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EDITORIAL NOTICE

Almost forgotten as a result of the rather automatic procedures that produce the *Minor Planet Circulars* these days was last month's important milestone: the appearance of issue number 30 000. Number 20 000 was issued as recently as Apr. 1992, while number 10 000 appeared in Sept. 1985. It is also important to note that, since Sept. 1993, the amount of material on a single page is about 1.9 times what it was before that date.

This month the *Minor Planet Circulars* are celebrating another milestone: the fiftieth anniversary of the publication of the first issue by the Minor Planet Center, then newly established by the IAU at the Cincinnati Observatory under the direction of P. Herget. Although the early issues were undated, and the Harvard College Observatory's copy of the second issue is stamped as having been *received* on 1947 Nov. 5, it seems likely that the first issue was at least planned some months earlier; in any case, the second issue consists of a tabulation of observations made in June 1947 by H. L. Giclas at the Lowell Observatory. Given the current rate of production, it is sobering to realize that only 4390 issues were produced during the 31 years the Minor Planet Center was located in Cincinnati. Furthermore, only 496 minor planets were given new permanent numbers during that time, as opposed to 5745 new numberings during the 19 years that the Minor Planet Center has been in Cambridge.

F. K. Edmondson, senior living former president of IAU Commission 20 and organizer of the observational effort at Indiana University that was so successful in ensuring the postwar recovery of activity on minor planets, long ago impressed upon the present director of the Minor Planet Center the importance of the Center as guaranteeing "quality control". Following that Cincinnati tradition, the Cambridge operation has striven to maintain—even improve—standards of accuracy and reliability. To accomplish this task, two—and only two—major decisions were made that affect the manner in which observers interact with the Minor Planet Center. The first, made in 1978 immediately on the transfer to Cambridge, was that approximate positions would no longer be acceptable. This decision was made in order to eliminate the duplication of effort necessary when (if) precise measurements were made at a later date and to reduce the uncertainty the use of rough data entails. The ease with which large numbers of high-quality positions can be immediately obtained nowadays from CCD images demonstrates the wisdom of this move. The second major decision, made in 1988, was to reduce the attention given to single-night detections; indeed, the publication of "one-night stands" was later effectively eliminated, again as a measure to improve efficiency and ensure that only reliable identifications would be acknowledged. One-night stands are preserved in the archives of the Minor Planet Center and are routinely scanned as new identifications are made, and they are then

extracted and published if a match is found. Given that the single-night data accumulate at a rate that is currently at least 25 percent that of the published observations, there would again seem to be ample justification for the decision.

A small, but vocal minority has objected that quality control has now simply become "control", and a lively discussion on this subject is likely to occur at the IAU General Assembly in Kyoto next month. We should like to emphasize that the principal duty of the Minor Planet Center is to work with observers to ensure that significant observations can be—and are—made. We also wish to ensure that appropriate credit is accorded to all who spend long hours at the telescope and in otherwise handling the data. As most of the subscribers to these *Circulars* will surely be aware, a large fraction of the Center's function involves *direct* interaction with dedicated observers, amateur and professional, around the world. Given the limited resources available to us, we feel that the decisions we made have been, and continue to be, essential for accomplishing the end stated above. The distribution of voluminous amounts of single-night data does not result in productive research. More regrettably, it may be necessary to make decisions on the continuing feasibility of the printed publication of all the accepted astrometric observations of minor planets, and we therefore welcome constructive views from observers on this matter.

ERRATUM

<i>MPC</i>	Line	
30100	— 7	<i>Add</i> Name proposed by the discoverer following a suggestion by H. McGee, who also wrote the citation.

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 29697. 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	$\rho \cos \phi'$	$\rho \sin \phi'$	
137	34.8147	0.84821	+0.52790	Givatayim Observatory, Raanana
138	7.5717	0.67550	+0.73494	Village-Neuf
352	136.1778	0.82061	+0.56963	Konan
712	255.1189	0.77837	+0.62625	USAF Academy Observatory, Colorado Springs
762	274.2008	0.70885	+0.70304	Four Winds Observatory, Lake Leelanau
956	356.1908	0.76224	+0.64530	Observatorio Pozuelo

CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Mag.	Obs.
1993 ST ₃	* 1993 09 18.32934	00 37 34.40	−07 04 35.2	<i>MPC</i> 22639	15.5	675	
1993 ST ₃	1993 09 22.33854	00 34 10.97	−07 11 14.3	<i>MPC</i> 22639	15.5	675	
1995 UU ₆	* 1995 10 19.53691	02 25 54.06	+24 22 19.7	<i>MPC</i> 25792	18.8 R	568	
1995 UU ₆	1995 10 19.53902	02 25 53.94	+24 22 19.4	<i>MPC</i> 25792	18.8 R	568	
1995 UU ₆	1995 10 19.54170	02 25 53.77	+24 22 19.4	<i>MPC</i> 25792	18.8 R	568	
1995 UU ₆	1995 10 19.54471	02 25 53.59	+24 22 19.1	<i>MPC</i> 25792	18.8 R	568	
1995 UU ₆	1995 10 19.61955	02 25 49.02	+24 22 13.4	<i>MPC</i> 25792	19.2 R	568	
1995 UU ₆	1995 10 19.62196	02 25 48.87	+24 22 13.2	<i>MPC</i> 25792	19.2 R	568	
(3200)	1995 10 19.59512	03 41 17.73	+41 54 40.3	<i>MPC</i> 26491	17.6 R	568	
(5537)	1995 10 19.53691	02 26 00.58	+24 22 42.7	<i>MPC</i> 25792	15.8 R	568	
(5537)	1995 10 19.53902	02 26 00.43	+24 22 42.8	<i>MPC</i> 25792	15.8 R	568	
(5537)	1995 10 19.54170	02 26 00.24	+24 22 42.4	<i>MPC</i> 25792	15.8 R	568	
(5537)	1995 10 19.54471	02 26 00.04	+24 22 42.1	<i>MPC</i> 25792	15.8 R	568	
(5537)	1995 10 19.61955	02 25 55.12	+24 22 36.8	<i>MPC</i> 25792	15.7 R	568	
(5537)	1995 10 19.62196	02 25 54.95	+24 22 36.5	<i>MPC</i> 25792	15.7 R	568	

IDENTIFICATION CHANGE

Continuation to *MPC* 29965.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Obs.
1989 WT ₇	* 1989 11 25.91027	03 03 14.52	+12 48 58.6	1989 WY ₄		494

NUMBERING OF A PERIODIC COMET

Continuation to the list on *MPC* 29698.

131P/1990 R1 = 1997 M2 (Mueller 2)

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

006	Fabra Observatory, Barcelona. 0.38-m <i>f</i> /11 Mailhat astrograph. Observers J. M. Codina, J. Nuñez and N. Torras. Measured by N. Torras, O. Fors and J. Nuñez.
046	Kleť. 0.57-m <i>f</i> /5.2 reflector + CCD. Observers J. Tichá, M. Tichý and Z. Moravec.
084	Pulkovo. 0.34-m <i>f</i> /10 normal astrograph. Observer N. M. Bronnikova.
089	Nikolaev. 0.12-m <i>f</i> /2 astrograph. Observers G. Gorel and L. Gudkova.
104	San Marcello Pistoise. 0.40-m <i>f</i> /5 reflector. Observers L. Tesi, G. Cattani and A. Boattini. Measurers L. Tesi, G. Forti and A. Boattini.
118	Modra. 0.6-m <i>f</i> /5.5 reflector + CCD. Observers Š. Gajdoš, A. Galád, D. Kalmančok, P. Kolény, L. Kornoš and A. Pravda.
249	SOHO. SOHO-LASCO coronagraph C3. Observers S. Stezelberger, D. Lewis, D. Biesecker, B. McCarty and C. St. Cyr. Reduction by G. V. Williams.
327	Xinglong. 0.60-m Schmidt + CCD. Observers J. Zhu, Y. J. Chen and X. Y. Li. Measured by C. M. Ma, J. Zhu and X. Y. Li.
352	Konan. 0.25-m <i>f</i> /6 reflector + CCD. Observer M. Hotta.
355	Hadano. 0.28-m <i>f</i> /5.0 reflector + CCD. Observer A. Asami.

360	Kuma Kogen. 0.60-m <i>f</i> /6.0 Ritchey-Chrétien + CCD. Observer A. Nakamura.						
372	Geisei. 0.60-m <i>f</i> /3.5 reflector. Observer T. Seki.						
402	Dynic Astronomical Observatory. 0.60-m <i>f</i> /4.0 reflector + CCD. Observer A. Sugie.						
422	Loomberah. 0.25-m <i>f</i> /4.1 reflector + CCD. Observer G. J. Garradd.						
424	Macquarie. 0.32-m <i>f</i> /4.8 reflector + CCD. Observer J. B. Child.						
540	Linz. 0.3-m <i>f</i> /5.2 Schmidt-Cassegrain + CCD. Observer E. Meyer.						
563	Seewalchen. 0.25-m <i>f</i> /6.0 reflector. Observer M. Bressler.						
568	Mauna Kea. 3.6-m Canada-France-Hawaii Telescope + CCD, 2.2-m University of Hawaii reflector + CCD. Observers C. Veillet, O. R. Hainaut and C. Delahodde.						
587	Sormano. 0.5-m reflector + CCD. Observers F. Manca and P. Sicoli.						
605	Marl. 0.2-m <i>f</i> /10 Schmidt-Cassegrain + CCD. Observer E. Jung.						
610	Pianoro. 0.25-m <i>f</i> /4 Schmidt-Cassegrain. Observer V. Goretti.						
616	Brno. 0.4-m <i>f</i> /4.4 reflector + CCD. Observers D. Hanžl. Measured by F. Hroch.						
621	Bergisch Gladbach. 0.60-m reflector + CCD. Observer W. Bickel.						
675	Palomar. 1.2-m Schmidt and 0.46-m Schmidt. Observers C. Brewer, D. J. Chadwick, H. E. Holt, D. H. Levy, J. Mueller, C. M. Olmstead, P. Jedicke, C. S. Shoemaker, E. M. Shoemaker, N. G. Thomas and D. K. Williams. Measured by B. L. Cummings and B. A. Skiff.						
689	U.S. Naval Observatory, Flagstaff Station. Observer A. K. B. Monet. 0.20-m transit telescope + CCD.						
691	Kitt Peak. 0.91-m Spacewatch telescope. Observers T. Gehrels, J. V. Scotti and J. Montani.						
762	Four Winds. 0.3-m <i>f</i> /3.3 reflector + CCD. Observer R. Elliott.						
809	European Southern Observatory. 1.5-m and 2.2-m reflectors + CCD. Observers H. Bönnhardt, H. Rauer, R. M. West, L. Jorda, G. Schwehm, N. Thomas, R. Schulz, G.-P. Tozzi, G. Cremonese and K. Rembor. Measured by J. Sanner and O. R. Hainaut.						
861	Barão Geraldo. 0.20-m <i>f</i> /6.3 Schmidt-Cassegrain + CCD. Observer P. R. Holvorcem.						
867	Saji Observatory. 1.03-m <i>f</i> /4.8 reflector + CCD. Observers M. Yamanishi, A. Miyamoto, M. Aimoto and T. Oribe.						
900	Moriyama. 0.25-m <i>f</i> /6.3 reflector + CCD. Observer Y. Ikari.						
954	Teide Observatory. 0.82-m <i>f</i> /11.3 reflector + CCD. Observers J. Licandro, A. Oscoz, P. Santos and M. Serra. Measured by R. Casas.						
958	Dax. 0.20-m <i>f</i> /10 Schmidt-Cassegrain + CCD. Observers P. Dupouy and J.-F. Lahitte.						
970	Chelmsford. 0.30-m <i>f</i> /5.25 reflector + CCD. Observer N. D. James.						
Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N	Obs.
C/1991 Y1 (Zanotta-Brewington)							
C/1991 Y1	1992 01 13.678485	22 11 55.800	+07 23 23.82				084
C/1995 O1 (Hale-Bopp)							
C/1995 O1	1997 02 26.12869	21 06 57.26	+31 06 52.6				089
C/1995 O1	1997 02 26.13632	21 06 59.52	+31 07 13.2				089
C/1995 O1	1997 02 26.14394	21 07 01.82	+31 07 33.6				089
C/1995 O1	1997 02 28.12913	21 17 15.34	+32 37 28.9				089
C/1995 O1	1997 02 28.13709	21 17 17.85	+32 37 50.0				089
C/1995 O1	1997 02 28.14401	21 17 20.09	+32 38 09.5				089

C/1995 O1	1997 03 03.12028	21 34 07.94	+34 53 50.0	089
C/1995 O1	1997 03 03.13002	21 34 11.53	+34 54 17.9	089
C/1995 O1	1997 03 05.12008	21 46 29.86	+36 24 22.6	089
C/1995 O1	1997 03 05.13497	21 46 35.57	+36 25 03.1	089
C/1995 O1	1997 03 05.14208	21 46 38.43	+36 25 21.7	089
C/1995 O1	1997 03 12.11124	22 37 23.64	+41 18 18.3	089
C/1995 O1	1997 03 12.11835	22 37 27.17	+41 18 34.3	089
C/1995 O1	1997 03 12.12683	22 37 31.31	+41 18 53.1	089
C/1995 O1	1997 03 25.73176	00 46 37.95	+45 49 49.1	089
C/1995 O1	1997 03 26.10559	00 50 24.30	+45 48 50.1	089
C/1995 O1	1997 04 10.75164	03 05 01.97	+39 26 43.6	089
C/1995 O1	1997 04 10.75715	03 05 04.18	+39 26 30.5	089
C/1995 O1	1997 04 12.74840	03 17 55.70	+38 08 45.2	089
C/1995 O1	1997 04 12.75627	03 17 58.60	+38 08 26.0	089
C/1995 O1	1997 04 25.76440	04 22 08.05	+29 21 16.4	089
C/1995 O1	1997 04 25.77248	04 22 09.95	+29 20 57.7	089
C/1995 O1	1997 04 26.76218	04 25 56.82	+28 42 08.4	089
C/1995 O1	1997 04 26.77044	04 25 58.70	+28 41 48.5	089
C/1995 O1	1997 04 30.76116	04 40 05.61	+26 09 24.5	089
C/1995 O1	1997 04 30.76920	04 40 07.17	+26 09 06.7	089
C/1995 O1	1997 07 14.82676	06 59 30.03	-06 39 27.9	422
C/1995 O1	1997 07 14.82721	06 59 30.01	-06 39 29.2	422
C/1995 O1	1997 07 14.82766	06 59 30.04	-06 39 29.8	422

C/1996 D1 (SOHO)

C/1996 D1	1996 02 18.14961	22 30 48.7	-13 40 37	249
Geocentric position (AU)	+0.00523904	+0.00699370	+0.00266825	
C/1996 D1	1996 02 18.19411	22 30 10.1	-13 36 15	249
Geocentric position (AU)	+0.00524627	+0.00698700	+0.00266414	
C/1996 D1	1996 02 18.23861	22 29 36.1	-13 30 51	249
Geocentric position (AU)	+0.00525350	+0.00698029	+0.00266003	
C/1996 D1	1996 02 18.28319	22 28 55.2	-13 26 47	249
Geocentric position (AU)	+0.00526192	+0.00697243	+0.00265522	
C/1996 D1	1996 02 18.32763	22 28 27.6	-13 20 40	249
Geocentric position (AU)	+0.00526914	+0.00696569	+0.00265110	
C/1996 D1	1996 02 18.37206	22 27 55.5	-13 16 38	249
Geocentric position (AU)	+0.00527755	+0.00695780	+0.00264628	
C/1996 D1	1996 02 18.41426	22 27 19.3	-13 10 47	249
Geocentric position (AU)	+0.00528475	+0.00695103	+0.00264215	
C/1996 D1	1996 02 18.45870	22 26 44.9	-13 06 20	249
Geocentric position (AU)	+0.00529195	+0.00694424	+0.00263801	
C/1996 D1	1996 02 18.50315	22 26 06.7	-13 01 40	249
Geocentric position (AU)	+0.00529915	+0.00693743	+0.00263386	
C/1996 D1	1996 02 18.54773	22 25 31.6	-12 55 26	249
Geocentric position (AU)	+0.00530754	+0.00692948	+0.00262902	
C/1996 D1	1996 02 18.59225	22 24 45.1	-12 51 26	249
Geocentric position (AU)	+0.00531472	+0.00692264	+0.00262486	

C/1996 F2 (SOHO)

C/1996 F2	1996 03 23.98061	00 44 04.4	-00 18 38	249
Geocentric position (AU)	+0.00825830	+0.00163755	+0.00144262	
C/1996 F2	1996 03 24.01260	00 43 46.6	-00 17 15	249
Geocentric position (AU)	+0.00825691	+0.00164739	+0.00144642	

C/1996 F2	1996 03 24.05395	00 43 22.3	-00 12 45	249
Geocentric position (AU)	+0.00825522	+0.00165919	+0.00145097	
C/1996 F2	1996 03 24.09664	00 42 48.3	-00 10 13	249
Geocentric position (AU)	+0.00825352	+0.00167099	+0.00145552	
C/1996 F2	1996 03 24.13708	00 42 27.1	-00 07 33	249
Geocentric position (AU)	+0.00825180	+0.00168278	+0.00146006	
C/1996 F2	1996 03 24.17733	00 42 00.1	-00 05 20	249
Geocentric position (AU)	+0.00825008	+0.00169456	+0.00146460	
C/1996 F2	1996 03 24.21874	00 41 30.4	-00 01 41	249
Geocentric position (AU)	+0.00824863	+0.00170438	+0.00146838	
C/1996 F2	1996 03 24.26145	00 41 05.6	+00 01 25	249
Geocentric position (AU)	+0.00824658	+0.00171811	+0.00147366	
C/1996 F2	1996 03 24.30411	00 40 38.7	+00 03 40	249
Geocentric position (AU)	+0.00824482	+0.00172987	+0.00147819	
C/1996 F2	1996 03 24.34682	00 40 07.3	+00 06 53	249
Geocentric position (AU)	+0.00824304	+0.00174163	+0.00148271	
C/1996 F2	1996 03 24.38954	00 39 37.3	+00 09 22	249
Geocentric position (AU)	+0.00824124	+0.00175338	+0.00148722	
C/1996 F2	1996 03 24.43175	00 39 05.9	+00 12 36	249
Geocentric position (AU)	+0.00823944	+0.00176512	+0.00149173	
C/1996 F2	1996 03 24.47447	00 38 37.7	+00 16 20	249
Geocentric position (AU)	+0.00823762	+0.00177686	+0.00149623	
C/1996 F2	1996 03 24.51720	00 38 05.7	+00 19 35	249
Geocentric position (AU)	+0.00823579	+0.00178859	+0.00150073	
C/1996 F2	1996 03 24.56003	00 37 35.2	+00 23 00	249
Geocentric position (AU)	+0.00823363	+0.00180226	+0.00150598	
C/1996 F2	1996 03 24.59975	00 37 03.7	+00 25 23	249
Geocentric position (AU)	+0.00823208	+0.00181203	+0.00150972	
C/1996 F2	1996 03 24.64285	00 36 32.1	+00 28 19	249
Geocentric position (AU)	+0.00822990	+0.00182569	+0.00151495	
C/1996 F2	1996 03 24.68514	00 35 59.2	+00 32 46	249
Geocentric position (AU)	+0.00822802	+0.00183739	+0.00151943	
C/1996 F2	1996 03 24.72545	00 35 25.0	+00 35 53	249
Geocentric position (AU)	+0.00822643	+0.00184713	+0.00152316	
C/1996 F2	1996 03 24.93039	00 32 34.7	+00 51 48	249
Geocentric position (AU)	+0.00821677	+0.00190551	+0.00154545	
C/1996 F2	1996 03 24.94764	00 32 14.4	+00 53 26	249
Geocentric position (AU)	+0.00821611	+0.00190939	+0.00154694	
C/1996 F2	1996 03 25.13016	00 29 21.4	+01 09 27	249
Geocentric position (AU)	+0.00820712	+0.00196176	+0.00156688	
C/1996 F2	1996 03 25.21772	00 27 47.8	+01 17 41	249
Geocentric position (AU)	+0.00820305	+0.00198499	+0.00157571	
C/1996 F2	1996 03 25.30528	00 26 06.5	+01 26 09	249
Geocentric position (AU)	+0.00819858	+0.00201013	+0.00158526	
C/1996 F2	1996 03 25.41515	00 23 48.9	+01 38 25	249
Geocentric position (AU)	+0.00819300	+0.00204101	+0.00159698	

C/1996 J1 (Evans-Drinkwater)

C/1996 J1-A	1997 06 23.73241	02 23 23.82	+33 02 35.8	14.3 T	402
C/1996 J1-B	1997 06 23.73241	02 23 32.04	+33 02 51.8	14.5 T	402
C/1996 J1-A	1997 06 23.73588	02 23 24.16	+33 02 37.7		402
C/1996 J1-B	1997 06 23.73588	02 23 32.31	+33 02 53.5		402
C/1996 J1-A	1997 06 23.73935	02 23 24.55	+33 02 39.3		402

C/1996 J1-B	1997 06 23.73935	02 23 32.62	+33 02 55.3		402
C/1996 J1-B	1997 07 03.04785	02 35 23.61	+34 21 32.9	15.9 T	118
C/1996 J1-B	1997 07 03.05111	02 35 23.86	+34 21 35.0	16.0 T	118
C/1996 J1-B	1997 07 03.75660	02 36 14.66	+34 27 17.6		867
C/1996 J1-A	1997 07 03.76274	02 36 06.20	+34 27 07.6		867
C/1996 J1-B	1997 07 03.76274	02 36 15.15	+34 27 20.8		867
C/1996 J1-A	1997 07 03.76760	02 36 06.59	+34 27 10.3		867
C/1996 J1-B	1997 07 03.76760	02 36 15.49	+34 27 22.8		867
C/1996 J1-B	1997 07 04.71029	02 37 22.57	+34 34 56.2		355
C/1996 J1-B	1997 07 04.71172	02 37 22.61	+34 34 56.7	15.4 T	355
C/1996 J1-B	1997 07 04.71307	02 37 22.77	+34 34 58.1		355
C/1996 J1-A	1997 07 04.75697	02 37 16.97	+34 35 08.4		867
C/1996 J1-B	1997 07 04.75697	02 37 25.86	+34 35 19.9		867
C/1996 J1-A	1997 07 04.76565	02 37 17.50	+34 35 12.3		867
C/1996 J1-B	1997 07 04.76565	02 37 26.48	+34 35 23.8		867
C/1996 J1-A	1997 07 05.77830	02 38 28.63	+34 43 16.1	15.9 T	360
C/1996 J1-B	1997 07 05.77830	02 38 37.55	+34 43 27.8	14.7 T	360
C/1996 J1-A	1997 07 05.78021	02 38 28.78	+34 43 16.3		1 360
C/1996 J1-B	1997 07 05.78021	02 38 37.70	+34 43 28.9		1 360

C/1996 Q1 (Tabur)

C/1996 Q1	1996 10 04.02708	07 55 23.12	+41 46 30.2		006
C/1996 Q1	1996 10 04.03056	07 55 26.42	+41 46 57.6		006
C/1996 Q1	1996 10 04.03872	07 55 33.32	+41 48 17.6		006
C/1996 Q1	1996 10 04.05486	07 55 48.69	+41 50 43.0		006
C/1996 Q1	1996 10 04.05972	07 55 53.51	+41 51 27.4		006
C/1996 Q1	1996 10 16.16372	12 25 18.20	+54 53 27.2		006
C/1996 Q1	1996 10 16.17396	12 25 30.23	+54 53 05.6		006
C/1996 Q1	1996 10 16.17743	12 25 34.51	+54 52 53.4		006
C/1996 Q1	1996 10 16.18238	12 25 40.19	+54 52 43.6		006
C/1996 Q1	1996 10 16.18638	12 25 45.01	+54 52 33.5		006
C/1996 Q1	1996 10 16.18916	12 25 48.36	+54 52 30.9		006
C/1996 Q1	1996 10 18.17535	13 01 29.09	+53 17 16.4		006
C/1996 Q1	1996 10 18.17899	13 01 32.54	+53 17 06.0		006
C/1996 Q1	1996 10 18.18802	13 01 41.38	+53 16 39.1		006
C/1996 Q1	1996 10 18.19497	13 01 48.62	+53 16 18.3		006
C/1996 Q1	1996 10 18.19938	13 01 52.42	+53 16 04.1		006

C/1997 D1 (Mueller)

C/1997 D1	1997 04 12.55294	09 31 28.18	+52 27 24.2	13.8 T	352
C/1997 D1	1997 04 12.55547	09 31 27.61	+52 27 22.8		352
C/1997 D1	1997 04 13.59252	09 28 25.14	+52 15 17.4		352
C/1997 D1	1997 04 25.59607	08 59 19.36	+49 34 11.2		352
C/1997 D1	1997 04 25.59789	08 59 19.16	+49 34 09.4		352

C/1997 G2 (Montani)

C/1997 G2	1997 06 07.04931	15 07 16.26	-12 37 40.9	18.0 T	809
C/1997 G2	1997 06 07.06250	15 07 15.43	-12 37 44.9		809
C/1997 G2	1997 06 07.07569	15 07 14.64	-12 37 50.0		809
C/1997 G2	1997 06 08.05417	15 06 15.65	-12 44 03.8		809
C/1997 G2	1997 06 08.06736	15 06 14.92	-12 44 08.1		809
C/1997 G2	1997 06 08.08056	15 06 14.09	-12 44 13.5		809
C/1997 G2	1997 06 08.86424	15 05 27.21	-12 49 17.8		104
C/1997 G2	1997 06 08.86806	15 05 26.97	-12 49 19.0		104

C/1997 G2	1997 06 08.87222	15 05 26.74	-12 49 20.5		104
C/1997 G2	1997 06 23.60171	14 52 07.82	-14 27 33.6	18.3 T	402
C/1997 G2	1997 06 23.60518	14 52 07.69	-14 27 36.4		402
C/1997 G2	1997 06 23.60866	14 52 07.53	-14 27 36.4		402
C/1997 G2	1997 06 27.91241	14 48 49.11	-14 57 42.6		2 118
C/1997 G2	1997 06 27.91838	14 48 48.88	-14 57 45.5		2 118
C/1997 G2	1997 06 27.92207	14 48 48.73	-14 57 46.7	18.0 T	2 118
C/1997 G2	1997 06 29.57034	14 47 37.34	-15 09 28.7	17.6 T	402
C/1997 G2	1997 06 29.57311	14 47 37.21	-15 09 30.8		402
C/1997 G2	1997 06 29.57589	14 47 37.11	-15 09 30.9		402
C/1997 G2	1997 06 29.57743	14 47 37.04	-15 09 31.8	16.8 T	360
C/1997 G2	1997 06 29.57745	14 47 37.21	-15 09 32.1	17.8 T	867
C/1997 G2	1997 06 29.58160	14 47 36.90	-15 09 33.8		360
C/1997 G2	1997 06 29.58475	14 47 36.91	-15 09 35.0		867

C/1997 J1 (Mueller)

C/1997 J1	1997 05 09.65480	10 41 55.07	+73 12 54.5		352
C/1997 J1	1997 05 09.65550	10 41 54.95	+73 12 53.5		352
C/1997 J1	1997 05 09.65619	10 41 54.61	+73 12 52.2		352
C/1997 J1	1997 05 10.54457	10 35 52.64	+72 48 44.2		352
C/1997 J1	1997 05 10.54516	10 35 52.46	+72 48 43.4		352
C/1997 J1	1997 05 10.54576	10 35 52.30	+72 48 42.5		352
C/1997 J1	1997 05 17.56571	10 00 19.63	+69 26 50.1		352
C/1997 J1	1997 05 17.56665	10 00 19.16	+69 26 47.7		352
C/1997 J1	1997 05 17.56807	10 00 18.98	+69 26 45.5		352
C/1997 J1	1997 05 20.57039	09 50 04.54	+67 58 54.1		352
C/1997 J1	1997 05 20.57094	09 50 04.40	+67 58 53.1		352
C/1997 J1	1997 05 20.57148	09 50 04.36	+67 58 52.6		352
C/1997 J1	1997 06 07.90390	09 19 58.72	+59 45 56.6		616
C/1997 J1	1997 06 07.90831	09 19 58.59	+59 45 51.1		616
C/1997 J1	1997 06 12.53904	09 17 11.84	+57 57 44.7		352
C/1997 J1	1997 06 12.54112	09 17 11.76	+57 57 41.2		352
C/1997 J1	1997 06 12.54321	09 17 11.75	+57 57 38.9		352
C/1997 J1	1997 06 23.13435	09 14 18.05	+54 15 00.6		762
C/1997 J1	1997 06 23.15241	09 14 18.01	+54 14 38.8		762
C/1997 J1	1997 06 23.50005	09 14 15.74	+54 07 54.1	13.9 T	900
C/1997 J1	1997 06 23.50899	09 14 15.69	+54 07 43.8		900
C/1997 J1	1997 06 23.51468	09 14 15.64	+54 07 36.0		352
C/1997 J1	1997 06 23.51745	09 14 15.65	+54 07 33.7		352
C/1997 J1	1997 06 23.52023	09 14 15.62	+54 07 30.3		352
C/1997 J1	1997 06 23.55690	09 14 15.43	+54 06 46.9	13.2 T	402
C/1997 J1	1997 06 23.55898	09 14 15.40	+54 06 44.7		402
C/1997 J1	1997 06 23.56107	09 14 15.40	+54 06 42.1		402
C/1997 J1	1997 06 23.88160	09 14 13.67	+54 00 30.4		118
C/1997 J1	1997 06 23.88968	09 14 13.69	+54 00 20.6	14.0 T	118
C/1997 J1	1997 06 24.50704	09 14 10.79	+53 48 29.6		355
C/1997 J1	1997 06 24.51387	09 14 10.68	+53 48 22.1		355
C/1997 J1	1997 06 26.19089	09 14 05.76	+53 16 40.4		762
C/1997 J1	1997 06 26.20625	09 14 05.68	+53 16 22.8		762
C/1997 J1	1997 06 26.21031	09 14 05.65	+53 16 19.6		762
C/1997 J1	1997 06 29.49303	09 14 06.28	+52 16 26.7	13.9 T	900
C/1997 J1	1997 06 29.49752	09 14 06.26	+52 16 22.2		900
C/1997 J1	1997 06 29.49878	09 14 06.19	+52 16 20.7	13.6 T	360

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C/1997 J1	1997 06 29.50156	09 14 06.18	+52 16 17.6		360
C/1997 J1	1997 07 04.53147	09 14 30.00	+50 49 43.8	13.2 T	402
C/1997 J1	1997 07 04.53355	09 14 29.97	+50 49 41.5		402
C/1997 J1	1997 07 04.53564	09 14 30.03	+50 49 40.1		402
C/1997 J1	1997 07 09.87645	09 15 18.68	+49 24 10.6		118
C/1997 J1	1997 07 09.88115	09 15 18.69	+49 24 06.6	14.7 T	118
C/1997 J1	1997 07 09.88659	09 15 18.76	+49 24 01.2		118

C/1997 J2 (Meunier-Dupouy)

C/1997 J2	1997 05 17.57304	10 48 28.31	+73 25 04.8		352
C/1997 J2	1997 05 17.57359	10 48 28.39	+73 25 04.5		352
C/1997 J2	1997 05 17.57412	10 48 28.50	+73 25 04.9		352
C/1997 J2	1997 05 20.54690	10 47 40.72	+73 14 43.0		352
C/1997 J2	1997 05 20.54744	10 47 40.73	+73 14 42.8		352
C/1997 J2	1997 05 20.54797	10 47 40.79	+73 14 43.2		352
C/1997 J2	1997 05 28.02224	10 47 35.03	+72 46 03.1		958
C/1997 J2	1997 05 28.03318	10 47 35.16	+72 45 59.6		958
C/1997 J2	1997 05 31.00918	10 48 15.99	+72 33 47.3		958
C/1997 J2	1997 05 31.04647	10 48 16.56	+72 33 38.1		958
C/1997 J2	1997 05 31.90003	10 48 32.93	+72 30 04.8	13.4 T	605
C/1997 J2	1997 05 31.91782	10 48 33.11	+72 29 59.9	13.5 T	605
C/1997 J2	1997 05 31.92733	10 48 33.34	+72 29 56.4	13.4 T	605
C/1997 J2	1997 06 03.90211	10 49 45.01	+72 17 20.3		958
C/1997 J2	1997 06 03.96830	10 49 46.67	+72 17 02.5		958
C/1997 J2	1997 06 07.02679	10 51 23.97	+72 03 42.6	14.1 T	958
C/1997 J2	1997 06 07.05727	10 51 24.97	+72 03 35.0	14.1 T	958
C/1997 J2	1997 06 07.07426	10 51 25.58	+72 03 30.5	14.0 T	958
C/1997 J2	1997 06 07.91760	10 51 56.81	+71 59 45.6		616
C/1997 J2	1997 06 07.91972	10 51 56.81	+71 59 45.1		616
C/1997 J2	1997 06 07.92168	10 51 56.95	+71 59 43.5		616
C/1997 J2	1997 06 07.95282	10 51 57.88	+71 59 37.4		970
C/1997 J2	1997 06 07.95664	10 51 58.18	+71 59 37.1		970
C/1997 J2	1997 06 07.98449	10 51 59.15	+71 59 28.7		970
C/1997 J2	1997 06 07.99160	10 51 59.36	+71 59 28.0		970
C/1997 J2	1997 06 08.00542	10 51 59.91	+71 59 23.2		970
C/1997 J2	1997 06 08.01015	10 52 00.12	+71 59 21.9		970
C/1997 J2	1997 06 12.55585	10 55 16.78	+71 39 05.3		352
C/1997 J2	1997 06 12.55793	10 55 16.89	+71 39 04.3		352
C/1997 J2	1997 06 12.56001	10 55 17.03	+71 39 04.6		352
C/1997 J2	1997 06 16.89190	10 59 07.68	+71 19 25.7		958
C/1997 J2	1997 06 20.60178	11 02 56.42	+71 02 23.6		355
C/1997 J2	1997 06 20.60716	11 02 56.69	+71 02 21.5		355
C/1997 J2	1997 06 20.88617	11 03 15.02	+71 01 05.2	12.6 T	540
C/1997 J2	1997 06 20.89130	11 03 15.40	+71 01 04.0		540
C/1997 J2	1997 06 20.89640	11 03 15.75	+71 01 02.9		540
C/1997 J2	1997 06 23.15800	11 05 49.90	+70 50 36.4		762
C/1997 J2	1997 06 23.17079	11 05 50.67	+70 50 32.9		762
C/1997 J2	1997 06 23.52468	11 06 15.87	+70 48 54.8	13.0 T	900
C/1997 J2	1997 06 23.52745	11 06 16.09	+70 48 53.7	13.3 T	867
C/1997 J2	1997 06 23.53085	11 06 16.40	+70 48 52.7		352
C/1997 J2	1997 06 23.53362	11 06 16.64	+70 48 52.0		352
C/1997 J2	1997 06 23.53370	11 06 16.63	+70 48 52.1		867
C/1997 J2	1997 06 23.53388	11 06 16.51	+70 48 52.1		900

C/1997 J2	1997 06 23.53640	11 06 16.76	+70 48 51.2		352
C/1997 J2	1997 06 23.56889	11 06 18.99	+70 48 41.7	13.0 T	402
C/1997 J2	1997 06 23.57097	11 06 19.12	+70 48 41.0		402
C/1997 J2	1997 06 23.57306	11 06 19.27	+70 48 40.4		402
C/1997 J2	1997 06 23.96514	11 06 47.62	+70 46 51.0		118
C/1997 J2	1997 06 23.97249	11 06 48.10	+70 46 48.8	12.8 T	118
C/1997 J2	1997 06 24.52448	11 07 27.79	+70 44 16.3		355
C/1997 J2	1997 06 24.52990	11 07 28.36	+70 44 14.7		355
C/1997 J2	1997 06 24.53046	11 07 28.33	+70 44 14.4	12.6 T	3 402
C/1997 J2	1997 06 24.53463	11 07 28.65	+70 44 13.1		3 402
C/1997 J2	1997 06 26.15660	11 09 29.65	+70 36 40.1		762
C/1997 J2	1997 06 26.16983	11 09 30.58	+70 36 35.6		762
C/1997 J2	1997 06 26.89506	11 10 26.33	+70 33 13.2		118
C/1997 J2	1997 06 26.90725	11 10 27.19	+70 33 09.4		118
C/1997 J2	1997 06 29.50590	11 13 54.63	+70 21 01.2	13.1 T	360
C/1997 J2	1997 06 29.50851	11 13 54.83	+70 21 00.2		360
C/1997 J2	1997 06 29.51596	11 13 55.45	+70 20 58.2	12.9 T	900
C/1997 J2	1997 06 29.52515	11 13 56.15	+70 20 55.2		900
C/1997 J2	1997 06 29.53597	11 13 57.07	+70 20 52.1	12.9 T	402
C/1997 J2	1997 06 29.53806	11 13 57.24	+70 20 51.5		402
C/1997 J2	1997 06 29.54014	11 13 57.42	+70 20 50.9		402
C/1997 J2	1997 06 29.55413	11 13 58.57	+70 20 46.7		352
C/1997 J2	1997 06 29.55876	11 13 58.90	+70 20 46.0	12.6 T	352
C/1997 J2	1997 06 29.96321	11 14 32.52	+70 18 50.5		118
C/1997 J2	1997 06 29.96598	11 14 32.77	+70 18 49.5		118
C/1997 J2	1997 06 29.96795	11 14 32.90	+70 18 49.0	12.6 T	118
C/1997 J2	1997 07 05.52784	11 22 41.44	+69 52 36.9	12.9 T	355
C/1997 J2	1997 07 05.52976	11 22 41.58	+69 52 36.3		355
C/1997 J2	1997 07 05.53069	11 22 41.65	+69 52 36.1		355
C/1997 J2	1997 07 06.52565	11 24 14.67	+69 47 52.8	12.9 T	402
C/1997 J2	1997 07 06.52773	11 24 14.87	+69 47 52.2		402
C/1997 J2	1997 07 06.52981	11 24 15.03	+69 47 51.5		402

C/1997 L1 (Xinglong)

C/1997 L1	1997 06 09.99107	15 28 31.02	-05 32 04.3		621
C/1997 L1	1997 06 09.99476	15 28 30.92	-05 32 02.3		621
C/1997 L1	1997 06 09.99846	15 28 30.72	-05 32 00.7		621
C/1997 L1	1997 06 10.96124	15 28 01.45	-05 23 32.7		621
C/1997 L1	1997 06 10.96494	15 28 01.39	-05 23 30.3		621
C/1997 L1	1997 06 10.96862	15 28 01.23	-05 23 27.7		621
C/1997 L1	1997 06 23.53034	15 22 29.51	-03 42 49.2	17.2 T	402
C/1997 L1	1997 06 23.53381	15 22 29.44	-03 42 47.4		402
C/1997 L1	1997 06 23.53728	15 22 29.36	-03 42 45.6		402
C/1997 L1	1997 06 24.90701	15 21 59.38	-03 32 57.3		118
C/1997 L1	1997 06 24.91367	15 21 59.19	-03 32 54.3		118
C/1997 L1	1997 06 26.57242	15 21 24.68	-03 21 18.1	17.1 T	402
C/1997 L1	1997 06 26.57508	15 21 24.67	-03 21 18.7	17.2 T	355
C/1997 L1	1997 06 26.57520	15 21 24.63	-03 21 17.1		402
C/1997 L1	1997 06 26.57797	15 21 24.59	-03 21 15.9		402
C/1997 L1	1997 06 26.57853	15 21 24.65	-03 21 16.9		355
C/1997 L1	1997 06 26.98579	15 21 16.40	-03 18 28.3		2 118
C/1997 L1	1997 06 26.99768	15 21 16.13	-03 18 23.2		2 118
C/1997 L1	1997 06 27.86389	15 20 59.15	-03 12 30.2		104

C/1997 L1	1997 06 27.86701	15 20 59.10	-03 12 28.9		104
C/1997 L1	1997 06 27.87083	15 20 59.02	-03 12 27.5		104
C/1997 L1	1997 06 28.89490	15 20 39.79	-03 05 40.2	4	118
C/1997 L1	1997 06 28.90652	15 20 39.61	-03 05 36.0	17.6 T	4 118
C/1997 L1	1997 06 29.49450	15 20 28.63	-03 01 43.1	17.3 T	402
C/1997 L1	1997 06 29.49728	15 20 28.56	-03 01 41.2		402
C/1997 L1	1997 06 29.50006	15 20 28.50	-03 01 41.1		402
C/1997 L1	1997 06 29.55884	15 20 27.58	-03 01 19.0		900
C/1997 L1	1997 06 29.57662	15 20 27.13	-03 01 10.0		900
C/1997 L1	1997 06 29.58802	15 20 26.85	-03 01 05.4	17.3 T	360
C/1997 L1	1997 06 29.59358	15 20 26.77	-03 01 03.8		360
C/1997 L1	1997 07 01.89378	15 19 47.12	-02 46 24.4		118
C/1997 L1	1997 07 01.90084	15 19 47.00	-02 46 21.5		118
C/1997 L1	1997 07 01.90476	15 19 46.89	-02 46 20.4	18.3 T	118
C/1997 L1	1997 07 03.54747	15 19 20.97	-02 36 14.4		360
C/1997 L1	1997 07 04.55021	15 19 06.11	-02 30 15.1	17.3 T	402
C/1997 L1	1997 07 04.55368	15 19 06.08	-02 30 13.8		402
C/1997 L1	1997 07 04.55715	15 19 06.00	-02 30 13.4		402
C/1997 L1	1997 07 05.26741	15 18 55.81	-02 26 01.5	21.0 N	691
C/1997 L1	1997 07 05.27136	15 18 55.77	-02 26 00.3	17.7 T	691
C/1997 L1	1997 07 05.59184	15 18 51.46	-02 24 08.7	17.6 T	360
C/1997 L1	1997 07 05.59792	15 18 51.39	-02 24 07.1		360
C/1997 L1	1997 07 06.55580	15 18 38.64	-02 18 37.5	17.0 T	402
C/1997 L1	1997 07 06.55878	15 18 38.60	-02 18 36.9		402
C/1997 L1	1997 07 06.56176	15 18 38.59	-02 18 35.9		402
C/1997 L1	1997 07 07.54831	15 18 26.19	-02 13 02.3		327
C/1997 L1	1997 07 07.55319	15 18 26.13	-02 13 00.2	18.8 T	327
C/1997 L1	1997 07 07.55787	15 18 26.07	-02 12 59.1		327
C/1997 L1	1997 07 08.89323	15 18 10.51	-02 05 41.6		587
C/1997 L1	1997 07 08.92500	15 18 10.02	-02 05 29.7		587
C/1997 L1	1997 07 09.91005	15 17 59.42	-02 00 13.9	18.3 T	118
C/1997 L1	1997 07 09.91987	15 17 59.29	-02 00 10.6		118

C/1997 L2 (SOHO)

C/1997 L2	1997 06 10.5917	05 15 05.0	+23 48 20		249
Geocentric position (AU)	+0.00313215	+0.01032373	+0.00349755		
C/1997 L2	1997 06 10.6264	05 15 33.5	+23 59 50		249
Geocentric position (AU)	+0.00313056	+0.01032381	+0.00349784		
C/1997 L2	1997 06 10.7250	05 16 22.1	+24 15 15		249
Geocentric position (AU)	+0.00312611	+0.01032400	+0.00349865		
C/1997 L2	1997 06 10.7424	05 16 34.7	+24 20 37		249
Geocentric position (AU)	+0.00312516	+0.01032404	+0.00349882		
C/1997 L2	1997 06 10.78272	05 17 11.5	+24 30 31		249
Geocentric position (AU)	+0.00312325	+0.01032412	+0.00349917		
C/1997 L2	1997 06 10.82922	05 17 37.8	+24 41 58		249
Geocentric position (AU)	+0.00312134	+0.01032420	+0.00349952		
C/1997 L2	1997 06 10.8549	05 17 55.4	+24 51 31		249
Geocentric position (AU)	+0.00312007	+0.01032425	+0.00349975		
C/1997 L2	1997 06 10.89659	05 18 26.6	+24 59 16		249
Geocentric position (AU)	+0.00311816	+0.01032432	+0.00350010		
C/1997 L2	1997 06 10.93061	05 18 50.8	+25 06 58		249
Geocentric position (AU)	+0.00311657	+0.01032438	+0.00350039		

C/1997 L2	1997 06 10.97166	05 19 15.9	+25 14 31		249
Geocentric position (AU)	+0.00311466	+0.01032444	+0.00350074		
C/1997 L2	1997 06 10.99520	05 19 29.5	+25 18 59		249
Geocentric position (AU)	+0.00311371	+0.01032448	+0.00350091		
C/1997 L2	1997 06 11.07328	05 20 19.5	+25 30 12		249
Geocentric position (AU)	+0.00310989	+0.01032460	+0.00350162		
C/1997 L2	1997 06 11.12160	05 20 48.8	+25 35 54		249
Geocentric position (AU)	+0.00310766	+0.01032467	+0.00350203		
C/1997 L2	1997 06 11.18209	05 21 23.7	+25 40 59		249
Geocentric position (AU)	+0.00310512	+0.01032474	+0.00350250		
C/1997 L2	1997 06 11.23964	05 22 02.8	+25 44 09		249
Geocentric position (AU)	+0.00310226	+0.01032482	+0.00350303		
C/1997 L2	1997 06 11.28437	05 22 20.6	+25 45 39		249
Geocentric position (AU)	+0.00310035	+0.01032487	+0.00350339		
C/1997 L2	1997 06 11.35477	05 22 57.3	+25 48 41		249
Geocentric position (AU)	+0.00309717	+0.01032495	+0.00350398		
C/1997 L2	1997 06 11.42391	05 23 23.8	+25 48 24		249
Geocentric position (AU)	+0.00309399	+0.01032502	+0.00350457		
C/1997 L2	1997 06 11.45146	05 23 43.9	+25 48 04		249
Geocentric position (AU)	+0.00309272	+0.01032505	+0.00350481		
C/1997 L2	1997 06 11.53825	05 24 19.1	+25 45 01		249
Geocentric position (AU)	+0.00308859	+0.01032513	+0.00350559		

