8	01 19.81	+12 24.7	16.6	-1.10	- 2.4	1.6/15.9	30471
1979 MD ₂	97 10 14.8	01 19.91	+06 32.9	15.7	-0.89	- 8.0	0.9/14.3	29132
1992 UG ₄	97 10 14.9	01 20.03	+00 30.0	16.0	-0.84	- 2.5	2.8/12.7	29136
2326 T-3	97 10 14.9	01 20.26	+12 34.7	17.5	-0.91	- 5.6	1.6/16.2	25085
1996 DV ₂	97 10 15.0	01 20.60	+02 54.8	17.0	-0.98	- 7.0	2.5/13.4	30689
3005 P-L	97 10 15.2	01 21.28	+22 50.2	18.5	-0.81	- 5.0	4.2/20.0	22700
1994 XJ	97 10 15.3	01 21.59	-00 22.4	17.1	-1.01	- 3.5	3.4/12.9	29106
1988 GL	97 10 15.3	01 21.75	-10 56.0	17.7	-1.00	- 1.9	6.3/10.1	30469
1993 RK ₄	97 10 15.4	01 21.94	+11 36.6	18.0	-0.94	- 5.4	1.0/16.3	24914
4408 T-1	97 10 15.4	01 22.12	+01 58.8	14.9	-0.94	- 1.6	3.4/13.7	28892
3232 T-2	97 10 15.5	01 22.17	+00 32.0	18.1	-0.98	- 6.0	3.2/13.1	23988
1990 SL ₂₇	97 10 15.5	01 22.22	+04 30.3	15.6	-0.84	- 7.6	2.0/14.2	30654
1993 TD ₂₆	97 10 15.5	01 22.34	+04 47.1	18.4	-0.76	-12.5	1.5/14.1	27557
1993 VE	97 10 15.5	01 22.42	+00 23.9	15.4	-1.08	+ 0.9	3.3/13.7	28888
1993 VT	97 10 15.6	01 22.80	-08 16.4	15.7	-1.00	+ 1.3	7.4/11.7	27558
1973 SS	97 10 15.7	01 22.92	+04 33.0	18.8	-0.50	- 2.9	0.7/14.3	29606
1995 CT ₁	97 10 15.7	01 23.19	+49 26.1	17.5	-1.07	- 5.2	9.8/31.9	27731
1994 AB ₂	97 10 15.7	01 23.22	+09 22.8	16.3	-0.80	- 5.0	0.2/16.0	25228
1981 EQ ₃₃	97 10 15.8	01 23.40	+18 29.9	19.4	-1.00	- 5.8	3.8/18.8	23990
1996 JW ₂	97 10 15.9	01 23.89	+00 31.6	18.5	-0.86	- 7.5	2.9/13.3	30293
1989 GZ ₁	97 10 15.9	01 24.01	+11 53.0	18.0	-0.97	- 6.5	1.2/16.9	22969
1986 WC ₁	97 10 16.0	01 24.28	+06 15.4	17.4	-0.78	- 3.7	0.9/15.3	20500
1988 RU ₆	97 10 16.3	01 25.11	+08 43.1	17.4	-0.85	- 5.6	0.1/16.2	29656
1995 BM ₂	97 10 16.3	01 25.33	+32 15.3	19.3	-1.07	- 9.2	7.9/24.2	25431
1988 NR	97 10 16.4	01 25.67	+29 25.7	16.0	-0.87	- 8.7	7.8/24.1	29133
6540 P-L	97 10 16.6	01 26.38	+08 48.4	18.3	-0.52	- 2.0	0.0/16.6	29649
1992 EE	97 10 16.6	01 26.45	+14 56.8	17.6	-1.03	- 4.0	2.0/18.3	29660
1996 EK	97 10 16.9	01 27.54	-01 17.2	17.5	-0.98	- 7.1	3.7/13.8	28318
1995 CL ₁	97 10 17.0	01 28.11	-10 23.1	17.7	-0.82	- 5.5	5.9/10.7	24907