C/1997 L3 (SOHO)

C/1997 L3	1997 06 12.52329	05 18 41.8	+19 01 09		249
Geocentric position (AU)	+0.00304382	+0.01032539	+0.00351424		
C/1997 L3	1997 06 12.63904	05 19 13.0	+19 05 20		249
Geocentric position (AU)	+0.00303843	+0.01032536	+0.00351531		
C/1997 L3	1997 06 12.68115	05 19 18.1	+19 11 13		249
Geocentric position (AU)	+0.00303653	+0.01032534	+0.00351569		
C/1997 L3	1997 06 12.72634	05 19 29.2	+19 17 01		249
Geocentric position (AU)	+0.00303431	+0.01032532	+0.00351613		
C/1997 L3	1997 06 12.77964	05 19 29.6	+19 24 37		249
Geocentric position (AU)	+0.00303209	+0.01032530	+0.00351658		
C/1997 L3	1997 06 12.82924	05 19 35.0	+19 32 17		249
Geocentric position (AU)	+0.00302987	+0.01032527	+0.00351703		
C/1997 L3	1997 06 12.89659	05 19 47.3	+19 42 52		249
Geocentric position (AU)	+0.00302670	+0.01032523	+0.00351767		
C/1997 L3	1997 06 12.93062	05 19 52.5	+19 47 45		249
Geocentric position (AU)	+0.00302511	+0.01032521	+0.00351799		
C/1997 L3	1997 06 12.97166	05 20 05.1	+19 54 47		249
Geocentric position (AU)	+0.00302321	+0.01032518	+0.00351837		
C/1997 L3	1997 06 12.99520	05 20 00.1	+19 57 10		249
Geocentric position (AU)	+0.00302226	+0.01032517	+0.00351857		
C/1997 L3	1997 06 13.01742	05 20 10.6	+20 02 20		249
Geocentric position (AU)	+0.00302099	+0.01032515	+0.00351882		
C/1997 L3	1997 06 13.07336	05 20 21.5	+20 11 13		249
Geocentric position (AU)	+0.00301845	+0.01032511	+0.00351934		
C/1997 L3	1997 06 13.12159	05 20 27.7	+20 18 42		249
Geocentric position (AU)	+0.00301623	+0.01032507	+0.00351980		
C/1997 L3	1997 06 13.19285	05 20 41.2	+20 32 36		249
Geocentric position (AU)	+0.00301306	+0.01032501	+0.00352045		

C/1997 L3	1997 06 13.23964	05 20 55.1	+20 40 32	249
Geocentric position (AU)	+0.00301084	+0.01032497	+0.00352090	
C/1997 L3	1997 06 13.28441	05 21 02.2	+20 50 05	249
Geocentric position (AU)	+0.00300894	+0.01032493	+0.00352130	
C/1997 L3	1997 06 13.35475	05 21 20.3	+21 04 05	249
Geocentric position (AU)	+0.00300577	+0.01032486	+0.00352195	
C/1997 L3	1997 06 13.42392	05 21 38.1	+21 18 55	249
Geocentric position (AU)	+0.00300260	+0.01032479	+0.00352261	
C/1997 L3	1997 06 13.44728	05 21 51.3	+21 24 12	249
Geocentric position (AU)	+0.00300165	+0.01032477	+0.00352281	
C/1997 L3	1997 06 13.51811	05 22 17.3	+21 41 19	249
Geocentric position (AU)	+0.00299816	+0.01032469	+0.00352354	
C/1997 L3	1997 06 13.56256	05 22 35.1	+21 50 36	249
Geocentric position (AU)	+0.00299626	+0.01032464	+0.00352394	
C/1997 L3	1997 06 13.58537	05 22 47.6	+21 59 41	249
Geocentric position (AU)	+0.00299531	+0.01032462	+0.00352414	
C/1997 L3	1997 06 13.62459	05 23 08.0	+22 08 45	249
Geocentric position (AU)	+0.00299341	+0.01032457	+0.00352454	
C/1997 L3	1997 06 13.63080	05 23 10.7	+22 10 40	249
Geocentric position (AU)	+0.00299309	+0.01032456	+0.00352461	

C/1997 L4 (SOHO)

C/1997 L4	1997 06 14.35475	05 28 54.2	+19 02 01	249
Geocentric position (AU)	+0.00296012	+0.01032355	+0.00353172	
C/1997 L4	1997 06 14.42397	05 29 00.5	+19 10 24	249
Geocentric position (AU)	+0.00295695	+0.01032343	+0.00353242	
C/1997 L4	1997 06 14.44731	05 29 01.6	+19 13 14	249
Geocentric position (AU)	+0.00295599	+0.01032340	+0.00353263	
C/1997 L4	1997 06 14.48756	05 29 06.6	+19 16 59	249
Geocentric position (AU)	+0.00295409	+0.01032333	+0.00353305	
C/1997 L4	1997 06 14.51811	05 29 16.0	+19 20 59	249
Geocentric position (AU)	+0.00295250	+0.01032327	+0.00353340	
C/1997 L4	1997 06 14.58686	05 29 20.8	+19 29 23	249
Geocentric position (AU)	+0.00294933	+0.01032315	+0.00353411	
C/1997 L4	1997 06 14.62159	05 29 23.2	+19 33 03	249
Geocentric position (AU)	+0.00294774	+0.01032309	+0.00353446	
C/1997 L4	1997 06 14.67222	05 29 30.0	+19 39 41	249
Geocentric position (AU)	+0.00294552	+0.01032301	+0.00353496	
C/1997 L4	1997 06 14.72229	05 29 35.9	+19 46 24	249
Geocentric position (AU)	+0.00294330	+0.01032293	+0.00353546	
C/1997 L4	1997 06 14.77437	05 29 41.2	+19 51 58	249
Geocentric position (AU)	+0.00294076	+0.01032283	+0.00353604	
C/1997 L4	1997 06 14.83175	05 29 49.4	+19 59 34	249
Geocentric position (AU)	+0.00293822	+0.01032273	+0.00353661	
C/1997 L4	1997 06 14.87005	05 29 52.9	+20 05 18	249
Geocentric position (AU)	+0.00293663	+0.01032266	+0.00353697	
C/1997 L4	1997 06 14.93072	05 30 03.0	+20 13 01	249
Geocentric position (AU)	+0.00293377	+0.01032255	+0.00353762	
C/1997 L4	1997 06 14.97167	05 30 09.4	+20 18 36	249
Geocentric position (AU)	+0.00293186	+0.01032247	+0.00353806	
C/1997 L4	1997 06 15.01742	05 30 16.9	+20 24 27	249
Geocentric position (AU)	+0.00292964	+0.01032238	+0.00353857	

C/1997 L4	1997 06 15.07325	05 30 28.0	+20 32 15	249
Geocentric position (AU)	+0.00292710	+0.01032228	+0.00353915	
C/1997 L4	1997 06 15.12160	05 30 34.1	+20 39 51	249
Geocentric position (AU)	+0.00292487	+0.01032219	+0.00353966	
C/1997 L4	1997 06 15.19596	05 30 47.6	+20 50 30	249
Geocentric position (AU)	+0.00292169	+0.01032206	+0.00354040	
C/1997 L4	1997 06 15.23965	05 30 55.3	+20 57 16	249
Geocentric position (AU)	+0.00291946	+0.01032196	+0.00354092	
C/1997 L4	1997 06 15.28441	05 31 03.1	+21 04 59	249
Geocentric position (AU)	+0.00291755	+0.01032188	+0.00354136	
C/1997 L4	1997 06 15.35477	05 31 15.0	+21 17 38	249
Geocentric position (AU)	+0.00291437	+0.01032175	+0.00354210	
C/1997 L4	1997 06 15.42390	05 31 31.6	+21 29 20	249
Geocentric position (AU)	+0.00291119	+0.01032161	+0.00354285	
C/1997 L4	1997 06 15.44729	05 31 38.6	+21 33 24	249
Geocentric position (AU)	+0.00291023	+0.01032157	+0.00354307	
C/1997 L4	1997 06 15.47922	05 31 47.1	+21 36 06	249
Geocentric position (AU)	+0.00290864	+0.01032151	+0.00354345	
C/1997 L4	1997 06 15.48756	05 31 47.0	+21 41 14	249
Geocentric position (AU)	+0.00290832	+0.01032149	+0.00354352	
C/1997 L4	1997 06 15.51811	05 31 54.8	+21 47 54	249
Geocentric position (AU)	+0.00290673	+0.01032142	+0.00354390	
C/1997 L4	1997 06 15.56256	05 32 07.2	+21 52 56	249
Geocentric position (AU)	+0.00290481	+0.01032134	+0.00354435	
C/1997 L4	1997 06 15.58687	05 32 14.3	+22 01 54	249
Geocentric position (AU)	+0.00290354	+0.01032129	+0.00354466	
C/1997 L4	1997 06 15.60424	05 32 20.2	+22 02 07	249
Geocentric position (AU)	+0.00290290	+0.01032126	+0.00354481	
C/1997 L4	1997 06 15.64521	05 32 34.4	+22 11 48	249
Geocentric position (AU)	+0.00290099	+0.01032118	+0.00354526	
C/1997 L4	1997 06 15.66090	05 32 40.6	+22 15 46	249
Geocentric position (AU)	+0.00290035	+0.01032115	+0.00354541	
C/1997 L4	1997 06 15.68604	05 32 51.0	+22 22 19	249
Geocentric position (AU)	+0.00289907	+0.01032109	+0.00354572	
C/1997 L4	1997 06 15.70951	05 33 02.7	+22 28 52	249
Geocentric position (AU)	+0.00289812	+0.01032105	+0.00354595	
C/1997 L4	1997 06 15.71213	05 33 05.8	+22 29 57	249
Geocentric position (AU)	+0.00289780	+0.01032104	+0.00354602	
C/1997 L4	1997 06 15.71473	05 33 05.1	+22 30 21	249
Geocentric position (AU)	+0.00289780	+0.01032104	+0.00354602	
C/1997 L4	1997 06 15.72993	05 33 11.1	+22 34 18	249
Geocentric position (AU)	+0.00289716	+0.01032101	+0.00354618	
C/1997 L4	1997 06 15.77090	05 33 39.5	+22 47 12	249
Geocentric position (AU)	+0.00289525	+0.01032093	+0.00354664	

C/1997 M1 (SOHO)

C/1997 M1	1997 06 29.80069	06 23 57.4	+19 24 16	249
Geocentric position (AU)	+0.00203566	+0.01032338	+0.00378115	
C/1997 M1	1997 06 29.82564	06 23 53.2	+19 29 54	249
Geocentric position (AU)	+0.00203320	+0.01032327	+0.00378170	
C/1997 M1	1997 06 29.85010	06 24 09.4	+19 34 48	249
Geocentric position (AU)	+0.00203134	+0.01032319	+0.00378212	

C/1997 M1	1997 06 29.99520	06 25 08.5	+19 54 41	249
Geocentric position (AU)	+0.00201832	+0.01032258	+0.00378500	
C/1997 M1	1997 06 30.02785	06 25 24.5	+19 59 28	249
Geocentric position (AU)	+0.00201521	+0.01032243	+0.00378568	
C/1997 M1	1997 06 30.07436	06 25 51.4	+20 06 08	249
Geocentric position (AU)	+0.00201084	+0.01032221	+0.00378664	
C/1997 M1	1997 06 30.14418	06 26 25.9	+20 17 38	249
Geocentric position (AU)	+0.00200458	+0.01032189	+0.00378801	
C/1997 M1	1997 06 30.18200	06 26 44.9	+20 24 28	249
Geocentric position (AU)	+0.00200144	+0.01032172	+0.00378869	
C/1997 M1	1997 06 30.24074	06 27 18.1	+20 35 00	249
Geocentric position (AU)	+0.00199578	+0.01032141	+0.00378992	
C/1997 M1	1997 06 30.27784	06 27 37.5	+20 40 46	249
Geocentric position (AU)	+0.00199262	+0.01032124	+0.00379060	
C/1997 M1	1997 06 30.33061	06 28 13.6	+20 50 29	249
Geocentric position (AU)	+0.00198757	+0.01032095	+0.00379169	
C/1997 M1	1997 06 30.38339	06 28 49.2	+21 00 00	249
Geocentric position (AU)	+0.00198313	+0.01032070	+0.00379265	
C/1997 M1	1997 06 30.43161	06 29 15.1	+21 08 40	249
Geocentric position (AU)	+0.00197869	+0.01032044	+0.00379360	
C/1997 M1	1997 06 30.48131	06 29 57.3	+21 20 33	249
Geocentric position (AU)	+0.00197423	+0.01032017	+0.00379455	
C/1997 M1	1997 06 30.52785	06 30 20.3	+21 27 07	249
Geocentric position (AU)	+0.00196976	+0.01031989	+0.00379550	
C/1997 M1	1997 06 30.58547	06 31 03.9	+21 40 46	249
Geocentric position (AU)	+0.00196465	+0.01031957	+0.00379659	

C/1997 N1 (Tabur)

C/1997 N1	1997 07 03.79386	04 55 31.04	-26 40 15.2	422
C/1997 N1	1997 07 03.79570	04 55 31.79	-26 40 13.9	422
C/1997 N1	1997 07 03.79695	04 55 32.34	-26 40 12.0	422
C/1997 N1	1997 07 03.79820	04 55 32.92	-26 40 11.0	422
C/1997 N1	1997 07 03.80794	04 55 37.20	-26 39 59.4	422
C/1997 N1	1997 07 03.81078	04 55 38.40	-26 39 56.2	422
C/1997 N1	1997 07 03.81361	04 55 39.68	-26 39 52.4	422
C/1997 N1	1997 07 03.82903	04 55 46.41	-26 39 35.3	424
C/1997 N1	1997 07 03.83101	04 55 47.10	-26 39 35.0	424
C/1997 N1	1997 07 03.83319	04 55 48.17	-26 39 30.2	424
C/1997 N1	1997 07 03.83633	04 55 49.47	-26 39 27.8	424
C/1997 N1	1997 07 03.84062	04 55 51.28	-26 39 23.3	424
C/1997 N1	1997 07 03.84321	04 55 52.55	-26 39 18.9	424
C/1997 N1	1997 07 03.84498	04 55 53.38	-26 39 16.7	424
C/1997 N1	1997 07 03.84645	04 55 53.93	-26 39 16.4	424
C/1997 N1	1997 07 04.33101	04 59 27.00	-26 29 44.3	12.5 T 861
C/1997 N1	1997 07 04.33606	04 59 29.32	-26 29 38.0	13.0 T 861
C/1997 N1	1997 07 04.33852	04 59 30.32	-26 29 34.0	12.7 T 861
C/1997 N1	1997 07 04.81720	05 03 01.83	-26 19 43.6	424
C/1997 N1	1997 07 04.81895	05 03 02.55	-26 19 40.3	424
C/1997 N1	1997 07 04.82095	05 03 03.56	-26 19 37.1	424
C/1997 N1	1997 07 04.82256	05 03 04.16	-26 19 36.9	424
C/1997 N1	1997 07 04.82439	05 03 05.01	-26 19 33.6	424
C/1997 N1	1997 07 04.82815	05 03 06.68	-26 19 28.5	424
C/1997 N1	1997 07 04.84203	05 03 12.83	-26 19 10.9	424

C/1997 N1	1997 07 05.79969	05 10 18.94	-25 58 19.0	422
C/1997 N1	1997 07 05.80046	05 10 19.24	-25 58 17.9	422
C/1997 N1	1997 07 05.80610	05 10 21.80	-25 58 10.3	422
C/1997 N1	1997 07 05.82001	05 10 27.95	-25 57 51.6	422
C/1997 N1	1997 07 06.80865	05 17 51.18	-25 34 39.5	422
C/1997 N1	1997 07 06.81028	05 17 51.88	-25 34 37.2	422
C/1997 N1	1997 07 06.81191	05 17 52.65	-25 34 34.6	422
C/1997 N1	1997 07 09.33769	05 36 57.50	-24 27 28.2	861
C/1997 N1	1997 07 09.34394	05 37 00.41	-24 27 16.2	861
C/1997 N1	1997 07 09.35190	05 37 03.93	-24 27 03.4	861
C/1997 N1	1997 07 09.36212	05 37 08.65	-24 26 45.1	12.2 T 861
C/1997 N1	1997 07 09.37187	05 37 13.14	-24 26 29.0	861
C/1997 N1	1997 07 14.82069	06 18 41.09	-21 22 30.5	422
C/1997 N1	1997 07 14.82125	06 18 41.33	-21 22 29.2	422
C/1997 N1	1997 07 14.82181	06 18 41.60	-21 22 27.8	422
C/1997 N1	1997 07 14.82237	06 18 41.82	-21 22 26.5	422
C/1997 N1	1997 07 14.82292	06 18 42.08	-21 22 25.5	422

2P/Encke

2P	1997 06 23.35825	06 56 18.43	-10 09 01.5	422
2P	1997 06 24.36108	07 00 38.17	-12 43 36.7	422
2P	1997 06 24.36333	07 00 38.98	-12 43 55.0	422
2P	1997 06 24.36598	07 00 39.52	-12 44 24.1	422
2P	1997 06 24.36814	07 00 40.12	-12 44 44.1	422
2P	1997 06 26.36977	07 10 55.53	-18 35 35.0	422
2P	1997 06 27.36107	07 17 01.72	-21 52 01.5	422
2P	1997 06 27.36304	07 17 02.47	-21 52 28.3	422
2P	1997 06 27.36401	07 17 02.98	-21 52 39.6	422
2P	1997 06 27.36498	07 17 03.36	-21 52 50.7	422
2P	1997 06 27.36787	07 17 04.26	-21 53 28.1	422
2P	1997 06 27.37009	07 17 05.20	-21 53 52.9	422
2P	1997 06 28.37284	07 24 09.44	-25 28 51.4	422
2P	1997 06 28.37381	07 24 09.69	-25 29 06.2	422
2P	1997 06 28.37480	07 24 10.24	-25 29 16.8	422
2P	1997 06 28.37675	07 24 10.98	-25 29 42.9	422
2P	1997 07 01.37394	07 52 56.18	-37 43 06.0	422
2P	1997 07 01.37492	07 52 56.93	-37 43 21.4	422
2P	1997 07 01.37588	07 52 57.66	-37 43 35.6	422
2P	1997 07 01.37686	07 52 58.39	-37 43 51.3	422
2P	1997 07 01.37783	07 52 58.99	-37 44 05.9	422
2P	1997 07 01.37972	07 53 00.44	-37 44 35.9	422
2P	1997 07 04.38877	08 41 42.54	-51 12 00.3	422
2P	1997 07 04.39405	08 41 49.34	-51 13 22.3	422
2P	1997 07 04.39835	08 41 54.96	-51 14 28.9	422
2P	1997 07 04.39894	08 41 55.54	-51 14 37.5	422
2P	1997 07 05.46386	09 07 12.63	-55 44 17.1	422
2P	1997 07 07.39894	10 08 37.64	-62 36 16.1	16.6 N 422
2P	1997 07 07.40002	10 08 39.96	-62 36 26.9	16.6 N 422
2P	1997 07 07.40336	10 08 47.39	-62 37 01.8	16.6 N 422
2P	1997 07 07.40422	10 08 49.38	-62 37 09.7	16.8 N 422
2P	1997 07 07.40671	10 08 54.86	-62 37 35.3	16.3 N 422
2P	1997 07 07.40768	10 08 57.09	-62 37 46.4	16.4 N 422
2P	1997 07 07.40844	10 08 58.72	-62 37 53.4	16.7 N 422

2P	1997 07 10.46930	12 22 16.32	−67 37 06.7	16.1 N	422
2P	1997 07 10.47019	12 22 18.73	−67 37 08.0	15.9 N	422
2P	1997 07 10.47090	12 22 20.58	−67 37 08.8		1 422
2P	1997 07 10.47202	12 22 23.62	−67 37 09.0	16.3 N	422
2P	1997 07 10.47293	12 22 26.26	−67 37 09.5		1 422
2P	1997 07 14.43849	14 44 46.63	−64 21 48.9	16.0 N	422
2P	1997 07 14.43962	14 44 48.34	−64 21 42.7	16.2 N	422
2P	1997 07 14.44032	14 44 49.31	−64 21 39.2	16.0 N	422
2P	1997 07 14.44099	14 44 50.32	−64 21 35.3	16.0 N	422
2P	1997 07 14.44463	14 44 55.72	−64 21 15.9	16.0 N	422

19P/Borrelly

19P	1997 06 24.93660	15 28 13.41	−07 20 59.6		954
19P	1997 06 24.94766	15 28 13.11	−07 21 00.6		954
19P	1997 06 24.95870	15 28 12.82	−07 21 01.6		954
19P	1997 06 24.96987	15 28 12.52	−07 21 02.5		954
19P	1997 06 24.98098	15 28 12.22	−07 21 03.5		954
19P	1997 06 24.98926	15 28 12.00	−07 21 04.2		954

29P/Schwassmann-Wachmann 1

29P	1997 07 04.17177	11 45 42.97	−06 44 37.0	19.8 N	691
29P	1997 07 06.16886	11 46 27.06	−06 47 45.4	20.6 N	691
29P	1997 07 07.16736	11 46 49.78	−06 49 24.7	20.1 N	691

32P/Comas Solá

32P	1997 06 25.87977	13 27 53.92	−02 45 55.1		5 118
32P	1997 06 25.88616	13 27 53.96	−02 45 57.1	18.7 T	5 118

46P/Wirtanen

46P	1996 04 25.32565	21 39 40.75	−21 51 32.7		6 809
46P	1996 04 25.39656	21 39 44.66	−21 51 26.7		809
46P	1996 04 25.40295	21 39 45.04	−21 51 26.1		809
46P	1996 04 25.41105	21 39 45.45	−21 51 25.2		809
46P	1996 05 11.36053	21 53 49.00	−21 36 11.3		809
46P	1996 05 11.37615	21 53 49.71	−21 36 11.2		809
46P	1996 05 11.39499	21 53 50.62	−21 36 11.0		809
46P	1996 05 11.40913	21 53 51.27	−21 36 11.0		809
46P	1996 05 12.34536	21 54 36.33	−21 35 55.3		809
46P	1996 05 12.36465	21 54 37.26	−21 35 55.3		809
46P	1996 05 12.38350	21 54 38.14	−21 35 55.0		809
46P	1996 05 12.40464	21 54 39.13	−21 35 54.8		809
46P	1996 05 13.37818	21 55 25.35	−21 35 44.4		809
46P	1996 05 13.39896	21 55 26.29	−21 35 44.4		809
46P	1996 05 13.41781	21 55 27.16	−21 35 44.4		809
46P	1996 05 13.43259	21 55 27.84	−21 35 44.5		809
46P	1996 06 18.33933	22 14 49.18	−22 47 43.2		809
46P	1996 06 18.36295	22 14 49.48	−22 47 49.0		809
46P	1996 06 18.39245	22 14 49.78	−22 47 56.9		809
46P	1996 06 19.22751	22 15 01.32	−22 51 49.7		809
46P	1996 06 19.25245	22 15 01.63	−22 51 56.8		809
46P	1996 06 19.29183	22 15 02.04	−22 52 08.1		809
46P	1996 07 09.33385	22 14 37.76	−24 59 54.3		809
46P	1996 07 09.37569	22 14 37.00	−25 00 14.5		809
46P	1996 07 10.25951	22 14 21.75	−25 07 23.0		809

46P	1996 07 10.31492	22 14 20.64	−25 07 50.3		809
46P	1996 07 11.25862	22 14 02.79	−25 15 37.3		809
46P	1996 07 11.37807	22 14 00.14	−25 16 37.1		809
46P	1996 07 12.41808	22 13 38.31	−25 25 21.6		809
46P	1996 07 12.43214	22 13 37.98	−25 25 28.6		809
46P	1996 08 18.25537	21 41 29.66	−31 20 52.5		809
46P	1996 08 18.33118	21 41 23.57	−31 21 32.1		809
46P	1996 08 19.16632	21 40 19.61	−31 28 48.1		809
46P	1996 08 19.34435	21 40 05.54	−31 30 18.0		809
46P	1996 08 20.11632	21 39 06.02	−31 36 52.3		809
46P	1996 08 20.38910	21 38 44.43	−31 39 07.7		809
46P	1996 08 21.16860	21 37 44.09	−31 45 36.5		809
46P	1996 08 21.36027	21 37 28.69	−31 47 09.7		809
46P	1996 08 22.21036	21 36 22.35	−31 54 03.3		809
46P	1996 08 22.34455	21 36 11.53	−31 55 06.1		809
46P	1996 08 23.19181	21 35 05.25	−32 01 47.0		809
46P	1996 08 23.36453	21 34 51.30	−32 03 05.4		809
46P	1996 09 10.14542	21 12 29.83	−33 39 51.5		809
46P	1996 09 10.23646	21 12 23.55	−33 40 07.0		809
46P	1996 09 11.18389	21 11 20.68	−33 42 45.3		809
46P	1996 09 11.24194	21 11 16.72	−33 42 53.8		809
46P	1996 09 12.04870	21 10 24.77	−33 44 55.7		809
46P	1996 09 12.25161	21 10 11.26	−33 45 23.9		809
46P	1996 09 13.05764	21 09 20.34	−33 47 12.3		809
46P	1996 09 13.16921	21 09 13.36	−33 47 26.2		809
46P	1996 09 14.06319	21 08 18.14	−33 49 10.4		809
46P	1996 09 14.25943	21 08 06.02	−33 49 29.3		809
46P	1996 09 15.10382	21 07 15.55	−33 50 54.0		809
46P	1996 09 15.29292	21 07 04.27	−33 51 08.5		809
46P	1996 09 16.07014	21 06 19.51	−33 52 13.8		809
46P	1996 09 16.25993	21 06 08.37	−33 52 26.3		809
46P	1996 09 17.24519	21 05 13.23	−33 53 28.5		809
46P	1996 10 02.07595	20 55 36.80	−33 38 50.3		809
46P	1996 10 02.18881	20 55 34.14	−33 38 30.7		809
46P	1996 10 03.07362	20 55 16.46	−33 36 00.3		809
46P	1996 10 03.16907	20 55 14.44	−33 35 42.3		809
46P	1996 10 03.18998	20 55 14.01	−33 35 38.3		809
46P	1996 10 04.10897	20 54 57.83	−33 32 49.9		809
46P	1996 11 01.04544	21 02 52.88	−30 55 16.3		809
46P	1996 11 02.05186	21 03 42.75	−30 47 20.4		809
46P	1996 11 02.13186	21 03 46.68	−30 46 40.8		809
46P	1996 11 03.01883	21 04 32.73	−30 39 35.1		809
46P	1996 11 04.06167	21 05 28.54	−30 31 04.0		809
46P	1996 11 04.12869	21 05 32.11	−30 30 30.1		809
46P	1996 11 05.03216	21 06 22.60	−30 23 00.6		809
46P	1996 11 05.13804	21 06 28.45	−30 22 05.6		809
46P	1996 12 06.04833	21 49 39.06	−24 49 58.9		809
46P	1996 12 06.10481	21 49 44.94	−24 49 14.0		809
46P	1996 12 07.09022	21 51 31.76	−24 36 01.5		809
46P	1996 12 08.03009	21 53 14.77	−24 23 16.7		809
46P	1996 12 08.08487	21 53 20.82	−24 22 31.3		809
46P	1996 12 09.06873	21 55 09.92	−24 08 59.2		809

46P	1996 12 10.08198	21 57 03.68	-23 54 50.8		809
46P	1996 12 11.06714	21 58 55.53	-23 40 55.7		809
46P	1997 06 27.85329	09 40 41.84	+23 04 29.6	2	118
46P	1997 06 27.87110	09 40 44.84	+23 04 09.5	16.6 T 2	118

48P/Johnson

48P	1997 06 25.03303	19 36 45.88	-16 39 38.9		954
48P	1997 06 25.04133	19 36 45.60	-16 39 42.4		954
48P	1997 06 25.04963	19 36 45.33	-16 39 45.9		954
48P	1997 06 25.05795	19 36 45.05	-16 39 49.4		954
48P	1997 06 25.09578	19 36 43.78	-16 40 05.4		954
48P	1997 06 25.09713	19 36 43.50	-16 40 08.9		954
48P	1997 06 25.11234	19 36 43.22	-16 40 12.4		954
48P	1997 06 25.12071	19 36 42.94	-16 40 15.9		954
48P	1997 06 26.95240	19 35 43.81	-16 53 16.1		118
48P	1997 06 26.96020	19 35 43.53	-16 53 19.8	17.0 T	118
48P	1997 06 29.63690	19 34 10.77	-17 13 05.3	16.8 T	402
48P	1997 06 29.64037	19 34 10.65	-17 13 06.9		402
48P	1997 06 29.64384	19 34 10.52	-17 13 08.5		402
48P	1997 06 29.65365	19 34 10.18	-17 13 12.9	15.6 T	360
48P	1997 06 29.65955	19 34 09.93	-17 13 15.3		360
48P	1997 07 03.97203	19 31 26.72	-17 46 51.7		954
48P	1997 07 03.98036	19 31 26.37	-17 46 55.8		954
48P	1997 07 03.99019	19 31 25.95	-17 47 00.6		954
48P	1997 07 03.99847	19 31 25.62	-17 47 04.7		954
48P	1997 07 04.64451	19 30 59.71	-17 52 17.6	16.1 T	402
48P	1997 07 04.65493	19 30 59.26	-17 52 22.0		402
48P	1997 07 04.66187	19 30 58.97	-17 52 25.9		402
48P	1997 07 05.63507	19 30 19.73	-18 00 20.7	15.4 T	360
48P	1997 07 05.63924	19 30 19.57	-18 00 23.0		360
48P	1997 07 08.61391	19 28 16.06	-18 25 03.5		327
48P	1997 07 08.63199	19 28 15.09	-18 25 14.6	15.5 T	327
48P	1997 07 09.94580	19 27 19.41	-18 36 22.3	15.8 T	046
48P	1997 07 09.94822	19 27 19.29	-18 36 23.6		046
48P	1997 07 09.95209	19 27 19.12	-18 36 25.5		046

49P/Arend-Rigaux

49P	1997 06 28.56661	22 46 04.84	-16 30 44.0	19.8 T	568
49P	1997 06 28.59112	22 46 04.91	-16 30 50.7		568
49P	1997 06 29.56872	22 46 09.63	-16 35 20.0		568
49P	1997 06 29.58591	22 46 09.71	-16 35 24.6		568

55P/Tempel-Tuttle

55P	1996 05 12.09294	13 38 41.72	+00 16 22.2	23.5 N	809
55P	1996 05 12.11580	13 38 40.79	+00 16 27.5	23.4 N	809
55P	1996 05 12.13955	13 38 39.77	+00 16 33.2	24.2 N	809
55P	1997 06 18.30963	11 36 32.60	+17 21 54.0	21.8 N	568
55P	1997 06 18.31785	11 36 32.37	+17 21 53.2	21.8 N	568

61P/Shajn-Schaldach

61P	1993 10 13.22622	00 32 44.96	-01 22 30.8	17.5 T	675
61P	1993 10 13.26198	00 32 43.85	-01 22 43.8	7	675

65P/Gunn

65P	1991 10 17.37326	03 13 19.65	+12 02 36.7	18.5 T	675
65P	1997 06 11.19785	00 32 48.22	-07 22 22.9		954
65P	1997 06 11.20130	00 32 48.39	-07 22 22.1		954
65P	1997 06 11.20475	00 32 48.59	-07 22 21.4		954
65P	1997 06 11.21052	00 32 48.90	-07 22 20.3		954
65P	1997 06 11.21567	00 32 49.15	-07 22 19.1		954

81P/Wild 2

81P	1997 03 27.13576	08 07 00.61	+21 55 00.7	11.1 T	689
81P	1997 03 27.54787	08 07 33.94	+21 54 23.3	10.6 T	352
81P	1997 04 12.49255	08 33 57.00	+21 04 35.1		352
81P	1997 04 12.49508	08 33 57.21	+21 04 34.2		352
81P	1997 04 13.57890	08 36 02.38	+20 59 14.6		352
81P	1997 04 19.54705	08 48 04.86	+20 25 19.8		352
81P	1997 04 29.55333	09 10 00.68	+19 11 16.2		352
81P	1997 04 29.55707	09 10 01.19	+19 11 14.1		352
81P	1997 06 24.86891	11 30 03.18	+06 47 15.2		118
81P	1997 06 24.87655	11 30 04.35	+06 47 07.4	12.2 T	118
81P	1997 06 29.51389	11 41 41.01	+05 31 27.4	12.0 T	360
81P	1997 06 29.51667	11 41 41.42	+05 31 24.8		360
81P	1997 07 06.51077	11 59 04.51	+03 36 24.1		900
81P	1997 07 06.51822	11 59 05.65	+03 36 16.0		900

94P/Russell 4

94P	1997 04 25.62475	11 56 56.80	+09 35 57.2		352
94P	1997 04 25.62656	11 56 56.73	+09 35 56.7		352
94P	1997 07 03.50347	12 37 38.19	+00 23 32.8	18.0 T	360
94P	1997 07 03.50868	12 37 38.53	+00 23 29.8		360
94P	1997 07 05.18455	12 39 33.81	+00 06 03.3	21.8 N	691
94P	1997 07 05.18879	12 39 34.11	+00 06 00.5	18.8 T	691

100P/Hartley 1

100P	1997 05 04.86284	12 49 19.98	+06 22 12.3	15.5 T	563
100P	1997 05 04.87295	12 49 19.37	+06 22 00.2	15.4 T	563
100P	1997 05 04.89056	12 49 18.25	+06 21 31.7	15.2 T	563
100P	1997 05 04.90652	12 49 17.26	+06 21 08.7	15.3 T	563
100P	1997 06 29.52917	12 56 03.76	-15 04 56.2	16.3 T	360
100P	1997 06 29.53316	12 56 03.99	-15 05 01.3		360

103P/Hartley 2

103P	1997 06 25.92829	19 47 00.59	+00 19 35.7		118
103P	1997 06 25.93490	19 47 00.25	+00 19 38.2	18.5 T	118
103P	1997 06 26.75123	19 46 19.82	+00 25 26.8	18.2 T	402
103P	1997 06 26.75401	19 46 19.66	+00 25 28.4		402
103P	1997 06 27.98670	19 45 16.95	+00 34 01.0		118
103P	1997 06 28.00757	19 45 15.82	+00 34 09.6		118
103P	1997 06 28.01104	19 45 15.61	+00 34 10.6	18.0 T	118
103P	1997 06 29.67640	19 43 46.31	+00 45 26.0	17.4 T	402
103P	1997 06 29.67987	19 43 46.14	+00 45 27.3		402
103P	1997 06 29.68335	19 43 45.97	+00 45 29.0		402
103P	1997 06 29.72170	19 43 43.79	+00 45 44.8	17.0 T	360
103P	1997 06 29.73351	19 43 43.12	+00 45 49.4		360
103P	1997 07 03.62450	19 39 56.51	+01 10 24.2	17.6 T	402

1997 JULY 20

M.P.C. 30127

103P	1997 07 03.62797	19 39 56.26	+01 10 25.9		402
103P	1997 07 03.63145	19 39 56.03	+01 10 27.1		402
103P	1997 07 04.00356	19 39 33.18	+01 12 41.5		954
103P	1997 07 04.01189	19 39 32.63	+01 12 44.5		954
103P	1997 07 04.02089	19 39 32.07	+01 12 47.4		954
103P	1997 07 04.02922	19 39 31.51	+01 12 50.7		954
103P	1997 07 04.04083	19 39 30.78	+01 12 54.8		954
103P	1997 07 04.04637	19 39 30.40	+01 12 56.9		954
103P	1997 07 04.72086	19 38 47.97	+01 16 52.7	17.2 T	867
103P	1997 07 04.72745	19 38 47.54	+01 16 54.5		867
103P	1997 07 06.62052	19 36 45.63	+01 27 34.0	17.9 T	402
103P	1997 07 06.62399	19 36 45.40	+01 27 35.2		402
103P	1997 07 06.62747	19 36 45.13	+01 27 36.4		402
103P	1997 07 09.90942	19 33 01.54	+01 44 23.4	18.3 T	046
103P	1997 07 09.92653	19 33 00.35	+01 44 28.2		046
103P	1997 07 09.92955	19 33 00.12	+01 44 29.2		046

104P/Kowal 2

104P	1997 06 29.73160	22 57 16.10	+13 33 47.1	17.6 T	402
104P	1997 06 29.73507	22 57 16.14	+13 33 48.5		402
104P	1997 06 29.73854	22 57 16.24	+13 33 50.2		402
104P	1997 06 29.74167	22 57 16.29	+13 33 52.7	18.2 T	360
104P	1997 06 29.75052	22 57 16.53	+13 33 58.4		360
104P	1997 07 03.69825	22 58 41.46	+14 13 48.6	17.0 T	402
104P	1997 07 03.70172	22 58 41.48	+14 13 50.0		402
104P	1997 07 03.70520	22 58 41.57	+14 13 52.3		402
104P	1997 07 04.73995	22 59 00.91	+14 24 10.9		867
104P	1997 07 04.74898	22 59 01.02	+14 24 16.0	17.1 T	867
104P	1997 07 05.74531	22 59 18.76	+14 34 11.0	17.8 T	360
104P	1997 07 05.74948	22 59 18.81	+14 34 13.6		360

116P/Wild 4

116P	1997 06 24.97950	19 46 51.91	-26 51 26.2		118
116P	1997 06 24.98495	19 46 51.60	-26 51 27.0		118
116P	1997 06 24.99839	19 46 50.89	-26 51 28.8	16.1 T	118
116P	1997 06 26.00028	19 45 59.72	-26 54 13.8		118
116P	1997 06 26.00609	19 45 59.43	-26 54 14.5		118
116P	1997 06 26.00899	19 45 59.24	-26 54 15.4	16.4 T	118
116P	1997 06 26.60617	19 45 28.51	-26 55 51.8	15.2 T	402
116P	1997 06 26.60895	19 45 28.33	-26 55 52.2		402
116P	1997 06 26.61172	19 45 28.22	-26 55 52.9		402
116P	1997 06 28.96222	19 43 23.92	-27 02 08.9		118
116P	1997 06 28.96549	19 43 23.72	-27 02 09.7		118
116P	1997 06 28.96843	19 43 23.65	-27 02 10.0	15.6 T	118
116P	1997 06 29.63521	19 42 47.67	-27 03 53.5	15.3 T	352
116P	1997 06 29.63984	19 42 47.40	-27 03 54.1		352
116P	1997 06 29.65858	19 42 46.38	-27 03 57.1	14.9 T	402
116P	1997 06 29.66205	19 42 46.19	-27 03 57.5		402
116P	1997 06 29.66552	19 42 45.96	-27 03 58.1		402
116P	1997 06 29.70972	19 42 43.51	-27 04 05.3	13.8 T	360
116P	1997 06 29.71424	19 42 43.27	-27 04 05.9		360
116P	1997 07 03.63836	19 39 06.91	-27 13 48.4	15.0 T	402
116P	1997 07 03.64044	19 39 06.81	-27 13 48.8		402

116P	1997 07 03.64252	19 39 06.67	-27 13 49.0		402
116P	1997 07 04.69776	19 38 07.11	-27 16 16.6	16.0 T	900
116P	1997 07 04.70707	19 38 06.60	-27 16 17.7		900
116P	1997 07 05.64462	19 37 13.73	-27 18 25.6	13.7 T	360
116P	1997 07 05.64878	19 37 13.48	-27 18 26.1		360
116P	1997 07 05.65503	19 37 13.12	-27 18 27.1		360
116P	1997 07 06.64212	19 36 17.11	-27 20 37.5	14.6 T	402
116P	1997 07 06.64420	19 36 16.97	-27 20 37.8		402
116P	1997 07 06.64628	19 36 16.85	-27 20 38.2		402
116P	1997 07 06.99688	19 35 56.95	-27 21 23.5	15.0 T	610
116P	1997 07 07.00107	19 35 56.72	-27 21 24.0		610
116P	1997 07 07.00523	19 35 56.48	-27 21 24.5		610
116P	1997 07 07.00940	19 35 56.24	-27 21 25.0		610
116P	1997 07 07.01357	19 35 56.01	-27 21 25.5		610
116P	1997 07 07.99201	19 35 00.26	-27 23 28.9		610
116P	1997 07 07.99688	19 35 00.00	-27 23 29.9		610
116P	1997 07 08.00174	19 34 59.74	-27 23 30.8		610
116P	1997 07 08.99458	19 34 03.08	-27 25 32.2		610
116P	1997 07 09.00151	19 34 02.69	-27 25 33.3		610
116P	1997 07 09.00499	19 34 02.49	-27 25 33.9		610
116P	1997 07 11.96178	19 31 13.84	-27 31 09.6	15.4 T	046
116P	1997 07 11.96612	19 31 13.62	-27 31 10.3		046
116P	1997 07 11.96814	19 31 13.48	-27 31 10.4		046

117P/Helin-Roman-Alu 1

117P	1997 06 26.68103	21 05 47.06	-26 34 46.5	16.9 T	402
117P	1997 06 26.68450	21 05 46.92	-26 34 47.5		402
117P	1997 06 26.68797	21 05 46.85	-26 34 48.2		402
117P	1997 07 03.65252	21 03 17.85	-27 05 32.5	17.1 T	402
117P	1997 07 03.65600	21 03 17.77	-27 05 33.1		402
117P	1997 07 03.65947	21 03 17.69	-27 05 34.2		402
117P	1997 07 04.68240	21 02 51.89	-27 10 09.9	17.4 T	402
117P	1997 07 04.68587	21 02 51.80	-27 10 10.8		402
117P	1997 07 04.68934	21 02 51.70	-27 10 11.9		402
117P	1997 07 05.72083	21 02 24.69	-27 14 50.8	16.9 T	360
117P	1997 07 05.72569	21 02 24.56	-27 14 52.2		360
117P	1997 07 13.01795	20 58 48.76	-27 47 40.5	17.5 T	046
117P	1997 07 13.01971	20 58 48.65	-27 47 41.5		046
117P	1997 07 13.02454	20 58 48.51	-27 47 42.5		046

121P/Shoemaker-Holt 2

121P	1997 04 12.52047	10 17 02.52	+32 05 59.8	15.5 T	352
121P	1997 04 12.52300	10 17 02.59	+32 05 58.7		352
121P	1997 04 25.56554	10 19 40.08	+30 59 51.4		352
121P	1997 04 25.56807	10 19 40.23	+30 59 51.8		352
121P	1997 07 03.48819	11 15 46.76	+21 37 34.4	17.5 T	360
121P	1997 07 03.49722	11 15 47.37	+21 37 28.7		360

131P/Mueller 2

131P	1997 06 29.75005	00 46 50.91	+10 37 10.7	18.9 T	402
131P	1997 06 29.75421	00 46 51.18	+10 37 12.3		402
131P	1997 06 29.75838	00 46 51.47	+10 37 12.7		402
131P	1997 07 03.72449	00 51 30.61	+11 05 54.2	18.6 T	8 402
131P	1997 07 03.73683	00 51 31.47	+11 05 59.4		8 402

131P	1997 07 03.76723	00 51 33.45	+11 06 12.7		8	402
131P	1997 07 05.76076	00 53 50.53	+11 20 08.9	19.5 T		372
131P	1997 07 05.76997	00 53 51.20	+11 20 13.4	19.9 T	9	360
131P	1997 07 05.77361	00 53 51.40	+11 20 14.6		9	360
131P	1997 07 05.78924	00 53 52.43	+11 20 21.2		9	360
131P	1997 07 06.74274	00 54 57.14	+11 26 52.6	19.0 T		402
131P	1997 07 06.74641	00 54 57.39	+11 26 54.8			402
131P	1997 07 06.75009	00 54 57.62	+11 26 55.8			402

Note 1: involved with star. 2: bad seeing. 3: poor sky. 4: poor image.
5: measurement difficult. 6: correction to *MPC* 26953. 7: involved with flaw.
8: trailed image. 9: faint image.