1993 OO ₃	97 10 17.1	01 28.11	+12 24.0	16.8	-0.87	- 5.0	1.6/18.1	25441
4082 P-L	97 10 17.1	01 28.35	+11 35.3	17.5	-0.97	- 5.4	0.8/17.8	27938
1995 CD	97 10 17.1	01 28.37	+08 04.7	16.4	-0.91	- 3.8	0.4/16.8	27937
1991 SG	97 10 17.2	01 28.63	-01 49.5	17.1	-0.70	- 6.2	3.5/13.6	29615
1981 EC ₂₈	97 10 17.2	01 28.84	+10 46.2	20.0	-1.00	- 4.3	0.5/17.7	26920
1995 CE ₂	97 10 17.3	01 28.92	+54 40.9	16.9	-1.30	- 3.2	14.1/05.1	29138

1993 UW ₈	97 10 17.3	01 29.10	+00 50.8	17.9	-0.93	- 4.0	3.1/15.0	27558
1993 JG	97 10 17.3	01 29.17	-02 02.2	15.7	-1.13	- 0.3	5.2/14.7	29137
1993 OV ₅	97 10 17.5	01 30.02	+02 46.1	18.4	-0.98	- 5.9	2.5/15.6	27557
1993 QS	97 10 17.6	01 30.24	-08 20.3	15.9	-0.68	-11.0	8.1/10.9	30688
1992 TX	97 10 17.6	01 30.40	+09 52.2	15.7	-0.84	- 4.1	0.1/17.8	27455
1994 CF ₁₆	97 10 17.7	01 30.75	-03 08.0	18.1	-0.74	- 4.4	3.6/13.8	24112
1996 LJ ₁	97 10 18.2	01 32.26	+15 05.4	18.4	-0.79	- 9.2	1.7/20.1	30669
1992 DG ₁	97 10 18.2	01 32.42	+15 29.3	17.1	-1.02	- 4.2	2.0/20.0	24119
1981 EO ₁₁	97 10 18.2	01 32.65	+12 37.4	19.0	-0.98	- 5.7	1.0/19.2	22270
1993 OH ₆	97 10 18.2	01 32.66	-00 40.9	17.1	-0.92	- 5.7	4.6/15.2	24110
1981 ED ₅	97 10 18.3	01 32.64	+20 18.8	19.5	-0.97	- 7.0	3.7/21.7	26915
1995 AL	97 10 18.3	01 32.90	-02 48.7	16.7	-0.93	- 4.1	4.8/14.8	30292
1981 EP ₄	97 10 18.4	01 33.08	+11 18.7	18.8	-0.78	- 8.4	0.5/19.0	26915
1981 EV ₂₇	97 10 18.4	01 33.09	+06 03.2	17.9	-0.79	- 6.5	1.3/17.3	21101
1984 QB	97 10 18.4	01 33.15	+27 44.1	16.3	-1.03	- 4.5	6.7/24.1	28315
1981 EH ₁₃	97 10 18.4	01 33.27	+14 28.7	17.6	-0.94	- 7.0	2.1/20.0	24580
1988 NU	97 10 18.4	01 33.37	+13 20.2	17.1	-0.85	- 7.6	1.4/20.0	27454
(7137)	97 10 18.5	01 33.64	+14 13.2	16.4	-0.85	- 4.9	1.5/19.9	27705
1989 UA	97 10 18.5	01 33.77	+02 08.9	15.3	-1.04	- 0.3	3.1/16.8	25226
1992 EU ₁₁	97 10 18.6	01 34.14	+18 24.8	18.0	-1.05	- 4.2	3.1/21.1	28886
1991 RA ₁₅	97 10 18.7	01 34.53	+09 44.8	17.8	-0.77	- 4.4	0.0/18.8	25214
2096 P-L	97 10 19.0	01 35.57	+09 28.5	16.9	-0.88	- 7.2	0.2/18.9	24120