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.
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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

1993 SN ₁	1993 10 15.95625	00 32 53.91	−03 58 07.5	18.3	010
1993 SN ₁	1993 10 15.96667	00 32 53.51	−03 58 12.2		010
1993 SN ₁	1993 10 15.97743	00 32 53.08	−03 58 16.8		010
1993 SQ ₁	1993 10 15.95625	00 32 31.76	−01 44 11.1	18.3	010
1993 SQ ₁	1993 10 15.96667	00 32 31.20	−01 44 10.4		010
1993 SQ ₁	1993 10 15.97743	00 32 30.65	−01 44 09.4		010
1993 SV ₃	1993 10 15.95625	00 18 16.49	−00 24 24.7	18.4	010
1993 SV ₃	1993 10 15.96667	00 18 15.67	−00 24 16.9		010
1993 SV ₃	1993 10 15.97743	00 18 14.72	−00 24 08.6		010
1997 LN	1993 07 23.00208	20 07 24.26	−13 15 14.2	18.4	010
1997 LN	1993 07 23.01285	20 07 23.67	−13 15 17.6		010
1997 LN	1993 07 23.02332	20 07 23.08	−13 15 20.6		010

012 Uccle

T. Pauwels, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium [Thierry.Pauwels@oma.be]

0.85-m *f*/2.5 Schmidt + CCD

GSC 1.2, Tycho

1989 SZ ₂	1997 07 10.00353	21 18 25.25	−00 46 18.4	17.9 V	012
1989 SZ ₂	1997 07 10.01847	21 18 24.84	−00 46 19.1	18.0 V	012
1989 SZ ₂	1997 07 10.03318	21 18 24.46	−00 46 19.8	17.6 V	012
1989 SZ ₂	1997 07 10.05551	21 18 23.98	−00 46 20.6	17.2 V	012
1997 LG ₄	1997 06 03.99045	16 40 48.99	+02 20 10.1	18.7 V	012
1997 LG ₄	1997 06 04.00216	16 40 48.40	+02 20 11.0	19.4 V	012
1997 LG ₄	1997 06 04.02933	16 40 47.01	+02 20 11.3	19.7 V	012

033 Tautenburg

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

1.3-m Schmidt telescope

PPM

1988 JP	1992 04 02.09792	13 46 22.89	+30 44 09.5	18.9	033
1988 JP	1992 04 02.12708	13 46 21.06	+30 44 18.5		033
1990 TV ₁₂	1991 12 12.99306	06 24 42.57	+07 40 30.2	19.0	033
1990 TV ₁₂	1992 01 07.87847	06 10 18.21	+06 54 19.0		033
1995 EK	1995 03 23.92153	11 14 17.44	+10 21 44.4	18.8	033
1995 EK	1995 03 23.96458	11 14 14.83	+10 21 42.7		033

046 Kleť

J. Tichá, Hvězdárna Kleť, Zátokovo 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

1997 JULY 20

M.P.C. 30129

1952 QW	1997 07 12.89644	19 20 45.84	-21 47 18.9	15.5 V	046	1996 BJ	1997 07 08.94785	20 03 48.19	-20 08 01.8	18.7 V	046
1952 QW	1997 07 12.90137	19 20 45.50	-21 47 20.9		046	1996 BJ	1997 07 08.94983	20 03 48.06	-20 08 02.1		046
1952 QW	1997 07 12.90321	19 20 45.37	-21 47 21.7		046	1996 BJ	1997 07 08.95193	20 03 47.92	-20 08 02.5		046
1952 QW	1997 07 13.96068	19 19 33.48	-21 54 02.9	15.8 V	046	1996 DW ₁	1997 07 08.88455	16 50 20.17	-26 16 23.8	17.1 V	046
1952 QW	1997 07 13.96340	19 19 33.29	-21 54 03.8		046	1996 DW ₁	1997 07 08.88851	16 50 20.05	-26 16 23.8		046
1952 QW	1997 07 13.96508	19 19 33.18	-21 54 04.4		046	1996 DW ₁	1997 07 08.89125	16 50 19.95	-26 16 23.7		046
1977 QQ ₅	1997 07 14.02431	00 41 57.59	-03 36 54.5	17.5 V	046	1996 DW ₁	1997 07 09.88029	16 49 42.95	-26 15 48.9	17.3 V	046
1977 QQ ₅	1997 07 14.02693	00 41 58.18	-03 36 56.6		046	1996 DW ₁	1997 07 09.88230	16 49 42.90	-26 15 48.6		046
1977 QQ ₅	1997 07 14.02889	00 41 58.63	-03 36 58.4		046	1996 DW ₁	1997 07 09.88434	16 49 42.82	-26 15 48.7		046
1982 CE	1997 07 01.99351	19 51 43.59	-16 34 07.3	18.3 V	046	1997 LF ₁	1997 06 09.89932	16 09 38.86	-21 34 43.3	19.0 V	046
1982 CE	1997 07 01.99745	19 51 43.33	-16 34 08.0		046	1997 LF ₁	1997 06 09.90159	16 09 38.73	-21 34 43.7		046
1982 CE	1997 07 02.00181	19 51 43.08	-16 34 08.9		046	1997 LF ₁	1997 06 09.90359	16 09 38.59	-21 34 43.4		046
1982 CE	1997 07 08.92008	19 44 58.53	-16 56 31.1	18.3 V	046	1997 LF ₁	1997 06 09.90556	16 09 38.44	-21 34 43.9		046
1982 CE	1997 07 08.93204	19 44 57.81	-16 56 33.6		046	1997 LF ₁	1997 06 09.90829	16 09 38.26	-21 34 43.4		046
1982 CE	1997 07 08.93418	19 44 57.66	-16 56 34.1		046	1997 LF ₁	1997 06 10.91617	16 08 37.04	-21 34 45.8	18.7 V	046
1988 XB	1997 06 20.90037	14 33 05.40	-19 31 05.2	15.9 V	046	1997 LF ₁	1997 06 10.91836	16 08 36.90	-21 34 46.0		046
1988 XB	1997 06 20.90171	14 33 04.74	-19 31 04.1		046	1997 LF ₁	1997 06 10.92039	16 08 36.74	-21 34 45.6		046
1988 XB	1997 06 20.90309	14 33 04.12	-19 31 03.5		046	1997 LF ₁	1997 06 10.92273	16 08 36.62	-21 34 45.3		046
1988 XB	1997 06 20.90443	14 33 03.43	-19 31 02.4		046	1997 LY ₄	1997 07 12.97183	19 41 20.35	+01 13 10.8	17.2 V	046
1990 QO	1997 07 12.98653	20 34 20.78	+04 55 49.1	17.2 V	046	1997 LY ₄	1997 07 12.97429	19 41 20.28	+01 13 14.7		046
1990 QO	1997 07 12.98788	20 34 20.71	+04 55 48.9		046	1997 LY ₄	1997 07 12.97662	19 41 20.22	+01 13 17.5		046
1990 QO	1997 07 12.98917	20 34 20.66	+04 55 48.4		046	1997 LY ₄	1997 07 12.97802	19 41 20.19	+01 13 19.4		046
1990 QO	1997 07 13.98031	20 33 31.93	+04 50 51.1	17.4 V	046	1997 LY ₄	1997 07 13.95133	19 41 01.75	+01 35 15.1	17.0 V	046
1990 QO	1997 07 13.98245	20 33 31.81	+04 50 50.7		046	1997 LY ₄	1997 07 13.95399	19 41 01.68	+01 35 18.7		046
1990 QO	1997 07 13.98566	20 33 31.63	+04 50 49.5		046	1997 LY ₄	1997 07 13.95591	19 41 01.62	+01 35 21.2		046
1990 TU ₈	1997 07 02.01740	20 12 11.28	-24 45 51.5	17.1 V	046	1997 MW ₁	1997 07 01.85672	18 15 29.36	-02 34 04.4	18.0 V	046
1990 TU ₈	1997 07 02.01934	20 12 11.19	-24 45 51.8		046	1997 MW ₁	1997 07 01.85828	18 15 29.03	-02 34 02.8		046
1990 TU ₈	1997 07 02.02162	20 12 11.11	-24 45 52.1		046	1997 MW ₁	1997 07 01.86117	18 15 28.28	-02 33 58.5		046
1990 TU ₈	1997 07 08.99624	20 07 13.08	-25 05 23.3	16.7 V	046	1997 MW ₁	1997 07 03.88716	18 07 01.44	-01 43 28.9	16.7 R	046
1990 TU ₈	1997 07 08.99836	20 07 12.97	-25 05 23.9		046	1997 MW ₁	1997 07 03.89079	18 07 00.52	-01 43 22.8		046
1990 TU ₈	1997 07 09.00167	20 07 12.80	-25 05 24.2		046	1997 MW ₁	1997 07 03.89299	18 07 00.03	-01 43 20.5		046
1994 QC	1997 07 12.86720	17 16 57.83	+31 44 58.7	17.2 V	046	1997 MW ₁	1997 07 06.87525	17 55 17.58	-00 36 44.9	18.7 V	046
1994 QC	1997 07 12.87024	17 16 57.93	+31 44 51.8		046	1997 MW ₁	1997 07 06.87707	17 55 17.07	-00 36 43.4		046
1994 QC	1997 07 12.87263	17 16 58.01	+31 44 46.2		046	1997 MW ₁	1997 07 06.87837	17 55 16.83	-00 36 41.8		046
1995 EB	1997 06 11.04014	20 28 07.75	-12 54 53.6	18.7 V	046	1997 MW ₁	1997 07 06.87964	17 55 16.51	-00 36 40.6		046
1995 EB	1997 06 11.04209	20 28 07.71	-12 54 54.3		046	1997 MW ₁	1997 07 06.88152	17 55 16.11	-00 36 37.5	18.4 V	046
1995 EB	1997 06 11.04628	20 28 07.63	-12 54 54.3		046	1997 MW ₁	1997 07 08.89640	17 47 54.39	+00 02 57.0	18.7 V	046
1995 EB	1997 07 02.02538	20 18 20.99	-13 39 48.4	18.8 V	046	1997 MW ₁	1997 07 08.90062	17 47 53.41	+00 03 02.0		046
1995 EB	1997 07 02.02738	20 18 20.85	-13 39 48.2		046	1997 MW ₁	1997 07 08.90336	17 47 52.81	+00 03 05.1		046
1995 EB	1997 07 02.03214	20 18 20.68	-13 39 49.0		046	1997 MW ₁	1997 07 09.88968	17 44 27.29	+00 20 51.9	18.7 V	046
1995 EB	1997 07 08.95685	20 13 48.16	-14 02 07.1	18.8 V	046	1997 MW ₁	1997 07 09.89108	17 44 26.97	+00 20 53.2		046
1995 EB	1997 07 08.96139	20 13 48.00	-14 02 07.5		046	1997 MW ₁	1997 07 09.89414	17 44 26.34	+00 20 56.9		046
1995 EB	1997 07 08.96353	20 13 47.91	-14 02 08.0		046	1997 MW ₁	1997 07 11.95172	17 37 39.84	+00 54 42.7	18.7 V	046
1996 BG	1997 07 08.86731	16 41 18.24	-18 34 27.8	18.4 V	046	1997 MW ₁	1997 07 11.95343	17 37 39.54	+00 54 44.5		046
1996 BG	1997 07 08.86931	16 41 18.16	-18 34 28.3		046	1997 MW ₁	1997 07 11.95501	17 37 39.24	+00 54 45.6		046
1996 BG	1997 07 08.87780	16 41 17.88	-18 34 30.0		046	1997 MW ₁	1997 07 11.95626	17 37 38.93	+00 54 47.3		046
1996 BG	1997 07 09.86940	16 40 45.43	-18 38 02.0	18.0 R	046	1997 MW ₁	1997 07 12.88002	17 34 47.54	+01 08 31.1	18.9 V	046
1996 BG	1997 07 09.87134	16 40 45.35	-18 38 02.5		046	1997 MW ₁	1997 07 12.88109	17 34 47.36	+01 08 31.4		046
1996 BG	1997 07 09.87587	16 40 45.17	-18 38 03.0		046	1997 MW ₁	1997 07 12.88215	17 34 47.15	+01 08 33.2		046
1996 BJ	1997 07 02.00532	20 10 35.51	-19 56 35.1	18.6 V	046	1997 MW ₁	1997 07 12.88323	17 34 46.97	+01 08 33.7		046
1996 BJ	1997 07 02.00727	20 10 35.41	-19 56 35.4		046	1997 MD ₁₀	1997 07 08.91270	18 32 31.98	-23 04 01.6	19.1 V c	046
1996 BJ	1997 07 02.00928	20 10 35.31	-19 56 35.5		046	1997 MD ₁₀	1997 07 12.91440	18 23 26.88	-20 57 56.0	18.1 V c	046

1997 NV	* 1997 07 01.99351	19 52 17.29	-16 37 00.3	17.5 V	046
1997 NV	1997 07 01.99550	19 52 17.20	-16 37 00.2		046
1997 NV	1997 07 01.99745	19 52 17.11	-16 37 00.4		046
1997 NV	1997 07 01.99980	19 52 16.97	-16 37 00.2		046
1997 NV	1997 07 02.00181	19 52 16.84	-16 37 00.2		046
1997 NV	1997 07 03.95597	19 50 30.72	-16 34 46.7	17.6 V	046
1997 NV	1997 07 03.97356	19 50 29.77	-16 34 45.1		046
1997 NV	1997 07 03.97575	19 50 29.61	-16 34 45.5		046
1997 NV	1997 07 03.98064	19 50 29.34	-16 34 45.3		046
1997 NC ₁	1997 07 08.84994	13 13 27.59	-15 28 00.3	16.8 R	046
1997 NC ₁	1997 07 08.85138	13 13 27.64	-15 28 10.2		046
1997 NC ₁	1997 07 08.85824	13 13 28.09	-15 28 59.3	16.6 R	046
1997 NC ₁	1997 07 08.86030	13 13 28.26	-15 29 13.9		046
(1943)	1997 07 12.04106	22 27 33.93	+15 54 02.7	15.4 V	046
(1943)	1997 07 12.04410	22 27 33.79	+15 54 05.3		046
(1943)	1997 07 12.04733	22 27 33.64	+15 54 08.1		046
(1980)	1997 07 11.94365	18 14 50.38	+35 03 28.7	14.2 V	046
(1980)	1997 07 11.94539	18 14 50.16	+35 03 33.2		046
(1980)	1997 07 11.94713	18 14 49.95	+35 03 37.6		046
(2060)	1997 06 20.87574	13 35 49.30	-09 39 04.7	16.3 V	046
(2060)	1997 06 20.87722	13 35 49.27	-09 39 04.7		046
(2060)	1997 06 20.87987	13 35 49.29	-09 39 04.6		046
(2060)	1997 07 09.85694	13 36 50.75	-09 38 53.4	16.2 R	046
(2060)	1997 07 09.85823	13 36 50.77	-09 38 53.1		046
(5234)	1997 07 12.84738	16 21 41.64	+08 08 48.9	16.9 R	046
(5234)	1997 07 12.85152	16 21 41.55	+08 08 48.7		046
(5234)	1997 07 12.85795	16 21 41.37	+08 08 49.7		046
(5250)	1997 06 20.98535	20 05 30.27	-09 55 39.3	16.3 V	046
(5250)	1997 06 20.98853	20 05 30.18	-09 55 40.2		046
(5250)	1997 06 20.99019	20 05 30.14	-09 55 40.8		046
(6411)	1997 07 12.01252	20 14 04.34	+06 24 10.5	18.0 V	046
(6411)	1997 07 12.01381	20 14 04.28	+06 24 10.5		046
(6411)	1997 07 12.01803	20 14 04.07	+06 24 09.0		046
(7482)	1997 06 20.95619	19 43 55.72	+21 13 48.0	16.0 V	046
(7482)	1997 06 20.96090	19 43 55.01	+21 13 33.8		046
(7482)	1997 06 20.96527	19 43 54.35	+21 13 20.3		046
(7482)	1997 07 09.93486	18 54 35.47	+01 13 16.3	17.2 V	046
(7482)	1997 07 09.93657	18 54 35.21	+01 13 09.3		046
(7482)	1997 07 09.93829	18 54 34.94	+01 13 02.2		046
(7482)	1997 07 11.97372	18 49 38.28	-01 06 21.8	17.9 V	046
(7482)	1997 07 11.97751	18 49 37.75	-01 06 37.2		046
(7482)	1997 07 11.97847	18 49 37.60	-01 06 41.2		046

069 Baldone

M. Dirikis and L. Laucenieks, Astronomical Observatory of the Latvian University,
LV-1098 Riga, Latvia

Observer L. Začs

Measurers I. Rudzinska, I. Jumare

0.8-m Schmidt telescope

PPM

(4179)	1992 12 21.00243	08 56 04.941	+13 58 12.26		069
(4179)	1992 12 21.01910	08 55 59.732	+13 58 51.34		069
(4179)	1992 12 21.03299	08 55 55.393	+13 59 24.32		069

(4179)	1992 12 21.04757	08 55 50.929	+13 59 59.37		069
(4179)	1992 12 21.06667	08 55 45.017	+14 00 43.99		069
(4179)	1992 12 22.91875	08 47 52.740	+15 03 58.65	t	069
(4179)	1992 12 29.87361	08 27 35.811	+17 32 32.30		069
(4179)	1992 12 29.92604	08 27 28.024	+17 33 23.03		069
(4179)	1992 12 29.93507	08 27 26.725	+17 33 30.39		069
(4179)	1992 12 29.94514	08 27 25.210	+17 33 40.79		069
(4179)	1992 12 30.94375	08 25 15.419	+17 48 07.86		069
(4179)	1992 12 30.95226	08 25 14.235	+17 48 14.53		069
(4179)	1993 02 14.82986	07 54 03.707	+21 02 26.05		069
(4179)	1993 02 14.98854	07 54 06.080	+21 02 22.64		069

071 Bulgarian National Observatory

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Observers V. Radeva, V. Baeva, G. Apostolovska

0.50-m $f/1.4$ Schmidt

(20)	1997 07 05.85758	18 43 58.98	-21 58 43.8		071
(62)	1997 07 02.88115	18 48 36.56	-21 37 41.3		071
(62)	1997 07 02.93045	18 48 34.04	-21 37 44.3		071
(62)	1997 07 03.04133	18 48 28.12	-21 37 51.9		071
(147)	1997 07 05.85758	18 48 37.17	-21 24 47.3		071
(163)	1997 07 06.90641	19 31 54.41	-15 52 00.8		071
(163)	1997 07 06.95992	19 31 51.14	-15 52 08.9		071
(163)	1997 07 06.99877	19 31 49.05	-15 52 16.5		071
(287)	1997 07 07.92104	19 30 04.66	-11 54 31.7		071
(307)	1997 07 02.93045	18 54 59.86	-22 57 10.6		071
(307)	1997 07 03.04133	18 54 53.93	-22 57 29.2		071
(1954)	1997 07 05.85758	18 52 56.70	-20 56 35.4		071
(2524)	1997 07 02.93045	18 59 24.47	-22 42 58.5		071

084 Pulkovo

N. M. Bronnikova, Pulkovo Observatory, Russian Academy of Sciences, Pulkovskoe
shosse 65, St. Petersburg 196140, Russia [aak@pulvz.spb.su]

Observers N. M. Bronnikova, V. V. Bobylev, V. P. Ryl'kov, O. P. Bykov,
O. A. Kalinichenko, A. A. Kiselev, N. A. Shacht, L. G. Romanenko,
K. L. Maslennikov

0.34-m $f/10$ normal astrograph, 0.65-m $f/16$ refractor

(762)	1994 02 02.86646	07 53 03.08	+22 24 02.8		084
(762)	1994 02 02.87339	07 53 02.73	+22 24 02.1		084
(762)	1994 02 02.88031	07 53 02.35	+22 24 00.9		084
(762)	1994 02 02.89036	07 53 01.81	+22 23 59.4	t	084
(762)	1994 02 02.89659	07 53 01.47	+22 23 58.8	t	084
(762)	1994 02 02.90282	07 53 01.14	+22 23 57.9	t	084
(762)	1994 02 10.80222	07 46 41.53	+22 04 59.2		084
(762)	1994 02 10.80892	07 46 41.26	+22 04 58.2		084
(762)	1994 02 10.81584	07 46 40.93	+22 04 56.3		084
(762)	1994 02 12.83764	07 45 15.90	+21 59 37.6		084
(762)	1994 02 12.84387	07 45 15.70	+21 59 36.3		084
(762)	1994 02 12.85011	07 45 15.45	+21 59 35.2		084
(762)	1994 03 02.78804	07 37 08.55	+21 05 43.7		084
(762)	1994 03 02.79392	07 37 08.48	+21 05 42.8		084
(762)	1994 03 02.79808	07 37 08.38	+21 05 41.3		084

(762)	1994 03 02.80950	07 37 08.26	+21 05 39.2	084
(762)	1994 03 02.81643	07 37 08.19	+21 05 38.8	084
(762)	1994 03 02.82335	07 37 08.11	+21 05 36.8	084
(4179)	1992 12 18.182889	09 12 15.811	+11 40 41.87	084
(4179)	1992 12 18.198472	09 12 09.434	+11 41 33.84	G 084
(4179)	1992 12 19.062071	09 06 32.787	+12 30 27.07	G 084
(4179)	1992 12 19.080017	09 06 25.912	+12 31 22.56	084
(4179)	1992 12 19.082501	09 06 24.868	+12 31 31.15	084
(4179)	1992 12 21.047780	08 55 50.492	+13 59 54.82	084
(4179)	1992 12 21.050723	08 55 49.593	+14 00 01.96	084
(4179)	1992 12 21.054010	08 55 48.581	+14 00 09.45	084
(4179)	1992 12 21.056953	08 55 47.781	+14 00 16.17	084
(4179)	1992 12 21.059718	08 55 46.681	+14 00 23.68	G 084
(4179)	1992 12 21.059896	08 55 46.750	+14 00 23.82	084
(4179)	1992 12 21.062488	08 55 45.934	+14 00 29.19	084
(4179)	1992 12 21.067171	08 55 44.585	+14 00 40.62	084
(4179)	1992 12 21.068730	08 55 44.041	+14 00 42.98	084
(4179)	1992 12 21.069068	08 55 43.920	+14 00 44.01	084
(4179)	1992 12 21.070288	08 55 43.602	+14 00 47.23	084
(4179)	1992 12 21.071846	08 55 43.113	+14 00 50.72	084
(4179)	1992 12 21.073404	08 55 42.652	+14 00 54.69	084
(4179)	1992 12 21.077032	08 55 41.586	+14 01 02.47	084
(4179)	1992 12 21.086035	08 55 38.800	+14 01 22.63	084
(4179)	1992 12 21.090190	08 55 37.451	+14 01 33.41	084
(4179)	1992 12 21.090547	08 55 37.445	+14 01 33.53	084
(4179)	1992 12 21.093560	08 55 36.530	+14 01 40.37	084
(4179)	1992 12 21.096434	08 55 35.636	+14 01 46.93	084
(4179)	1992 12 21.099377	08 55 34.715	+14 01 54.50	084
(4179)	1992 12 22.030445	08 51 26.182	+14 35 31.63	084
(4179)	1992 12 22.042911	08 51 22.531	+14 35 58.24	G 084
(4179)	1992 12 22.045185	08 51 22.125	+14 36 02.48	084
(4179)	1992 12 22.050033	08 51 20.803	+14 36 12.10	084
(4179)	1992 12 22.063191	08 51 17.173	+14 36 37.88	084
(4179)	1992 12 22.074816	08 51 13.988	+14 37 01.83	084
(4179)	1992 12 22.088122	08 51 10.330	+14 37 28.30	084
(4179)	1992 12 22.094701	08 51 08.490	+14 37 41.22	084
(4179)	1992 12 22.148373	08 50 54.021	+14 39 27.41	10.6 084
(4179)	1992 12 22.154606	08 50 52.452	+14 39 38.47	t 084
(4179)	1992 12 26.854865	08 35 04.841	+16 40 12.55	084
(4179)	1992 12 26.859367	08 35 04.168	+16 40 17.68	084
(4179)	1992 12 26.931103	08 34 51.538	+16 41 46.56	084
(4179)	1992 12 26.935199	08 34 50.695	+16 41 51.91	084
(4179)	1992 12 26.937278	08 34 50.329	+16 41 53.73	084
(4179)	1992 12 26.940046	08 34 49.956	+16 41 56.68	084
(4179)	1992 12 26.944894	08 34 48.959	+16 42 02.38	084
(4179)	1992 12 26.978196	08 34 43.026	+16 42 42.76	084
(4179)	1992 12 26.987488	08 34 41.285	+16 42 53.58	084
(4179)	1992 12 26.993029	08 34 40.288	+16 43 00.02	084
(4179)	1992 12 27.003763	08 34 38.506	+16 43 12.14	11.6 084
(4179)	1992 12 27.012074	08 34 37.016	+16 43 22.45	t 084
(4179)	1992 12 27.960874	08 32 08.091	+17 01 05.35	084
(4179)	1992 12 27.967107	08 32 07.072	+17 01 11.80	084

(4179)	1992 12 27.991346	08 32 03.017	+17 01 38.80	084
(4179)	1992 12 27.996887	08 32 02.081	+17 01 43.90	084
(4179)	1992 12 28.001734	08 32 01.268	+17 01 49.39	084
(4179)	1992 12 28.027001	08 31 57.009	+17 02 16.60	084
(4179)	1992 12 28.030810	08 31 56.449	+17 02 19.57	084
(4179)	1992 12 28.033234	08 31 56.029	+17 02 22.30	084
(4179)	1992 12 28.052971	08 31 52.687	+17 02 43.66	084
(4179)	1992 12 28.057138	08 31 52.166	+17 02 46.92	084
(4179)	1992 12 28.061986	08 31 51.253	+17 02 52.77	084
(4179)	1992 12 28.066834	08 31 50.563	+17 02 56.83	084
(4179)	1992 12 28.077222	08 31 48.736	+17 03 08.69	084
(4179)	1992 12 28.083455	08 31 47.780	+17 03 14.95	084
(4179)	1993 01 15.827157	08 02 25.478	+20 03 58.56	084
(5751)	1992 01 14.02072	09 10 46.48	+12 03 55.0	084
(5751)	1992 01 29.97182	09 45 19.17	+27 43 17.7	084
(5751)	1992 01 30.89842	09 47 35.08	+28 44 16.8	084
(5751)	1992 02 24.90490	10 55 55.45	+50 07 40.4	084
(5751)	1992 02 24.92360	10 55 58.22	+50 08 10.6	084
(5751)	1992 02 24.94171	10 56 01.24	+50 08 44.5	084
(5751)	1992 02 24.95972	10 56 04.01	+50 09 15.6	084
(5751)	1992 02 26.90092	11 01 22.43	+51 01 22.0	084
(5751)	1992 02 27.95308	11 04 11.31	+51 26 34.9	084
(5751)	1992 03 10.91455	11 32 59.52	+53 59 09.5	084
(5751)	1992 03 10.93324	11 33 01.77	+53 59 12.6	084
(5751)	1992 03 10.93534	11 33 02.04	+53 59 13.1	084

097 Wise Observatory, Mitzpeh Ramon

E. O. Ofek, Wise Observatory, Tel-Aviv University, IL-69978 Tel-Aviv, Israel

[eran@wise1.tau.ac.il]

1.0-m $f/7$ reflector + CCD

GSC

1997 NU	* 1997 07 01.77213	14 59 38.36	-00 01 43.1	17.4 V	097
1997 NU	1997 07 01.78417	14 59 38.40	-00 01 49.7	17.6 V	097
1997 NU	1997 07 02.74910	14 59 43.91	-00 10 50.4	17.5 V	097
1997 NU	1997 07 02.75510	14 59 43.94	-00 10 53.7	17.6 V	097
1997 NU	1997 07 02.76222	14 59 43.97	-00 10 57.8	17.6 V	097

104 San Marcello Pistoiese

L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028 San

Marcello Pistoiese (PT), Italy [iau@arcetri.astro.it]

Observers L. Tesi, G. Cattani, A. Boattini

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

0.40-m $f/5$ reflector + CCD

GSC

1991 AN ₂	1997 06 10.87630	15 58 40.58	+09 00 17.6	104
1991 AN ₂	1997 06 10.90130	15 58 39.44	+09 00 12.7	104
1991 SX ₁	1997 06 10.87144	15 54 21.98	-23 35 08.5	104
1991 SX ₁	1997 06 10.89852	15 54 20.27	-23 35 04.2	104
1994 PL	1997 06 10.87977	15 59 45.74	+01 26 13.9	104
1994 PL	1997 06 10.90546	15 59 44.36	+01 26 34.5	104
1994 WW	1997 06 15.01973	19 31 56.23	-20 07 59.8	18.0 V 104
1994 WW	1997 06 15.04387	19 31 55.33	-20 08 05.4	104
1994 WW	1997 07 01.96563	19 18 41.47	-21 10 13.2	104

1994 WW	1997 07 01.97049	19 18 41.19	-21 10 14.7		104
1994 WW	1997 07 01.97500	19 18 40.93	-21 10 16.0		104
1994 WW	1997 07 01.98765	19 18 40.25	-21 10 19.1		104
1994 WW	1997 07 06.93125	19 13 54.11	-21 30 44.4		104
1994 WW	1997 07 06.93611	19 13 53.81	-21 30 45.7		104
1994 WW	1997 07 06.94028	19 13 53.55	-21 30 46.7		104
1996 GG ₂	1997 06 14.92517	16 00 57.41	-21 39 54.2	17.9 V	104
1996 GG ₂	1997 06 14.93438	16 00 56.93	-21 39 52.1		104
1996 GG ₂	1997 06 27.88490	15 51 30.20	-21 04 43.4		104
1996 GG ₂	1997 06 27.89514	15 51 29.84	-21 04 41.8		104
1996 GG ₂	1997 06 27.90344	15 51 29.58	-21 04 40.3		104
1997 MG	1997 07 01.94375	19 50 02.00	-19 41 37.7	17.7 V	104
1997 MG	1997 07 01.94861	19 50 01.69	-19 41 39.8		104
1997 MG	1997 07 01.95313	19 50 01.41	-19 41 41.7		104
1997 MG	1997 07 06.91076	19 45 13.96	-20 14 05.4		104
1997 MG	1997 07 06.91499	19 45 13.69	-20 14 06.8		104
1997 MG	1997 07 06.91944	19 45 13.45	-20 14 08.3		104
1997 MW ₁	1997 07 03.86389	18 07 07.57	-01 43 59.7	18.4 V	104
1997 MW ₁	1997 07 03.87297	18 07 05.32	-01 43 46.5		104
1997 MW ₁	1997 07 03.87852	18 07 03.94	-01 43 38.8		104
1997 MW ₁	1997 07 06.86181	17 55 20.83	-00 36 59.0		104
1997 MW ₁	1997 07 06.86597	17 55 19.91	-00 36 53.6		104
1997 MW ₁	1997 07 06.86979	17 55 19.03	-00 36 48.7		104
1997 NC ₁	1997 07 06.84132	13 10 55.99	-11 15 05.4	17.0 V	104
1997 NC ₁	1997 07 06.84340	13 10 56.10	-11 15 22.5		104
1997 NC ₁	1997 07 06.84514	13 10 56.20	-11 15 35.5		104
1997 NC ₁	1997 07 06.84861	13 10 56.50	-11 16 02.4		104
1997 NC ₁	1997 07 08.84181	13 13 27.11	-15 26 57.5		104
1997 NC ₁	1997 07 08.84421	13 13 27.26	-15 27 14.6		104
1997 NC ₁	1997 07 08.84803	13 13 27.52	-15 27 42.7		104
1997 NC ₁	1997 07 08.85174	13 13 27.78	-15 28 09.5		104
1997 NC ₁	1997 07 09.83769	13 14 41.18	-17 22 59.5		104
1997 NC ₁	1997 07 09.83993	13 14 41.29	-17 23 15.5		104
1997 NC ₁	1997 07 09.84207	13 14 41.48	-17 23 30.5		104

108 Montelupo

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[iau@arcetri.astro.it]

Observers M. Tombelli, G. Forti

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

GSC

1996 AD ₄	1997 07 03.89582	17 18 20.81	-14 44 07.4		108
1996 AD ₄	1997 07 03.92069	17 18 19.54	-14 44 05.7	17.0 V	108
1996 AD ₄	1997 07 09.87771	17 14 21.64	-14 35 24.4		108
1996 AD ₄	1997 07 09.91015	17 14 20.46	-14 35 22.4	16.5 V	108
1996 CX ₇	1997 07 03.88896	17 13 15.89	-15 46 28.2		108
1996 CX ₇	1997 07 03.91237	17 13 14.64	-15 46 35.0	17.2 V	108
1996 CX ₇	1997 07 09.87036	17 08 12.36	-16 08 41.2		108
1996 CX ₇	1997 07 09.90277	17 08 10.65	-16 08 49.7	16.4 V	108
1996 CS ₈	1997 07 01.87211	16 07 10.01	-13 37 30.6		108
1996 CS ₈	1997 07 01.88316	16 07 09.81	-13 37 31.6	17.7	108
1996 CS ₈	1997 07 01.89256	16 07 09.55	-13 37 29.6		108
1996 CS ₈	1997 07 03.88088	16 06 26.13	-13 41 26.2	17.5 V	108

1996 CS ₈	1997 07 03.90365	16 06 25.73	-13 41 29.0		108
1996 CS ₈	1997 07 09.86460	16 04 48.39	-13 54 58.7	18.0 V	108
1996 CS ₈	1997 07 09.88300	16 04 48.19	-13 55 01.4		108
1996 CS ₈	1997 07 09.89225	16 04 48.15	-13 55 03.2		108
1996 CS ₈	1997 07 09.92535	16 04 47.54	-13 55 07.6		108
1997 MW ₁	1997 07 01.90871	18 15 15.86	-02 32 41.0		108
1997 MW ₁	1997 07 01.91393	18 15 14.39	-02 32 34.8		108

118 Modra

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

Measurers A. Galád, A. Pravda

0.6-m $f/5.5$ reflector + CCD

GSC

1988 XB	1997 06 23.86031	14 08 51.01	-18 57 45.2	16.4 R	r	118
1988 XB	1997 06 23.86547	14 08 48.23	-18 57 40.6	16.5 R	r	118
1988 XB	1997 06 25.84090	13 50 53.93	-18 26 16.7			118
1988 XB	1997 06 25.84278	13 50 52.84	-18 26 15.0	16.1 R		118
1988 XB	1997 06 25.84504	13 50 51.51	-18 26 12.2			118
1988 XB	1997 06 25.84678	13 50 50.50	-18 26 10.3			118
1988 XB	1997 06 28.83535	13 21 03.37	-17 20 54.8		p	118
1988 XB	1997 06 28.86967	13 20 41.17	-17 20 00.0		p	118
1994 QC	1997 06 24.88778	17 11 14.52	+40 45 04.9	18.1 R		118
1994 QC	1997 06 24.89778	17 11 14.45	+40 44 52.3			118
1994 QC	1997 06 26.92477	17 11 22.19	+40 00 45.6			118
1994 QC	1997 06 26.93120	17 11 22.17	+40 00 36.1	17.9 R		118
1994 QC	1997 06 26.93461	17 11 22.15	+40 00 31.5			118
1994 QC	1997 06 29.86567	17 11 46.07	+38 49 03.9			118
1994 QC	1997 06 29.86949	17 11 46.07	+38 48 58.3	17.3 R		118
1994 QC	1997 06 29.87280	17 11 46.06	+38 48 53.2			118
1994 QC	1997 07 02.02376	17 12 11.26	+37 50 36.4			118
1994 QC	1997 07 02.02639	17 12 11.29	+37 50 31.8	17.8 R		118
1994 QC	1997 07 02.03252	17 12 11.33	+37 50 21.2			118
1994 QC	1997 07 03.91699	17 12 43.17	+36 55 25.2	18.4 R		118
1994 QC	1997 07 03.92000	17 12 43.24	+36 55 19.7	18.5 R		118
1994 QC	1997 07 03.92258	17 12 43.22	+36 55 15.0	18.5 R		118
1994 QC	1997 07 14.01692	17 17 43.06	+30 59 27.0	18.5 R		118
1994 YR	1997 07 01.92762	15 35 20.62	-15 57 04.3			118
1994 YR	1997 07 01.94125	15 35 20.27	-15 57 04.6			118
1994 YR	1997 07 01.94534	15 35 20.14	-15 57 05.8	19.4 R		118
1996 ER ₂	1997 06 23.99195	19 08 45.82	-20 47 04.4			118
1996 ER ₂	1997 06 23.99607	19 08 45.57	-20 47 04.6	18.5 R		118
1996 ER ₂	1997 06 24.00206	19 08 45.23	-20 47 05.7			118
1996 ER ₂	1997 06 24.96867	19 07 49.81	-20 47 26.1	18.3 R	I	118
1996 ER ₂	1997 06 25.94914	19 06 52.89	-20 47 48.9	18.5 R		118
1996 ER ₂	1997 06 25.97774	19 06 51.12	-20 47 50.4			118
1996 ER ₂	1997 06 27.93388	19 04 55.60	-20 48 37.1		p	118
1996 ER ₂	1997 06 27.95676	19 04 54.22	-20 48 38.1	18.5 R	p	118
1996 ER ₂	1997 06 28.94740	19 03 54.83	-20 49 02.5		I	118
1996 ER ₂	1997 06 28.95154	19 03 54.51	-20 49 03.3		I	118
1997 BR	1997 06 23.93345	03 56 59.36	+76 16 17.5	18.0 R		118
1997 BR	1997 06 23.93554	03 56 57.75	+76 16 09.1			118

1997 BR	1997 06 23.93758	03 56 56.26	+76 16 00.6	118	
1997 BR	1997 06 25.90229	03 33 04.54	+73 40 45.1	118	
1997 BR	1997 06 25.90494	03 33 03.06	+73 40 31.5	118	
1997 BR	1997 06 25.90675	03 33 02.02	+73 40 22.0	118	
1997 BR	1997 06 27.88558	03 14 17.12	+70 26 52.4	18.1 R	118
1997 BR	1997 06 27.88738	03 14 16.33	+70 26 40.8	118	
1997 BR	1997 06 27.88993	03 14 15.24	+70 26 24.8	118	
1997 BR	1997 06 27.89174	03 14 14.56	+70 26 13.1	18.0 R	118
1997 BR	1997 07 03.03113	02 43 16.41	+58 44 32.5	p 118	
1997 BR	1997 07 03.03559	02 43 15.16	+58 43 50.1	p 118	
1997 BR	1997 07 10.05854	02 23 25.43	+33 44 57.4	16.8 R	118
1997 BR	1997 07 10.06046	02 23 25.23	+33 44 28.3	118	
1997 BR	1997 07 10.06156	02 23 25.05	+33 44 11.8	118	
1997 MW ₁	1997 07 09.97627	17 44 08.77	+00 22 22.7	18.6 R	118
1997 MW ₁	1997 07 09.97998	17 44 07.96	+00 22 26.4	118	
(1943)	1997 07 14.04263	22 26 08.31	+16 21 10.5	15.7 R	118
(1943)	1997 07 14.04872	22 26 07.98	+16 21 15.1	15.7 R	118
(1980)	1997 07 02.90389	18 32 17.22	+27 56 19.3	118	
(1980)	1997 07 02.91495	18 32 15.94	+27 56 53.7	118	
(1980)	1997 07 10.00271	18 18 40.90	+33 38 58.0	118	
(1980)	1997 07 10.00874	18 18 40.15	+33 39 14.1	118	
(1980)	1997 07 10.01644	18 18 39.20	+33 39 34.5	118	
(1980)	1997 07 13.93568	18 10 52.48	+36 25 48.6	14.2 R	118
(1980)	1997 07 13.94076	18 10 51.84	+36 26 00.7	14.2 R	118
(2100)	1997 07 10.04012	01 13 58.48	+26 55 10.1	118	
(2100)	1997 07 10.04734	01 13 58.96	+26 55 09.8	118	
(3040)	1997 07 02.00644	17 04 25.93	+42 04 43.2	118	
(3040)	1997 07 02.01181	17 04 25.53	+42 04 37.5	118	
(3040)	1997 07 09.93596	16 56 22.93	+39 36 11.8	118	
(3040)	1997 07 09.94977	16 56 22.19	+39 35 54.8	118	
(3040)	1997 07 13.99323	16 53 06.71	+38 10 07.8	17.7 R	118
(3040)	1997 07 13.99950	16 53 06.43	+38 09 59.7	17.7 R	118
(3116)	1997 07 01.87319	13 13 35.79	-03 31 37.8	118	
(3116)	1997 07 01.88279	13 13 36.12	-03 31 41.5	118	
(3529)	1997 07 02.99294	21 19 51.77	-10 57 20.1	r 118	
(3529)	1997 07 03.00600	21 19 51.64	-10 57 20.0	r 118	
(4209)	1997 06 25.01951	22 38 27.07	-15 49 02.4	S 118	
(4209)	1997 06 25.03550	22 38 27.06	-15 48 58.1	17.5 R	S 118
(4209)	1997 06 25.03814	22 38 27.06	-15 48 57.9	S 118	
(4209)	1997 06 26.02891	22 38 28.78	-15 44 57.5	S 118	
(4209)	1997 06 26.03568	22 38 28.82	-15 44 55.4	16.5 R	S 118
(4209)	1997 06 26.04291	22 38 28.85	-15 44 54.2	S 118	
(4209)	1997 06 27.02151	22 38 29.14	-15 40 59.7	118	
(4209)	1997 06 27.03362	22 38 29.14	-15 40 55.6	17 R	118
(4209)	1997 06 28.03204	22 38 28.00	-15 37 02.4	17.6 R	118
(4209)	1997 06 28.99956	22 38 25.45	-15 33 17.9	17.2 R	r 118
(4209)	1997 06 29.00788	22 38 25.39	-15 33 15.9	r 118	
(4341)	1997 07 01.97017	15 42 50.25	-08 13 19.4	118	
(4341)	1997 07 01.97668	15 42 50.16	-08 13 24.1	118	
(5732)	1997 07 02.04176	21 21 31.59	+14 24 40.2	118	
(5732)	1997 07 02.04815	21 21 31.32	+14 24 42.6	118	
(6411)	1997 07 02.97005	20 20 53.29	+06 53 30.0	118	

(6411)	1997 07 02.97688	20 20 52.94	+06 53 29.1	118
(6411)	1997 07 13.96765	20 12 28.06	+06 15 18.9	18.0 R 118
(6411)	1997 07 13.97653	20 12 27.62	+06 15 16.3	18.0 R 118

122 Pises Observatory

B. Gaillard, 34 rue du Mas de Lemasson, F-34070 Montpellier, France

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Observers M. Deldem, B. Gaillard, A. Jacquey, J. Martinez, R. Poncy, J. Lopez

Measurer B. Gaillard

0.40-m $f/4.7$ reflector + CCD

1997 NU ₆	* 1997 07 09.10289	19 41 45.85	-10 17 25.6	17.4	122
1997 NU ₆	1997 07 09.10514	19 41 45.74	-10 17 25.5	17.5	122
1997 NU ₆	1997 07 09.10763	19 41 45.60	-10 17 25.4	17.5	122
1997 NU ₆	1997 07 09.11043	19 41 45.44	-10 17 25.3	17.6	122
1997 NU ₆	1997 07 09.11666	19 41 45.11	-10 17 24.9	17.5	122
1997 NU ₆	1997 07 12.99944	19 38 22.40	-10 17 07.0	17.5	122
1997 NU ₆	1997 07 13.00109	19 38 22.32	-10 17 06.9	17.4	122
1997 NU ₆	1997 07 13.00510	19 38 22.07	-10 17 06.9	17.5	122
1997 NU ₆	1997 07 13.00753	19 38 21.94	-10 17 07.0	17.5	122
1997 NU ₆	1997 07 13.01543	19 38 21.50	-10 17 06.7	17.4	122

124 Castres

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0.20-m $f/6.15$ reflector + CCD

GSC

1997 LG ₁	1997 06 22.87440	16 02 43.74	-03 01 00.5	18.4	124
1997 LG ₁	1997 06 22.87872	16 02 43.46	-03 01 03.3	18.3	124
1997 LG ₁	1997 06 24.87961	16 01 28.81	-03 13 16.1	18.4	124
1997 LG ₁	1997 06 24.88392	16 01 28.53	-03 13 19.9	124	
1997 LG ₁	1997 06 24.91459	16 01 27.37	-03 13 30.7	18.5	124
1997 MC	1997 06 24.87097	16 01 47.42	-03 17 19.9	124	
1997 MC	1997 06 24.87961	16 01 47.17	-03 17 22.0	19.0	124
1997 MC	1997 06 24.91459	16 01 45.73	-03 17 28.2	124	

127 Bornheim

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online.de]

0.19-m $f/4$ FFC + CCD

GSC

1990 KO	1997 06 03.96007	18 12 25.72	-00 16 18.6	127
1990 KO	1997 06 03.96285	18 12 25.60	-00 16 14.2	127
1990 KO	1997 06 05.97378	18 10 55.04	+00 34 50.3	127
1990 KO	1997 06 05.97703	18 10 54.92	+00 34 55.3	127
1990 KO	1997 06 09.94765	18 07 38.76	+02 13 30.4	127
1990 KO	1997 06 09.95556	18 07 38.38	+02 13 41.5	127
1993 HK ₁	1997 06 03.97083	18 50 19.53	+04 55 19.6	127
1993 HK ₁	1997 06 03.97375	18 50 19.47	+04 55 23.7	127
1993 HK ₁	1997 06 05.97992	18 49 46.14	+05 44 02.8	127
1993 HK ₁	1997 06 05.98825	18 49 45.97	+05 44 15.3	127
1993 HK ₁	1997 06 09.96372	18 48 17.50	+07 19 10.0	127
1993 HK ₁	1997 06 09.96669	18 48 17.43	+07 19 14.4	127
(1679)	1997 06 09.91300	17 16 07.30	+04 57 23.3	127
(1679)	1997 06 09.92020	17 16 06.97	+04 57 24.3	127

(1679)	1997 06 18.95093	17 09 26.62	+05 04 46.4	127
(1679)	1997 06 18.95712	17 09 26.32	+05 04 46.2	127
(1980)	1997 06 09.96956	19 02 51.80	+06 40 53.9	127
(1980)	1997 06 09.97240	19 02 51.68	+06 41 02.7	127
(1980)	1997 06 18.96638	18 53 55.45	+15 03 02.5	127
(1980)	1997 06 18.97257	18 53 54.95	+15 03 23.6	127
(1980)	1997 06 28.92325	18 39 18.37	+24 24 39.1	127
(1980)	1997 06 28.93108	18 39 17.54	+24 25 04.9	127
(1980)	1997 06 28.93715	18 39 16.89	+24 25 24.7	127
(3617)	1997 06 09.92674	17 26 10.86	+00 56 07.5	127
(3617)	1997 06 09.93022	17 26 10.69	+00 56 07.9	127
(3617)	1997 06 18.93675	17 18 32.63	+01 06 11.2	127
(3617)	1997 06 18.94028	17 18 32.45	+01 06 11.2	127

130 Lumezzane

S. Foglia, F. Bisleri 11, I-20418 Milan, Italy [md3576@mclink.it]

Observers W. Marinello, G. Pizzetti, S. Foglia

Measurer S. Foglia

0.40-m $f/6.5$ reflector + CCD

GSC

1993 HK ₁	1997 07 06.96203	18 29 24.21	+15 44 29.7	14.8 V	130
1993 HK ₁	1997 07 06.96843	18 29 23.87	+15 44 34.0	14.8 V	130
1993 HK ₁	1997 07 06.97650	18 29 23.50	+15 44 39.4	14.9 V	130
(1980)	1997 07 06.89512	18 24 46.09	+31 15 11.6		130
(1980)	1997 07 06.90453	18 24 44.97	+31 15 39.6		130
(1980)	1997 07 06.92344	18 24 42.69	+31 16 34.1		130
(1980)	1997 07 06.92459	18 24 42.56	+31 16 37.4		130
(1980)	1997 07 06.92586	18 24 42.41	+31 16 40.7		130
(5222)	1997 07 07.00498	19 01 38.47	+25 47 06.4		130
(5222)	1997 07 07.01415	19 01 37.84	+25 47 07.2		130

132 Bedoin

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[Pierre.Antonini@wanadoo.fr]

0.16-m $f/3.3$ reflector + CCD, 0.16-m $f/3.3$ reflector + CCD

GSC

1997 LG ₁	1997 06 23.87427	16 02 05.58	-03 07 01.3	18.9	132
1997 LG ₁	1997 06 23.89402	16 02 04.65	-03 07 08.3	18.9	132
1997 LG ₁	1997 06 23.90669	16 02 04.17	-03 07 12.7	19.3	132
1997 LG ₁	1997 06 27.88139	15 59 50.00	-03 33 27.3	18.5	132
1997 LG ₁	1997 06 27.92947	15 59 48.47	-03 33 48.3	18.3	132
1997 LG ₁	1997 07 01.87635	15 58 05.60	-04 03 28.0	18.8	132
1997 LG ₁	1997 07 01.89868	15 58 05.07	-04 03 38.4	18.9	132
1997 LG ₁	1997 07 08.90760	15 56 21.78	-05 03 59.6	18.8	132
1997 LG ₁	1997 07 08.92892	15 56 21.76	-05 04 09.0	18.4	132
1997 MC	* 1997 06 23.87427	16 02 25.86	-03 14 36.8	19.4	132
1997 MC	1997 06 23.89402	16 02 25.15	-03 14 40.0	19.5	132
1997 MC	1997 06 23.90669	16 02 24.49	-03 14 41.5	19.4	132
1997 MC	1997 06 27.88139	15 59 58.22	-03 26 21.3	19.3	132
1997 MC	1997 06 27.90278	15 59 57.40	-03 26 25.8	19.4	132
1997 MC	1997 06 27.92947	15 59 56.44	-03 26 31.8	19.4	132
1997 MC	1997 07 01.87635	15 57 49.56	-03 40 13.8	19.8	F 132
1997 MC	1997 07 01.89868	15 57 48.98	-03 40 22.1	19.8	F 132

(5441)	1997 06 28.04440	20 10 14.25	-14 33 08.5	16.5	132
(5441)	1997 06 28.10631	20 10 11.78	-14 33 26.1	16.9	132
(5551)	1997 06 27.94624	20 01 57.92	-15 32 48.0	17.2	132
(5551)	1997 06 28.05751	20 01 51.71	-15 34 00.2	17.8	132
(6419)	1997 06 27.96817	20 05 04.46	-15 11 41.3	16.2	132
(6419)	1997 06 28.02368	20 05 02.10	-15 11 34.4	16.2	132

137 Givatayim Observatory

I. Manulis, P.O. Box 468, IL-43104 Raanana, Israel [ilan@trendline.co.il]

Observers I. Manulis, E. Ofek, E. O. Ofek, A. Brewald, A. Berwald, M. Nachshoni

Measurer I. Manulis

0.30-m $f/10$ Schmidt-Cassegrain + CCD, 0.30-m $f/6.3$ Schmidt-Cassegrain +

CCD

(51)	1997 06 25.83094	19 09 00.66	-06 01 50.1	10.5 V	137
(51)	1997 06 25.85079	19 08 59.57	-06 01 51.3	10.7 V	137
(433)	1997 07 08.02181	02 35 31.63	+24 19 30.7	13.3 V	137
(433)	1997 07 08.03911	02 35 34.47	+24 19 48.3	13.4 V	137
(1388)	1997 07 06.85178	19 04 06.39	-36 06 14.7	15.0 V	137
(1388)	1997 07 06.85844	19 04 05.97	-36 06 16.2	15.1 V	137
(1388)	1997 07 06.86366	19 04 05.68	-36 06 17.5	14.9 V	137
(1388)	1997 07 07.90398	19 03 04.82	-36 10 17.9	15.1 V	137
(1388)	1997 07 07.90843	19 03 04.50	-36 10 19.1	15.6 V	137
(1388)	1997 07 07.94185	19 03 02.58	-36 10 26.3	15.4 V	137

138 Village-Neuf

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

[Sky.walker@wanadoo.fr]

Observers C. Demeautis, D. Matter

Measurer C. Demeautis

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

USNO SA-1.0

(1466)	1997 07 13.05014	22 15 53.36	-03 34 47.2	15.4	138
(1466)	1997 07 13.08076	22 15 52.85	-03 34 57.4	15.3	138
(1466)	1997 07 13.10359	22 15 52.43	-03 35 05.1	15.4	138

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

1997 JO ₁₈	1997 06 05.13194	14 53 24.82	-13 35 15.2	17.9	292
1997 JO ₁₈	1997 06 05.14862	14 53 24.11	-13 35 21.6		292
1997 JO ₁₈	1997 06 05.16527	14 53 23.41	-13 35 26.1		292

327 Peking Observatory, Xinglong Station

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

Zhongguancun, Peking 100080, Peoples Republic of China

[jinzhu@sun.ihep.ac.cn]

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

Y. J. Chen, X. Y. Li, C. M. Ma, R. Chen, H. J. Chen

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

0.60-m Schmidt + CCD

1989 GJ ₂	1997 05 31.77358	19 42 51.41	-13 07 13.0	18.7	327
1989 GJ ₂	1997 05 31.78228	19 42 51.25	-13 07 10.7		327
1989 GJ ₂	1997 05 31.79096	19 42 51.10	-13 07 08.7		327

1990 WE ₉	1997 06 26.75734	20 00 46.35	-16 52 47.7	17.5	327	1997 EA ₃	1997 05 24.60093	11 40 07.26	+09 52 48.3		327
1990 WE ₉	1997 06 26.77230	20 00 45.74	-16 52 49.3		327	1997 FO	1997 05 24.56608	11 38 33.87	+09 15 49.4		327
1990 WE ₉	1997 06 26.78707	20 00 45.15	-16 52 51.2		327	1997 FO	1997 05 24.58108	11 38 34.06	+09 15 44.0	17.6	327
1990 WE ₉	1997 06 27.73088	20 00 08.87	-16 54 47.5		327	1997 FO	1997 05 24.59624	11 38 34.29	+09 15 39.2		327
1990 WE ₉	1997 06 27.74440	20 00 08.35	-16 54 48.6		327	1997 FZ ₁	1997 06 26.56513	13 15 51.58	-08 18 40.9		327
1990 WE ₉	1997 06 27.74874	20 00 08.16	-16 54 49.3		327	1997 FZ ₁	1997 06 26.56946	13 15 51.87	-08 18 43.0	19.3	327
1990 WE ₉	1997 06 27.76212	20 00 07.56	-16 54 51.0	18.5	327	1997 FZ ₁	1997 06 26.57380	13 15 52.12	-08 18 44.0		327
1995 CD ₂	1997 05 21.79377	20 59 52.01	+06 00 18.3	18.1	327	1997 KS	1997 05 20.72450	19 42 35.14	-14 51 14.4		327
1995 CD ₂	1997 05 21.79839	20 59 52.08	+06 00 21.2		327	1997 KS	1997 05 20.73862	19 42 35.44	-14 51 10.5	18.7 V	327
1995 CD ₂	1997 05 21.80309	20 59 52.22	+06 00 23.8		327	1997 KS	1997 05 20.75293	19 42 35.63	-14 51 06.8		327
1995 CD ₂	1997 05 21.80785	20 59 52.33	+06 00 26.7		327	1997 KS	1997 05 22.74875	19 43 08.19	-14 40 17.6		327
1995 GL ₇	1995 03 31.61207	11 21 46.72	+13 07 22.6		327	1997 KS	1997 05 22.77449	19 43 08.43	-14 40 09.0		327
1995 GL ₇	1995 03 31.62759	11 21 46.11	+13 07 25.0		327	1997 KS	1997 05 22.78914	19 43 08.61	-14 40 05.2		327
1995 GL ₇	1995 03 31.64333	11 21 45.46	+13 07 27.4	19.6 V	327	1997 KS	1997 05 22.80381	19 43 08.79	-14 40 00.0	17.4	327
1995 GL ₇	1995 03 31.65993	11 21 44.85	+13 07 29.8		327	1997 LF ₄	1997 06 26.71365	19 30 14.18	-11 01 26.8	17.7	327
1995 XR ₁	1997 05 23.57007	13 04 22.78	+02 57 55.6		327	1997 LF ₄	1997 06 26.72891	19 30 13.31	-11 01 21.5		327
1995 XR ₁	1997 05 23.57997	13 04 22.59	+02 57 54.1		327	1997 LF ₄	1997 06 26.74654	19 30 12.30	-11 01 15.5		327
1995 XR ₁	1997 05 23.58985	13 04 22.35	+02 57 53.2	17.9	327	1997 LF ₄	1997 06 27.65273	19 29 22.42	-10 56 02.7		327
1996 AN ₁₅	1997 07 10.59184	19 12 06.55	-16 53 45.0		327	1997 LF ₄	1997 06 27.66675	19 29 21.58	-10 55 57.6		327
1996 AN ₁₅	1997 07 10.59619	19 12 06.29	-16 53 46.2	17.5	327	1997 LF ₄	1997 06 27.68002	19 29 20.81	-10 55 53.0	17.7	327
1996 AN ₁₅	1997 07 10.60286	19 12 06.04	-16 53 46.9		327	1997 LY ₄	1997 06 26.70860	19 44 17.09	-05 53 17.5	17.4	327
1996 BE ₁₈	* 1996 01 18.62938	09 41 59.47	+14 22 27.7		327	1997 LY ₄	1997 06 26.72390	19 44 17.01	-05 52 52.1	17.0	327
1996 BE ₁₈	1996 01 18.64348	09 41 58.95	+14 22 35.2		327	1997 LY ₄	1997 06 26.74156	19 44 16.84	-05 52 21.4	17.2	327
1996 BE ₁₈	1996 01 18.65684	09 41 58.45	+14 22 42.6	18.1 V	327	1997 LY ₄	1997 06 27.59262	19 44 19.01	-05 28 20.4		327
1996 BE ₁₈	1996 02 12.64704	09 21 56.63	+18 36 29.6		327	1997 LY ₄	1997 06 27.59556	19 44 19.01	-05 28 15.2	17.5	327
1996 BE ₁₈	1996 02 12.66544	09 21 55.58	+18 36 41.2		327	1997 LY ₄	1997 06 27.59874	19 44 19.00	-05 28 10.0		327
1996 BE ₁₈	1996 02 12.67848	09 21 54.84	+18 36 49.2	17.3 V	327	1997 LY ₄	1997 06 27.80700	19 44 17.42	-05 22 18.0	15.9	327
1996 CL	1997 06 26.67707	17 10 11.77	-20 48 24.2	18.1	327	1997 LY ₄	1997 06 27.81000	19 44 17.41	-05 22 13.5		327
1996 CL	1997 07 10.58238	16 59 05.06	-21 01 50.5	18.6	327	1997 LY ₄	1997 06 27.81297	19 44 17.41	-05 22 07.8		327
1996 CL	1997 07 10.58670	16 59 04.83	-21 01 50.6		327	1997 LY ₄	1997 06 29.58392	19 44 15.92	-04 32 27.0		327
1996 EW ₂	1997 07 10.78406	23 25 00.47	-04 49 23.7		327	1997 LY ₄	1997 06 29.58686	19 44 15.92	-04 32 22.0	15.9	327
1996 EW ₂	1997 07 10.79708	23 25 00.79	-04 49 19.3		327	1997 LY ₄	1997 06 29.58980	19 44 15.86	-04 32 18.0		327
1996 EW ₂	1997 07 10.80141	23 25 00.90	-04 49 18.6		327	1997 LY ₄	1997 06 29.59994	19 44 15.77	-04 32 01.0		327
1996 EW ₂	1997 07 10.80539	23 25 00.96	-04 49 17.8	18.1	327	1997 LY ₄	1997 06 29.60300	19 44 15.70	-04 31 54.0		327
1996 FO ₅	1997 07 10.70047	20 24 28.57	-33 51 11.4		327	1997 LY ₄	1997 07 08.55573	19 42 40.34	-00 32 45.0		327
1996 FO ₅	1997 07 10.70481	20 24 28.24	-33 51 13.3		327	1997 LY ₄	1997 07 08.61017	19 42 39.13	-00 31 23.7		327
1996 FO ₅	1997 07 10.70925	20 24 27.90	-33 51 13.7		327	1997 LY ₄	1997 07 08.64572	19 42 38.28	-00 30 29.9	15.3	327
1996 FO ₅	1997 07 10.71363	20 24 27.71	-33 51 15.4	17.9	327	1997 LY ₄	1997 07 09.64397	19 42 21.45	-00 05 42.9		327
1996 FO ₅	1997 07 12.72473	20 22 17.04	-33 59 35.9		327	1997 LY ₄	1997 07 09.75488	19 42 18.65	-00 02 59.2		327
1996 FO ₅	1997 07 12.72906	20 22 16.69	-33 59 36.3		327	1997 LY ₄	1997 07 09.76735	19 42 18.29	-00 02 41.5	15.7	327
1996 FO ₅	1997 07 12.73341	20 22 16.37	-33 59 37.5	17.7	327	1997 LY ₄	1997 07 10.56751	19 42 05.87	+00 16 46.0	15.4	327
1997 BR	1997 07 04.78037	02 36 38.04	+53 30 40.1		t 327	1997 LY ₄	1997 07 10.57360	19 42 05.67	+00 16 55.0		327
1997 BR	1997 07 04.78472	02 36 37.19	+53 29 53.1		t 327	1997 MA	* 1997 06 16.72248	20 05 57.43	-16 07 36.6		327
1997 BR	1997 07 04.78840	02 36 36.36	+53 29 12.9		t 327	1997 MA	1997 06 16.73750	20 05 57.10	-16 07 39.0	17.7	327
1997 BR	1997 07 04.79187	02 36 35.60	+53 28 34.2		t 327	1997 MA	1997 06 16.75227	20 05 56.71	-16 07 40.5		327
1997 BR	1997 07 07.79073	02 28 05.85	+42 54 53.1		327	1997 MA	1997 06 17.79999	20 05 29.84	-16 09 46.8	17.7	327
1997 BR	1997 07 07.79315	02 28 05.50	+42 54 20.9	16.9	327	1997 MA	1997 06 17.80385	20 05 29.73	-16 09 47.0		327
1997 EW ₂	1997 05 24.56608	11 37 23.76	+08 58 21.4	18.1	327	1997 MA	1997 06 17.80779	20 05 29.64	-16 09 48.1		327
1997 EW ₂	1997 05 24.58108	11 37 24.10	+08 58 17.5		327	1997 MA	1997 06 26.75734	20 00 35.45	-16 32 54.0		327
1997 EW ₂	1997 05 24.59624	11 37 24.42	+08 58 13.4		327	1997 MA	1997 06 26.77230	20 00 34.85	-16 32 56.9	16.5	327
1997 EA ₃	1997 05 24.57087	11 40 06.30	+09 52 59.6		327	1997 MA	1997 06 26.78707	20 00 34.22	-16 32 59.7		327
1997 EA ₃	1997 05 24.58587	11 40 06.74	+09 52 53.8	18.2	327	1997 MA	1997 06 27.73088	19 59 56.85	-16 35 56.1		327

1997 MA	1997 06 27.74440	19 59 56.29	-16 35 58.7	16.5	327	1997 MZ	1997 06 27.79522	20 04 41.52	-15 28 05.0	327
1997 MA	1997 06 27.74874	19 59 56.11	-16 35 59.4		327	1997 MZ	1997 07 10.73061	19 52 38.90	-14 56 14.7	327
1997 MA	1997 06 27.76212	19 59 55.53	-16 36 01.9		327	1997 MZ	1997 07 10.74251	19 52 38.13	-14 56 12.4	327
1997 MB	* 1997 06 16.72734	20 14 45.15	-16 57 00.8		327	1997 MZ	1997 07 10.75458	19 52 37.35	-14 56 11.0	19.6 327
1997 MB	1997 06 16.74235	20 14 44.63	-16 56 57.6	16.9	327	1997 NZ	* 1997 07 01.65523	19 27 18.25	-21 40 17.8	14.8 327
1997 MB	1997 06 16.75669	20 14 44.11	-16 56 54.0		327	1997 NZ	1997 07 01.66830	19 27 17.42	-21 40 12.8	327
1997 MB	1997 06 17.78722	20 14 09.35	-16 52 52.3		327	1997 NZ	1997 07 01.67701	19 27 16.87	-21 40 09.8	327
1997 MB	1997 06 17.79155	20 14 09.19	-16 52 51.1	17.5	327	1997 NZ	1997 07 04.80138	19 24 07.11	-21 22 15.1	327
1997 MB	1997 06 17.79589	20 14 09.05	-16 52 50.9		327	1997 NZ	1997 07 04.80897	19 24 06.62	-21 22 12.5	14.9 327
1997 MU	* 1997 06 26.71365	19 31 19.83	-10 45 49.9		327	1997 NZ	1997 07 04.81431	19 24 06.19	-21 22 09.7	327
1997 MU	1997 06 26.72891	19 31 19.08	-10 45 54.1	17.7	327	1997 NZ	1997 07 09.62692	19 19 07.42	-20 54 17.4	15.0 327
1997 MU	1997 06 26.74654	19 31 18.17	-10 45 59.5		327	1997 NZ	1997 07 09.63277	19 19 07.02	-20 54 16.0	327
1997 MU	1997 06 27.65273	19 30 33.78	-10 50 18.0		327	1997 NZ	1997 07 09.63709	19 19 06.76	-20 54 14.3	327
1997 MU	1997 06 27.66675	19 30 33.04	-10 50 21.7	17.8	327	1997 NZ	1997 07 10.61448	19 18 05.74	-20 48 32.2	14.6 327
1997 MU	1997 06 27.68002	19 30 32.35	-10 50 25.3		327	1997 NZ	1997 07 10.61907	19 18 05.43	-20 48 30.2	327
1997 MV	* 1997 06 26.75734	20 02 34.43	-16 37 22.7		327	1997 NZ	1997 07 10.62340	19 18 05.15	-20 48 29.1	327
1997 MV	1997 06 26.77230	20 02 33.76	-16 37 27.7		327	1997 NA ₃	* 1997 07 04.80138	19 23 23.21	-20 55 25.7	327
1997 MV	1997 06 26.78707	20 02 33.00	-16 37 33.1	18.4	327	1997 NA ₃	1997 07 04.80897	19 23 22.83	-20 55 25.8	18.9 327
1997 MV	1997 06 27.73088	20 01 49.22	-16 42 58.0	18.3	327	1997 NA ₃	1997 07 04.81431	19 23 22.32	-20 55 25.9	327
1997 MV	1997 06 27.74440	20 01 48.51	-16 43 02.6		327	1997 NA ₃	1997 07 09.62692	19 19 17.48	-20 59 26.1	327
1997 MV	1997 06 27.74874	20 01 48.31	-16 43 04.4		327	1997 NA ₃	1997 07 09.63277	19 19 17.14	-20 59 26.6	327
1997 MV	1997 06 27.76212	20 01 47.67	-16 43 08.7		327	1997 NA ₃	1997 07 09.63709	19 19 16.98	-20 59 26.0	18.9 327
1997 MW	* 1997 06 26.75734	20 02 35.63	-16 26 45.5	18.6	327	1997 NB ₃	* 1997 07 07.61623	19 23 23.64	-17 36 02.0	327
1997 MW	1997 06 26.77230	20 02 34.93	-16 26 49.9		327	1997 NB ₃	1997 07 07.62703	19 23 23.03	-17 36 02.0	18.2 327
1997 MW	1997 06 26.78707	20 02 34.37	-16 26 54.9		327	1997 NB ₃	1997 07 07.63759	19 23 22.47	-17 36 02.0	327
1997 MW	1997 06 27.74440	20 01 55.27	-16 31 57.8		327	1997 NB ₃	1997 07 08.63709	19 22 30.20	-17 35 36.1	327
1997 MW	1997 06 27.74874	20 01 55.13	-16 31 59.5		327	1997 NB ₃	1997 07 08.65384	19 22 29.36	-17 35 35.3	18.6 327
1997 MW	1997 06 27.76212	20 01 54.53	-16 32 03.0	19.5	327	1997 NB ₃	1997 07 12.67273	19 18 57.95	-17 34 04.9	18.6 327
1997 MX	* 1997 06 26.76738	20 03 58.11	-15 49 40.7	19.3	327	1997 NB ₃	1997 07 12.68184	19 18 57.48	-17 34 05.1	327
1997 MX	1997 06 26.78227	20 03 57.59	-15 49 44.1		327	1997 NE ₅	* 1997 07 01.73581	22 01 28.23	-12 14 27.5	18.5 327
1997 MX	1997 06 26.79716	20 03 57.00	-15 49 48.2		327	1997 NE ₅	1997 07 01.75123	22 01 28.25	-12 14 25.1	327
1997 MX	1997 06 26.80373	20 03 56.78	-15 49 49.4		327	1997 NE ₅	1997 07 01.76505	22 01 28.24	-12 14 22.0	327
1997 MX	1997 06 27.77395	20 03 21.40	-15 53 40.1	18.2	327	1997 NE ₅	1997 07 09.78644	22 00 35.78	-11 52 12.5	18.2 327
1997 MX	1997 06 27.78466	20 03 20.95	-15 53 42.4		327	1997 NE ₅	1997 07 09.79950	22 00 35.59	-11 52 10.2	327
1997 MX	1997 06 27.79522	20 03 20.58	-15 53 45.2		327	1997 NE ₅	1997 07 09.80383	22 00 35.49	-11 52 10.1	327
1997 MX	1997 07 10.72523	19 53 24.95	-16 56 58.3	18.5	327	1997 NE ₅	1997 07 10.76661	22 00 19.36	-11 50 14.9	327
1997 MX	1997 07 10.73552	19 53 24.35	-16 57 01.7		327	1997 NE ₅	1997 07 10.77094	22 00 19.19	-11 50 14.3	327
1997 MX	1997 07 10.74733	19 53 23.65	-16 57 05.7		327	1997 NE ₅	1997 07 10.77528	22 00 19.15	-11 50 14.8	18.4 327
1997 MX	1997 07 11.75266	19 52 29.59	-17 02 48.5		327	1997 NM ₆	* 1997 07 01.64652	19 34 28.30	-21 13 40.6	327
1997 MX	1997 07 11.75699	19 52 29.38	-17 02 50.2		327	1997 NM ₆	1997 07 01.65958	19 34 27.57	-21 13 43.0	18.8 327
1997 MX	1997 07 11.76133	19 52 29.11	-17 02 51.4	18.6	327	1997 NM ₆	1997 07 09.74700	19 27 20.46	-21 35 41.4	327
1997 MY	* 1997 06 26.76738	20 04 34.20	-15 31 49.2		327	1997 NM ₆	1997 07 09.76295	19 27 19.54	-21 35 44.5	327
1997 MY	1997 06 26.78227	20 04 33.55	-15 31 49.3	19.0	327	1997 NM ₆	1997 07 09.78065	19 27 18.58	-21 35 47.6	17.9 327
1997 MY	1997 06 26.79716	20 04 32.95	-15 31 49.7		327	1997 NN ₆	* 1997 07 01.64652	19 35 12.78	-21 51 33.6	327
1997 MY	1997 06 27.77395	20 03 53.54	-15 32 28.0		327	1997 NN ₆	1997 07 01.65958	19 35 12.05	-21 51 32.9	18.5 327
1997 MY	1997 06 27.78466	20 03 53.03	-15 32 28.2	18.7	327	1997 NN ₆	1997 07 01.67265	19 35 11.35	-21 51 31.4	327
1997 MY	1997 06 27.79522	20 03 52.56	-15 32 28.4		327	1997 NN ₆	1997 07 09.74700	19 27 44.26	-21 37 36.0	327
1997 MZ	* 1997 06 26.76738	20 05 32.13	-15 30 59.0		327	1997 NN ₆	1997 07 09.76295	19 27 43.31	-21 37 34.7	327
1997 MZ	1997 06 26.78227	20 05 31.33	-15 30 56.3		327	1997 NN ₆	1997 07 09.78065	19 27 42.20	-21 37 32.4	17.7 327
1997 MZ	1997 06 26.79716	20 05 30.59	-15 30 54.0	19.9	327	1997 NO ₆	* 1997 07 01.65088	19 44 00.59	-21 43 15.6	327
1997 MZ	1997 06 27.77395	20 04 42.60	-15 28 09.4		327	1997 NO ₆	1997 07 01.66395	19 43 59.73	-21 43 16.1	19.6 327
1997 MZ	1997 06 27.78466	20 04 42.07	-15 28 07.1	18.8	327	1997 NO ₆	1997 07 01.68137	19 43 58.65	-21 43 16.9	327

1997 NO ₆	1997 07 11.73236	19 32 59.71	-21 48 39.8	327
1997 NO ₆	1997 07 11.73682	19 32 59.41	-21 48 39.7	18.7 327
1997 NO ₆	1997 07 11.74116	19 32 59.09	-21 48 39.0	327
1997 NP ₆	* 1997 07 09.62692	19 18 57.90	-20 55 20.6	327
1997 NP ₆	1997 07 09.63277	19 18 57.54	-20 55 22.4	327
1997 NP ₆	1997 07 09.63709	19 18 57.28	-20 55 22.6	18.3 327
1997 NP ₆	1997 07 10.61907	19 17 57.85	-20 57 41.7	327
1997 NP ₆	1997 07 10.62340	19 17 57.61	-20 57 42.9	18.5 327
1997 NQ ₆	* 1997 07 09.78644	21 59 43.88	-11 48 16.8	18.6 327
1997 NQ ₆	1997 07 09.79950	21 59 43.66	-11 48 15.2	327
1997 NQ ₆	1997 07 09.80383	21 59 43.58	-11 48 15.1	327
1997 NQ ₆	1997 07 10.76661	21 59 27.23	-11 47 04.6	327
1997 NQ ₆	1997 07 10.77094	21 59 27.13	-11 47 04.6	327
1997 NQ ₆	1997 07 10.77528	21 59 27.01	-11 47 04.5	18.6 327
1997 NR ₆	* 1997 07 10.59184	19 12 19.48	-16 41 07.0	327
1997 NR ₆	1997 07 10.59619	19 12 19.28	-16 41 08.0	327
1997 NR ₆	1997 07 10.60286	19 12 18.95	-16 41 10.1	17.1 327
1997 NR ₆	1997 07 11.71898	19 11 22.46	-16 47 04.7	327
1997 NR ₆	1997 07 11.72331	19 11 22.25	-16 47 06.5	17.1 327
1997 NR ₆	1997 07 11.72765	19 11 21.96	-16 47 07.3	327
1997 NS ₆	* 1997 07 10.73061	19 52 33.95	-15 04 45.3	327
1997 NS ₆	1997 07 10.74251	19 52 33.35	-15 04 48.1	327
1997 NS ₆	1997 07 10.75458	19 52 32.82	-15 04 51.4	18.8 327
1997 NS ₆	1997 07 11.69850	19 51 49.31	-15 09 09.0	327
1997 NS ₆	1997 07 11.70299	19 51 49.09	-15 09 10.9	19.2 327
1997 NS ₆	1997 07 11.70731	19 51 48.85	-15 09 10.9	327
1997 NT ₆	* 1997 07 10.73061	19 54 42.92	-15 01 31.3	327
1997 NT ₆	1997 07 10.74251	19 54 42.39	-15 01 32.0	19.0 327
1997 NT ₆	1997 07 10.75458	19 54 41.77	-15 01 33.7	327
1997 NT ₆	1997 07 11.69850	19 53 57.16	-15 03 12.4	18.7 327
1997 NT ₆	1997 07 11.70299	19 53 56.94	-15 03 12.6	327
1997 NT ₆	1997 07 11.70731	19 53 56.70	-15 03 12.8	327
1997 NB ₈	* 1997 07 09.62692	19 19 55.28	-21 13 23.2	17.7 327
1997 NB ₈	1997 07 09.63277	19 19 54.89	-21 13 23.4	327
1997 NB ₈	1997 07 09.63709	19 19 54.59	-21 13 24.1	327
1997 NB ₈	1997 07 12.65940	19 16 44.80	-21 13 17.7	17.2 327
1997 NB ₈	1997 07 12.66808	19 16 44.18	-21 13 17.0	327
1997 NB ₈	1997 07 12.67707	19 16 43.59	-21 13 17.4	327
1997 NC ₈	* 1997 07 10.70047	20 24 20.71	-33 59 25.2	18.0 327
1997 NC ₈	1997 07 10.70481	20 24 20.49	-33 59 27.1	327
1997 NC ₈	1997 07 10.70925	20 24 20.23	-33 59 27.2	327
1997 NC ₈	1997 07 10.71363	20 24 20.03	-33 59 28.3	327
1997 NC ₈	1997 07 12.72473	20 22 38.11	-34 07 18.5	327
1997 NC ₈	1997 07 12.72906	20 22 37.89	-34 07 20.4	327
1997 NC ₈	1997 07 12.73341	20 22 37.61	-34 07 20.9	18.4 327
1997 ND ₈	* 1997 07 11.69850	19 53 22.34	-15 06 09.4	18.4 327
1997 ND ₈	1997 07 11.70299	19 53 22.05	-15 06 10.0	327
1997 ND ₈	1997 07 11.70731	19 53 21.81	-15 06 09.6	327
1997 ND ₈	1997 07 12.70569	19 52 25.69	-15 06 43.7	17.6 327
1997 ND ₈	1997 07 12.71003	19 52 25.41	-15 06 43.4	327
1997 ND ₈	1997 07 12.71436	19 52 25.16	-15 06 43.7	327
1997 NE ₈	* 1997 07 11.69850	19 54 09.03	-14 50 24.9	327

1997 NE ₈	1997 07 11.70299	19 54 08.82	-14 50 26.0	18.1	327
1997 NE ₈	1997 07 11.70731	19 54 08.55	-14 50 27.9		327
1997 NE ₈	1997 07 12.70569	19 53 15.95	-14 57 07.4	17.2	327
1997 NE ₈	1997 07 12.71003	19 53 15.74	-14 57 08.9		327
1997 NE ₈	1997 07 12.71436	19 53 15.45	-14 57 10.9		327
1997 NF ₈	* 1997 07 11.73236	19 34 15.98	-21 53 26.9		327
1997 NF ₈	1997 07 11.73682	19 34 15.75	-21 53 27.8	18.5	327
1997 NF ₈	1997 07 11.74116	19 34 15.46	-21 53 29.2		327
1997 NF ₈	1997 07 12.69252	19 33 24.88	-21 57 40.7	17.4	327
1997 NF ₈	1997 07 12.69686	19 33 24.64	-21 57 41.9		327
1997 NF ₈	1997 07 12.70135	19 33 24.38	-21 57 42.9		327
(2798)	1997 05 22.74875	19 41 57.68	-14 59 22.4		327
(2798)	1997 05 22.77449	19 41 57.63	-14 59 17.7		327
(2798)	1997 05 22.78914	19 41 57.60	-14 59 14.6		327
(2798)	1997 05 22.80381	19 41 57.59	-14 59 11.3	17.7	327
(3225)	1997 05 24.61845	14 20 19.10	+17 19 26.2		327
(3225)	1997 05 24.63375	14 20 18.53	+17 19 33.0	15.8	327
(3225)	1997 05 24.64896	14 20 17.97	+17 19 40.1		327
(3705)	1997 07 10.61448	19 19 15.71	-20 41 04.3	16.9	327
(3705)	1997 07 10.61907	19 19 15.45	-20 41 04.2		327
(3705)	1997 07 10.62340	19 19 15.25	-20 41 05.0		327
(3705)	1997 07 12.65940	19 17 31.87	-20 44 51.7		327
(3705)	1997 07 12.66808	19 17 31.32	-20 44 52.4	16.8	327
(3705)	1997 07 12.67707	19 17 30.84	-20 44 53.0		327
(3761)	1997 05 21.77318	20 01 15.77	+01 35 01.2	15.1	327
(3761)	1997 05 21.78282	20 01 16.03	+01 35 08.2		327
(4107)	1997 05 23.68424	14 39 13.04	+11 10 39.8	16.5	327
(4107)	1997 05 23.69402	14 39 12.65	+11 10 39.4		327
(4107)	1997 05 23.70388	14 39 12.22	+11 10 39.0		327
(5317)	1997 07 12.62980	19 08 01.85	-16 42 54.4	15.9	327
(5317)	1997 07 12.63922	19 08 01.32	-16 42 58.5		327
(5317)	1997 07 12.64789	19 08 00.80	-16 43 04.6		327
(5551)	1997 06 26.76738	20 02 58.86	-15 20 32.6		327
(5551)	1997 06 26.78227	20 02 58.04	-15 20 42.1	17.9	327
(5551)	1997 06 26.79716	20 02 57.28	-15 20 51.2		327
(5551)	1997 06 26.80373	20 02 56.93	-15 20 55.5		327
(5551)	1997 06 29.68839	20 00 24.40	-15 51 13.8	17.6	327
(5551)	1997 06 29.69273	20 00 24.13	-15 51 16.9		327
(6043)	1997 05 24.56608	11 37 29.24	+09 02 43.1		327
(6043)	1997 05 24.58108	11 37 29.49	+09 02 40.9	18.0	327
(6043)	1997 05 24.59624	11 37 29.76	+09 02 38.2		327
(6425)	1997 06 09.60095	15 27 50.05	-05 52 31.5	16.0	327
(6425)	1997 06 09.60572	15 27 49.90	-05 52 30.5		327
(6425)	1997 06 09.61061	15 27 49.74	-05 52 29.2		327

355 Hadano

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

[asami@st.rim.or.jp]

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

GSC

1988 XB	1997 06 24.47245	14 03 27.90	-18 48 47.9	355
1988 XB	1997 06 24.48392	14 03 21.46	-18 48 37.2	355
1997 LY ₄	1997 06 26.53752	19 44 17.50	-05 58 05.4	355

1997 LY ₄	1997 06 26.53906	19 44 17.47	−05 58 02.5		355
1997 LY ₄	1997 06 26.54258	19 44 17.54	−05 57 57.2		355
1997 LY ₄	1997 07 04.64095	19 43 35.14	−02 14 07.9		355
1997 LY ₄	1997 07 04.64226	19 43 35.15	−02 14 07.2		355
1997 LY ₄	1997 07 04.64514	19 43 35.07	−02 14 02.6		355
1997 MW ₁	1997 07 01.57264	18 16 41.69	−02 41 25.2	17.5 V	355
1997 MW ₁	1997 07 01.57701	18 16 40.30	−02 41 17.0		355

358 Nanyou

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

1997 LE ₁₀	* 1997 06 06.62169	16 25 06.26	−05 49 34.2	18.0 V	358
1997 LE ₁₀	1997 06 06.64620	16 25 05.24	−05 49 34.9		358
1997 LE ₁₀	1997 06 06.66422	16 25 04.33	−05 49 31.0		358
1997 LE ₁₀	1997 06 08.57725	16 23 35.58	−05 50 02.1	18.5 V	358
1997 LE ₁₀	1997 06 08.62873	16 23 33.24	−05 50 06.6		358
1997 LE ₁₀	1997 06 08.65375	16 23 32.10	−05 50 08.2		358
1997 LE ₁₀	1997 06 14.62645	16 19 07.59	−05 54 50.1	18.3 V	358
1997 LE ₁₀	1997 06 14.63615	16 19 06.95	−05 54 47.7		358
1997 LE ₁₀	1997 06 14.65560	16 19 06.08	−05 54 51.4		358
1997 NG ₃	* 1997 07 01.63458	20 40 17.27	−07 33 36.7	17.1 V	358
1997 NG ₃	1997 07 01.65404	20 40 16.51	−07 33 37.8		358
1997 NG ₃	1997 07 06.67822	20 37 39.31	−07 49 02.7	17.6 V	358
1997 NG ₃	1997 07 06.68683	20 37 38.99	−07 49 04.8		358
1997 NG ₃	1997 07 06.69792	20 37 38.67	−07 49 06.5		358

360 Kuma Kogen Astronomical Observatory

A. Nakamura, Shimo-Hatanokawa, Kuma, Kamiukena-Gun, Ehime-Ken, 791-12
Japan [a-nakamu@mx2.nisiq.net]
0.60-m *f*/6.0 Ritchey-Chrétien + CCD
GSC, USNO-SA1.0

1992 EQ ₉	1997 07 05.75486	00 47 40.31	+06 35 45.7	19.4 V	360
1992 EQ ₉	1997 07 05.75903	00 47 40.59	+06 35 47.7		360
1992 EQ ₉	1997 07 05.76476	00 47 41.01	+06 35 49.6		360
1992 LR	1997 06 29.75781	23 41 13.05	+06 10 58.2	17.6 V	360
1992 LR	1997 06 29.76111	23 41 13.93	+06 11 04.6		360
1992 LR	1997 06 29.76337	23 41 14.54	+06 11 09.3		360
1994 QC	1997 06 29.63299	17 11 42.62	+38 55 11.3	18.0 V	360
1994 QC	1997 06 29.63715	17 11 42.59	+38 55 04.7		360
1994 QC	1997 06 29.64132	17 11 42.59	+38 54 58.0		360
1996 DD ₃	1997 06 29.69236	19 47 50.53	−26 37 47.1		360
1996 DD ₃	1997 06 29.69844	19 47 50.20	−26 37 47.6		360
1996 DD ₃	1997 06 29.70399	19 47 49.83	−26 37 49.6		360
1996 DD ₃	1997 07 05.66076	19 41 52.53	−26 57 55.9	19.5 V	360
1996 DD ₃	1997 07 05.66649	19 41 52.16	−26 57 56.8		360
1997 BQ	1997 06 29.76979	22 26 03.05	−39 12 01.1	18.9 V	360
1997 BQ	1997 06 29.77413	22 26 02.69	−39 12 06.1		360
1997 BQ	1997 06 29.77865	22 26 02.27	−39 12 11.1		360
1997 GH ₃	1997 06 29.56024	13 57 13.22	−07 12 56.3	19.2 V	360
1997 GH ₃	1997 06 29.56458	13 57 13.75	−07 12 59.4		360
1997 GH ₃	1997 06 29.56997	13 57 14.47	−07 13 04.2		360
1997 GR ₂₄	1997 07 03.54149	14 41 16.83	−03 29 29.1		360

1997 GR ₂₄	1997 07 05.57118	14 41 39.22	−03 33 22.9	18.3 V	360
1997 GR ₂₄	1997 07 05.58056	14 41 39.31	−03 33 23.9		360
1997 MS	1997 06 29.60764	15 32 34.04	−22 01 25.8		360
1997 MS	1997 06 29.61233	15 32 33.47	−22 01 49.5		360
1997 MS	1997 06 29.61684	15 32 32.85	−22 02 12.6	F	360
1997 MW ₁	1997 07 05.60694	18 00 09.06	−01 03 48.6	17.3 V	360
1997 MW ₁	1997 07 05.61007	18 00 08.29	−01 03 44.5		360
1997 MW ₁	1997 07 05.61319	18 00 07.53	−01 03 40.2		360
1997 MD ₁₀	1997 07 05.61858	18 40 02.55	−24 42 29.1	18.7 V	c 360
1997 MD ₁₀	1997 07 05.62118	18 40 02.17	−24 42 23.5		c 360
1997 MD ₁₀	1997 07 05.62882	18 40 01.10	−24 42 11.5		c 360
1997 NZ ₂	1997 07 05.64462	19 37 29.52	−27 16 51.9	17.2 V	360
1997 NZ ₂	1997 07 05.64878	19 37 29.29	−27 16 53.1		360
1997 NZ ₂	1997 07 05.65503	19 37 28.94	−27 16 54.7		360

367 Yatsuka

H. Abe, 461-2, Futago, Yatsuka-Cho, Shimane-Ken, 690-14 Japan
0.26-m *f*/6.0 reflector + CCD
GSC

1991 TV ₄	1997 06 29.64340	19 16 07.01	−19 39 29.1	16.0 V	367
1991 TV ₄	1997 06 29.64826	19 16 06.69	−19 39 30.9		367
1991 TV ₄	1997 07 04.65519	19 11 20.56	−19 59 00.1	15.9 V	367
1991 TV ₄	1997 07 04.66005	19 11 20.26	−19 59 01.3		367
1993 TX	1997 06 29.68194	22 21 30.61	−30 02 44.6	17.0 V	367
1993 TX	1997 06 29.68611	22 21 30.70	−30 02 46.1		367
1993 TX	1997 07 04.71003	22 23 35.55	−30 35 35.2	16.9 V	367
1993 TX	1997 07 04.71425	22 23 35.63	−30 35 36.8		367
1993 TX	1997 07 04.71837	22 23 35.70	−30 35 38.6		367
1994 XK	1997 06 29.65243	19 54 50.55	−28 38 27.0	16.6 V	367
1994 XK	1997 06 29.65733	19 54 50.27	−28 38 28.6		367
1994 XK	1997 07 04.66424	19 50 39.16	−29 07 50.1	17.0 V	367
1994 XK	1997 07 04.66907	19 50 38.88	−29 07 51.9		367
1994 YE ₁	1997 06 29.66979	20 11 33.97	−16 01 06.1	17.0 V	367
1994 YE ₁	1997 06 29.67465	20 11 33.72	−16 01 04.4		367
1994 YE ₁	1997 07 04.67359	20 07 17.35	−15 48 04.3	16.8 V	367
1994 YE ₁	1997 07 04.67845	20 07 17.07	−15 48 04.1		367
1997 LY ₄	1997 06 29.66146	19 44 14.77	−04 30 16.8	16.5 V	367
1997 LY ₄	1997 06 29.66562	19 44 14.73	−04 30 09.9		367
1997 LY ₄	1997 07 04.68309	19 43 34.42	−02 13 00.8	16.6 V	367
1997 LY ₄	1997 07 04.68666	19 43 34.35	−02 12 55.2		367
1997 NZ	1997 07 13.54723	19 15 03.54	−20 31 24.6	15.1 V	367
1997 NZ	1997 07 13.55348	19 15 03.13	−20 31 22.6		367
1997 NZ	1997 07 13.55973	19 15 02.75	−20 31 20.4		367

381 Kiso Observatory

D. J. Asher, Communications Research Laboratory, Hirai 893-1, Kashima, Ibaraki-Ken, 314 Japan [david@crl.go.jp]
Observers H. Kosai, K. Hurukawa
Measurer D. J. Asher
1.05-m Kiso Schmidt
AGK3

1997 BR	1980 02 09.59251	09 05 13.01	+38 00 23.9		V 381
1997 BR	1980 02 09.63425	09 05 07.18	+38 02 14.7		V 381

(3779)	1980 02 09.59251	09 10 19.50	+39 54 57.7	381
(3779)	1980 02 09.63425	09 10 17.26	+39 55 08.0	381
(3985)	1980 02 08.49251	09 04 20.19	+35 43 39.6	381
(3985)	1980 02 08.50425	09 04 19.27	+35 43 46.2	381
(3985)	1980 02 09.59251	09 03 15.50	+35 50 11.8	381
(3985)	1980 02 09.63425	09 03 13.14	+35 50 27.8	381