(7000)	97 10 19.1	01 36.05	-03 57.8	14.3	-1.00	+ 3.9	7.3/16.4	27291
1991 EN	97 10 19.2	01 36.11	+35 18.0	17.6	-0.59	- 2.8	4.4/28.1	26420
1990 SM ₆	97 10 19.4	01 36.74	+09 18.1	16.3	-1.06	- 3.5	0.3/19.2	24912
1981 JM ₂	97 10 19.5	01 37.11	+10 34.2	17.3	-0.95	- 6.3	9.6/09.0	28611
1980 RP	97 10 19.5	01 37.34	+33 36.5	16.7	-1.04	- 1.2	7.7/26.6	27118
(7070)	97 10 19.9	01 38.61	-04 24.7	15.1	-0.90	- 6.1	6.8/15.3	27440
1981 EA ₃₉	97 10 19.9	01 38.77	+12 48.6	19.9	-0.98	- 5.4	0.9/20.7	23778
1994 BW ₄	97 10 20.0	01 39.43	+25 24.0	16.8	-0.86	- 4.1	4.5/24.8	23243
1994 BM ₄	97 10 20.2	01 39.82	+19 11.9	17.0	-0.86	- 6.3	3.1/23.0	23243
1981 WC	97 10 20.3	01 40.13	-02 23.0	15.2	-0.85	+ 1.9	5.9/17.3	30650
1102 T-1	97 10 20.6	01 41.30	+11 51.3	17.8	-0.94	- 8.3	0.5/21.0	28088
(6952)	97 10 20.7	01 42.01	+10 50.1	17.0	-0.81	- 6.9	0.1/20.9	27091
1993 VE ₂	97 10 20.7	01 42.04	+18 22.4	15.9	-0.78	-12.8	3.1/23.7	28087
1208 T-1	97 10 20.8	01 42.41	+12 18.4	17.7	-0.92	- 8.0	0.7/21.4	25435
1992 WB ₉	97 10 20.9	01 42.58	+12 38.5	17.4	-0.81	- 4.1	0.7/21.5	22407
1973 SN ₁	97 10 21.0	01 42.79	+05 14.2	19.3	-0.50	- 2.7	1.0/19.3	29607
1990 QW ₁₇	97 10 21.0	01 43.06	+21 24.3	14.9	-0.92	- 6.1	5.4/24.5	24563
4094 T-3	97 10 21.1	01 43.59	+05 37.7	17.7	-0.96	- 3.1	2.0/19.8	24585
1991 RO ₂₃	97 10 21.2	01 43.51	+20 53.7	14.8	-1.00	+ 0.4	3.5/23.7	30656
1993 OM ₃	97 10 21.3	01 43.98	-00 37.8	17.7	-0.99	- 5.5	4.3/18.1	28888
(7144)	97 10 21.3	01 44.30	+01 23.4	16.5	-0.88	- 6.8	3.9/18.5	27706
(7215)	97 10 21.6	01 45.12	+41 57.1	16.7	-1.01	- 1.8	8.7/31.6	28058
4848 P-L	97 10 21.7	01 45.65	+08 15.8	18.2	-0.95	- 6.2	1.0/21.0	27457
(7112)	97 10 21.8	01 46.05	-14 44.3	17.9	-0.84	- 3.1	7.6/14.3	27699
1996 PM ₄	97 10 22.0	01 46.59	+10 46.9	17.4	-0.75	- 3.9	0.1/21.9	29666
1995 CA	97 10 22.0	01 46.75	+26 08.4	17.2	-0.90	- 9.6	5.6/27.4	30664
4835 T-1	97 10 22.0	01 47.01	+12 58.3	14.1	-1.85	+12.4	1.1/22.2	27938
1995 BT ₃	97 10 22.1	01 47.29	+05 08.1	15.3	-0.86	- 6.7	2.7/20.4	30689
1972 TC	97 10 22.2	01 47.47	+25 46.7	15.5	-0.81	-10.5	6.1/27.5	22967