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

1987 TA	1997 07 05.53663	16 01 21.01	-28 07 51.9	16.8 V	385
1987 TA	1997 07 05.54087	16 01 21.00	-28 07 51.3		385
1987 TA	1997 07 05.55340	16 01 20.43	-28 07 48.6		385
1990 UC	1997 07 04.67120	23 11 32.06	+03 18 47.6	17.9 V	385
1990 UC	1997 07 04.68574	23 11 32.85	+03 18 51.9		385
1991 AB	1997 07 02.61324	16 26 19.92	-07 58 14.3	18.8 V	385
1991 AB	1997 07 02.62850	16 26 19.36	-07 58 17.8		385
1991 BE	1997 07 04.66498	23 04 46.75	+17 52 04.0	18.9 V	385
1991 BE	1997 07 04.67617	23 04 46.78	+17 52 10.4		385
1991 BE	1997 07 04.68112	23 04 46.76	+17 52 14.1		385
1991 TP ₁	1997 07 04.48856	14 18 05.36	-12 43 49.1	18.5 V	385
1991 TP ₁	1997 07 04.50525	14 18 05.75	-12 43 49.7		385
1993 DG ₂	1997 07 04.59120	19 25 07.45	-17 27 28.6	17.6 V	385
1993 DG ₂	1997 07 04.63315	19 25 04.66	-17 27 40.7		385
1993 EE	1997 07 02.66631	19 38 46.37	-17 57 09.5	17.7 V	385
1993 EE	1997 07 02.68936	19 38 45.04	-17 57 13.4	I	385
1993 EE	1997 07 04.60235	19 36 50.67	-18 05 11.7	18.3 V	385
1993 EE	1997 07 04.64233	19 36 48.10	-18 05 22.9		385
1994 QW	1997 07 02.61914	16 41 56.88	-10 45 30.3	18.1 V	385
1994 QW	1997 07 02.63785	16 41 55.99	-10 45 34.0		385
1994 SB	1997 07 02.69691	22 29 22.42	-06 25 33.8	17.9 V	385
1994 SB	1997 07 04.64904	22 29 13.71	-06 19 34.2	17.5 V	385
1994 SB	1997 07 04.69154	22 29 13.42	-06 19 27.3		385
1994 UB ₁	1997 07 04.50812	15 25 14.01	-27 45 16.9	17.7 V	385
1994 UB ₁	1997 07 04.52439	15 25 13.83	-27 45 16.7		385
1994 VZ	1997 07 02.64942	19 16 42.61	-11 57 26.9		385
1994 VZ	1997 07 04.58560	19 14 52.63	-11 55 08.2	17.5 V	385
1994 WP ₃	1997 07 04.51248	16 36 22.24	-18 50 00.1	18.2 V	385
1994 WP ₃	1997 07 04.53590	16 36 20.94	-18 50 07.0		385
1995 BJ ₁	1997 07 04.57955	18 47 30.17	-23 13 00.9		385
1995 BJ ₁	1997 07 04.61608	18 47 28.34	-23 13 02.6	I	385
1995 WZ ₃	1997 07 04.51725	16 57 13.82	-28 40 35.8	16.5 V	385
1995 WZ ₃	1997 07 04.51948	16 57 13.69	-28 40 36.1		385
1995 WZ ₃	1997 07 04.53978	16 57 12.74	-28 40 38.4		385
1995 WZ ₃	1997 07 05.52872	16 56 32.67	-28 41 55.1		385
1995 WZ ₃	1997 07 05.54491	16 56 31.89	-28 41 57.7		385
1995 WZ ₃	1997 07 05.54774	16 56 31.79	-28 41 57.7		385
(7036)	1997 07 04.65486	22 34 09.62	+00 22 05.4	18.2 V	385
(7036)	1997 07 04.69632	22 34 09.22	+00 22 13.0		385

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

1980 RG ₁	1997 06 29.60491	16 22 21.51	-18 08 46.7	20.3 V	402
1980 RG ₁	1997 06 29.60838	16 22 21.29	-18 08 45.7		402
1980 RG ₁	1997 06 29.61185	16 22 21.13	-18 08 44.0		402
1988 XB	1997 06 23.54588	14 11 33.66	-19 01 52.1	16.7 V	402
1988 XB	1997 06 23.54727	14 11 32.91	-19 01 51.1		402
1988 XB	1997 06 23.54866	14 11 32.18	-19 01 49.9		402
1988 XB	1997 06 24.49796	14 03 13.80	-18 48 23.9	16.4 V	S 402
1988 XB	1997 06 24.49935	14 03 13.07	-18 48 22.9		S 402
1988 XB	1997 06 29.52451	13 13 43.35	-17 02 11.6	16.0 V	402
1988 XB	1997 06 29.52590	13 13 42.45	-17 02 09.7		402
1988 XB	1997 06 29.52729	13 13 41.60	-17 02 06.9		402
1988 XB	1997 07 06.48247	11 52 16.88	-12 30 54.1	17.3 V	402
1988 XB	1997 07 06.48385	11 52 15.81	-12 30 49.3		402
1988 XB	1997 07 06.48524	11 52 14.76	-12 30 45.0		402
1991 VH	1997 06 23.58390	12 26 35.49	+23 39 30.3	18.2 V	402
1991 VH	1997 06 23.58737	12 26 36.04	+23 39 24.8		402
1991 VH	1997 06 23.59085	12 26 36.39	+23 39 18.6		402
1992 EQ ₉	1997 07 04.72353	00 46 26.71	+06 28 24.2	19.0 V	402
1992 EQ ₉	1997 07 04.75175	00 46 28.78	+06 28 36.1	18.8 V	402
1992 EQ ₉	1997 07 04.75753	00 46 29.22	+06 28 38.7	18.8 V	402
1992 EQ ₉	1997 07 04.76332	00 46 29.61	+06 28 41.3	18.6 V	402
1992 EQ ₉	1997 07 05.70808	00 47 37.04	+06 35 25.6	18.9 V	402
1992 EQ ₉	1997 07 05.71016	00 47 37.14	+06 35 26.7		402
1992 EQ ₉	1997 07 05.71225	00 47 37.31	+06 35 27.1		402
1994 QC	1997 06 23.66919	17 11 11.14	+41 09 35.4	17.8 V	402
1994 QC	1997 06 23.67266	17 11 11.08	+41 09 31.3		402
1994 QC	1997 06 23.67613	17 11 11.05	+41 09 26.9		402
1997 AR ₁₆	1997 06 24.47140	11 36 56.72	-05 18 38.2	18.2 V	S 402
1997 AR ₁₆	1997 06 24.47418	11 36 56.89	-05 18 40.9		S 402
1997 AR ₁₆	1997 06 24.47696	11 36 57.11	-05 18 42.4		S 402
1997 AR ₁₆	1997 07 04.51005	11 47 17.84	-06 53 19.6	18.6 V	402
1997 AR ₁₆	1997 07 04.51213	11 47 17.95	-06 53 20.3		402
1997 AR ₁₆	1997 07 04.51421	11 47 18.07	-06 53 21.5		402
1997 BR	1997 06 23.70786	04 00 13.81	+76 32 07.7	17.9 V	t 402
1997 BR	1997 06 23.71133	04 00 11.27	+76 31 53.1		t 402
1997 MS	1997 06 26.55785	15 39 11.45	-17 05 36.0	18.8 V	402
1997 MS	1997 06 26.55993	15 39 11.15	-17 05 51.5		402
1997 MS	1997 06 26.56201	15 39 10.86	-17 06 03.5		402
1997 MW ₁	1997 06 30.71418	18 20 21.93	-03 04 14.8	18.8 V	402
1997 MW ₁	1997 06 30.71557	18 20 21.58	-03 04 13.7		402
1997 MW ₁	1997 06 30.71696	18 20 21.20	-03 04 11.9		402
1997 MW ₁	1997 07 04.61917	18 04 03.30	-01 26 09.6	18.5 V	402
1997 MW ₁	1997 07 04.62125	18 04 02.78	-01 26 06.7		402
1997 MW ₁	1997 07 04.62333	18 04 02.24	-01 26 03.7		402
1997 MW ₁	1997 07 06.57337	17 56 25.84	-00 42 58.4	18.8 V	402
1997 MW ₁	1997 07 06.57545	17 56 25.33	-00 42 55.3		402
1997 MW ₁	1997 07 06.57753	17 56 24.84	-00 42 53.1		402

1997 NW	* 1997 07 03.59869	18 08 04.99	-01 47 32.6	19.3 V	402
1997 NW	1997 07 03.60286	18 08 04.77	-01 47 35.4		402
1997 NW	1997 07 03.66663	18 08 01.51	-01 48 23.4		402
1997 NW	1997 07 03.67080	18 08 01.29	-01 48 26.6		402
1997 NW	1997 07 04.59678	18 07 16.05	-02 00 07.5	20.5 V	402
1997 NW	1997 07 04.59887	18 07 15.92	-02 00 08.9		402
1997 NW	1997 07 04.60095	18 07 15.84	-02 00 10.3		402
1997 NW	1997 07 05.68402	18 06 23.33	-02 14 00.6	19.5 V	402
1997 NW	1997 07 05.68610	18 06 23.21	-02 14 02.3		402
1997 NW	1997 07 05.68818	18 06 23.16	-02 14 03.5		402
1997 NW	1997 07 06.58721	18 05 40.41	-02 25 40.6	19.9 V	402
1997 NW	1997 07 06.58999	18 05 40.28	-02 25 42.8		402
1997 NW	1997 07 06.59277	18 05 40.14	-02 25 44.9		402
1997 NX	* 1997 07 03.59869	18 08 35.03	-01 46 34.4	19.8 V	402
1997 NX	1997 07 03.60286	18 08 34.80	-01 46 36.7		402
1997 NX	1997 07 03.66663	18 08 31.50	-01 46 55.3		402
1997 NX	1997 07 03.67080	18 08 31.33	-01 46 56.6		402
1997 NX	1997 07 04.58443	18 07 46.57	-01 51 38.6	19.8 V	402
1997 NX	1997 07 04.58652	18 07 46.45	-01 51 39.4		402
1997 NX	1997 07 04.58860	18 07 46.36	-01 51 40.0		402
1997 NX	1997 07 06.60315	18 06 08.87	-02 02 40.2	20.5 V	402
1997 NX	1997 07 06.60593	18 06 08.73	-02 02 40.9		402
1997 NX	1997 07 06.60870	18 06 08.58	-02 02 42.1		402
1997 NZ ₂	1997 07 03.63836	19 39 13.25	-27 08 22.4	18.7 V	402
1997 NZ ₂	1997 07 03.64044	19 39 13.13	-27 08 22.8		402
1997 NZ ₂	1997 07 03.64252	19 39 13.01	-27 08 23.2		402
1997 NZ ₂	1997 07 06.64212	19 36 36.83	-27 21 00.1	18.3 V	402
1997 NZ ₂	1997 07 06.64420	19 36 36.72	-27 21 00.8		402
1997 NZ ₂	1997 07 06.64628	19 36 36.60	-27 21 01.1		402
(7467)	1997 06 26.70339	19 06 20.88	-40 01 25.2	18.5 V	402
(7467)	1997 06 26.70617	19 06 20.53	-40 01 28.1		402
(7467)	1997 06 26.70895	19 06 20.31	-40 01 30.9		402

413 Siding Spring

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Observer K. S. Russell

Measurer O. Hernius

1.2-m U.K. Schmidt

1997 HC ₁₆	1993 04 18.43884	12 41 21.33	-04 22 08.9	17.2	413
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422 Loomberah

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0.25-m *f*/4.1 reflector + CCD

GSC

1986 PU ₁	1997 06 27.55203	19 28 48.87	-25 29 00.1		I 422
1986 PU ₁	1997 06 27.55438	19 28 48.71	-25 29 01.0		I 422
1997 BQ	1997 06 19.77992	22 35 36.22	-35 52 22.5		422
1997 BQ	1997 06 27.59317	22 28 50.08	-38 29 14.7	18.7 R	422
1997 BQ	1997 06 27.59610	22 28 49.94	-38 29 18.5	19.1 R	422
1997 BQ	1997 06 27.59903	22 28 49.77	-38 29 21.7	19.5 R	422
1997 MS	1997 06 28.49545	15 34 43.89	-20 23 23.9		F 422
1997 MS	1997 06 28.49733	15 34 43.74	-20 23 33.3		F 422

1997 MS	1997 06 28.50548	15 34 42.62	-20 24 20.6		F 422
1997 MS	1997 06 28.50749	15 34 42.36	-20 24 31.2		F 422
1997 MS	1997 07 02.43132	15 28 11.92	-25 27 45.3	19.4 R	422
1997 MS	1997 07 02.43715	15 28 11.36	-25 28 07.1	19.3 R	422
1997 MS	1997 07 02.43900	15 28 11.23	-25 28 16.1	19.3 R	422
1997 MW ₁	1997 07 01.54208	18 16 49.48	-02 41 36.7		F 422
1997 MW ₁	1997 07 01.54316	18 16 49.28	-02 41 31.9		F 422
1997 MW ₁	1997 07 01.54395	18 16 48.96	-02 41 33.9		F 422
1997 MW ₁	1997 07 01.54700	18 16 48.08	-02 41 28.2	19.1 R	422
1997 MW ₁	1997 07 01.54810	18 16 47.80	-02 41 26.5	19.2 R	422
1997 MW ₁	1997 07 03.68912	18 07 48.30	-01 47 31.2	18.3 R	422
1997 MW ₁	1997 07 03.69868	18 07 45.84	-01 47 17.2	19.1 R	422
1997 MW ₁	1997 07 03.70227	18 07 44.95	-01 47 12.4	18.9 R	422
1997 MW ₁	1997 07 03.72119	18 07 40.20	-01 46 44.0	18.6 R	422
1997 MW ₁	1997 07 07.42493	17 53 15.12	-00 24 50.1	18.7 R	422
1997 MW ₁	1997 07 07.42653	17 53 14.77	-00 24 49.0	19.0 R	422
1997 MW ₁	1997 07 07.42812	17 53 14.36	-00 24 46.7	18.6 R	422
1997 ME ₃	1997 07 03.65729	18 45 01.34	-25 44 45.4	17.2 R	422
1997 ME ₃	1997 07 03.65952	18 45 01.16	-25 44 45.8	17.0 R	422
1997 ME ₃	1997 07 03.66175	18 45 00.99	-25 44 45.7	16.9 R	422
1997 ME ₃	1997 07 03.66572	18 45 00.72	-25 44 46.2	16.9 R	422
1997 NC ₁	1997 07 06.39041	13 10 22.36	-10 13 17.7	16.4 R	E 422
1997 NC ₁	1997 07 07.37935	13 11 38.17	-12 24 05.1	16.2 R	422
1997 NC ₁	1997 07 07.38023	13 11 38.21	-12 24 11.7	16.0 R	422
1997 NC ₁	1997 07 07.38106	13 11 38.23	-12 24 18.1	16.1 R	422
1997 NC ₁	1997 07 10.46025	13 15 26.71	-18 31 18.1	17.0 R	422
1997 NC ₁	1997 07 10.46272	13 15 26.85	-18 31 34.8	17.1 R	422
(15)	1997 06 23.73981	17 36 14.10	-31 24 38.7	9.3 R	422
(15)	1997 06 23.74059	17 36 14.06	-31 24 38.3	9.3 R	422
(15)	1997 06 23.74139	17 36 13.99	-31 24 38.2	9.3 R	422
(15)	1997 06 26.48053	17 33 21.53	-31 12 54.3	9.3 R	422
(15)	1997 06 26.48144	17 33 21.47	-31 12 54.1	9.4 R	422
(15)	1997 06 26.48234	17 33 21.41	-31 12 53.7	9.3 R	422
(15)	1997 07 06.46907	17 23 38.15	-30 24 45.1	9.5 R	422
(15)	1997 07 06.47001	17 23 38.10	-30 24 44.7	9.6 R	422
(15)	1997 07 06.47096	17 23 38.04	-30 24 44.5	9.4 R	422
(46)	1997 06 26.46545	15 39 59.24	-16 09 06.3	13.0 R	422
(46)	1997 06 26.46636	15 39 59.21	-16 09 06.0	13.0 R	422
(46)	1997 06 26.46726	15 39 59.18	-16 09 06.1	13.0 R	422
(46)	1997 07 06.42927	15 36 20.11	-16 03 14.6	13.3 R	422
(46)	1997 07 06.43021	15 36 20.10	-16 03 14.7	13.1 R	422
(46)	1997 07 06.43115	15 36 20.08	-16 03 14.5	13.3 R	422
(69)	1997 06 19.74569	22 08 47.03	-03 16 42.3	13.8 R	422
(69)	1997 06 19.74650	22 08 47.03	-03 16 42.0	13.8 R	422
(69)	1997 06 19.74730	22 08 47.04	-03 16 42.0	13.8 R	422
(69)	1997 06 23.79226	22 08 52.81	-03 11 38.7	13.7 R	422
(126)	1997 06 23.79406	22 08 52.80	-03 11 38.4	13.7 R	422
(126)	1997 06 19.72332	18 55 20.19	-27 42 50.6	12.0 R	422
(126)	1997 06 23.75849	18 51 23.75	-27 51 58.3	12.1 R	422
(126)	1997 06 23.75929	18 51 23.70	-27 51 58.4	12.0 R	422
(126)	1997 06 23.76009	18 51 23.65	-27 51 58.5	12.0 R	422
(126)	1997 07 03.74832	18 40 52.30	-28 09 39.0	11.7 R	422

(126)	1997 07 03.74951	18 40 52.23	-28 09 39.1	11.8 R	422
(183)	1997 06 19.71077	18 31 02.84	+05 17 10.7	14.8 R	422
(183)	1997 06 19.71130	18 31 02.81	+05 17 10.9	14.7 R	422
(183)	1997 06 19.71182	18 31 02.81	+05 17 10.7	14.8 R	422
(183)	1997 06 23.73152	18 27 34.56	+05 07 17.9	15.0 R	422
(183)	1997 06 23.73233	18 27 34.56	+05 07 17.5	14.8 R	422
(183)	1997 06 23.73314	18 27 34.51	+05 07 17.5	15.0 R	422
(183)	1997 07 03.73813	18 18 40.37	+04 27 47.6	14.6 R	422
(183)	1997 07 03.73920	18 18 40.29	+04 27 47.6	14.5 R	422
(183)	1997 07 03.74028	18 18 40.26	+04 27 47.0	14.5 R	422
(253)	1997 06 19.80629	01 41 35.98	+10 27 23.1	14.6 R	422
(253)	1997 06 19.80786	01 41 36.15	+10 27 24.4	14.7 R	422
(253)	1997 06 19.80930	01 41 36.33	+10 27 25.0	14.5 R	422
(253)	1997 06 19.80993	01 41 36.40	+10 27 25.1	14.5 R	422
(253)	1997 06 23.82054	01 49 25.85	+11 00 46.6	14.4 R	422
(253)	1997 06 23.82141	01 49 25.95	+11 00 47.1	14.5 R	422
(253)	1997 06 23.82228	01 49 26.05	+11 00 47.4	14.5 R	422
(313)	1997 06 23.80264	22 14 11.17	-00 28 38.6	14.4 R	422
(313)	1997 06 23.80336	22 14 11.16	-00 28 38.5	14.4 R	422
(313)	1997 06 23.80404	22 14 11.18	-00 28 38.2	14.4 R	422
(313)	1997 07 06.82814	22 13 15.60	-00 22 53.1	14.2 R	422
(313)	1997 07 06.82900	22 13 15.60	-00 22 53.1	14.2 R	422
(313)	1997 07 06.82983	22 13 15.57	-00 22 53.0	14.2 R	422
(1474)	1997 06 27.52783	14 16 34.69	-48 27 00.6	18.9 R	I 422
(1474)	1997 06 27.53075	14 16 34.67	-48 26 57.9	18.9 R	I 422
(1474)	1997 06 27.53368	14 16 34.67	-48 26 56.5	18.8 R	422
(1508)	1997 06 27.57634	22 26 00.08	-46 02 58.8	18.4 R	422
(1508)	1997 06 27.57951	22 26 00.08	-46 03 00.2	18.5 R	422
(2938)	1997 06 19.78515	23 59 29.86	-31 26 25.2	16.4 R	422
(2938)	1997 06 19.78712	23 59 30.01	-31 26 26.6	16.3 R	422
(2938)	1997 06 19.78912	23 59 30.30	-31 26 28.8	16.1 R	422

423 North Ryde

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

1990 TU ₈	1997 07 09.59280	20 06 44.36	-25 06 51.0	16.5 V	423
1990 TU ₈	1997 07 09.61880	20 06 43.00	-25 06 55.2	17.0 V	423
1990 TU ₈	1997 07 09.66002	20 06 40.81	-25 07 01.3	16.3 V	423
1990 TU ₈	1997 07 09.69682	20 06 38.91	-25 07 07.5	17.0 V	423
1996 BV ₃	1997 06 28.59596	20 14 18.23	-25 08 49.1	16.5 V	423
1996 BV ₃	1997 07 07.55669	20 07 55.20	-26 16 28.0	16.4 V	423
1996 BV ₃	1997 07 07.57472	20 07 54.26	-26 16 36.6	16.4 V	423
1996 BV ₃	1997 07 07.58556	20 07 53.68	-26 16 41.5	16.5 V	423
1996 BV ₃	1997 07 07.66089	20 07 49.69	-26 17 15.5	16.7 V	423
1996 BV ₃	1997 07 08.57182	20 07 04.36	-26 24 08.3	15.8 V	423
1996 BV ₃	1997 07 08.57953	20 07 03.96	-26 24 12.3	15.8 V	423
(1807)	1997 05 30.51723	16 18 24.75	-20 14 42.9	16.2 V	423
(1807)	1997 05 30.55029	16 18 22.46	-20 14 34.6	16.2 V	423
(1807)	1997 05 30.58023	16 18 20.43	-20 14 26.8	16.3 V	423
(1807)	1997 05 30.60551	16 18 18.66	-20 14 20.6	15.7 V	423
(1807)	1997 05 30.62068	16 18 17.61	-20 14 16.7	16.0 V	423

(4209)	1997 07 09.71619	22 36 25.21	-14 56 17.7	16.6 V	423
(4209)	1997 07 09.74242	22 36 24.69	-14 56 12.8	16.4 V	423
(4209)	1997 07 09.75784	22 36 24.34	-14 56 10.1	16.9 V	423
(4209)	1997 07 09.77361	22 36 23.99	-14 56 07.0	17.0 V	423

424 Macquarie, near Canberra

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Observer J. B. Child

Measurers J. B. Child, J. E. Rogers

0.32-m $f/4.8$ reflector + CCD

1993 KL	1997 05 30.65933	20 18 58.60	-52 19 07.5	17.7 V	424
1993 KL	1997 05 30.67322	20 18 58.56	-52 19 22.5	17.7 V	424
1993 KL	1997 05 30.68433	20 18 58.62	-52 19 34.9	17.6 V	424
1993 KL	1997 06 07.64352	20 17 46.37	-54 39 16.4	17.5 V	424
1993 KL	1997 06 07.65741	20 17 46.09	-54 39 30.9	17.7 V	424
1993 KL	1997 06 07.67130	20 17 45.64	-54 39 45.1	17.8 V	424
1993 KL	1997 06 09.56979	20 16 56.57	-55 12 12.4	17.7 V	424
1993 KL	1997 06 09.57813	20 16 56.33	-55 12 21.4	17.4 V	424
1993 KL	1997 06 09.58646	20 16 56.01	-55 12 29.8	17.1 V	424
1993 KL	1997 06 30.54219	19 54 06.92	-60 11 40.7	17.3 V	424
1993 KL	1997 06 30.55608	19 54 05.53	-60 11 50.2	17.7 V	424
1993 KL	1997 07 03.46979	19 49 12.03	-60 40 12.5	17.3 V	424
1993 KL	1997 07 03.47813	19 49 11.10	-60 40 18.4	17.4 V	424
1993 KL	1997 07 03.48646	19 49 10.34	-60 40 22.2	17.3 V	424
1993 NJ	1997 05 30.56352	18 57 06.60	-05 34 43.5	17.2 V	424
1993 NJ	1997 05 30.59149	18 57 05.85	-05 34 33.7	17.1 V	424
1993 NJ	1997 06 07.58241	18 53 00.79	-04 46 45.0	17.1 V	424
1993 NJ	1997 06 07.59352	18 53 00.34	-04 46 41.4	16.8 V	424
1993 NJ	1997 06 07.61019	18 52 59.74	-04 46 37.5		424
1993 NJ	1997 06 08.63264	18 52 21.36	-04 41 16.6	16.4 V	424
1993 NJ	1997 06 08.64931	18 52 20.71	-04 41 13.1	16.9 V	424
1993 NJ	1997 06 08.65764	18 52 20.25	-04 41 10.0	15.9 V	424
1993 NJ	1997 07 03.55451	18 32 05.20	-03 40 08.0	17.7 V	424
1993 NJ	1997 07 03.55729	18 32 05.06	-03 40 08.0	17.7 V	424
1993 NJ	1997 07 03.56285	18 32 04.77	-03 40 08.1	17.5 V	424
1993 NJ	1997 07 03.56840	18 32 04.51	-03 40 08.3	17.5 V	424
1994 TU ₁	1997 06 07.62130	18 16 06.73	-34 55 46.7		424
1994 TU ₁	1997 06 07.63519	18 16 05.82	-34 55 51.5		424
1994 TU ₁	1997 06 09.52674	18 14 13.67	-34 57 17.3		424
1994 TU ₁	1997 06 09.55590	18 14 11.76	-34 57 19.4		424

473 Remanzacco

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Observers F. Verlezza, P. Blasich, M. Dal Bo

Measurer F. Verlezza

0.31-m $f/2.8$ Baker-Schmidt + CCD

GSC

1997 MW ₁	1997 07 03.90073	18 06 58.08	-01 43 09.6	18.2 V	473
1997 MW ₁	1997 07 03.92588	18 06 51.89	-01 42 33.1		473

491 Yebes

J. F. Lahulla, Centro Astronómico de Yebes, Apartado 148, E-19080 Guadalajara,
Spain [lahulla@cay.es]

Observers J. F. Lahulla, J. García

0.40-m $f/5$ astrograph + CCD

GSC

(2)	1997 06 12.03899	19 51 23.50	+20 35 56.7		491
(2)	1997 06 12.08978	19 51 21.88	+20 36 07.9		491
(201)	1997 06 12.00523	18 05 43.04	-14 14 27.4		491
(201)	1997 06 12.05317	18 05 40.28	-14 14 27.8		491
(218)	1997 06 12.01182	18 25 56.95	+01 46 25.2		491
(218)	1997 06 12.05917	18 25 54.81	+01 46 29.6		491
(234)	1997 06 11.95132	17 22 19.29	+02 52 26.3		491
(234)	1997 06 11.97076	17 22 18.14	+02 52 25.7		491
(409)	1997 06 12.01888	18 59 02.96	-12 39 14.9		491
(409)	1997 06 12.06546	18 59 00.73	-12 39 00.7		491
(532)	1997 06 12.03218	19 43 56.94	-19 00 23.4		491
(532)	1997 06 12.08068	19 43 55.23	-19 00 41.4		491
(532)	1997 06 26.05213	19 33 57.81	-20 36 00.8	10.6 R	491
(532)	1997 06 26.05719	19 33 57.54	-20 36 02.0	10.5 R	491
(532)	1997 06 26.05919	19 33 57.43	-20 36 02.7		491
(532)	1997 06 26.06096	19 33 57.29	-20 36 03.1		491
(532)	1997 06 26.06263	19 33 57.17	-20 36 04.2	10.3 R	491
(532)	1997 06 26.06435	19 33 57.14	-20 36 04.4	10.3 R	491
(619)	1997 06 11.96366	17 46 28.27	-01 25 05.0		491
(619)	1997 06 11.98147	17 46 27.33	-01 25 03.5		491
(619)	1997 06 11.99854	17 46 26.32	-01 24 59.6		491
(619)	1997 06 12.04656	17 46 23.66	-01 24 51.9		491
(1679)	1997 06 16.96602	17 10 52.69	+05 04 58.6		491
(1679)	1997 06 16.97968	17 10 52.10	+05 04 57.0		491
(1679)	1997 06 17.00645	17 10 50.91	+05 04 58.0		491
(1679)	1997 06 25.88292	17 04 42.26	+04 56 24.5	13.9 R	491
(1679)	1997 06 25.89079	17 04 41.96	+04 56 22.7	14.0 R	491
(1679)	1997 06 25.90653	17 04 41.34	+04 56 21.2	13.9 R	491
(1980)	1997 06 16.97329	18 56 16.20	+13 09 38.0		491
(1980)	1997 06 16.99034	18 56 15.17	+13 10 34.8		491
(1980)	1997 06 25.94079	18 44 09.99	+21 39 35.8	13.7 R	491
(1980)	1997 06 25.94559	18 44 09.46	+21 39 53.7	13.7 R	491

540 Linz

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Observers E. Meyer, H. Raab

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

GSC

1978 PW ₃	1997 07 09.87494	17 32 17.54	-12 02 54.5	17.8 R	I 540
1978 PW ₃	1997 07 09.87885	17 32 17.39	-12 02 55.5		I 540
1978 PW ₃	1997 07 09.88262	17 32 17.23	-12 02 55.6		I 540
1997 BR	1997 07 09.02824	02 25 23.67	+38 00 50.8	16.4 R	540
1997 BR	1997 07 09.02972	02 25 23.56	+38 00 30.0		540
1997 BR	1997 07 09.03120	02 25 23.28	+38 00 09.0		540

557 Ondřejov

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Observers P. Pravec, L. Šarounová, J. Mánek

0.65-m $f/3.6$ reflector + CCD

GSC, USNO-SA1.0

1996 FR ₁	1997 06 28.90729	17 27 19.52	-11 53 33.0		557
1996 FR ₁	1997 06 28.90956	17 27 19.41	-11 53 32.6		557
1996 HR	1997 07 09.02436	21 12 33.01	-22 31 41.6	18.1 V	557
1996 HR	1997 07 09.03031	21 12 32.81	-22 31 43.0		557
1996 HR	1997 07 09.03329	21 12 32.70	-22 31 43.7		557
1996 HR	1997 07 10.02663	21 11 56.99	-22 36 57.6		557
1996 HR	1997 07 10.03197	21 11 56.78	-22 36 59.1		557
1996 HR	1997 07 10.03740	21 11 56.58	-22 37 00.8		557
1996 HR	1997 07 13.03027	21 10 01.74	-22 53 00.8	18.0 V	557
1996 HR	1997 07 13.03648	21 10 01.49	-22 53 03.1		557
1996 OO	1997 07 09.03736	00 18 09.67	+12 08 27.0		557
1996 OO	1997 07 09.04988	00 18 09.88	+12 08 29.6		557
1996 OO	1997 07 09.05271	00 18 09.92	+12 08 30.3		557
1996 OO	1997 07 10.04012	00 18 26.20	+12 11 47.4		557
1996 OO	1997 07 10.05301	00 18 26.40	+12 11 50.3	19.1 V	557
1997 BR	1997 07 02.04193	02 47 44.85	+61 24 24.4		557
1997 BR	1997 07 02.04305	02 47 44.53	+61 24 14.9		557
1997 BR	1997 07 09.05652	02 25 19.87	+37 54 03.6		557
1997 BR	1997 07 09.05816	02 25 19.64	+37 53 40.1		557
1997 BR	1997 07 09.06230	02 25 19.08	+37 52 40.2		557
1997 BR	1997 07 11.05432	02 21 43.87	+29 29 40.4	16.8 V	557
1997 BR	1997 07 11.05512	02 21 43.78	+29 29 28.6		557
1997 BR	1997 07 11.05591	02 21 43.71	+29 29 16.3		557
1997 LY ₄	1997 07 02.99878	19 43 52.53	-02 58 24.1		557
1997 LY ₄	1997 07 03.00200	19 43 52.48	-02 58 19.2	16.5 V	557
1997 LY ₄	1997 07 03.90630	19 43 43.98	-02 33 52.8		557
1997 LY ₄	1997 07 03.90936	19 43 43.93	-02 33 47.9	16.3 V	557
1997 LY ₄	1997 07 04.01784	19 43 42.00	-02 30 53.2		557
1997 LY ₄	1997 07 08.95296	19 42 32.96	-00 22 52.5		557
1997 LY ₄	1997 07 08.99263	19 42 32.00	-00 21 53.4		557
1997 LY ₄	1997 07 09.01922	19 42 31.37	-00 21 13.7		557
1997 LY ₄	1997 07 09.88938	19 42 17.40	+00 00 15.1		557
1997 LY ₄	1997 07 09.96184	19 42 15.64	+00 02 01.1		557
1997 LY ₄	1997 07 09.98308	19 42 15.12	+00 02 32.3		557
1997 LY ₄	1997 07 10.06557	19 42 13.08	+00 04 33.1		557
1997 LY ₄	1997 07 10.89363	19 41 59.53	+00 24 33.4		557
1997 LY ₄	1997 07 10.93012	19 41 58.63	+00 25 25.9		557
1997 LY ₄	1997 07 10.99689	19 41 56.92	+00 27 01.6		557
1997 LY ₄	1997 07 11.90677	19 41 40.85	+00 48 33.3		557
1997 LY ₄	1997 07 11.91271	19 41 40.70	+00 48 41.6		557
1997 LY ₄	1997 07 11.94639	19 41 39.84	+00 49 29.0		557
1997 LY ₄	1997 07 11.97030	19 41 39.21	+00 50 02.6		557
1997 LY ₄	1997 07 12.92867	19 41 21.48	+01 12 11.5		557
1997 LY ₄	1997 07 12.95995	19 41 20.65	+01 12 54.3	16.7 V	557
1997 LY ₄	1997 07 12.96286	19 41 20.57	+01 12 58.3		557
1997 LY ₄	1997 07 12.97862	19 41 20.15	+01 13 19.9		557

1997 LY ₄	1997 07 13.89234	19 41 03.29	+01 33 56.1	16.9 V	557
1997 LY ₄	1997 07 13.91733	19 41 02.62	+01 34 29.4		557
1997 LY ₄	1997 07 13.95485	19 41 01.63	+01 35 19.6		557
1997 LY ₄	1997 07 13.96478	19 41 01.37	+01 35 32.7	16.5 V	557
1997 MV ₁	1997 07 02.00211	21 26 01.05	+00 11 59.3		557
1997 MV ₁	1997 07 02.01359	21 26 01.37	+00 12 05.7		557
1997 MV ₁	1997 07 02.01661	21 26 01.46	+00 12 06.8	20.1 V	557
1997 MW ₁	1997 07 01.90625	18 15 16.34	-02 32 49.1		557
1997 MW ₁	1997 07 01.90830	18 15 15.80	-02 32 46.0	18.2 V	557
1997 MW ₁	1997 07 03.94843	18 06 45.98	-01 42 01.3		557
1997 MW ₁	1997 07 03.95031	18 06 45.51	-01 41 58.6		557
1997 MW ₁	1997 07 08.96334	17 47 39.62	+00 04 11.6		557
1997 MW ₁	1997 07 08.96508	17 47 39.25	+00 04 13.4		557
1997 MW ₁	1997 07 08.96684	17 47 38.83	+00 04 15.5		557
1997 NF ₃	* 1997 07 09.02436	21 12 44.59	-22 34 56.6	18.7 V W	557
1997 NF ₃	1997 07 09.03031	21 12 44.39	-22 34 58.2	W	557
1997 NF ₃	1997 07 09.03329	21 12 44.34	-22 34 59.9	W	557
1997 NF ₃	1997 07 10.02663	21 12 19.45	-22 40 34.0		557
1997 NF ₃	1997 07 10.03468	21 12 19.20	-22 40 37.1		557
1997 NF ₃	1997 07 10.03740	21 12 19.12	-22 40 37.5		557
1997 NF ₃	1997 07 11.02735	21 11 52.41	-22 46 17.4	18.5 V	557
1997 NF ₃	1997 07 11.03314	21 11 52.24	-22 46 20.1		557
1997 NF ₃	1997 07 13.02608	21 10 52.64	-22 57 58.5	18.6 V	557
1997 NF ₃	1997 07 13.03328	21 10 52.34	-22 58 02.0		557
1997 NF ₃	1997 07 13.03933	21 10 52.17	-22 58 04.8		557
(1980)	1997 06 28.85719	18 39 25.27	+24 21 02.4		557
(1980)	1997 06 28.88088	18 39 22.77	+24 22 20.5		557
(1980)	1997 06 28.91661	18 39 18.98	+24 24 18.0		557
(1980)	1997 06 28.95912	18 39 14.45	+24 26 37.2		557
(1980)	1997 06 29.02588	18 39 07.32	+24 30 15.1		557
(1980)	1997 07 01.91541	18 34 04.74	+27 04 51.2		557
(1980)	1997 07 01.94075	18 34 01.87	+27 06 11.2		557
(1980)	1997 07 01.98560	18 33 56.77	+27 08 32.2		557
(1980)	1997 07 02.02488	18 33 52.32	+27 10 35.1		557
(1980)	1997 07 02.06737	18 33 47.53	+27 12 47.7		557
(1980)	1997 07 02.95247	18 32 11.62	+27 58 49.6		557
(1980)	1997 07 02.98117	18 32 08.31	+28 00 18.2		557
(1980)	1997 07 03.01351	18 32 04.58	+28 01 57.8		557
(1980)	1997 07 03.03520	18 32 02.08	+28 03 04.5		557
(1980)	1997 07 03.06906	18 31 58.21	+28 04 48.3		557
(2100)	1997 07 14.00892	01 18 39.02	+26 49 00.1	17.5 V	557
(2100)	1997 07 14.01185	01 18 39.23	+26 48 59.9		557
(2100)	1997 07 14.01477	01 18 39.42	+26 48 59.5		557
(3671)	1997 06 11.88332	12 38 28.14	+12 26 40.5		557
(3671)	1997 06 11.91256	12 38 23.74	+12 24 47.3		557
(3671)	1997 06 11.94591	12 38 18.77	+12 22 38.2		557
(7482)	1997 07 03.93050	19 10 01.67	+08 05 56.5		557
(7482)	1997 07 03.95845	19 09 57.09	+08 04 03.2		557
(7482)	1997 07 03.98912	19 09 52.06	+08 01 58.2		557
(7482)	1997 07 04.01154	19 09 48.37	+08 00 27.0		557
(7482)	1997 07 04.05791	19 09 40.80	+07 57 18.2		557

563 Seewalchen

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0.25-m *f*/6 reflector + CCD

GSC

1988 SH ₂	1997 05 15.92393	14 03 49.87	+03 49 52.7	16.5 V	F 563
1988 SH ₂	1997 05 15.93220	14 03 49.45	+03 49 52.7	16.4 V	F 563
1988 SH ₂	1997 05 15.94818	14 03 48.86	+03 49 52.9	16.9 V	F 563
1988 SH ₂	1997 05 16.95861	14 03 09.55	+03 49 58.3	16.6 V	F 563
1988 SH ₂	1997 05 16.97384	14 03 09.01	+03 49 58.6	16.5 V	F 563
1996 BQ ₂	1997 05 25.90308	14 12 28.20	+07 24 58.5	17.0 V	563
1996 BQ ₂	1997 05 25.91068	14 12 28.06	+07 24 58.8	16.7 V	563
1996 BQ ₂	1997 05 25.91830	14 12 27.86	+07 24 59.0	16.7 V	563
(7342)	1997 06 07.97734	16 42 09.45	-00 21 06.2	17.1 V	563
(7342)	1997 06 07.98438	16 42 09.09	-00 21 04.2	16.9 V	563
(7342)	1997 06 07.99197	16 42 08.75	-00 21 03.7	16.7 V	563
(7342)	1997 06 09.96478	16 40 29.66	-00 21 07.0	17.2 V	563
(7342)	1997 06 09.97175	16 40 29.23	-00 21 07.8	17.4 V	563
(7342)	1997 06 09.97940	16 40 28.85	-00 21 07.2	17.3 V	563
(7342)	1997 06 09.98708	16 40 28.45	-00 21 08.2	17.1 V	563
(7609)	1997 05 25.85447	12 20 14.12	-03 23 41.5	16.9 V	563
(7609)	1997 05 25.87039	12 20 14.15	-03 23 46.3	16.6 V	563
(7609)	1997 05 25.88012	12 20 14.16	-03 23 49.3	17.4 V	563
(7609)	1997 05 31.85027	12 20 58.54	-03 54 18.4	17.0 V	563
(7609)	1997 05 31.85859	12 20 58.57	-03 54 20.0	16.9 V	563
(7609)	1997 05 31.86586	12 20 58.70	-03 54 22.7	17.2 V	563
(7683)	1997 04 13.91934	13 05 44.49	+05 50 55.4	16.0 V	F 563
(7683)	1997 04 13.92558	13 05 43.95	+05 50 57.0	15.4 V	F 563
(7683)	1997 04 13.93243	13 05 43.56	+05 50 58.9	16.0 V	F 563
(7683)	1997 04 13.94439	13 05 42.82	+05 51 02.8	15.6 V	F 563
(7683)	1997 05 04.86284	12 49 00.93	+06 21 42.3	16.8 V	F 563
(7683)	1997 05 04.87295	12 49 00.62	+06 21 41.5	17.0 V	F 563
(7683)	1997 05 04.89057	12 48 59.82	+06 21 40.2	16.7 V	F 563
(7683)	1997 05 04.90652	12 48 59.42	+06 21 40.1	16.5 V	F 563
(7715)	1997 06 07.92597	16 38 32.32	+02 30 09.9	16.6 V	563
(7715)	1997 06 07.94036	16 38 31.50	+02 30 09.2	16.7 V	563
(7715)	1997 06 07.94822	16 38 31.16	+02 30 08.5	16.8 V	563
(7715)	1997 06 09.86417	16 36 49.89	+02 27 59.9	16.9 V	563
(7715)	1997 06 09.88083	16 36 48.96	+02 27 59.0	17.0 V	563
(7715)	1997 06 09.88914	16 36 48.39	+02 27 58.0	17.0 V	563
(7715)	1997 06 09.89683	16 36 48.17	+02 27 56.7	17.0 V	563
(7715)	1997 06 09.92525	16 36 46.59	+02 27 54.4	17.2 V	563
(7715)	1997 06 09.93362	16 36 46.11	+02 27 53.7	16.8 V	563

566 Haleakala-NEAT/GEODSS

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1-m *f*/2.2 Ritchey-Chrétien + CCD

1991 AB	1997 07 05.36070	16 24 42.99	-08 07 40.4	19.2 V	566
1991 AB	1997 07 05.37020	16 24 42.69	-08 07 42.6	18.7 V	566

1991 AB	1997 07 05.38020	16 24 42.37	-08 07 44.4	19.0 V	566
1993 FG ₁₂	1996 10 09.52289	01 54 36.86	+00 28 00.7	18.3 V	566
1993 FG ₁₂	1996 10 09.53350	01 54 36.43	+00 27 55.2	18.1 V	566
1993 FG ₁₂	1996 10 09.54191	01 54 36.06	+00 27 51.0	18.3 V	566
1994 XE ₆	1997 07 05.53875	20 03 24.67	-22 36 49.3	18.2 V	566
1994 XE ₆	1997 07 05.54913	20 03 24.07	-22 36 49.4	17.4 V	566
1994 XE ₆	1997 07 05.55936	20 03 23.44	-22 36 49.5	17.3 V	566
1995 CD ₂	1996 05 14.45322	15 21 40.44	-18 21 34.6	16.7 V	566
1995 CD ₂	1996 05 14.47339	15 21 39.48	-18 21 23.6	16.6 V	566
1995 CD ₂	1996 05 14.49158	15 21 38.64	-18 21 13.9	16.8 V	566
1996 PW ₉	* 1996 08 09.46387	21 39 49.02	-15 33 50.8	17.5 V	566
1996 PW ₉	1996 08 09.47231	21 39 48.54	-15 33 53.5	17.8 V	566
1996 PW ₉	1996 08 09.48073	21 39 48.10	-15 33 56.1	17.9 V	566
1997 HO ₂	1996 03 25.31453	10 16 58.18	+09 49 57.6	18.5 V	566
1997 HO ₂	1996 03 25.33432	10 16 57.51	+09 50 01.6	18.4 V	566
1997 HO ₂	1996 03 25.35424	10 16 56.88	+09 50 06.5	18.1 V	566
1997 JP ₁₅	1997 06 03.50523	15 01 59.76	-14 11 29.1	19.5 V	566
1997 JP ₁₅	1997 06 03.51362	15 01 59.43	-14 11 26.6	19.2 V	566
1997 JP ₁₅	1997 06 03.52396	15 01 58.95	-14 11 25.0	19.7 V	566
1997 LQ ₂	1997 06 30.49049	15 52 25.17	-13 47 51.0	19.3 V	566
1997 LQ ₂	1997 06 30.49970	15 52 24.81	-13 47 43.5	19.1 V	566
1997 LQ ₂	1997 06 30.50819	15 52 24.49	-13 47 35.8	19.5 V	566
1997 LB ₇	1997 05 07.52939	15 23 15.41	-13 56 36.5	18.5 V	566
1997 LB ₇	1997 05 07.53777	15 23 14.87	-13 56 33.1	18.9 V	566
1997 LB ₇	1997 05 07.54618	15 23 14.37	-13 56 30.0	18.7 V	566
1997 LO ₇	1997 06 03.48411	14 58 50.87	-15 56 51.8	18.7 V	566
1997 LO ₇	1997 06 03.49477	14 58 50.26	-15 56 38.9	19.0 V	566
1997 LO ₇	1997 06 03.50316	14 58 49.91	-15 56 29.0	18.7 V	566
1997 NC ₁	* 1997 07 05.26125	13 08 54.45	-07 36 55.1	16.4 V	566
1997 NC ₁	1997 07 05.27221	13 08 54.99	-07 38 29.0	16.4 V	566
1997 NC ₁	1997 07 05.28566	13 08 55.72	-07 40 24.1	16.5 V	566
(253)	1997 06 30.59678	02 02 25.22	+11 52 58.8	15.9 V	566
(253)	1997 06 30.60540	02 02 26.21	+11 53 02.5	15.9 V	566
(253)	1997 06 30.61405	02 02 27.18	+11 53 06.6	15.9 V	566
(340)	1997 06 30.59678	02 07 40.92	+11 46 09.7	15.9 V	566
(340)	1997 06 30.60540	02 07 41.64	+11 46 13.9	15.9 V	566
(340)	1997 06 30.61405	02 07 42.37	+11 46 17.9	15.9 V	566
(1376)	1997 07 05.25907	11 22 14.17	+05 42 15.4	18.5 V	566
(1376)	1997 07 05.26997	11 22 14.92	+05 42 10.4	19.0 V	566
(1376)	1997 07 05.28325	11 22 15.91	+05 42 04.8	18.7 V	566
(2542)	1997 07 05.28908	13 15 49.56	-02 45 27.8	18.7 V	566
(2542)	1997 07 05.29898	13 15 49.95	-02 45 30.7	18.4 V	566
(2542)	1997 07 05.30954	13 15 50.47	-02 45 35.5	19.4 V	566
(3410)	1997 07 05.25475	13 00 05.55	-11 54 09.4	18.6 V	566
(3410)	1997 07 05.26450	13 00 06.19	-11 54 12.8	18.6 V	566
(3410)	1997 07 05.27552	13 00 06.89	-11 54 15.2	19.2 V	566
(3949)	1997 07 05.29298	13 47 01.80	-12 19 15.6	18.4 V	566
(3949)	1997 07 05.30238	13 47 02.25	-12 19 17.5	18.0 V	566
(3949)	1997 07 05.31441	13 47 02.80	-12 19 18.9	18.1 V	566
(4039)	1997 07 05.25475	12 58 18.25	-11 16 13.8	18.6 V	566
(4039)	1997 07 05.26450	12 58 18.76	-11 16 14.9	18.5 V	566
(4039)	1997 07 05.27552	12 58 19.28	-11 16 16.9	19.1 V	566

(4962)	1997 07 05.26339	13 14 31.16	-03 49 21.1	18.3 V	566
(4962)	1997 07 05.27438	13 14 31.55	-03 49 22.6	18.4 V	566
(4962)	1997 07 05.28790	13 14 32.02	-03 49 23.3	18.6 V	566
(5038)	1997 07 05.26339	13 14 38.41	-04 23 50.5	17.7 V	566
(5038)	1997 07 05.27438	13 14 39.03	-04 24 00.1	18.0 V	566
(5038)	1997 07 05.28790	13 14 39.89	-04 24 11.6	18.4 V	566

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Observers D. C. Jewitt, J. X. Luu, C. Trujillo, J. Chen, O. Hainaut, C. Veillet,
R. J. Whiteley

Measurers J. X. Luu, D. J. Tholen, C. Veillet
2.24-m telescope + CCD, 3.6-m telescope + CCD
USNO-A1.0

1996 RR ₂₀	1997 06 28.55558	23 03 56.24	-05 59 41.3		568
1996 RR ₂₀	1997 06 29.51785	23 03 55.09	-05 59 48.9		568
1996 RR ₂₀	1997 06 29.55644	23 03 55.07	-05 59 49.1		568
1996 RR ₂₀	1997 06 29.59858	23 03 54.98	-05 59 48.9		568
1996 TO ₆₆	* 1996 10 12.25635	23 50 14.93	+00 52 29.1	21.3 R	568
1996 TO ₆₆	1996 10 12.30119	23 50 14.76	+00 52 28.1		568
1996 TO ₆₆	1996 10 12.34588	23 50 14.58	+00 52 27.1		568
1996 TO ₆₆	1996 10 13.38840	23 50 10.42	+00 52 06.8		568
1996 TO ₆₆	1996 10 13.41400	23 50 10.32	+00 52 06.4		568
1996 TO ₆₆	1996 10 13.43917	23 50 10.23	+00 52 05.7		568
1996 TP ₆₆	* 1996 10 11.42110	01 09 50.70	+13 10 24.7	21.2 R	568
1996 TP ₆₆	1996 10 11.47472	01 09 50.32	+13 10 22.5		568
1996 TP ₆₆	1996 10 11.51933	01 09 50.01	+13 10 20.8		568
1996 TP ₆₆	1996 10 13.39487	01 09 37.08	+13 09 06.9		568
1996 TP ₆₆	1996 10 13.42017	01 09 36.90	+13 09 05.9		568
1996 TP ₆₆	1996 10 13.44534	01 09 36.73	+13 09 04.9		568
1996 TQ ₆₆	* 1996 10 08.39656	01 30 25.00	+13 44 10.0	22.5 R	568
1996 TQ ₆₆	1996 10 08.40454	01 30 24.95	+13 44 09.8		568
1996 TQ ₆₆	1996 10 08.41251	01 30 24.91	+13 44 09.6		568
1996 TQ ₆₆	1996 10 12.37903	01 30 02.47	+13 42 24.2		568
1996 TQ ₆₆	1996 10 12.39328	01 30 02.40	+13 42 24.1		568
1996 TQ ₆₆	1996 10 12.40867	01 30 02.30	+13 42 23.5		568
1996 TQ ₆₆	1996 10 12.43983	01 30 02.20	+13 42 22.5		568
1996 TQ ₆₆	1996 10 12.49096	01 30 01.82	+13 42 21.0		568
1996 TQ ₆₆	1996 10 12.50351	01 30 01.76	+13 42 20.8		568
1996 TR ₆₆	* 1996 10 08.33633	00 00 49.41	+04 47 05.9	23.0 R	568
1996 TR ₆₆	1996 10 08.38892	00 00 49.20	+04 47 04.5		568
1996 TR ₆₆	1996 10 08.54487	00 00 48.38	+04 47 00.1		568
1996 TR ₆₆	1996 10 12.39995	00 00 29.25	+04 45 02.0		568
1996 TR ₆₆	1996 10 12.44652	00 00 29.01	+04 45 00.4		568
1996 TR ₆₆	1996 10 12.51030	00 00 28.71	+04 44 58.7		568
1996 TS ₆₆	* 1996 10 12.54472	02 05 15.87	+20 14 22.0	22.3 R	568
1996 TS ₆₆	1996 10 12.58591	02 05 15.66	+20 14 20.8		568
1996 TS ₆₆	1996 10 12.62272	02 05 15.46	+20 14 19.9		568

1997 JULY 20

M.P.C. 30145

1996 TS ₆₆	1996 10 14.42133	02 05 06.40	+20 13 37.5	568	1997 LQ ₂	1997 07 04.31661	15 50 47.49	-12 55 30.6	568
1996 TS ₆₆	1996 10 14.47091	02 05 06.13	+20 13 36.1	568	1997 LQ ₂	1997 07 04.32569	15 50 47.28	-12 55 23.2	568
1996 TS ₆₆	1996 10 14.52569	02 05 05.85	+20 13 34.8	568	1997 MT	1997 07 03.42765	18 21 51.37	-03 42 25.8	568
1997 CR ₂₉	* 1997 02 03.41963	09 13 47.32	+18 58 58.8	22.5 R 568	1997 MT	1997 07 03.43212	18 21 51.13	-03 42 25.9	568
1997 CR ₂₉	1997 02 03.46472	09 13 47.11	+18 58 59.8	568	1997 MT	1997 07 03.43598	18 21 50.86	-03 42 25.8	568
1997 CR ₂₉	1997 02 03.50861	09 13 46.90	+18 59 01.3	568	1997 MT	1997 07 04.33116	18 21 04.70	-03 42 43.3	568
1997 CR ₂₉	1997 02 07.42255	09 13 27.36	+19 00 45.7	568	1997 MT	1997 07 04.33743	18 21 04.36	-03 42 43.5	568
1997 CR ₂₉	1997 02 07.46247	09 13 27.16	+19 00 46.4	568	1997 MW ₁	1997 07 03.41479	18 08 57.14	-01 54 39.3	568
1997 CR ₂₉	1997 02 09.37141	09 13 17.71	+19 01 36.5	568	1997 MW ₁	1997 07 03.41877	18 08 56.07	-01 54 33.4	568
1997 CR ₂₉	1997 02 09.44672	09 13 17.29	+19 01 38.2	568	1997 MW ₁	1997 07 03.42312	18 08 55.02	-01 54 27.4	568
1997 CR ₂₉	1997 02 09.54094	09 13 16.84	+19 01 40.7	568	1997 MW ₁	1997 07 04.34814	18 05 09.65	-01 32 20.5	568
1997 CS ₂₉	* 1997 02 03.25090	07 42 13.69	+21 46 38.9	21.0 R 568	1997 MW ₁	1997 07 04.38646	18 04 59.92	-01 31 27.0	568
1997 CS ₂₉	1997 02 03.29497	07 42 13.48	+21 46 39.2	568	1997 MW ₁	1997 07 04.42796	18 04 49.35	-01 30 28.7	568
1997 CS ₂₉	1997 02 03.34374	07 42 13.26	+21 46 39.7	568	(253)	1997 06 16.60697	01 35 17.54	+09 59 30.6	14.8 R 568
1997 CS ₂₉	1997 02 06.34664	07 41 59.30	+21 47 11.4	568	(253)	1997 06 16.60916	01 35 17.80	+09 59 31.8	14.8 R 568
1997 CS ₂₉	1997 02 06.39929	07 41 59.05	+21 47 11.9	568	(253)	1997 06 17.61436	01 37 17.076	+10 08 23.41	14.3 R 568
1997 CS ₂₉	1997 02 09.25714	07 41 46.18	+21 47 41.2	568	(253)	1997 06 17.61532	01 37 17.194	+10 08 23.93	14.3 R 568
1997 CS ₂₉	1997 02 09.28550	07 41 46.02	+21 47 41.4	568	(1318)	1995 10 19.50654	01 18 25.30	+29 46 19.4	15.8 R 568
1997 CS ₂₉	1997 02 09.31370	07 41 45.91	+21 47 41.7	568	(1318)	1995 10 19.50999	01 18 25.01	+29 46 19.3	15.8 R 568
1997 CS ₂₉	1997 02 09.34271	07 41 45.77	+21 47 42.0	568	(1995)	1995 10 19.51399	01 51 47.02	+04 58 27.6	16.2 R 568
1997 CT ₂₉	* 1997 02 02.40066	09 05 06.85	+17 36 30.8	21.2 R 568	(1995)	1995 10 19.51661	01 51 46.85	+04 58 27.3	16.2 R 568
1997 CT ₂₉	1997 02 02.44503	09 05 06.63	+17 36 31.6	568	(2420)	1995 10 19.27339	19 53 25.73	-05 57 17.8	568
1997 CT ₂₉	1997 02 04.52575	09 04 56.83	+17 37 14.2	568	(2420)	1995 10 19.27894	19 53 26.06	-05 57 19.3	568
1997 CT ₂₉	1997 02 04.61478	09 04 56.39	+17 37 16.1	568	(2420)	1995 10 19.28164	19 53 26.22	-05 57 20.0	568
1997 CT ₂₉	1997 02 07.41331	09 04 43.27	+17 38 12.0	568	(2502)	1995 10 19.32054	20 50 09.49	-34 05 50.3	17.0 R 568
1997 CT ₂₉	1997 02 07.45203	09 04 43.09	+17 38 13.1	568	(2502)	1995 10 19.32278	20 50 09.53	-34 05 49.3	17.0 R 568
1997 CU ₂₉	* 1997 02 06.26545	07 35 44.16	+22 53 23.3	22.5 R 568	(3004)	1995 10 19.52622	02 19 17.25	+59 11 10.2	19.4 R 568
1997 CU ₂₉	1997 02 06.31081	07 35 43.96	+22 53 23.8	568	(3004)	1995 10 19.52825	02 19 17.04	+59 11 10.6	19.4 R 568
1997 CU ₂₉	1997 02 06.36374	07 35 43.73	+22 53 24.2	568	(3004)	1995 10 19.53404	02 19 16.47	+59 11 11.9	19.4 R 568
1997 CU ₂₉	1997 02 07.34132	07 35 39.39	+22 53 33.2	568	(3124)	1995 10 19.62478	05 20 07.63	+15 14 42.3	17.5 R 568
1997 CU ₂₉	1997 02 07.39706	07 35 39.12	+22 53 33.6	568	(3124)	1995 10 19.62709	05 20 07.62	+15 14 41.9	17.5 R 568
1997 CU ₂₉	1997 02 09.27626	07 35 30.95	+22 53 50.6	568	(3200)	1995 10 19.59301	03 41 18.02	+41 54 40.4	17.6 R 568
1997 CU ₂₉	1997 02 09.30450	07 35 30.80	+22 53 50.9	568	(3204)	1995 10 19.44880	23 07 15.64	-08 50 09.5	16.1 R 568
1997 CU ₂₉	1997 02 09.33337	07 35 30.68	+22 53 51.0	568	(3204)	1995 10 19.45240	23 07 15.58	-08 50 09.7	16.1 R 568
1997 CV ₂₉	* 1997 02 06.46982	09 20 57.12	+17 52 31.8	22.8 R 568	(3217)	1995 10 19.57535	02 59 58.31	+27 09 43.1	568
1997 CV ₂₉	1997 02 06.50517	09 20 56.92	+17 52 32.5	568	(3217)	1995 10 19.57750	02 59 58.18	+27 09 43.2	16.2 R 568
1997 CV ₂₉	1997 02 06.54095	09 20 56.78	+17 52 33.8	568	(3225)	1995 10 19.49230	00 23 38.55	-04 32 43.8	14.4 R 568
1997 CV ₂₉	1997 02 07.43281	09 20 52.20	+17 52 56.3	568	(3225)	1995 10 19.49317	00 23 38.52	-04 32 45.2	14.4 R 568
1997 CV ₂₉	1997 02 07.47111	09 20 52.00	+17 52 57.2	568	(3255)	1995 10 19.64553	08 49 15.63	+44 25 17.2	16.0 R 568
1997 CV ₂₉	1997 02 09.38100	09 20 42.22	+17 53 45.5	568	(3255)	1995 10 19.64802	08 49 16.05	+44 25 16.4	16.0 R 568
1997 CV ₂₉	1997 02 09.41839	09 20 42.06	+17 53 46.6	568	(3321)	1995 10 19.33307	21 04 57.58	-16 21 33.9	16.0 R 568
1997 CV ₂₉	1997 02 09.45591	09 20 41.82	+17 53 47.6	568	(3321)	1995 10 19.33424	21 04 57.64	-16 21 33.9	16.0 R 568
1997 CV ₂₉	1997 02 09.54990	09 20 41.38	+17 53 50.0	568	(3362)	1995 10 19.58904	03 38 04.99	-06 35 43.5	18.3 R 568
1997 CW ₂₉	* 1997 02 08.30122	08 02 26.90	+23 13 48.8	22.5 R 568	(3362)	1995 10 19.59056	03 38 04.79	-06 35 45.8	18.3 R 568
1997 CW ₂₉	1997 02 08.34998	08 02 26.66	+23 13 49.4	568	(3446)	1995 10 19.50061	00 52 54.74	+01 34 07.9	16.0 R 568
1997 CW ₂₉	1997 02 08.40345	08 02 26.40	+23 13 50.3	568	(3446)	1995 10 19.50331	00 52 54.57	+01 34 07.4	16.0 R 568
1997 CW ₂₉	1997 02 09.26711	08 02 22.18	+23 14 05.0	568	(3447)	1995 10 19.30470	20 24 19.60	-32 50 52.2	14.3 R 568
1997 CW ₂₉	1997 02 09.29503	08 02 22.03	+23 14 05.6	568	(3447)	1995 10 19.30576	20 24 19.67	-32 50 51.1	14.3 R 568
1997 CW ₂₉	1997 02 09.32301	08 02 21.89	+23 14 06.1	568	(3471)	1995 10 19.59889	03 41 00.07	+40 27 04.7	16.3 R 568
1997 CW ₂₉	1997 02 09.35228	08 02 21.77	+23 14 06.6	568	(3471)	1995 10 19.60103	03 40 59.98	+40 27 05.1	16.3 R 568
1997 LQ ₂	1997 07 03.40321	15 51 07.70	-13 07 37.6	568	(3484)	1995 10 19.48692	00 19 38.47	-23 07 40.1	16.7 R 568
1997 LQ ₂	1997 07 03.40691	15 51 07.60	-13 07 34.6	568	(3484)	1995 10 19.49073	00 19 38.34	-23 07 40.0	16.7 R 568

(3531)	1995 10 19.29645	20 17 05.39	-08 12 12.2	18.2 R	568	(4665)	1995 10 19.42054	22 35 33.62	+01 19 44.6	16.2 R	568
(3531)	1995 10 19.29904	20 17 05.48	-08 12 12.7	18.2 R	568	(4986)	1995 10 19.32784	21 03 27.33	-10 36 18.1	18.2 R	568
(3700)	1995 10 19.37384	22 16 35.01	+08 13 14.0	15.8 R	568	(4986)	1995 10 19.33105	21 03 27.41	-10 36 18.3	18.2 R	568
(3700)	1995 10 19.37778	22 16 34.97	+08 13 12.8	15.8 R	568	(4990)	1995 10 19.38065	22 18 35.40	-10 23 26.6	17.6 R	568
(3714)	1995 10 19.39139	22 24 02.62	-24 17 05.6	16.6 R	568	(4990)	1995 10 19.38483	22 18 35.45	-10 23 25.7	17.6 R	568
(3714)	1995 10 19.39279	22 24 02.61	-24 17 04.9	16.6 R	568	(5011)	1997 06 29.50713	19 52 20.46	-33 36 05.4		568
(3753)	1995 10 19.63543	05 13 38.60	-45 30 43.6		568	(5011)	1997 06 29.53029	19 52 18.16	-33 36 13.0		568
(3753)	1995 10 19.63705	05 13 38.79	-45 30 49.3	16.2 R	568	(5027)	1995 10 19.35550	22 14 26.17	-46 20 28.3	18.2 R	568
(3753)	1995 10 19.63826	05 13 38.92	-45 30 53.7	16.2 R	568	(5027)	1995 10 19.35852	22 14 26.14	-46 20 27.4	18.2 R	568
(3806)	1995 10 19.34363	21 18 30.34	-07 26 15.3	17.2 R	568	(5028)	1995 10 19.35088	21 20 23.33	-39 35 14.6	18.3 R	568
(3806)	1995 10 19.34581	21 18 30.47	-07 26 15.9	17.2 R	568	(5028)	1995 10 19.35396	21 20 23.33	-39 35 13.6	18.3 R	568
(3834)	1997 06 28.57537	23 03 17.84	-26 44 24.2	17.5 R	568	(5047)	1995 10 19.55234	02 37 50.14	+20 24 53.2	17.5 R	568
(3834)	1997 06 28.58253	23 03 17.99	-26 44 25.0		568	(5047)	1995 10 19.55564	02 37 49.96	+20 24 53.2	17.5 R	568
(3834)	1997 06 29.53676	23 03 37.22	-26 50 07.7		568	(5056)	1995 10 19.60346	03 46 09.03	+15 18 20.7	15.7 R	568
(3913)	1995 10 19.31733	20 38 19.31	-15 08 45.8	17.2 R	568	(5056)	1995 10 19.60640	03 46 08.93	+15 18 20.9	15.7 R	568
(3913)	1995 10 19.31888	20 38 19.37	-15 08 46.2	17.2 R	568	(5065)	1995 10 19.36021	21 40 39.62	-16 42 08.9	17.7 R	568
(3944)	1995 10 19.38616	22 19 56.30	-22 40 16.4	16.7 R	568	(5065)	1995 10 19.36472	21 40 39.67	-16 42 07.8	17.7 R	568
(3944)	1995 10 19.38828	22 19 56.34	-22 40 15.3	16.7 R	568	(5183)	1995 10 19.60836	04 38 08.20	+31 46 50.0	16.5 R	568
(4006)	1995 10 19.30093	20 22 54.56	-17 49 03.3	17.2 R	568	(5183)	1995 10 19.61103	04 38 08.13	+31 46 49.6	16.5 R	568
(4006)	1995 10 19.30259	20 22 54.64	-17 49 03.0	17.2 R	568	(5254)	1995 10 19.30781	20 25 20.70	-40 28 36.4	16.8 R	568
(4034)	1997 06 29.54440	23 24 24.24	+08 06 22.9		568	(5254)	1995 10 19.31130	20 25 20.76	-40 28 35.6	16.8 R	568
(4034)	1997 06 29.57682	23 24 28.40	+08 06 48.1		568	(5266)	1995 10 19.36616	22 09 34.96	-21 46 23.8		568
(4041)	1995 10 19.39484	22 24 47.51	-23 49 27.7	15.8 R	568	(5266)	1995 10 19.36980	22 09 34.91	-21 46 22.6	18.2 R	568
(4041)	1995 10 19.40225	22 24 47.47	-23 49 26.5	15.8 R	568	(5283)	1995 10 19.28986	20 09 19.29	-35 30 40.9		568
(4064)	1995 10 19.52236	02 05 34.28	+22 45 24.2	16.7 R	568	(5283)	1995 10 19.29451	20 09 19.37	-35 30 40.2		568
(4064)	1995 10 19.52399	02 05 34.18	+22 45 23.9	16.7 R	568	(5437)	1995 10 19.54866	02 31 59.53	+26 09 08.6	16.0 R	568
(4125)	1995 10 19.32476	20 56 49.11	+17 04 47.5	15.6 R	568	(5437)	1995 10 19.55101	02 31 59.37	+26 09 08.2	16.0 R	568
(4125)	1995 10 19.32573	20 56 49.16	+17 04 47.1	15.6 R	568	(5507)	1995 10 19.42977	22 43 57.40	-06 27 46.0	16.7 R	568
(4136)	1995 10 19.61766	05 10 50.43	+18 27 36.4	18.1 R	568	(5507)	1995 10 19.44709	22 43 57.31	-06 27 45.5	16.7 R	568
(4136)	1995 10 19.63030	05 10 50.33	+18 27 35.1	18.1 R	568	(5530)	1995 10 19.55875	02 41 31.22	+20 27 03.4	16.4 R	568
(4156)	1995 10 19.40774	22 32 57.14	+08 39 22.4	16.6 R	568	(5530)	1995 10 19.56028	02 41 31.14	+20 27 03.5	16.4 R	568
(4156)	1995 10 19.41162	22 32 57.07	+08 39 21.7	16.6 R	568	(5548)	1995 10 19.33744	21 06 16.25	-17 22 13.9	17.6 R	568
(4276)	1995 10 19.45469	23 33 39.78	-41 25 53.8		568	(5548)	1995 10 19.34214	21 06 16.31	-17 22 12.9	17.6 R	568
(4469)	1995 10 19.51907	02 02 17.91	+33 18 27.6	16.0 R	568	(5549)	1995 10 19.43524	22 57 48.96	-09 07 54.3	17.5 R	568
(4469)	1995 10 19.52073	02 02 17.81	+33 18 27.6	16.0 R	568	(5549)	1995 10 19.43861	22 57 48.86	-09 07 53.9	17.5 R	568
(4510)	1995 10 19.49473	00 39 33.68	+08 01 17.9	15.1 R	568	(5557)	1995 10 19.57115	02 59 31.28	+21 36 49.4	17.0 R	568
(4510)	1995 10 19.49885	00 39 33.44	+08 01 17.4	15.1 R	568	(5557)	1995 10 19.57215	02 59 31.23	+21 36 49.3	17.0 R	568
(4511)	1995 10 19.64164	05 23 18.96	+50 37 57.6	16.3 R	568	(5871)	1995 10 19.37198	21 52 13.28	+15 06 35.2	16.0 R	568
(4511)	1995 10 19.64321	05 23 18.94	+50 37 58.6	16.3 R	568	(5871)	1995 10 19.43225	21 52 13.27	+15 06 36.5	15.9 R	568
(4564)	1995 10 19.61360	04 57 12.42	+09 46 28.9	17.9 R	568	(5879)	1995 10 19.58245	03 15 12.67	-28 04 16.7	18.5 R	568
(4564)	1995 10 19.61544	04 57 12.38	+09 46 28.1	17.9 R	568	(5879)	1995 10 19.58567	03 15 12.53	-28 04 21.2	18.5 R	568
(4570)	1995 10 19.46131	23 40 19.05	+00 35 37.8	15.9 R	568	(5989)	1995 10 19.40391	22 25 10.20	-08 17 38.9	17.1 R	568
(4570)	1995 10 19.46403	23 40 18.93	+00 35 37.3	15.9 R	568	(5989)	1995 10 19.40628	22 25 10.26	-08 17 38.5	17.1 R	568
(4585)	1995 10 19.44013	23 02 42.74	-22 35 23.7	16.6 R	568	(5993)	1995 10 19.47725	00 00 34.22	+01 54 26.6	16.9 R	568
(4585)	1995 10 19.44440	23 02 42.68	-22 35 22.4	16.6 R	568	(5993)	1995 10 19.47953	00 00 34.08	+01 54 26.1	16.9 R	568
(4587)	1995 10 19.56356	02 50 39.95	-05 06 45.9	18.8 R	568	(6023)	1995 10 19.28394	20 00 51.27	-23 04 57.6	17.5 R	568
(4587)	1995 10 19.56696	02 50 39.75	-05 06 48.1	18.8 R	568	(6023)	1995 10 19.28653	20 00 51.44	-23 04 57.3	17.5 R	568
(4623)	1995 10 19.48162	00 05 05.49	+00 51 57.4	15.7 R	568	(6489)	1995 10 19.46749	23 44 38.64	+00 11 35.8	19.4 R	568
(4623)	1995 10 19.48466	00 05 05.38	+00 51 56.9	15.7 R	568	(6489)	1995 10 19.47384	23 44 38.60	+00 11 34.3	19.4 R	568
(4663)	1995 10 19.34756	21 19 01.51	-22 08 31.7	17.0 R	568	(6491)	1995 10 19.42316	22 38 48.99	+00 48 51.3	20.4 R	568
(4663)	1995 10 19.34934	21 19 01.53	-22 08 31.1	17.0 R	568	(6491)	1995 10 19.42694	22 38 49.08	+00 48 51.1	20.4 R	568
(4665)	1995 10 19.41758	22 35 33.61	+01 19 45.5	16.2 R	568						

1997 JULY 20

M.P.C. 30147

(7066) 1997 06 29.47426 16 35 39.43 -33 40 38.5 568
(7066) 1997 06 29.49803 16 35 39.09 -33 40 38.0 568

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0.5-m reflector + CCD

GSC

1996 DF ₁	1997 06 07.02986	20 37 02.22	-21 53 36.6	587
1996 DF ₁	1997 06 07.03495	20 37 02.32	-21 53 36.5	587
1996 DF ₁	1997 06 07.04710	20 37 02.45	-21 53 36.2	587
1996 DF ₁	1997 07 06.91938	20 28 27.12	-21 56 43.4	587
1996 DF ₁	1997 07 06.93078	20 28 26.59	-21 56 43.9	587
1997 BR	1997 06 23.87917	03 57 38.39	+76 19 59.8	587
1997 BR	1997 06 23.88229	03 57 36.03	+76 19 46.3	587
1997 KD	1997 06 23.86828	13 58 18.66	+00 42 10.0	587
1997 KD	1997 06 23.89872	13 58 18.91	+00 41 53.1	587
1997 KD	1997 07 06.86991	14 02 26.32	-01 18 35.9	587
1997 KD	1997 07 06.91331	14 02 27.35	-01 18 59.2	587
1997 KD	1997 07 08.87512	14 03 22.82	-01 37 50.4	587
1997 MW ₁	1997 07 08.94266	17 47 44.26	+00 03 50.0	587
1997 MW ₁	1997 07 08.94822	17 47 43.06	+00 03 56.2	587
1997 MW ₁	1997 07 08.95296	17 47 42.00	+00 04 01.1	587
1997 NC ₁	1997 07 06.85555	13 10 56.92	-11 16 59.2	587
1997 NC ₁	1997 07 06.85903	13 10 57.16	-11 17 26.4	587
1997 NC ₁	1997 07 06.86290	13 10 57.47	-11 17 56.8	587
1997 NC ₁	1997 07 08.85712	13 13 28.09	-15 28 50.8	587
1997 NC ₁	1997 07 08.85911	13 13 28.24	-15 29 04.7	587
1997 NC ₁	1997 07 08.86185	13 13 28.41	-15 29 24.0	587
1997 NC ₁	1997 07 08.86418	13 13 28.55	-15 29 40.9	587
(566)	1997 01 30.90589	11 17 07.70	+11 22 38.7	587
(566)	1997 01 30.92814	11 17 07.13	+11 22 43.9	587
(2620)	1997 04 09.82106	11 17 08.45	+09 12 59.1	587
(2620)	1997 04 09.83970	11 17 07.83	+09 13 01.8	587
(2620)	1997 04 12.83594	11 15 38.47	+09 18 45.0	587
(2620)	1997 04 12.87477	11 15 37.26	+09 18 48.4	587

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

[ccaf@quark.it]

Observers A. Toso, W. Boschini, L. Drigo, G. Lombardi, E. Pettarin, F. Piani

Measurers E. Pettarin, A. Toso

0.4-m $f/4.5$ reflector + CCD

GSC

1994 QC	1997 06 28.86600	17 11 36.65	+39 14 29.2	18.1 V	595
1994 QC	1997 06 28.88156	17 11 36.60	+39 14 05.2		595
1997 MP ₁	1997 06 25.92223	19 17 11.70	-11 35 28.8		595
1997 MP ₁	* 1997 06 25.94176	19 17 10.77	-11 35 28.7		595
1997 MP ₁	1997 06 28.96668	19 14 54.85	-11 34 40.7		595
1997 MP ₁	1997 06 28.97553	19 14 54.43	-11 34 40.5		595
1997 MP ₁	1997 07 01.01536	19 13 19.62	-11 34 39.4	18.0 V	595
1997 MP ₁	1997 07 01.02921	19 13 18.92	-11 34 39.8		595

1997 MP ₁	1997 07 03.94402	19 11 00.65	-11 35 19.9		595
1997 MP ₁	1997 07 03.95818	19 10 59.97	-11 35 19.4		595
1997 MQ ₁	1997 06 28.96668	19 15 19.20	-11 32 46.1		595
1997 MQ ₁	* 1997 06 28.97553	19 15 18.67	-11 32 46.1	17.8 V	595
1997 MQ ₁	1997 06 30.98249	19 13 20.48	-11 33 02.3		595
1997 MQ ₁	1997 07 01.02921	19 13 17.60	-11 33 03.3		595
1997 MQ ₁	1997 07 03.94102	19 10 22.86	-11 34 31.0		595
1997 MQ ₁	1997 07 03.96778	19 10 21.20	-11 34 32.1		595
1997 NB ₁	1997 07 03.97984	19 30 54.22	-26 28 30.5		595
1997 NB ₁	* 1997 07 03.99435	19 30 53.30	-26 28 32.8		595
1997 NB ₁	1997 07 06.01307	19 28 52.27	-26 34 32.0	18.5 V	595
1997 NB ₁	1997 07 06.02619	19 28 51.38	-26 34 34.5		595
1997 NQ ₂	* 1997 07 06.97662	20 20 00.99	-04 56 51.4		595
1997 NQ ₂	1997 07 06.99979	20 19 59.59	-04 56 41.5		595
1997 NQ ₂	1997 07 07.01227	20 19 58.88	-04 56 37.2		595
1997 NQ ₂	1997 07 08.87844	20 18 08.08	-04 44 45.7	18.5 V	595
1997 NQ ₂	1997 07 08.89425	20 18 07.16	-04 44 39.7		595
1997 NQ ₂	1997 07 08.91466	20 18 05.90	-04 44 32.5		595
1997 NQ ₂	1997 07 10.90176	20 16 05.26	-04 32 25.1		595
1997 NQ ₂	1997 07 10.92149	20 16 04.17	-04 32 16.0		595
1997 NQ ₂	1997 07 12.95209	20 13 58.63	-04 20 23.3		595
1997 NQ ₂	1997 07 12.96479	20 13 57.83	-04 20 19.3		595
1997 NK ₆	1997 07 08.99367	20 19 41.99	-08 32 21.1		595
1997 NK ₆	* 1997 07 09.00706	20 19 41.38	-08 32 23.2	18.8 V	595
1997 NK ₆	1997 07 10.91812	20 18 17.48	-08 37 34.2		595
1997 NK ₆	1997 07 10.92959	20 18 17.00	-08 37 34.8		595
1997 NL ₆	1997 07 12.01321	20 19 42.93	-09 36 18.0	17.5 V	595
1997 NL ₆	* 1997 07 12.03778	20 19 41.72	-09 36 21.3		595
1997 NL ₆	1997 07 12.93038	20 19 01.24	-09 38 31.1		595
1997 NL ₆	1997 07 12.94898	20 19 00.27	-09 38 33.9		595
(5299)	1997 07 03.98301	19 30 18.87	-26 21 43.3		595
(5299)	1997 07 03.99733	19 30 18.18	-26 21 45.2		595

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0.40-m $f/2.95$ reflector + CCD

GSC

1966 CM	1997 06 14.88830	18 06 11.31	-04 10 14.1	17.6 V	596
1966 CM	1997 06 14.90672	18 06 10.27	-04 10 16.2		596
1966 CM	1997 06 14.91778	18 06 09.72	-04 10 16.9		596
1984 UT	1997 07 01.91971	20 05 38.83	+00 52 18.2	17.5 V	596
1984 UT	1997 07 01.95356	20 05 37.25	+00 52 25.6		596
1992 QE ₂	1997 07 01.86446	20 05 22.68	+00 37 28.0	17.7 V	596
1992 QE ₂	1997 07 01.89491	20 05 21.59	+00 37 28.9		596
1992 QE ₂	1997 07 01.90623	20 05 21.27	+00 37 28.9		596
1993 MC	1997 06 14.88830	18 07 11.73	-04 05 17.9	15.9 V	596
1993 MC	1997 06 14.90672	18 07 10.82	-04 05 08.6		596
1993 MC	1997 06 14.91778	18 07 10.29	-04 05 02.8		596
1997 NQ	* 1997 07 01.86446	20 04 09.02	+00 29 06.9	17.1 V	596
1997 NQ	1997 07 01.87774	20 04 08.44	+00 29 10.2		596
1997 NQ	1997 07 01.89491	20 04 07.74	+00 29 12.9		596
1997 NQ	1997 07 01.90623	20 04 07.29	+00 29 16.1		596

1997 NQ	1997 07 02.87723	20 03 28.86	+00 32 33.1	16.9 V	596
1997 NQ	1997 07 02.88789	20 03 28.47	+00 32 35.8		596
1997 NQ	1997 07 02.90049	20 03 27.82	+00 32 39.4		596

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

0.60-m $f/3$ Schmidt + CCD

1981 RQ ₂	1997 06 23.87882	15 53 05.79	-13 50 21.4	17.0 V	599
1981 RQ ₂	1997 06 23.88993	15 53 05.41	-13 50 18.1		599
1981 RQ ₂	1997 06 26.00032	15 52 02.25	-13 40 41.5	17.0 V	599
1981 RQ ₂	1997 06 26.01204	15 52 01.84	-13 40 39.3		599
1983 RX ₃	1997 07 09.86080	13 37 34.55	+04 05 33.3	17.8 V	599
1983 RX ₃	1997 07 09.88732	13 37 35.65	+04 05 23.0		599
1985 XA	1997 07 09.86337	13 38 50.55	+05 45 33.7	18.9 V	599
1985 XA	1997 07 09.89259	13 38 52.08	+05 44 54.6		599
1987 YS ₁	1997 07 09.86080	13 38 32.09	+04 39 00.9	18.6 V	599
1987 YS ₁	1997 07 09.88732	13 38 33.14	+04 38 47.4		599
1989 WU ₁	1997 06 23.02595	23 25 26.92	+09 54 59.7	17.6 V	599
1989 WU ₁	1997 06 23.03785	23 25 27.95	+09 55 09.7		599
1989 WU ₁	1997 06 23.04149	23 25 28.31	+09 55 13.2		599
1991 FH ₂	1997 05 27.96944	16 20 02.93	-22 06 20.4	19.0 V	599
1991 FH ₂	1997 05 27.98266	16 20 02.26	-22 06 18.7		599
1992 EF ₂	1997 07 10.06743	01 06 05.06	+02 59 56.6	19.8 V	599
1992 EF ₂	1997 07 10.08528	01 06 05.93	+02 59 57.0		599
1994 YO	1997 07 10.06743	01 09 19.03	+03 08 22.5	18.2 V	599
1994 YO	1997 07 10.08528	01 09 20.76	+03 08 30.3		599
1996 CW ₇	1997 07 10.06743	01 06 55.01	+02 26 59.1	18.5 V	599
1996 CW ₇	1997 07 10.08528	01 06 56.21	+02 27 06.0		599
1996 DJ ₁	1997 05 27.96944	16 19 59.66	-22 20 45.1	18.5 V	599
1996 DJ ₁	1997 05 27.98266	16 19 59.05	-22 20 44.2		599
1996 GG ₂	1997 05 27.96944	16 18 22.62	-22 33 00.4	18.4 V	599
1996 GG ₂	1997 05 27.98266	16 18 21.77	-22 32 57.1		599
1997 GC ₃₂	1997 05 28.05891	23 13 46.52	+28 52 20.7	19.0 V	599
1997 GC ₃₂	1997 05 28.06453	23 13 52.06	+28 52 34.2		599
1997 GC ₃₂	1997 05 28.07037	23 13 57.55	+28 52 48.5		599
1997 MD	* 1997 06 23.92711	16 25 56.67	-10 09 49.5	18.8 V	599
1997 MD	1997 06 23.93681	16 25 56.32	-10 09 50.6		599
1997 MD	1997 06 26.02965	16 24 30.67	-10 11 31.6	18.6 V	599
1997 MD	1997 06 26.03958	16 24 30.16	-10 11 31.8		599
1997 ME	* 1997 06 23.92711	16 27 13.01	-10 31 29.0	18.6 V	599
1997 ME	1997 06 23.93681	16 27 12.62	-10 31 29.6		599
1997 ME	1997 06 26.02965	16 25 52.79	-10 36 28.8	19.0 V	599
1997 ME	1997 06 26.03958	16 25 52.42	-10 36 29.8		599
1997 MF	* 1997 06 25.05002	19 54 48.89	-19 36 05.9	19.0 V	599
1997 MF	1997 06 25.06273	19 54 48.44	-19 36 08.2		599
1997 MF	1997 06 26.05058	19 54 11.31	-19 37 28.3	18.2 V	599
1997 MF	1997 06 26.06007	19 54 10.86	-19 37 30.7		599
1997 MG	* 1997 06 25.05002	19 55 57.88	-18 58 44.3	17.7 V	599

1997 MG	1997 06 25.06273	19 55 57.26	-18 58 49.0		599
1997 MG	1997 06 26.05058	19 55 10.30	-19 04 40.6	17.6 V	599
1997 MG	1997 06 26.06007	19 55 09.66	-19 04 44.2		599
1997 MQ	1997 07 09.97604	21 02 28.65	-01 30 04.7	20.8 V	599
1997 MQ	1997 07 09.99167	21 02 28.17	-01 30 12.0		599
1997 MS	1997 06 25.96542	15 40 44.88	-15 56 43.6	18.4 V	599
1997 MS	1997 06 25.96759	15 40 44.57	-15 56 56.8		599
1997 MS	1997 06 25.97422	15 40 43.28	-15 57 48.5		599
1997 MS	1997 06 25.99230	15 40 40.23	-15 59 55.1		599
1997 MW ₁	1997 07 09.91903	17 44 21.04	+00 21 25.8	18.5 V	599
1997 MW ₁	1997 07 09.92245	17 44 20.17	+00 21 30.7		599
1997 MW ₁	1997 07 09.92656	17 44 19.33	+00 21 34.2		599
1997 MW ₁	1997 07 09.92998	17 44 18.58	+00 21 36.8		599
1997 NC ₁	1997 07 09.83021	13 14 40.59	-17 22 08.5	16.8 V	599
1997 NC ₁	1997 07 09.83405	13 14 40.79	-17 22 34.5		599
1997 NC ₁	1997 07 09.83694	13 14 40.96	-17 22 54.6		599
1997 NC ₁	1997 07 09.84137	13 14 41.21	-17 23 24.0		599
1997 ND ₂	1997 07 09.97604	21 04 22.80	-01 16 08.7	18.5 V	599
1997 ND ₂	1997 07 09.99167	21 04 21.83	-01 16 02.4		599
(517)	1997 06 26.05058	19 56 14.66	-19 32 22.4	14.5 V	599
(517)	1997 06 26.06007	19 56 14.25	-19 32 23.1		599
(1592)	1997 06 26.02965	16 25 01.84	-09 52 08.4	14.1 V	599
(1592)	1997 06 26.03958	16 25 01.46	-09 52 15.3		599
(4678)	1997 07 10.06743	01 06 13.89	+03 15 53.8	15.7 V	599
(4678)	1997 07 10.08528	01 06 15.69	+03 16 05.1		599
(5608)	1997 05 27.84146	10 19 11.40	+12 55 01.2	17.5 V	599
(5608)	1997 05 27.85891	10 19 12.34	+12 54 54.7		599
(5841)	1997 03 18.07882	10 41 57.74	+04 40 43.1	16.8 V	599
(5841)	1997 03 18.09025	10 41 56.78	+04 40 40.5		599
(7152)	1997 07 10.06743	01 06 12.72	+03 07 56.6	17.6 V	599
(7152)	1997 07 10.08528	01 06 13.09	+03 07 58.3		599
(7401)	1997 03 18.07882	10 41 48.50	+05 23 38.6	18.5 V	599
(7401)	1997 03 18.09025	10 41 47.89	+05 23 42.9		599
(7676)	1997 07 09.86337	13 36 53.47	+05 06 55.3	17.5 V	599
(7676)	1997 07 09.89259	13 36 55.35	+05 06 35.6		599

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

1.2-m reflector + CCD

1980 RG ₁	1997 06 16.40823	16 36 13.86	-19 13 06.3	18.8 R	608
1980 RG ₁	1997 06 16.48020	16 36 08.61	-19 12 43.3	18.9 R	608
1990 FH	1997 06 17.36205	13 00 16.21	-03 39 22.2	17.1 R	608
1990 FH	1997 06 17.39442	13 00 17.30	-03 40 05.4	17.2 R	608
1990 KT	1997 06 16.31930	11 53 32.70	+02 21 08.8	18.4 R	608
1990 KT	1997 06 16.35762	11 53 35.57	+02 21 11.0	18.2 R	608
1991 TL ₁	1997 06 16.37061	15 25 44.74	+01 35 39.8	18.4 R	608
1991 TL ₁	1997 06 16.43473	15 25 42.46	+01 35 43.2	18.5 R	608

1991 VH	1997 05 21.36838	11 28 02.00	+35 02 48.0	18.0 R	608
1991 VH	1997 05 21.40413	11 28 04.88	+35 02 10.2	17.6 R	608
1991 VH	1997 06 16.32202	12 12 17.72	+26 28 21.8	18.2 R	608
1991 VH	1997 06 16.36044	12 12 21.94	+26 27 29.6	18.2 R	608
1993 RR ₂	1997 06 16.33307	13 36 08.63	+07 11 22.5	18.7 R	608
1993 RR ₂	1997 06 16.44414	13 36 08.69	+07 10 50.9	18.8 R	608
1993 RR ₂	1997 06 17.38389	13 36 12.17	+07 06 25.2	18.5 R	608
1993 RR ₂	1997 06 17.41638	13 36 12.29	+07 06 15.2	18.7 R	608
1997 GH ₃	1997 05 20.37125	12 03 57.61	+04 41 06.8	17.9 R	608
1997 GH ₃	1997 05 20.38015	12 03 59.52	+04 40 54.8	17.6 R	608
1997 GH ₃	1997 06 18.30241	13 31 21.20	-04 30 10.4	18.4 R	608
1997 GH ₃	1997 06 18.33862	13 31 26.28	-04 30 45.4	18.5 R	608
1997 MS	1997 06 28.39116	15 34 56.44	-20 14 02.6	18.6 R	608
1997 MS	1997 06 28.40688	15 34 54.37	-20 15 30.1	18.5 R	608
(1550)	1997 06 28.39116	15 34 32.07	-20 20 15.7	16.1 R	608
(1550)	1997 06 28.40688	15 34 31.47	-20 20 15.8	16.1 R	608
(3015)	1997 06 16.34428	14 45 49.73	-23 53 03.8	16.1 R	608
(3015)	1997 06 16.40542	14 45 47.82	-23 53 02.8	16.3 R	608
(3040)	1997 06 24.52818	17 13 45.82	+43 56 55.0	17.7 R	608
(3040)	1997 06 24.54765	17 13 44.21	+43 56 39.3	17.6 R	608
(3116)	1997 06 17.36364	13 07 46.72	-02 11 13.4	16.6 R	608
(3116)	1997 06 17.39615	13 07 47.23	-02 11 23.2	16.5 R	608
(3271)	1997 06 16.34120	13 33 53.15	+27 32 48.7	19.3 R	608
(3271)	1997 06 16.40226	13 33 53.94	+27 32 14.6	19.3 R	608
(3271)	1997 06 17.38047	13 34 09.69	+27 22 59.0	19.1 R	608
(3271)	1997 06 17.40556	13 34 10.06	+27 22 44.4	18.8 R	608
(3271)	1997 06 18.30601	13 34 26.68	+27 13 58.5	19.0 R	608
(3271)	1997 06 18.34196	13 34 27.17	+27 13 38.3	18.7 R	608
(3671)	1997 06 16.33557	12 27 21.58	+07 07 09.2	15.2 R	608
(3671)	1997 06 16.34774	12 27 19.49	+07 06 10.1	15.1 R	608
(5145)	1997 05 21.38420	13 03 46.95	+20 08 31.2	18.1 R	608
(5145)	1997 05 21.46891	13 03 46.24	+20 08 27.5	18.1 R	608
(5145)	1997 06 16.32928	13 01 48.83	+19 35 30.2	17.9 R	608
(5145)	1997 06 16.44114	13 01 48.75	+19 35 18.3	17.9 R	608
(5145)	1997 06 17.35570	13 01 48.17	+19 33 40.2	17.8 R	608
(5145)	1997 06 17.42925	13 01 48.13	+19 33 32.0	17.7 R	608
(6569)	1997 06 16.32503	12 27 56.43	+30 41 30.5	18.7 R	608
(6569)	1997 06 16.36752	12 28 00.37	+30 40 15.8	18.1 R	608

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

GSC

1970 OB	1997 06 14.88096	15 56 28.81	-18 39 15.4	15.1 V	610
1970 OB	1997 06 14.89456	15 56 28.12	-18 39 17.7		610
1970 OB	1997 06 14.90612	15 56 27.52	-18 39 19.7		610
1970 OB	1997 06 27.89909	15 48 50.40	-19 18 34.0	15.5 V	610
1970 OB	1997 06 27.90684	15 48 50.20	-19 18 35.7		610
1970 OB	1997 06 27.91367	15 48 50.03	-19 18 37.3		610
1970 OB	1997 07 03.85492	15 47 29.47	-19 41 29.7	15.7 V	610
1970 OB	1997 07 03.86048	15 47 29.43	-19 41 31.1		610
1970 OB	1997 07 03.86602	15 47 29.39	-19 41 32.5		610

1975 EA ₃	1997 06 06.84325	14 57 32.96	-20 31 06.1	16.1 V	610
1975 EA ₃	1997 06 06.85905	14 57 32.39	-20 31 04.9		610
1975 EA ₃	1997 06 06.87234	14 57 31.91	-20 31 03.9		610
1975 EA ₃	1997 07 01.85483	14 54 32.58	-20 30 24.2	16.7 V	610
1975 EA ₃	1997 07 01.85985	14 54 32.69	-20 30 24.6		610
1975 EA ₃	1997 07 01.86476	14 54 32.80	-20 30 24.9		610
1978 NN ₁	1997 06 06.89379	15 52 45.74	-06 40 01.4	16.3 V	610
1978 NN ₁	1997 06 06.91315	15 52 44.73	-06 40 00.4		610
1978 NN ₁	1997 06 06.93014	15 52 43.84	-06 39 59.5		610
1978 NN ₁	1997 07 01.88098	15 38 29.62	-07 26 54.2	17.1 V	610
1978 NN ₁	1997 07 01.88793	15 38 29.49	-07 26 55.6		610
1978 NN ₁	1997 07 01.89487	15 38 29.37	-07 26 57.1		610
1978 PW ₃	1997 06 14.91442	17 53 44.80	-11 32 32.4	16.5 V	610
1978 PW ₃	1997 06 14.92591	17 53 44.27	-11 32 31.8		610
1978 PW ₃	1997 06 14.93507	17 53 43.85	-11 32 31.3		610
1978 PW ₃	1997 06 23.96019	17 45 23.51	-11 33 15.4	16.5 V	610
1978 PW ₃	1997 06 23.97015	17 45 22.99	-11 33 16.4		610
1978 PW ₃	1997 06 23.98260	17 45 22.35	-11 33 17.7		610
1978 PW ₃	1997 06 27.94773	17 41 46.98	-11 37 21.9		610
1978 PW ₃	1997 06 27.95521	17 41 46.54	-11 37 22.8		610
1978 PW ₃	1997 06 27.96228	17 41 46.13	-11 37 23.5		610
1978 PW ₃	1997 07 03.92502	17 36 42.32	-11 47 46.4	16.6 V	610
1978 PW ₃	1997 07 03.93679	17 36 41.72	-11 47 47.5		610
1978 PW ₃	1997 07 03.94765	17 36 41.16	-11 47 48.5		610
1981 WS ₁	1997 06 23.85984	14 51 57.70	-16 52 00.8	16.4 V	610
1981 WS ₁	1997 06 23.86678	14 51 57.69	-16 52 02.4		610
1981 WS ₁	1997 06 23.87374	14 51 57.69	-16 52 04.1		610
1981 WS ₁	1997 06 27.86218	14 51 59.77	-17 09 58.6	16.5 V	610
1981 WS ₁	1997 06 27.86911	14 51 59.91	-17 10 00.9		610
1981 WS ₁	1997 06 27.87604	14 52 00.05	-17 10 03.1		610
1984 MP	1997 06 23.88350	15 17 53.75	-10 24 03.8	15.5 V	610
1984 MP	1997 06 23.89043	15 17 53.70	-10 24 02.2		610
1984 MP	1997 06 23.89738	15 17 53.64	-10 24 00.6		610
1989 WU ₁	1997 06 15.06045	23 13 46.11	+08 04 23.5	17.8 V	610
1989 WU ₁	1997 06 15.06497	23 13 46.52	+08 04 27.4		610
1989 WU ₁	1997 06 15.06947	23 13 46.92	+08 04 31.4		610
1989 WU ₁	1997 06 15.07880	23 13 47.76	+08 04 39.5		610
1989 WU ₁	1997 06 15.08330	23 13 48.17	+08 04 43.4		610
1989 WU ₁	1997 07 02.09466	23 37 40.40	+11 54 36.9	17.5 V	610
1989 WU ₁	1997 07 02.09779	23 37 40.69	+11 54 39.3		610
1989 WU ₁	1997 07 02.10027	23 37 40.91	+11 54 41.3		610
1994 PL	1997 06 27.89477	15 48 23.10	+04 13 29.1	16.8 V	610
1994 PL	1997 06 27.90292	15 48 22.87	+04 13 32.0		610
1994 PL	1997 06 27.91020	15 48 22.67	+04 13 34.6		610
1997 NZ ₂	* 1997 07 07.00107	19 36 17.73	-27 22 29.0	17.0 V	610
1997 NZ ₂	1997 07 07.00523	19 36 17.51	-27 22 29.6		610
1997 NZ ₂	1997 07 07.00940	19 36 17.29	-27 22 30.3		610
1997 NZ ₂	1997 07 07.01357	19 36 17.08	-27 22 30.9		610
1997 NZ ₂	1997 07 07.99201	19 35 24.95	-27 26 27.3	I	610
1997 NZ ₂	1997 07 07.99688	19 35 24.63	-27 26 29.0	b	610
1997 NZ ₂	1997 07 08.00174	19 35 24.32	-27 26 30.7	b	610
1997 NZ ₂	1997 07 08.99111	19 34 31.00	-27 30 30.7		610

1997 NZ ₂	1997 07 09.00499	19 34 30.14	-27 30 31.7		610
1997 NZ ₂	1997 07 09.00846	19 34 29.92	-27 30 32.0		610
(1039)	1997 06 06.95416	17 01 15.71	-18 34 29.4	14.4 V	610
(1039)	1997 06 06.96850	17 01 14.92	-18 34 27.1		610
(1039)	1997 06 06.98377	17 01 14.08	-18 34 24.5		610
(1108)	1997 06 06.89813	15 52 57.13	-08 55 49.2	14.2 V	610
(1108)	1997 06 06.91593	15 52 56.14	-08 55 28.4		610
(1108)	1997 06 06.93292	15 52 55.20	-08 55 08.5		610
(1650)	1997 06 06.94721	16 58 58.53	-18 09 49.3	13.4 V	610
(1650)	1997 06 06.96295	16 58 57.60	-18 09 47.0		610
(1650)	1997 06 06.97822	16 58 56.69	-18 09 44.8		610
(1980)	1997 06 23.99895	18 47 06.72	+19 50 00.5	14.5 V	610
(1980)	1997 06 24.00381	18 47 06.26	+19 50 16.9		610
(1980)	1997 06 24.00866	18 47 05.80	+19 50 33.3		610
(2189)	1997 06 14.87824	15 53 11.68	+00 25 43.7	15.7 V	610
(2189)	1997 06 14.89249	15 53 10.91	+00 25 40.8		610
(2189)	1997 06 14.90405	15 53 10.28	+00 25 38.4		610
(2349)	1997 06 14.87223	16 09 42.26	+03 16 01.5	16.2 V	610
(2349)	1997 06 14.88831	16 09 41.55	+03 15 58.3		610
(2349)	1997 06 14.89988	16 09 41.05	+03 15 56.0		610
(2550)	1997 06 06.90144	16 07 52.43	-06 32 19.4	16.7 V	610
(2550)	1997 06 06.91870	16 07 51.71	-06 32 17.7		610
(2550)	1997 06 06.93569	16 07 51.01	-06 32 16.1		610
(2704)	1997 06 06.95088	16 59 16.76	-17 10 12.1	16.5 V	610
(2704)	1997 06 06.96573	16 59 15.84	-17 10 09.8		610
(2704)	1997 06 06.98100	16 59 14.89	-17 10 07.5		610
(3028)	1997 06 06.88801	15 47 51.40	-08 21 31.8	15.1 V	610
(3028)	1997 06 06.90759	15 47 50.57	-08 21 28.7		610
(3028)	1997 06 06.92458	15 47 49.85	-08 21 26.0		610
(3394)	1997 06 06.89101	15 51 25.19	-09 23 19.1	16.0 V	610
(3394)	1997 06 06.91037	15 51 24.24	-09 23 15.8		610
(3394)	1997 06 06.92736	15 51 23.41	-09 23 12.9		610
(3494)	1997 06 06.93964	16 55 25.66	-18 38 48.4	16.7 V	610
(3494)	1997 06 06.95740	16 55 24.54	-18 38 43.2		610
(3494)	1997 06 06.97266	16 55 23.58	-18 38 38.7		610
(3606)	1997 06 06.84701	15 00 34.35	-21 15 06.8	16.5 V	610
(3606)	1997 06 06.86117	15 00 33.75	-21 15 01.1		610
(3606)	1997 06 06.87442	15 00 33.19	-21 14 55.8		610
(4215)	1997 06 06.85045	15 02 31.32	-18 29 18.1	15.1 V	610
(4215)	1997 06 06.86325	15 02 30.83	-18 29 13.2		610
(4215)	1997 06 06.87651	15 02 30.33	-18 29 08.1		610
(4316)	1997 06 06.85329	15 05 15.17	-19 17 50.1	16.5 V	610
(4316)	1997 06 06.86534	15 05 14.73	-19 17 48.5		610
(4316)	1997 06 06.87859	15 05 14.24	-19 17 46.7		610
(5182)	1997 06 14.86926	16 07 52.66	+05 09 00.5	15.6 V	610
(5182)	1997 06 14.88622	16 07 51.95	+05 08 55.2		610
(5182)	1997 06 14.89780	16 07 51.46	+05 08 51.6		610
(6073)	1997 06 14.91060	18 08 12.61	-07 48 36.2	16.2 V	610
(6073)	1997 06 14.92382	18 08 12.08	-07 48 34.0		610
(6073)	1997 06 14.93297	18 08 11.71	-07 48 32.5		610
(6073)	1997 06 23.96720	18 00 03.53	-07 29 55.1	16.2 V	610
(6073)	1997 06 23.97571	18 00 03.09	-07 29 53.9		610

(6073)	1997 06 23.98817	18 00 02.44	-07 29 52.2		610
(6073)	1997 06 27.95190	17 56 30.01	-07 25 03.5		610
(6073)	1997 06 27.95882	17 56 29.70	-07 25 03.2		610
(6073)	1997 06 27.96553	17 56 29.40	-07 25 02.9		610
(6898)	1997 06 06.88446	15 46 35.16	-06 15 58.9	15.8 V	610
(6898)	1997 06 06.90482	15 46 34.09	-06 16 05.1		610
(6898)	1997 06 06.92181	15 46 33.20	-06 16 10.4		610

620 Observatorio Astronómico de Mallorca

M. Blasco, Afueras s/n, E-07144 Costitx, Balears, Spain

[astroam@dinky.bitel.es]

Observers R. Pacheco, A. Lopez

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

1993 FA ₂₇	1997 07 04.97043	20 49 44.72	-06 17 07.2		620
1993 FA ₂₇	1997 07 04.99572	20 49 44.11	-06 17 01.3		620
1993 FA ₂₇	1997 07 05.02124	20 49 43.50	-06 16 54.6		620
1993 FA ₂₇	1997 07 11.96481	20 46 38.40	-05 57 35.8		620
1993 FA ₂₇	1997 07 11.98519	20 46 37.66	-05 57 33.5		620
1993 FA ₂₇	1997 07 12.01186	20 46 36.60	-05 57 30.3		620
1997 LL ₆	* 1997 06 13.97963	18 22 01.76	-16 51 08.8	15.5	620
1997 LL ₆	1997 06 14.02200	18 21 59.55	-16 51 12.6	15.5	620
1997 LL ₆	1997 06 16.92972	18 19 43.42	-16 58 45.7		620
1997 LL ₆	1997 06 16.93955	18 19 43.09	-16 58 49.1		620
1997 LL ₆	1997 06 16.95471	18 19 42.03	-16 58 51.6		620
1997 LL ₆	1997 06 16.99384	18 19 40.15	-16 58 58.1		620
1997 LL ₆	1997 07 03.97245	18 05 33.47	-18 01 42.8	14.8	620
1997 LL ₆	1997 07 03.98628	18 05 32.77	-18 01 46.3		620
1997 LL ₆	1997 07 03.99253	18 05 32.45	-18 01 47.9		620
1997 LL ₆	1997 07 04.90874	18 04 51.42	-18 05 52.6	14.6	620
1997 LL ₆	1997 07 04.95394	18 04 49.21	-18 06 03.8		620
1997 LL ₆	1997 07 04.96285	18 04 48.78	-18 06 06.0		620
1997 LL ₆	1997 07 10.89091	18 00 50.47	-18 33 19.7		620
1997 LL ₆	1997 07 10.89647	18 00 50.25	-18 33 21.3	14.9	620
1997 LL ₆	1997 07 10.93027	18 00 48.94	-18 33 30.6		620
1997 MW ₁	1997 07 04.91262	18 02 53.94	-01 19 26.4		620
1997 MW ₁	1997 07 04.91574	18 02 53.16	-01 19 22.2		620
1997 MW ₁	1997 07 04.93368	18 02 48.68	-01 18 57.9		620
1997 NC ₁	1997 07 07.89543	13 12 15.32	-13 30 58.3		620
1997 NC ₁	1997 07 07.89965	13 12 15.59	-13 31 29.7		620
1997 NC ₁	1997 07 07.90431	13 12 15.87	-13 32 04.4		620
1997 NC ₁	1997 07 07.90868	13 12 16.15	-13 32 36.9	16.5	620
1997 NP ₂	* 1997 07 04.98709	20 49 54.16	-08 01 54.0	18.0	620
1997 NP ₂	1997 07 05.03727	20 49 52.16	-08 01 55.0	17.7	620
1997 NP ₂	1997 07 07.95463	20 47 51.57	-08 04 42.8		620
1997 NP ₂	1997 07 07.97668	20 47 50.45	-08 04 45.3	18.0	620
1997 NP ₂	1997 07 07.98782	20 47 49.88	-08 04 46.5	18.2	620
1997 NP ₂	1997 07 08.00110	20 47 49.21	-08 04 48.0		620
1997 NP ₂	1997 07 10.90174	20 45 36.74	-08 09 19.2		620
1997 NP ₂	1997 07 10.92679	20 45 35.51	-08 09 22.5		620
1997 NP ₂	1997 07 10.95243	20 45 34.26	-08 09 25.9		620
1997 NP ₂	1997 07 11.93067	20 44 46.90	-08 11 21.7		620
1997 NP ₂	1997 07 11.94711	20 44 46.11	-08 11 23.4		620
1997 NP ₂	1997 07 11.95839	20 44 45.52	-08 11 24.0	17.9	620

(15)	1997 06 24.91227	17 35 00.10	-31 19 48.5	620
(15)	1997 06 24.92188	17 34 59.47	-31 19 46.1	620
(15)	1997 06 24.93426	17 34 58.67	-31 19 42.9	620
(15)	1997 06 24.94057	17 34 58.27	-31 19 41.2	620
(15)	1997 06 24.95243	17 34 57.50	-31 19 38.3	620
(15)	1997 06 24.95874	17 34 57.09	-31 19 36.5	620
(429)	1997 07 03.88501	17 49 01.46	-11 28 59.9	620
(429)	1997 07 03.90017	17 49 00.65	-11 28 58.7	620
(429)	1997 07 03.91476	17 48 59.87	-11 28 57.9	620
(429)	1997 07 03.93073	17 48 59.01	-11 28 57.2	620
(429)	1997 07 07.91912	17 45 37.47	-11 25 27.0	620
(429)	1997 07 07.92572	17 45 37.14	-11 25 26.6	620
(429)	1997 07 07.93550	17 45 36.64	-11 25 26.6	620
(429)	1997 07 07.94800	17 45 35.99	-11 25 25.8	620

621 Bergisch Gladbach

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

0.60-m $f/5$ reflector + CCD

GSC, PPM

1997 KC	1997 06 09.92144	14 49 25.21	+01 20 40.5	17.7	621
1997 KC	1997 06 09.92409	14 49 25.14	+01 20 38.7	17.6	621
1997 KC	1997 06 09.92673	14 49 25.07	+01 20 36.6	17.7	621
1997 KC	1997 06 10.89839	14 49 03.15	+01 08 04.6	17.4	621
1997 KC	1997 06 10.89920	14 49 03.14	+01 08 04.2	17.6	621
1997 KC	1997 06 10.90830	14 49 02.92	+01 07 56.9	17.4	621
1997 KC	1997 06 10.90870	14 49 02.90	+01 07 56.4	17.4	621
1997 KC	1997 06 27.92412	14 47 44.92	-02 52 38.6	18.1	621
1997 KC	1997 06 27.92603	14 47 44.93	-02 52 40.0	18.1	621
1997 KC	1997 06 27.92795	14 47 44.97	-02 52 41.8	18.0	621
1997 KC	1997 06 27.92987	14 47 45.00	-02 52 43.5	18.0	621
1997 KC	1997 06 27.93178	14 47 45.00	-02 52 45.4	18.1	621
1997 KC	1997 06 28.94641	14 47 58.39	-03 07 57.6	18.0	621
1997 KC	1997 06 28.94827	14 47 58.41	-03 07 59.3	18.0	621
1997 KC	1997 06 28.95010	14 47 58.45	-03 08 00.9	17.9	621
1997 KM ₄	1997 06 03.92161	15 18 12.06	+05 02 17.5	19.6	621
1997 KM ₄	1997 06 03.92530	15 18 11.95	+05 02 17.7	19.8	621
1997 KM ₄	1997 06 03.92900	15 18 11.83	+05 02 17.5	20.0	621
1997 KM ₄	1997 06 04.92195	15 17 38.03	+05 01 45.4	20.1	621
1997 KM ₄	1997 06 04.92564	15 17 37.88	+05 01 45.4	20.3	621
1997 KM ₄	1997 06 04.92933	15 17 37.79	+05 01 45.3	19.8	621
(2017)	1997 05 30.91627	13 07 45.44	-01 18 18.5	16.2	621
(2017)	1997 05 30.91673	13 07 45.41	-01 18 17.9	16.3	621
(2017)	1997 05 30.91718	13 07 45.43	-01 18 18.5	16.2	621
(2017)	1997 05 30.91763	13 07 45.43	-01 18 18.5	16.2	621
(2017)	1997 05 30.91808	13 07 45.41	-01 18 18.8	16.3	621
(3116)	1997 05 29.93603	13 07 57.34	-01 10 23.6	17.0	621
(3116)	1997 05 29.93648	13 07 57.34	-01 10 23.4	17.1	621
(3116)	1997 05 29.94310	13 07 57.22	-01 10 24.4	17.0	621
(3116)	1997 05 29.94355	13 07 57.23	-01 10 24.2	17.1	621
(3116)	1997 05 30.91627	13 07 42.95	-01 12 15.9	17.0	621
(3116)	1997 05 30.91673	13 07 42.96	-01 12 16.0	17.0	621
(3116)	1997 05 30.91718	13 07 42.94	-01 12 16.1	17.0	621

(3116)	1997 05 30.91763	13 07 42.93	-01 12 16.1	17.0	621
(3116)	1997 05 30.91808	13 07 42.91	-01 12 16.5	17.1	621

628 Mülheim-Ruhr

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0.2-m Schmidt-Cassegrain + CCD

GSC

(978)	1997 07 11.99148	19 13 34.66	+10 41 32.7	13.6 V	628
(978)	1997 07 12.00745	19 13 33.90	+10 41 34.3	13.5 V	628
(978)	1997 07 12.01995	19 13 33.25	+10 41 35.5	13.5 V	628
(1101)	1997 07 11.89218	19 00 24.76	+08 53 17.2	14.6 V	628
(1101)	1997 07 11.91370	19 00 23.82	+08 53 15.9	14.5 V	628
(1101)	1997 07 11.96579	19 00 21.47	+08 53 11.7	14.4 V	628
(3225)	1997 06 27.91370	14 19 18.83	+17 06 36.7	16.4 V	628
(3225)	1997 06 27.92481	14 19 19.22	+17 06 32.6	16.3 V	628
(3225)	1997 06 27.94148	14 19 19.69	+17 06 26.1	16.3 V	628
(3225)	1997 06 27.94982	14 19 19.93	+17 06 23.3	16.2 V	628

629 JATE Observatory, Szeged

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Observers K. Sárneckzy, L. Kiss, É. Barát

Measurers L. Kiss, K. Sárneckzy

0.28-m Schmidt-Cassegrain + CCD

GSC

(487)	1997 05 03.99806	13 57 41.89	+04 14 32.8	12.6	629
(487)	1997 05 04.01912	13 57 40.85	+04 14 35.6	12.5	629
(491)	1997 05 03.99978	13 56 15.36	+04 34 29.5	13.8	629
(491)	1997 05 04.02411	13 56 14.46	+04 34 37.1	13.6	629
(634)	1997 05 04.01434	14 02 09.87	+05 21 13.9	15.2	629
(1093)	1997 05 03.98766	14 01 56.03	+04 06 55.3	13.3	629
(1093)	1997 05 04.01617	14 01 54.32	+04 06 51.3	13.3	629
(4036)	1997 05 04.05784	15 03 35.14	-10 12 18.0	17.4	629
(5694)	1997 05 04.04666	14 44 24.28	-17 24 15.0	16.9	629

630 Osenbach

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Observers C. Demeautis, D. Matter

Measurer C. Demeautis

0.30-m $f/6$ reflector + CCD

GSC

1988 QD ₁	1997 07 10.94049	17 23 39.89	-08 34 44.3	15.3	630
1988 QD ₁	1997 07 10.96278	17 23 39.06	-08 34 30.0	15.4	630
1988 QD ₁	1997 07 10.99387	17 23 37.95	-08 34 10.1	15.3	630
1990 KO	1997 07 10.94710	17 39 35.92	+11 17 16.1	14.7	630
1990 KO	1997 07 11.00056	17 39 33.61	+11 17 45.6	14.5	630
1993 HK ₁	1997 07 11.01286	18 26 13.62	+16 27 35.1	14.5	630
1993 HK ₁	1997 07 11.04136	18 26 12.35	+16 27 49.2	14.7	630

658 Dominion Astrophysical Observatory, Victoria

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

1.82-m Plaskett telescope + CCD
GSC, USNO-A1.0, USNO-SA1.0

1997 MW ₁	1997 07 03.25273	18 09 37.89	−01 58 50.8	658
1997 MW ₁	1997 07 03.25377	18 09 37.65	−01 58 49.2	658
1997 MW ₁	1997 07 03.25479	18 09 37.39	−01 58 47.9	658
1997 MW ₁	1997 07 03.25582	18 09 37.15	−01 58 46.3	658

669 Ojai

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Observers S. Stephens, S. Levine, M. Frank, K. Grynwald, S. Keckler, L. Feng, E. Brennan, M. Buckley, C. Chow, J. Earl, D. Eisner, R. Jim, K. Kuo, J. Lee, J. Lichti, J. Liu, E. Lopez, K. Neal, L. Nealon, J. Orloff, M. Pan, G. Prochter, L. Sergeeva, Z. Tanovic, C. Thomas, E. Toberer, A. Wright, D. Yue

0.18-m *f*/6.7 astrograph

(9)	1996 07 04.31181	18 27 46.06	−27 45 59.6	669
(9)	1996 07 04.36944	18 27 42.22	−27 46 05.5	669
(9)	1996 07 13.38125	18 18 16.24	−28 03 06.9	669
(9)	1996 07 14.35069	18 17 19.02	−28 04 33.3	669
(9)	1996 07 23.25694	18 09 25.85	−28 14 16.7	669
(9)	1996 07 23.30277	18 09 23.41	−28 14 17.4	669
(37)	1996 07 09.36736	19 18 30.72	−26 50 50.3	669
(37)	1996 07 20.29167	19 07 44.14	−27 05 23.4	669
(419)	1996 07 09.39375	19 47 01.66	−13 50 39.0	669
(419)	1996 07 17.29375	19 40 38.23	−13 54 19.8	669
(419)	1996 07 24.26875	19 35 09.61	−14 02 54.4	669
(914)	1996 06 30.26390	20 30 39.80	+13 04 59.8	669
(914)	1996 07 01.26319	20 29 57.90	+13 25 58.8	669

670 Camarillo

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0.25-m Schmidt-Cassegrain + CCD
GSC

1997 NC ₁	1997 07 06.18681	13 10 05.74	−09 46 47.9	17.2 V	670
1997 NC ₁	1997 07 06.19236	13 10 06.02	−09 47 33.2		670
1997 NC ₁	1997 07 06.20278	13 10 06.62	−09 48 59.1		670
1997 NC ₁	1997 07 06.24450	13 10 09.21	−09 54 38.1		670
1997 NC ₁	1997 07 07.17431	13 11 21.55	−11 58 42.7	16.4 V	670
1997 NC ₁	1997 07 07.18264	13 11 22.01	−11 59 47.1		670
1997 NC ₁	1997 07 07.20278	13 11 23.13	−12 02 23.8		670
1997 NC ₁	1997 07 07.21806	13 11 24.06	−12 04 21.9		670
1997 NC ₁	1997 07 08.18275	13 12 37.68	−14 06 45.9	16.9 V	670
1997 NC ₁	1997 07 08.20289	13 12 38.79	−14 09 14.2		670

675 Palomar

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C. S. Shoemaker, P.O. Box 984, Flagstaff, AZ 86002, U.S.A.
[gshoemaker@iflag2.wr.usgs.gov] (3)

C. J. van Houten, Sterrewacht Leiden, Postbus 9513, NL-2300 RA Leiden, The Netherlands [vanhouten@rulhl1.leidenuniv.nl] (4)

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

9 = 6 + 3

Observers P. Bendjoya (3, S), C. Brewer (6, S), D. J. Chadwick (3, S), S. J. Edberg (3, S), T. Gehrels (4, L), E. F. Helin (2, S), H. E. Holt (3, S), P. Jedicke (3, S), K. Lawrence (2, S), D. H. Levy (3, S), T. Melis (3, S), J. Mueller (6, S), C. M. Olmstead (3, S), C. S. Shoemaker (3, S), E. M. Shoemaker (3, S), T. B. Spahr (3, S), N. G. Thomas (3, S), D. K. Williams (3, S),
Measurers B. L. Cummings (6), J. Hlavac (6), K. J. Lawrence (2), C. S. Shoemaker (3), B. A. Skiff (6), C. J. van Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4)

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

1967 JP	1994 04 05.29149	11 37 09.70	−01 23 59.5	18.0	9 675
1967 JP	1994 04 05.33420	11 37 07.90	−01 23 50.9		9 675
1978 VO ₈	1993 10 15.18559	23 44 16.03	−05 15 58.3	19.0	9 675
1978 VO ₈	1993 10 15.22986	23 44 14.40	−05 16 05.8		9 675
1978 VE ₉	1991 05 13.35295	14 54 25.81	−18 22 16.8	17.5	9 675
1978 VE ₉	1991 05 13.39236	14 54 23.88	−18 22 08.1		9 675
1978 VE ₉	1991 05 15.30486	14 52 48.33	−18 14 49.3	17.0	9 675
1978 VE ₉	1991 05 15.35747	14 52 45.66	−18 14 38.4		9 675
1978 VH ₁₀	1995 03 27.24653	11 17 05.04	+09 36 00.8	19.8	9 675
1979 MY ₅	1988 08 15.26997	20 52 11.45	−04 29 13.4		9 675
1979 SP ₁₄	1991 10 17.37326	03 02 57.00	+13 18 30.6	17.8	6 675
1980 VO	1991 05 13.35295	14 42 00.23	−17 41 04.3	18.5	9 675
1980 XX	1995 03 27.24653	11 28 55.99	+12 40 31.7	19.0	9 675
1981 DA ₁	1954 04 03.25799	11 26 31.16	−12 10 26.7		6 675
1981 DA ₁	1954 04 03.28125	11 26 30.17	−12 10 14.4	18.5	6 675
1981 EP ₁₆	1991 05 15.30486	14 51 45.61	−19 40 04.6	18.2	9 675
1981 EP ₃₈	1988 08 15.23854	21 07 06.98	−02 58 45.5	19.0	9 675
1981 EP ₃₈	1988 08 15.26997	21 07 05.53	−02 58 57.5		9 675
1981 JO	1988 08 15.23854	21 04 29.37	−01 43 02.0	16.2	9 675
1981 JO	1988 08 15.26997	21 04 27.86	−01 43 12.7		9 675
1981 JO	1991 05 13.35295	14 56 03.61	−16 14 23.7	16.8	9 675
1981 JO	1991 05 13.39236	14 56 01.23	−16 14 02.8		9 675
1981 JO	1991 05 15.30486	14 54 08.65	−15 56 58.8	16.8	9 675
1981 JO	1991 05 15.35747	14 54 05.44	−15 56 29.6		9 675
1981 JO	1994 03 12.39601	11 52 17.64	−07 49 24.9		9 675
1981 JO	1994 03 12.43976	11 52 15.07	−07 49 06.0		9 675
1981 JO	1994 04 05.29149	11 29 46.47	−04 34 32.7	18.5	9 675
1981 JO	1994 04 05.33420	11 29 44.25	−04 34 10.7		9 675
1981 QU ₃	1995 03 27.24653	11 31 30.25	+10 25 27.6	18.2	9 675
1981 SC ₇	1993 10 15.18559	00 01 29.28	−09 29 21.9	17.0	9 675
1981 SC ₇	1993 10 15.22986	00 01 27.20	−09 29 10.0		9 675
1981 VU	1991 05 15.30486	14 40 05.79	−14 13 33.6	19.2	9 675
1982 QX ₁	1993 09 18.32934	00 51 30.62	−05 49 24.1	17.5	9 675
1982 QX ₁	1993 09 18.36684	00 51 28.78	−05 49 44.3		9 675
1982 QX ₁	1993 09 22.33854	00 48 16.95	−06 25 13.6	17.5	9 675
1982 QX ₁	1993 09 22.37778	00 48 14.88	−06 25 33.8		9 675
1982 SO ₄	1993 09 21.39878	00 24 23.21	−01 06 51.5	16.2	9 675
1982 SO ₄	1993 09 21.43872	00 24 20.62	−01 06 53.4		9 675
1982 UR ₆	1993 09 21.39878	00 07 51.42	−04 27 41.3	16.0	9 675

1982 UR ₆	1993 09 21.43872	00 07 49.21	-04 27 49.1	16.5	9 675	1989 SG ₁	1993 09 21.39878	00 25 00.21	-01 01 14.6	18.8	9 675
1982 UR ₆	1993 10 15.18559	23 50 23.65	-05 08 50.6	16.2	9 675	1989 SG ₁	1993 09 21.43872	00 24 58.18	-01 01 33.5		9 675
1982 UR ₆	1993 10 15.22986	23 50 22.22	-05 08 49.0	16.8	9 675	1989 SG ₁	1993 10 13.22622	00 07 47.65	-03 45 50.1	19.0	9 675
1984 HM ₁	1991 05 13.35295	14 33 32.16	-16 57 35.7	16.5	9 675	1989 SG ₁	1993 10 13.26198	00 07 46.17	-03 46 04.9		9 675
1984 HM ₁	1991 05 13.39236	14 33 29.87	-16 57 28.2		9 675	1989 SJ ₁	1993 09 21.39878	00 33 01.37	-04 07 15.1	18.2	9 675
1984 SU ₃	1995 03 27.24653	11 20 48.77	+10 59 31.3	19.8	9 675	1989 SJ ₁	1993 09 21.43872	00 32 59.34	-04 07 27.2		9 675
1984 SN ₆	1991 05 13.35295	14 48 47.34	-14 44 53.9	16.5	9 675	1989 SJ ₁	1993 10 13.22622	00 15 36.04	-05 18 11.1	18.0	9 675
1984 SN ₆	1991 05 13.39236	14 48 45.08	-14 44 49.5		9 675	1989 SJ ₁	1993 10 13.26198	00 15 34.52	-05 18 14.9		9 675
1984 SN ₆	1991 05 15.30486	14 47 00.80	-14 40 28.8	17.0	9 675	1989 SJ ₁	1993 10 15.18559	00 14 18.53	-05 20 34.9	18.2	9 675
1984 SN ₆	1991 05 15.35747	14 46 57.88	-14 40 21.7		9 675	1989 SJ ₁	1993 10 15.22986	00 14 16.58	-05 20 39.4		9 675
1984 UD	1995 03 27.24653	11 20 40.04	+12 46 24.4	18.8	9 675	1989 SS ₁	1993 09 21.39878	00 24 19.05	-04 32 35.4	17.5	9 675
1985 JK	1993 09 18.32934	00 42 44.34	-05 09 37.6	18.2	9 675	1989 SS ₁	1993 09 21.43872	00 24 16.90	-04 32 44.7		9 675
1985 JK	1993 09 18.36684	00 42 42.31	-05 09 51.9		9 675	1989 SS ₁	1993 10 13.22622	00 06 43.73	-05 24 53.4	18.5	9 675
1985 JK	1993 09 21.39878	00 40 01.44	-05 31 08.6	17.8	9 675	1989 SS ₁	1993 10 13.26198	00 06 42.40	-05 24 54.6		9 675
1985 JK	1993 09 21.43872	00 39 59.27	-05 31 25.2		9 675	1989 SS ₁	1993 10 15.18559	00 05 31.63	-05 25 32.4	18.2	9 675
1985 JK	1993 09 22.33854	00 39 10.72	-05 37 40.0	18.2	9 675	1989 SS ₁	1993 10 15.22986	00 05 29.92	-05 25 32.6		9 675
1985 JK	1993 09 22.37778	00 39 08.45	-05 37 54.4		9 675	1989 SJ ₂	1993 10 15.18559	23 44 27.54	-06 56 37.7	18.8	9 675
1985 JK	1993 10 13.22622	00 20 14.19	-07 35 52.0	18.2	9 675	1989 SJ ₂	1993 10 15.22986	23 44 26.14	-06 56 59.8		9 675
1985 JK	1993 10 13.26198	00 20 12.38	-07 36 01.2		9 675	1989 SN ₄	1993 10 13.26198	00 19 24.27	-01 35 11.3		9 675
1985 RV ₄	1991 10 17.37326	02 55 28.94	+16 57 58.6	17.5	6 675	1989 SV ₅	1993 09 22.33854	00 37 01.58	-06 08 12.0	18.5	9 675
1985 UK ₃	1991 05 13.35295	14 27 44.08	-15 27 58.8	16.8	9 675	1989 SV ₅	1993 09 22.37778	00 36 59.46	-06 08 24.8		9 675
1985 UK ₃	1991 05 13.39236	14 27 41.53	-15 27 52.9		9 675	1989 SV ₅	1993 10 13.26198	00 18 18.31	-07 41 39.0	18.8	9 675
1986 QA ₁	1991 10 17.37326	03 04 45.81	+16 15 54.5	18.5	6 675	1989 TS ₂	1988 09 14.32604	00 03 54.62	-06 39 26.2	19.0	9 675
1986 QB ₃	1995 03 27.24653	11 17 11.78	+08 47 06.7	19.0	9 675	1989 TS ₂	1988 09 14.36024	00 03 53.67	-06 39 34.8		9 675
1986 RD	1994 04 05.33420	11 23 55.24	-01 59 59.9	18.5	9 675	1989 UG ₃	1993 10 15.18559	23 53 29.30	-09 42 43.0	17.5	9 675
1986 TX ₃	1993 09 21.43872	00 32 55.00	-03 17 17.0	17.2	9 675	1989 UG ₃	1993 10 15.22986	23 53 27.56	-09 42 48.1		9 675
1986 TX ₃	1993 10 13.22622	00 13 57.85	-05 00 07.0	17.5	9 675	1989 UW ₅	1993 10 13.22622	00 35 52.47	-03 01 49.6	17.5	9 675
1986 TX ₃	1993 10 13.26198	00 13 56.09	-05 00 14.4		9 675	1989 UW ₅	1993 10 13.26198	00 35 50.52	-03 01 54.2		9 675
1986 TX ₃	1993 10 15.18559	00 12 29.04	-05 05 35.7	17.5	9 675	1989 VS ₁	1993 09 21.30747	00 05 20.12	-05 39 18.2		9 675
1986 TX ₃	1993 10 15.22986	00 12 26.94	-05 05 43.0		9 675	1989 VS ₁	1993 09 21.34497	00 05 18.21	-05 39 33.2	17.0	9 675
1987 HK	1991 05 13.39236	14 37 12.23	-17 13 18.9		9 675	1989 VS ₁	1993 10 15.18559	23 47 20.59	-07 43 11.1	18.2	9 675
1987 HK	1991 05 15.35747	14 35 27.64	-17 04 52.0		9 675	1989 VS ₁	1993 10 15.22986	23 47 19.04	-07 43 19.8		9 675
1987 RN ₆	1995 03 27.24653	11 28 38.07	+12 42 48.2	18.2	9 675	1990 DA ₃	1995 03 27.24653	11 20 30.94	+08 34 52.3	18.2	9 675
1988 GD	1993 10 13.22622	00 38 39.16	-04 52 31.7	18.5	9 675	1990 WQ ₄	1993 09 21.39878	00 36 20.58	-02 37 23.0	17.0	9 675
1988 GD	1993 10 13.26198	00 38 37.20	-04 52 41.1		9 675	1990 WQ ₄	1993 09 21.43872	00 36 18.36	-02 37 41.9		9 675
1988 RB ₆	1995 03 27.24653	11 23 25.49	+07 56 40.1	19.8	9 675	1990 WQ ₄	1993 10 13.22622	00 17 47.15	-04 57 20.2	17.2	9 675
1988 RN ₁₀	1995 03 27.24653	11 34 42.82	+10 23 02.0	20.0	9 675	1990 WQ ₄	1993 10 13.26198	00 17 45.50	-04 57 30.1		9 675
1988 RR ₁₀	1995 03 27.24653	11 16 40.33	+07 14 03.7	20.2	9 675	1990 WQ ₄	1993 10 15.18559	00 16 25.68	-05 05 18.7	17.5	9 675
1988 SU ₂	1991 05 13.35295	14 48 19.20	-11 45 24.3	18.0	9 675	1990 WQ ₄	1993 10 15.22986	00 16 23.81	-05 05 28.6		9 675
1988 SU ₂	1991 05 13.39236	14 48 17.00	-11 45 16.2		9 675	1991 EM ₁	1993 10 13.22622	00 26 21.45	-05 08 05.2	17.2	9 675
1988 SU ₂	1991 05 15.30486	14 46 37.01	-11 38 58.5	18.0	9 675	1991 EM ₁	1993 10 13.26198	00 26 20.02	-05 08 21.5		9 675
1988 SU ₂	1991 05 15.35747	14 46 34.24	-11 38 47.5		9 675	1991 EJ ₄	1954 04 02.37535	13 54 28.74	-17 54 51.6		6 675
1988 UA	1991 05 13.35295	15 00 07.11	-17 53 39.3	18.5	9 675	1991 EJ ₄	1954 04 02.39861	13 54 27.82	-17 54 48.6	17.5	6 675
1988 UA	1991 05 15.30486	14 58 12.37	-17 44 50.3	18.5	9 675	1991 JD	1991 05 13.35295	14 32 55.96	-15 48 25.9	16.8	9 675
1988 UA	1991 05 15.35747	14 58 09.29	-17 44 38.7		9 675	1991 JD	1991 05 13.39236	14 32 53.61	-15 48 19.3		9 675
1988 UO	1995 03 27.24653	11 28 37.23	+12 43 54.0	17.8	9 675	1991 JD	1991 05 15.30486	14 31 03.07	-15 43 58.6	16.8	9 675
1989 NY	1993 09 18.36684	00 55 01.23	-09 26 17.6		9 675	1991 JD	1991 05 15.35747	14 30 59.94	-15 43 52.0		9 675
1989 NY	1993 09 22.37778	00 52 37.36	-10 15 04.8		9 675	1991 JF	1991 05 13.35295	14 41 17.22	-18 10 22.7	17.0	9 675
1989 SX	1993 09 21.39878	00 38 03.53	-02 53 00.0	16.5	9 675	1991 JF	1991 05 13.39236	14 41 15.14	-18 10 01.4		9 675
1989 SX	1993 09 21.43872	00 38 01.48	-02 52 57.6		9 675	1991 JF	1991 05 15.30486	14 39 36.53	-17 54 35.4	16.8	9 675
1989 SX	1993 10 13.22622	00 19 26.67	-02 10 18.0	16.2	9 675	1991 JF	1991 05 15.35747	14 39 33.72	-17 54 09.8		9 675
1989 SX	1993 10 13.26198	00 19 24.88	-02 10 11.3		9 675	1991 JL	1988 08 15.23854	21 12 25.72	-07 48 51.1	17.2	9 675

1991 JL	1988 08 15.26997	21 12 23.93	-07 49 05.0		9 675	1992 XD	1994 03 12.43976	11 58 23.69	-06 45 48.5		9 675
1991 JZ	1991 05 15.30486	15 01 31.09	-16 49 25.8	17.5	9 675	1992 XD	1994 04 05.29149	11 38 56.73	-04 38 33.4	19.0	9 675
1991 JZ	1991 05 15.35747	15 01 28.35	-16 48 45.3		9 675	1992 XD	1994 04 05.33420	11 38 54.89	-04 38 20.0		9 675
1991 RJ	1994 04 05.29149	11 18 36.64	-03 40 05.9	18.2	9 675	1993 DB ₁	1991 10 17.37326	02 56 56.57	+16 31 15.5	18.5	6 675
1991 RO ₁	1994 04 05.29149	11 28 35.00	-01 04 43.8	19.0	9 675	1993 FZ ₂₀	1991 10 17.37326	03 13 18.11	+15 49 24.3	19.5	6 675
1991 RJ ₁₁	1995 03 27.24653	11 19 27.95	+07 47 25.9	19.2	9 675	1993 HK	1991 10 17.37326	03 14 34.66	+12 21 55.2	18.5	6 675
1991 UQ ₁	1991 10 17.37326	03 08 00.47	+16 43 53.3	16.5	6 675	1993 KL	1991 10 17.37326	03 10 50.12	+14 39 20.7	18.5	6 675
1991 UR ₁	1991 10 17.37326	03 10 48.71	+17 28 24.0	17.5	6 675	1993 OX ₂	1993 09 21.39878	00 14 53.91	-04 58 00.4	18.8	9 675
1991 UQ ₂	1991 10 17.37326	03 08 57.71	+16 33 46.0	17.2	6 675	1993 OX ₂	1993 09 21.43872	00 14 52.14	-04 58 20.0		9 675
1991 UR ₂	1991 10 17.37326	03 07 47.85	+16 42 09.8	16.5	6 675	1993 QT	1954 04 03.25799	11 21 02.44	-10 36 22.1		6 675
1991 UC ₃	1991 10 17.37326	02 55 17.77	+14 17 09.1	17.2	6 675	1993 QT	1954 04 03.28125	11 21 00.50	-10 36 23.3	17.5	6 675
1991 UD ₃	1991 10 17.37326	02 54 19.77	+15 16 04.6	17.2	6 675	1993 QX ₄	1993 09 12.30122	22 45 40.54	-09 11 19.6	15.5	2 675
1991 UF ₃	1991 10 17.37326	03 07 55.02	+16 16 11.8	16.8	6 675	1993 QX ₄	1993 09 12.32361	22 45 39.58	-09 11 30.9		2 675
1991 UG ₅	* 1991 10 17.37326	03 02 04.11	+16 35 24.5	18.8	6 675	1993 RD ₂	1993 09 21.39878	00 18 23.77	-01 26 46.7	16.5	9 675
1991 UH ₅	* 1991 10 17.37326	03 02 56.21	+16 03 34.7	18.5	6 675	1993 RD ₂	1993 09 21.43872	00 18 22.02	-01 27 19.0		9 675
1991 VG ₁	1991 10 17.37326	02 58 29.74	+17 52 44.3	16.8	6 675	1993 RD ₂	1993 10 15.18559	00 03 06.98	-06 13 38.0	17.0	9 675
1991 VO ₃	1991 10 17.37326	02 49 44.71	+12 59 20.8	17.5	6 675	1993 RD ₂	1993 10 15.22986	00 03 05.54	-06 14 03.7		9 675
1991 VP ₃	1991 10 17.37326	02 53 23.55	+13 15 36.3	17.8	6 675	1993 RR ₂	1993 09 22.37778	00 52 18.25	-11 07 05.8		9 675
1991 VC ₅	1991 10 17.37326	03 00 55.68	+13 11 03.1	17.0	6 675	1993 SD ₁	1993 09 21.39878	00 31 17.32	-02 08 56.3	16.8	9 675
1991 VP ₇	1991 10 17.37326	02 54 54.87	+14 38 18.6	18.5	6 675	1993 SD ₁	1993 09 21.43872	00 31 15.19	-02 09 03.2		9 675
1991 VN ₈	1991 10 17.37326	03 02 32.04	+14 28 15.0	19.2	6 675	1993 SD ₁	1993 10 13.22622	00 12 18.40	-02 53 28.9	17.0	9 675
1991 VW ₈	1991 10 17.37326	03 05 16.13	+14 16 03.2	18.2	6 675	1993 SD ₁	1993 10 13.26198	00 12 16.67	-02 53 31.2		9 675
1991 VZ ₈	1991 10 17.37326	03 08 24.63	+13 04 09.3	18.5	6 675	1993 SD ₁	1993 10 15.18559	00 10 52.67	-02 54 17.4	17.8	9 675
1991 VA ₉	1991 10 17.37326	03 11 00.01	+13 07 37.3	19.5	6 675	1993 SD ₁	1993 10 15.22986	00 10 50.68	-02 54 17.7		9 675
1991 VB ₉	1991 10 17.37326	03 06 54.91	+13 51 06.7	18.2	6 675	1993 SG ₁	1993 09 21.39878	00 19 12.30	-01 32 09.0	15.8	9 675
1991 VL ₁₀	1991 10 17.37326	03 04 33.18	+14 35 11.4	18.2	6 675	1993 SG ₁	1993 09 21.43872	00 19 11.16	-01 32 52.7		9 675
1992 DA ₉	1993 09 21.39878	00 16 41.32	-00 53 23.1	16.5	9 675	1993 SG ₁	1993 10 13.22622	00 10 46.32	-07 27 19.8	16.0	9 675
1992 DA ₉	1993 09 21.43872	00 16 38.47	-00 53 25.1		9 675	1993 SG ₁	1993 10 13.26198	00 10 45.71	-07 27 47.8		9 675
1992 ES ₁	1993 09 18.32934	00 46 30.16	-03 59 36.7	17.8	9 675	1993 SG ₁	1993 10 15.18559	00 10 18.53	-07 52 03.2	16.5	9 675
1992 ES ₁	1993 09 18.36684	00 46 27.85	-03 59 43.9		9 675	1993 SG ₁	1993 10 15.22986	00 10 17.83	-07 52 36.2		9 675
1992 ES ₁	1993 09 22.33854	00 42 27.68	-04 13 12.4	17.5	9 675	1993 SH ₁	1993 10 13.22622	00 30 02.84	-01 14 27.8	16.8	9 675
1992 ES ₁	1993 09 22.37778	00 42 25.15	-04 13 19.8		9 675	1993 SH ₁	1993 10 13.26198	00 30 01.26	-01 14 46.9		9 675
1992 ES ₁	1993 10 13.22622	00 21 06.35	-05 02 48.8	17.8	9 675	1993 SK ₁	1993 09 21.39878	00 22 23.18	-01 54 33.1	17.0	9 675
1992 ES ₁	1993 10 13.26198	00 21 04.27	-05 02 53.7		9 675	1993 SK ₁	1993 09 21.43872	00 22 20.81	-01 54 45.1		9 675
1992 EJ ₄	1993 09 21.39878	00 18 08.28	-02 34 05.4	17.8	9 675	1993 SK ₁	1993 10 15.18559	00 01 07.39	-03 35 16.1	17.0	9 675
1992 EJ ₄	1993 09 21.43872	00 18 05.90	-02 34 23.7		9 675	1993 SK ₁	1993 10 15.22986	00 01 05.37	-03 35 22.8		9 675
1992 OZ ₉	1991 05 13.35295	14 59 20.97	-16 49 03.2	17.2	9 675	1993 SN ₁	1993 10 13.22622	00 34 37.27	-03 37 56.0	17.5	9 675
1992 OZ ₉	1991 05 15.30486	14 58 00.01	-16 44 47.6	17.5	9 675	1993 SN ₁	1993 10 13.26198	00 34 35.80	-03 38 12.9		9 675
1992 OZ ₉	1991 05 15.35747	14 57 57.82	-16 44 41.4		9 675	1993 SQ ₁	1993 10 13.22622	00 34 59.09	-01 47 42.0	17.5	9 675
1992 QL ₂	1991 05 15.30486	14 45 06.26	-19 42 02.6	16.8	9 675	1993 SQ ₁	1993 10 13.26198	00 34 57.14	-01 47 40.5		9 675
1992 QL ₂	1991 05 15.35747	14 45 03.73	-19 41 42.7		9 675	1993 ST ₃	1993 09 18.36684	00 37 32.43	-07 04 39.5		9 675
1992 RH ₇	1991 05 13.35295	14 28 34.74	-16 12 50.9	18.5	9 675	1993 ST ₃	1993 09 21.39878	00 34 59.52	-07 09 48.7	16.0	9 675
1992 RH ₇	1991 05 13.39236	14 28 32.30	-16 12 44.7		9 675	1993 ST ₃	1993 09 21.43872	00 34 57.37	-07 09 52.5		9 675
1992 UH ₂	1994 04 05.29149	11 22 21.13	-02 18 08.0	19.0	9 675	1993 ST ₃	1993 09 22.37778	00 34 08.83	-07 11 17.6		9 675
1992 UH ₂	1994 04 05.33420	11 22 19.28	-02 17 49.0		9 675	1993 ST ₃	1993 10 13.22622	00 16 04.10	-07 10 03.2	16.5	9 675
1992 UY ₂	1988 08 15.23854	21 14 46.67	-07 33 25.2	18.5	9 675	1993 ST ₃	1993 10 13.26198	00 16 02.33	-07 09 59.4		9 675
1992 UY ₂	1988 08 15.26997	21 14 44.94	-07 33 36.2		9 675	1993 ST ₃	1993 10 15.18559	00 14 36.60	-07 05 55.9	16.8	9 675
1992 WC ₁	1994 04 05.29149	11 21 33.99	-03 48 46.6	18.0	9 675	1993 ST ₃	1993 10 15.22986	00 14 34.56	-07 05 49.9		9 675
1992 WC ₁	1994 04 05.33420	11 21 31.91	-03 48 29.9		9 675	1993 SV ₃	1993 09 18.36684	01 01 12.16	-05 43 01.9		9 675
1992 WJ ₂	1991 05 15.30486	15 01 55.12	-16 57 45.2	16.8	9 675	1993 SV ₃	1993 09 22.37778	00 54 53.48	-04 59 31.4		9 675
1992 WJ ₂	1991 05 15.35747	15 01 51.48	-16 57 42.0		9 675	1993 SV ₃	1993 10 13.22622	00 21 58.24	-00 56 57.8	17.5	9 675
1992 XD	1994 03 12.39531	11 58 26.01	-06 46 00.0	18.5	9 675	1993 SV ₃	1993 10 13.26198	00 21 55.13	-00 56 30.6		9 675

1993 TB	1993 09 21.39878	00 24 28.42	-02 07 20.0	17.5	9 675	1995 DN ₇	1995 03 27.24409	11 18 48.29	+06 35 56.4	19.5	9 675
1993 TB	1993 09 21.43872	00 24 26.59	-02 07 31.7		9 675	1995 DW ₈	1995 03 27.24653	11 11 45.69	+07 25 51.7	19.2	9 675
1993 TB	1993 10 13.22622	00 09 03.17	-03 43 53.5	18.2	9 675	1995 DY ₈	1995 03 27.24653	11 15 06.38	+06 49 20.7	20.2	9 675
1993 TB	1993 10 13.26198	00 09 01.74	-03 44 00.7		9 675	1995 EK	1995 03 27.24653	11 11 12.44	+10 17 51.9	18.5	9 675
1993 TB	1993 10 15.18559	00 07 51.98	-03 50 07.1	18.2	9 675	1995 EU	1995 03 27.24653	11 27 17.98	+08 58 02.2	18.5	9 675
1993 TB	1993 10 15.22986	00 07 50.30	-03 50 15.4		9 675	1995 EP ₈	1995 03 27.24653	11 10 37.39	+11 31 32.7	18.8	9 675
1993 TD	1995 03 27.24653	11 21 29.43	+07 20 34.7	19.8	9 675	1995 FR ₁	1995 03 27.24653	11 16 03.42	+09 24 14.3	19.5	9 675
1993 UB ₁	1995 03 27.24653	11 33 52.49	+12 21 09.4	17.5	9 675	1995 FY ₂	1995 03 27.24653	11 15 08.15	+09 10 07.8	19.2	9 675
1993 UJ ₁	1993 11 16.25763	03 02 35.83	-01 35 58.5	17.0	3 675	1995 FK ₄	1995 03 27.24653	11 10 30.51	+08 50 27.4	18.2	9 675
1993 UJ ₁	1993 11 16.28888	03 02 34.00	-01 36 40.9	17.0	3 675	1995 FQ ₄	1995 03 27.24653	11 12 28.89	+08 53 45.3	18.8	9 675
1993 UJ ₁	1993 11 19.32708	02 59 44.19	-02 41 31.9	17.0	3 675	1995 FT ₄	1995 03 27.24653	11 13 31.26	+09 01 30.4	20.0	9 675
1993 UJ ₁	1993 11 19.36406	02 59 41.87	-02 42 18.7	17.0	3 675	1995 FU ₄	1995 03 27.24653	11 14 44.87	+09 01 04.2	19.5	9 675
1993 UJ ₁	1993 11 20.38888	02 58 46.60	-03 03 03.7	17.0	3 675	1995 FW ₄	1995 03 27.24653	11 14 58.21	+08 55 05.4	20.8	9 675
1993 UJ ₁	1993 11 20.41927	02 58 45.22	-03 03 34.0	17.5	3 675	1995 FD ₅	1995 03 27.24653	11 16 12.22	+08 39 01.2	20.8	9 675
1993 UJ ₁	1993 12 08.19427	02 47 26.20	-07 19 34.4	17.0	3 675	1995 FF ₆	1995 03 27.24653	11 11 48.38	+08 47 37.5	20.2	9 675
1993 UJ ₁	1993 12 08.23454	02 47 24.90	-07 19 57.1	18.0	3 675	1995 FG ₆	1995 03 27.24653	11 11 20.59	+07 57 34.2	20.2	9 675
1993 UJ ₁	1993 12 09.22638	02 47 06.17	-07 28 24.9	17.0	3 675	1995 FQ ₆	1995 03 27.24653	11 19 37.19	+08 35 51.8	19.8	9 675
1993 XB	1954 07 28.38333	22 10 04.92	-01 03 53.3	18.0	6 675	1995 FX ₆	1995 03 27.24653	11 21 38.31	+08 23 05.3	19.2	9 675
1993 XB	1954 07 28.40833	22 10 04.16	-01 03 56.7		6 675	1995 FW ₁₉	1995 03 27.24653	11 10 37.30	+08 04 10.7	18.5	9 675
1993 XF	1995 03 27.24653	11 15 09.72	+09 17 25.7	18.2	9 675	1995 GZ ₆	1995 03 27.24653	11 27 13.52	+12 22 11.5	19.2	9 675
1994 AT ₁	1991 05 13.35295	14 53 32.05	-13 20 58.7	17.8	9 675	1995 GB ₇	1995 03 27.24653	11 27 02.51	+12 35 57.5	19.2	9 675
1994 AT ₁	1991 05 13.39236	14 53 29.59	-13 20 57.7		9 675	1995 GL ₇	1995 03 27.24653	11 24 46.15	+12 54 59.1	20.0	9 675
1994 AT ₁	1991 05 15.30486	14 51 40.34	-13 19 28.9	17.2	9 675	1995 GP ₇	1995 03 27.24653	11 23 59.24	+12 50 41.4	19.8	9 675
1994 AT ₁	1991 05 15.35747	14 51 37.26	-13 19 27.4		9 675	1995 GR ₇	1995 03 27.24653	11 27 07.17	+12 52 20.3	20.2	9 675
1994 CS ₈	1995 03 27.24653	11 10 22.84	+12 08 32.4	18.5	9 675	1995 GS ₇	1995 03 27.24653	11 24 44.49	+12 52 58.4	20.0	9 675
1994 DS	1991 05 13.35295	15 00 54.56	-16 42 16.1	18.2	9 675	1995 XS ₁	1991 10 17.37326	02 58 03.75	+17 52 04.7	17.0	6 675
1994 DS	1991 05 15.30486	14 58 49.75	-16 37 28.6	18.3	9 675	1995 YM ₂	1991 10 17.37326	03 02 00.89	+12 53 30.6	18.5	6 675
1994 DS	1991 05 15.35747	14 58 46.31	-16 37 20.3		9 675	1996 HR	1993 10 15.18559	00 09 45.89	-08 55 25.8	18.5	9 675
1994 FB	1991 05 13.35295	14 45 53.30	-13 41 55.1	18.5	9 675	1996 HR	1993 10 15.22986	00 09 43.88	-08 55 31.1		9 675
1994 FB	1991 05 15.30486	14 44 01.03	-13 31 49.1	18.2	9 675	1996 JW ₂	1993 10 13.22622	00 28 20.11	-03 12 01.5	18.5	9 675
1994 FB	1991 05 15.35747	14 43 57.77	-13 31 32.7		9 675	1996 JW ₂	1993 10 13.26198	00 28 18.44	-03 12 15.6		9 675
1994 RC ₁	1988 08 15.26997	20 48 25.60	-05 13 46.8	17.5	9 675	1996 TR ₁₀	1995 03 27.24653	11 25 23.34	+08 20 51.5	17.2	9 675
1994 XS	1993 09 18.32934	00 39 37.02	-07 03 13.1	18.0	9 675	1996 VA ₇	1994 03 12.39601	12 07 35.05	-04 37 13.0		9 675
1994 XS	1993 09 18.36684	00 39 35.41	-07 03 28.5		9 675	1996 VA ₇	1994 03 12.43976	12 07 32.97	-04 36 54.0		9 675
1994 XS	1993 09 22.33854	00 36 50.32	-07 30 49.0	18.2	9 675	1996 VA ₇	1994 04 04.27378	11 49 30.71	-01 54 58.1		9 675
1994 XS	1993 09 22.37778	00 36 48.54	-07 31 06.6		9 675	1996 VA ₇	1994 04 04.31667	11 49 28.77	-01 54 39.9	18.2	9 675
1995 AL	1993 09 18.32934	00 35 55.83	-09 11 30.1	18.2	9 675	1996 XG ₁	1991 05 13.35295	14 56 21.36	-15 46 25.5	18.2	9 675
1995 AL	1993 09 18.36684	00 35 54.00	-09 11 46.6		9 675	1996 XG ₁	1991 05 13.39236	14 56 19.10	-15 46 13.0		9 675
1995 AN	1954 04 03.25799	11 23 51.21	-10 38 08.1		6 675	1996 XG ₁	1991 05 15.30486	14 54 27.85	-15 36 41.6	18.0	9 675
1995 AN	1954 04 03.28125	11 23 49.35	-10 38 11.8	16.8	6 675	1996 XG ₁	1991 05 15.35747	14 54 24.69	-15 36 25.9		9 675
1995 DO ₁	1995 03 27.24653	11 13 44.04	+11 10 55.3	17.5	9 675	1997 BN ₁	1994 04 05.29149	11 17 43.20	-03 31 08.9	18.2	9 675
1995 DP ₁	1995 03 27.24653	11 12 15.67	+08 07 26.8	17.8	9 675	1997 BN ₁	1994 04 05.33420	11 17 41.06	-03 30 59.1		9 675
1995 DQ ₁	1995 03 27.24653	11 21 11.43	+12 44 31.4	18.5	9 675	2054 P-L	* 1960 09 26.37010	00 58 17.08	+10 56 22.4	19.0	4 675
1995 DK ₂	1993 09 18.32934	00 35 46.44	-07 16 14.7	18.8	9 675	2054 P-L	1960 09 28.45140	00 56 25.47	+10 42 44.9		4 675
1995 DK ₂	1993 09 18.36684	00 35 44.96	-07 16 26.7		9 675	2054 P-L	1960 09 29.44510	00 55 31.51	+10 36 03.6		4 675
1995 DK ₂	1993 09 21.39878	00 33 34.79	-07 30 55.6	18.8	9 675	2054 P-L	1960 10 17.30420	00 39 16.18	+08 25 26.3		4 675
1995 DK ₂	1993 09 22.33854	00 32 53.98	-07 35 19.2	18.5	9 675	2054 P-L	1960 10 22.27920	00 35 10.59	+07 48 57.3		4 675
1995 DK ₂	1993 09 22.37778	00 32 52.10	-07 35 31.6		9 675	2054 P-L	1960 10 25.37570	00 32 49.82	+07 27 04.2		4 675
1995 DO ₂	1995 03 27.24653	11 27 47.20	+08 58 34.4	17.5	9 675	2054 P-L	1960 10 26.36840	00 32 06.97	+07 20 14.5		4 675
1995 DP ₂	1995 03 27.24653	11 25 43.99	+07 28 10.6	18.8	9 675	2054 P-L	1994 03 12.39531	11 50 07.46	-06 53 36.2	17.5	9 675
1995 DQ ₂	1995 03 27.24653	11 26 07.47	+12 11 59.4	19.2	9 675	2054 P-L	1994 03 12.43976	11 50 05.14	-06 53 18.1		9 675
1995 DX ₅	1995 03 27.24653	11 15 11.91	+06 32 59.2	18.0	9 675	2054 P-L	1994 04 05.29149	11 31 24.15	-03 41 05.1	17.5	9 675

2054 P-L	1994 04 05.33420	11 31 22.47	-03 40 44.5		9 675	3089 T-1	1971 05 14.21962	11 58 01.74	-02 21 23.5		4 675
2076 P-L	* 1960 09 26.37010	00 55 28.47	+12 27 12.1	17.1	4 675	4195 T-1	1995 03 27.24653	11 10 29.40	+10 21 32.4	19.0	9 675
2076 P-L	1960 09 28.45140	00 54 12.62	+12 06 47.9		4 675	4260 T-1	1993 09 21.39878	00 17 18.53	-02 50 57.5	18.0	9 675
2076 P-L	1960 09 29.44510	00 53 35.47	+11 56 43.7		4 675	4260 T-1	1993 09 21.43872	00 17 16.66	-02 51 10.4		9 675
2076 P-L	1960 10 22.27920	00 39 38.99	+07 36 15.5		4 675	4260 T-1	1993 10 15.18559	23 59 49.79	-04 42 32.2	18.5	9 675
2076 P-L	1960 10 25.37570	00 38 21.62	+07 02 47.0		4 675	4260 T-1	1993 10 15.22986	23 59 48.14	-04 42 41.7		9 675
2076 P-L	1960 10 26.36840	00 38 00.31	+06 52 25.2		4 675	1220 T-2	1973 09 19.18611	00 20 50.44	+02 41 32.1		4 675
2158 P-L	* 1960 09 24.45000	01 02 30.40	+09 35 54.2	18.6	4 675	1220 T-2	1973 09 19.23785	00 20 48.25	+02 41 17.4		4 675
2158 P-L	1960 09 26.37010	01 01 02.82	+09 21 38.5		4 675	1220 T-2	1973 09 20.22847	00 20 06.24	+02 36 46.8		4 675
2158 P-L	1960 09 28.45140	00 59 24.31	+09 05 37.0		4 675	1220 T-2	1973 09 24.34688	00 17 07.47	+02 17 29.7		4 675
2158 P-L	1960 09 29.44510	00 58 36.47	+08 57 46.3		4 675	1220 T-2	1973 09 24.41597	00 17 04.33	+02 17 09.6		4 675
2158 P-L	1960 10 25.37570	00 37 52.72	+05 19 58.1		4 675	1220 T-2	1973 09 25.24375	00 16 28.10	+02 13 11.8		4 675
2158 P-L	1960 10 26.36840	00 37 14.25	+05 12 20.5		4 675	1220 T-2	1973 09 25.30729	00 16 25.18	+02 12 56.4		4 675
2821 P-L	1993 10 15.18559	23 47 23.51	-05 04 51.0	18.2	9 675	1220 T-2	* 1973 09 29.25330	00 13 31.20	+01 53 59.0	18.4	4 675
2821 P-L	1993 10 15.22986	23 47 21.97	-05 05 00.4		9 675	1220 T-2	1973 09 29.31806	00 13 28.16	+01 53 40.4		4 675
3066 P-L	1994 04 05.29149	11 30 05.97	-06 47 04.2	18.2	9 675	1220 T-2	1973 09 30.21007	00 12 49.06	+01 49 23.4		4 675
3066 P-L	1994 04 05.33420	11 30 04.28	-06 46 39.9		9 675	1220 T-2	1973 09 30.27431	00 12 46.10	+01 49 06.8		4 675
4073 P-L	* 1960 09 24.37573	00 24 34.08	+08 05 34.3	18.9	4 675	1220 T-2	1973 10 04.28958	00 09 51.26	+01 29 58.7		4 675
4073 P-L	1960 09 25.42780	00 23 31.81	+07 58 42.0		4 675	1220 T-2	1973 10 04.35208	00 09 48.40	+01 29 41.3		4 675
4073 P-L	1960 09 26.30558	00 22 40.06	+07 52 51.6		4 675	1220 T-2	1973 10 05.31684	00 09 07.43	+01 25 09.0		4 675
4073 P-L	1960 09 28.36808	00 20 37.39	+07 38 52.9		4 675	1220 T-2	1973 10 05.37917	00 09 04.65	+01 24 51.6		4 675
4073 P-L	1960 10 17.27085	00 03 40.83	+05 26 22.3		4 675	2080 T-2	1994 03 12.39601	11 56 02.68	-05 13 39.8		9 675
4073 P-L	1960 10 22.22293	00 00 23.85	+04 55 23.6		4 675	2080 T-2	1994 03 12.43976	11 56 00.35	-05 13 21.5		9 675
4073 P-L	1960 10 26.32573	23 58 12.01	+04 32 22.8		4 675	2080 T-2	1994 04 05.29149	11 36 55.93	-02 08 45.0	17.2	9 675
4896 P-L	1993 10 13.22622	00 22 27.39	-01 59 47.1	18.5	9 675	2080 T-2	1994 04 05.33420	11 36 54.20	-02 08 26.0		9 675
4896 P-L	1993 10 13.26198	00 22 25.85	-01 59 54.8		9 675	2084 T-2	1994 03 12.39601	12 15 15.58	-09 40 52.3		9 675
6079 P-L	* 1960 09 24.33613	00 11 04.44	+02 45 48.5	18.0	4 675	2108 T-2	1991 10 17.37326	03 14 52.49	+16 19 11.3	19.0	6 675
6079 P-L	1960 09 25.32502	00 10 07.84	+02 45 45.9		4 675	3042 T-2	1993 10 13.26198	00 26 48.97	-02 55 48.5	19.0	9 675
6079 P-L	1960 09 26.27573	00 09 13.31	+02 45 43.6		4 675	3181 T-2	1991 05 15.35747	14 51 42.81	-12 30 33.4		9 675
6079 P-L	1960 09 28.32780	00 07 15.47	+02 45 35.3		4 675	3353 T-2	1973 09 19.21250	00 06 48.67	-03 36 33.8		4 675
6079 P-L	1960 10 17.21390	23 50 24.07	+02 46 38.5		4 675	3353 T-2	1973 09 19.26354	00 06 46.15	-03 36 42.4		4 675
6079 P-L	1960 10 22.15559	23 46 44.45	+02 49 07.1		4 675	3353 T-2	1973 09 20.27795	00 05 57.30	-03 39 50.2		4 675
6079 P-L	1960 10 24.18787	23 45 21.88	+02 50 34.1		4 675	3353 T-2	1973 09 24.37431	00 02 39.37	-03 52 02.2		4 675
6079 P-L	1960 10 26.26113	23 44 02.72	+02 52 22.1		4 675	3353 T-2	1973 09 24.44167	00 02 35.96	-03 52 13.4		4 675
6849 P-L	* 1960 09 24.32431	00 11 50.18	-02 31 23.0	20.0	4 675	3353 T-2	* 1973 09 25.26875	00 01 56.54	-03 54 36.2	17.9	4 675
6849 P-L	1960 09 24.35002	00 11 48.89	-02 31 26.4		4 675	3353 T-2	1973 09 25.33299	00 01 53.40	-03 54 48.1		4 675
6849 P-L	1960 09 26.26528	00 10 06.03	-02 36 15.7		4 675	3353 T-2	1973 09 29.27986	23 58 46.26	-04 05 21.4		4 675
6849 P-L	1960 09 26.28543	00 10 04.88	-02 36 19.8		4 675	3353 T-2	1973 10 04.31493	23 54 58.30	-04 16 58.7		4 675
6849 P-L	1960 09 27.30972	00 09 09.87	-02 38 48.4		4 675	3353 T-2	1973 10 04.37674	23 54 55.43	-04 17 07.3		4 675
6849 P-L	1960 09 27.34237	00 09 08.23	-02 38 54.1		4 675	3353 T-2	1973 10 05.34167	23 54 13.54	-04 19 04.4		4 675
6849 P-L	1960 09 28.31736	00 08 16.23	-02 41 12.7		4 675	3353 T-2	1973 10 05.40347	23 54 10.93	-04 19 09.5		4 675
6849 P-L	1960 09 28.33822	00 08 15.28	-02 41 16.0		4 675	4196 T-2	1995 03 27.24653	11 09 56.25	+10 26 57.9	18.5	9 675
9525 P-L	1991 10 17.37326	03 11 41.97	+15 24 57.3	18.2	6 675	1078 T-3	1954 04 03.25799	11 10 57.10	-15 30 09.2		6 675
3089 T-1	1971 03 24.42015	12 26 41.24	-06 26 54.4		4 675	1078 T-3	1954 04 03.28125	11 10 56.21	-15 29 55.5	18.8	6 675
3089 T-1	1971 03 25.33090	12 25 50.12	-06 21 06.1		4 675	1164 T-3	1977 10 07.24652	01 09 27.36	+19 53 50.1		4 675
3089 T-1	1971 03 26.29653	12 24 55.49	-06 14 51.3		4 675	1164 T-3	1977 10 11.26632	01 06 22.05	+19 26 52.5		4 675
3089 T-1	* 1971 03 26.33611	12 24 53.11	-06 14 35.0	18.6	4 675	1164 T-3	1977 10 11.33351	01 06 18.93	+19 26 25.0		4 675
3089 T-1	1971 03 27.33854	12 23 56.32	-06 08 03.0		4 675	1164 T-3	1977 10 12.26510	01 05 36.04	+19 19 52.2		4 675
3089 T-1	1971 04 02.40000	12 18 17.87	-05 28 01.2		4 675	1164 T-3	1977 10 12.33125	01 05 32.88	+19 19 24.7		4 675
3089 T-1	1971 04 16.18087	12 07 03.15	-04 01 01.3		4 675	1164 T-3	1977 10 16.25156	01 02 33.93	+18 50 49.7		4 675
3089 T-1	1971 04 16.26458	12 06 59.56	-04 00 32.0		4 675	1164 T-3	1977 10 16.31684	01 02 30.88	+18 50 20.7		4 675
3089 T-1	1971 05 13.18941	11 57 58.68	-02 22 36.2		4 675	1164 T-3	* 1977 10 17.25365	01 01 49.00	+18 43 20.0	18.6	4 675

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1164 T-3	1977 10 17.32083	01 01 45.82	+18 42 50.2	4 675	(301)	1993 10 13.22622	00 09 11.97	-04 45 35.8	9 675
1164 T-3	1977 10 22.42812	00 58 03.72	+18 03 21.3	4 675	(301)	1993 10 13.26198	00 09 10.50	-04 45 46.0	9 675
1164 T-3	1977 10 22.48003	00 58 01.44	+18 02 56.8	4 675	(301)	1993 10 15.18559	00 07 53.81	-04 54 38.3	9 675
2241 T-3	1977 10 07.25868	01 12 20.00	+11 20 20.6	4 675	(301)	1993 10 15.22986	00 07 52.00	-04 54 50.6	9 675
2241 T-3	1977 10 11.27743	01 08 45.27	+11 00 38.5	4 675	(307)	1993 09 18.32934	00 51 24.77	-04 57 31.5	9 675
2241 T-3	1977 10 11.34375	01 08 41.56	+11 00 18.7	4 675	(307)	1993 09 18.36684	00 51 23.20	-04 57 44.9	9 675
2241 T-3	1977 10 12.27587	01 07 51.58	+10 55 33.9	4 675	(307)	1993 09 22.33854	00 48 36.04	-05 21 02.5	9 675
2241 T-3	1977 10 12.34271	01 07 47.74	+10 55 13.3	4 675	(307)	1993 09 22.37778	00 48 34.27	-05 21 17.4	9 675
2241 T-3	* 1977 10 16.26233	01 04 18.39	+10 34 43.5	4 675	(307)	1993 10 13.22622	00 32 24.66	-07 05 09.4	9 675
2241 T-3	1977 10 16.32795	01 04 14.69	+10 34 24.1	4 675	(307)	1993 10 13.26198	00 32 23.00	-07 05 17.7	9 675
2241 T-3	1977 10 17.26458	01 03 25.40	+10 29 28.9	4 675	(316)	1993 09 21.39878	00 16 04.66	-01 28 54.9	9 675
2241 T-3	1977 10 17.33177	01 03 21.81	+10 29 07.4	4 675	(316)	1993 09 21.43872	00 16 02.85	-01 29 08.0	9 675
2241 T-3	1977 10 21.40868	00 59 51.84	+10 07 27.9	4 675	(316)	1993 10 15.18559	23 59 23.48	-03 21 54.4	9 675
2241 T-3	1977 10 21.46910	00 59 48.74	+10 07 08.9	4 675	(316)	1993 10 15.22986	23 59 21.77	-03 22 04.2	9 675
2241 T-3	1977 10 22.41528	00 59 01.62	+10 02 11.1	4 675	(395)	1994 03 12.39601	12 09 50.31	-06 37 36.8	9 675
2241 T-3	1977 10 22.46962	00 58 58.90	+10 01 51.5	4 675	(395)	1994 03 12.43976	12 09 48.18	-06 37 24.9	9 675
4118 T-3	1993 10 15.18559	23 44 41.91	-03 40 03.7	9 675	(395)	1994 04 05.29149	11 50 48.25	-04 28 27.6	9 675
4118 T-3	1993 10 15.22986	23 44 40.52	-03 40 21.3	9 675	(395)	1994 04 05.33420	11 50 46.26	-04 28 12.9	9 675
4310 T-3	1991 10 17.37326	03 04 01.85	+12 52 34.6	6 675	(397)	1991 05 13.35295	14 54 30.23	-16 46 52.1	9 675
5022 T-3	1977 10 11.31111	01 28 04.37	-03 49 31.3	4 675	(397)	1991 05 13.39236	14 54 28.11	-16 46 35.2	9 675
5022 T-3	1977 10 11.37865	01 28 01.45	-03 49 55.3	4 675	(397)	1991 05 15.30486	14 52 48.55	-16 32 43.7	9 675
5022 T-3	1977 10 12.30885	01 27 21.26	-03 55 29.4	4 675	(397)	1991 05 15.35747	14 52 45.77	-16 32 20.5	9 675
5022 T-3	1977 10 12.37500	01 27 18.33	-03 55 51.1	4 675	(450)	1993 09 21.39878	00 26 24.09	-00 45 35.4	9 675
5022 T-3	* 1977 10 16.29444	01 24 28.16	-04 18 15.1	4 675	(450)	1993 09 21.43872	00 26 21.97	-00 45 38.8	9 675
5022 T-3	1977 10 16.36024	01 24 25.23	-04 18 38.9	4 675	(462)	1991 05 13.35295	14 49 05.11	-11 57 54.5	9 675
5022 T-3	1977 10 17.29688	01 23 44.69	-04 23 43.2	4 675	(462)	1991 05 13.39236	14 49 03.04	-11 57 47.3	9 675
5022 T-3	1977 10 17.36372	01 23 41.72	-04 24 05.6	4 675	(462)	1991 05 15.30486	14 47 29.44	-11 52 05.4	9 675
5022 T-3	1977 10 21.37622	01 20 49.53	-04 44 33.4	4 675	(462)	1991 05 15.35747	14 47 26.81	-11 51 56.4	9 675
5022 T-3	1977 10 21.43611	01 20 46.86	-04 44 52.4	4 675	(518)	1991 05 13.35295	14 45 15.09	-11 29 52.5	9 675
5022 T-3	1977 10 22.37274	01 20 07.36	-04 49 20.4	4 675	(518)	1991 05 13.39236	14 45 12.88	-11 29 35.4	9 675
5022 T-3	1977 10 22.43872	01 20 04.60	-04 49 38.8	4 675	(518)	1991 05 15.30486	14 43 30.57	-11 16 29.0	9 675
(9)	1993 09 21.39878	00 20 51.56	-07 52 29.3	9 675	(518)	1991 05 15.35747	14 43 27.68	-11 16 07.8	9 675
(9)	1993 09 21.43872	00 20 49.22	-07 52 41.8	9 675	(547)	1994 03 12.39601	11 51 13.00	-06 23 20.1	9 675
(9)	1993 10 15.18559	23 59 19.24	-09 17 53.5	9 675	(547)	1994 03 12.43976	11 51 10.99	-06 22 58.1	9 675
(9)	1993 10 15.22986	23 59 17.13	-09 17 56.9	9 675	(547)	1994 04 05.29149	11 34 15.07	-02 55 19.5	9 675
(17)	1993 10 13.22622	00 40 49.43	-04 40 55.8	9 675	(547)	1994 04 05.33420	11 34 13.47	-02 54 57.2	9 675
(17)	1993 10 13.26198	00 40 47.53	-04 41 06.8	9 675	(631)	1991 05 13.35295	14 27 12.25	-15 08 03.4	9 675
(27)	1993 10 13.22622	00 20 06.88	-00 53 52.3	9 675	(666)	1994 03 12.39601	12 01 25.04	-07 21 41.7	9 675
(27)	1993 10 13.26198	00 20 04.89	-00 54 03.5	9 675	(666)	1994 03 12.43976	12 01 22.82	-07 21 25.3	9 675
(72)	1988 08 15.23854	21 16 12.40	-05 18 25.6	9 675	(666)	1994 04 05.29149	11 42 23.14	-04 33 59.1	9 675
(72)	1988 08 15.26997	21 16 10.70	-05 18 37.9	9 675	(666)	1994 04 05.33420	11 42 21.29	-04 33 40.8	9 675
(72)	1994 04 05.29149	11 29 15.58	-00 57 47.5	9 675	(667)	1988 08 15.23854	21 05 34.81	-06 35 04.7	9 675
(72)	1994 04 05.33420	11 29 13.57	-00 57 25.9	9 675	(667)	1988 08 15.26997	21 05 33.51	-06 35 20.2	9 675
(180)	1991 05 13.35295	14 50 13.06	-17 47 00.8	9 675	(694)	1991 05 13.35295	14 39 04.83	-17 37 47.1	9 675
(180)	1991 05 13.39236	14 50 10.93	-17 46 51.4	9 675	(694)	1991 05 13.39236	14 39 02.65	-17 37 24.5	9 675
(180)	1991 05 15.30486	14 48 30.92	-17 39 14.8	9 675	(694)	1991 05 15.30486	14 37 20.32	-17 19 11.2	9 675
(180)	1991 05 15.35747	14 48 28.14	-17 39 02.0	9 675	(694)	1991 05 15.35747	14 37 17.49	-17 18 40.8	9 675
(233)	1988 08 15.23854	21 17 23.65	-02 09 23.9	9 675	(771)	1994 07 13.32726	19 56 32.06	+01 05 32.6	9 675
(233)	1988 08 15.26997	21 17 22.03	-02 09 32.8	9 675	(771)	1994 07 13.35955	19 56 30.41	+01 05 31.0	9 675
(240)	1995 03 27.24653	11 09 50.87	+08 16 57.4	9 675	(788)	1993 10 13.22622	00 15 05.91	-01 53 43.8	9 675
(301)	1993 09 21.39878	00 25 53.15	-02 35 26.7	9 675	(788)	1993 10 13.26198	00 15 04.57	-01 53 58.7	9 675
(301)	1993 09 21.43872	00 25 51.22	-02 35 42.8	9 675	(796)	1991 10 17.37326	02 56 44.18	+17 38 39.4	6 675

(869)	1993 09 21.39878	00 22 00.87	-03 40 59.7	9 675	(1680)	1993 10 15.22986	00 07 31.07	-05 49 42.8	9 675
(869)	1993 09 21.43872	00 21 58.89	-03 41 18.7	9 675	(1687)	1991 05 13.35295	14 39 44.58	-12 40 30.9	9 675
(869)	1993 10 15.18559	00 04 06.33	-06 23 17.4	9 675	(1687)	1991 05 13.39236	14 39 42.78	-12 40 23.2	9 675
(869)	1993 10 15.22986	00 04 04.62	-06 23 30.6	9 675	(1687)	1991 05 15.30486	14 38 20.37	-12 34 51.9	9 675
(942)	1993 09 18.32934	01 01 19.79	-10 14 51.3	9 675	(1687)	1991 05 15.35747	14 38 18.11	-12 34 43.6	9 675
(942)	1993 09 18.36684	01 01 18.23	-10 15 01.8	9 675	(1868)	1994 07 13.32726	19 36 36.91	-00 33 06.3	9 675
(942)	1993 09 22.33854	00 58 31.59	-10 32 00.4	9 675	(1868)	1994 07 13.35955	19 36 35.87	-00 33 08.6	9 675
(942)	1993 09 22.37778	00 58 29.80	-10 32 09.8	9 675	(1872)	1994 04 05.33420	11 26 19.43	-00 38 40.3	9 675
(1010)	1993 09 21.39878	00 38 30.82	-02 40 21.0	9 675	(1893)	1993 09 18.32934	00 52 11.92	-09 46 53.2	9 675
(1010)	1993 09 21.43872	00 38 29.00	-02 40 33.6	9 675	(1893)	1993 09 18.36684	00 52 10.07	-09 47 04.0	9 675
(1010)	1993 10 13.22622	00 21 57.08	-04 23 18.9	9 675	(1893)	1993 09 22.33854	00 48 51.61	-10 04 15.3	9 675
(1010)	1993 10 13.26198	00 21 55.49	-04 23 26.6	9 675	(1893)	1993 09 22.37778	00 48 49.52	-10 04 25.1	9 675
(1011)	1993 10 13.22622	00 30 07.20	-05 07 24.6	9 675	(1957)	1991 05 13.35295	14 39 58.02	-13 46 38.7	9 675
(1011)	1993 10 13.26198	00 30 05.05	-05 07 38.7	9 675	(1957)	1991 05 13.39236	14 39 55.86	-13 46 38.1	9 675
(1037)	1988 08 15.23854	20 50 27.86	-06 27 31.7	9 675	(1957)	1991 05 15.30486	14 38 16.19	-13 46 25.7	9 675
(1037)	1988 08 15.26997	20 50 26.14	-06 27 45.5	9 675	(1957)	1991 05 15.35747	14 38 13.42	-13 46 25.8	9 675
(1081)	1995 03 27.24653	11 29 00.45	+07 09 46.4	9 675	(1988)	1993 10 13.22622	00 35 39.38	-05 23 57.1	9 675
(1137)	1993 10 13.22622	00 33 21.06	-04 10 47.4	9 675	(1988)	1993 10 13.26198	00 35 37.40	-05 24 05.4	9 675
(1137)	1993 10 13.26198	00 33 19.14	-04 10 54.3	9 675	(1993)	1988 03 18.39340	12 36 22.90	+03 56 20.1	9 675
(1154)	1991 05 13.35295	14 59 08.59	-12 59 17.4	9 675	(1993)	1988 03 18.42309	12 36 21.67	+03 56 33.1	9 675
(1154)	1991 05 13.39236	14 59 06.75	-12 59 12.5	9 675	(2070)	1990 04 22.33785	13 04 36.59	-08 43 55.3	9 675
(1154)	1991 05 15.30486	14 57 40.75	-12 55 17.9	9 675	(2140)	1994 04 05.29149	11 23 03.67	-06 53 35.6	9 675
(1154)	1991 05 15.35747	14 57 38.33	-12 55 12.0	9 675	(2140)	1994 04 05.33420	11 23 02.03	-06 53 22.0	9 675
(1291)	1994 03 12.39601	12 16 36.92	-09 35 49.8	9 675	(2152)	1994 07 13.32726	19 56 01.68	-05 31 09.0	9 675
(1291)	1994 03 12.43976	12 16 35.04	-09 35 35.5	9 675	(2152)	1994 07 13.35955	19 56 00.03	-05 31 06.2	9 675
(1319)	1991 05 13.35295	14 30 03.19	-17 24 54.6	9 675	(2153)	1991 05 13.35295	15 00 16.14	-17 05 31.6	9 675
(1319)	1991 05 13.39236	14 30 01.45	-17 24 43.0	9 675	(2153)	1991 05 15.30486	14 58 45.24	-16 59 38.0	9 675
(1319)	1991 05 15.30486	14 28 40.70	-17 15 16.1	9 675	(2153)	1991 05 15.35747	14 58 42.80	-16 59 27.4	9 675
(1319)	1991 05 15.35747	14 28 38.50	-17 15 00.8	9 675	(2180)	1991 05 13.35295	14 48 54.52	-17 51 11.0	9 675
(1559)	1994 04 05.29149	11 29 23.62	-00 27 56.4	9 675	(2180)	1991 05 13.39236	14 48 52.67	-17 50 56.6	9 675
(1559)	1994 04 05.33420	11 29 21.69	-00 27 47.0	9 675	(2180)	1991 05 15.30486	14 47 24.90	-17 38 57.3	9 675
(1604)	1994 04 05.29149	11 24 04.40	-07 20 18.2	9 675	(2180)	1991 05 15.35747	14 47 22.45	-17 38 37.9	9 675
(1604)	1994 04 05.33420	11 24 02.68	-07 20 07.4	9 675	(2193)	1993 10 15.18559	23 59 52.00	-09 56 36.1	9 675
(1624)	1993 10 15.18559	00 03 55.77	-01 56 34.8	9 675	(2193)	1993 10 15.22986	23 59 50.16	-09 56 35.5	9 675
(1624)	1993 10 15.22986	00 03 54.12	-01 56 45.2	9 675	(2222)	1991 05 13.35295	14 39 31.06	-12 37 18.8	9 675
(1653)	1994 03 12.39601	12 03 04.51	-05 32 58.3	9 675	(2222)	1991 05 13.39236	14 39 29.24	-12 37 10.2	9 675
(1653)	1994 03 12.43976	12 03 02.13	-05 32 46.4	9 675	(2222)	1991 05 15.30486	14 38 05.38	-12 31 35.5	9 675
(1653)	1994 04 05.29149	11 42 51.22	-03 30 10.1	9 675	(2222)	1991 05 15.35747	14 38 03.07	-12 31 26.8	9 675
(1653)	1994 04 05.33420	11 42 49.29	-03 29 56.9	9 675	(2310)	1991 10 17.37326	03 13 26.84	+13 54 31.3	6 675
(1676)	1993 09 18.32934	00 39 14.29	-05 18 36.8	9 675	(2322)	1991 05 13.35295	14 38 13.34	-13 12 24.4	9 675
(1676)	1993 09 18.36684	00 39 11.93	-05 18 48.2	9 675	(2322)	1991 05 13.39236	14 38 11.02	-13 12 11.4	9 675
(1676)	1993 09 22.33854	00 35 03.53	-05 38 08.3	9 675	(2322)	1991 05 15.30486	14 36 24.79	-13 02 16.2	9 675
(1676)	1993 09 22.37778	00 35 00.90	-05 38 18.1	9 675	(2322)	1991 05 15.35747	14 36 21.81	-13 02 01.0	9 675
(1676)	1993 10 13.22622	00 13 40.94	-06 48 08.7	9 675	(2328)	1994 07 13.32726	20 03 34.88	-05 12 57.4	9 675
(1676)	1993 10 13.26198	00 13 38.98	-06 48 12.2	9 675	(2328)	1994 07 13.35955	20 03 32.96	-05 13 03.2	9 675
(1676)	1993 10 15.18559	00 11 58.20	-06 50 54.1	9 675	(2434)	1993 10 13.22622	00 36 18.45	-03 29 40.6	9 675
(1676)	1993 10 15.22986	00 11 55.87	-06 50 57.9	9 675	(2434)	1993 10 13.26198	00 36 16.43	-03 29 38.5	9 675
(1680)	1993 09 21.39878	00 26 36.73	-04 05 37.2	9 675	(2440)	1991 10 17.37326	02 54 58.70	+18 11 11.1	6 675
(1680)	1993 09 21.43872	00 26 34.70	-04 05 49.8	9 675	(2487)	1991 05 15.30486	14 44 22.52	-19 55 08.8	9 675
(1680)	1993 10 13.22622	00 08 56.20	-05 43 25.0	9 675	(2487)	1991 05 15.35747	14 44 19.31	-19 54 56.9	9 675
(1680)	1993 10 13.26198	00 08 54.63	-05 43 32.1	9 675	(2524)	1991 05 15.30486	15 01 14.95	-17 29 14.2	9 675
(1680)	1993 10 15.18559	00 07 33.01	-05 49 35.3	9 675	(2535)	1991 10 17.37326	03 14 03.15	+13 36 06.3	6 675

(2536)	1988 08 15.23854	21 11 28.30	-08 28 44.6	9 675	(3545)	1991 10 17.37326	03 08 31.65	+15 57 53.4	6 675
(2536)	1988 08 15.26997	21 11 26.40	-08 28 46.6	9 675	(3680)	1993 03 24.45347	14 14 47.03	-12 45 12.3	9 675
(2610)	1991 10 17.35416	03 05 13.70	+17 09 15.5	6 675	(3680)	1993 03 24.48438	14 14 45.73	-12 45 12.3	9 675
(2611)	1993 09 21.39878	00 20 28.94	-02 46 29.3	9 675	(3680)	1994 10 01.18490	23 07 19.19	-11 05 56.8	9 675
(2611)	1993 09 21.43872	00 20 27.12	-02 46 41.1	9 675	(3680)	1994 10 01.21406	23 07 17.69	-11 05 58.5	9 675
(2611)	1993 10 15.18559	00 03 18.64	-04 22 08.3	9 675	(3685)	1994 03 12.39601	11 55 56.93	-09 36 26.8	9 675
(2611)	1993 10 15.22986	00 03 16.89	-04 22 15.3	9 675	(3685)	1994 03 12.43976	11 55 54.80	-09 36 06.6	9 675
(2670)	1988 08 15.23854	21 16 09.85	-07 20 55.7	9 675	(3685)	1994 04 05.29149	11 38 13.52	-06 03 15.9	9 675
(2670)	1988 08 15.26997	21 16 08.33	-07 20 59.9	9 675	(3685)	1994 04 05.33420	11 38 11.74	-06 02 53.4	9 675
(2673)	1993 09 21.39878	00 17 57.88	-01 21 58.6	9 675	(3693)	1993 10 15.18559	23 57 25.16	-04 04 19.3	9 675
(2673)	1993 09 21.43872	00 17 56.11	-01 22 10.2	9 675	(3693)	1993 10 15.22986	23 57 23.95	-04 04 44.0	9 675
(2673)	1993 10 15.18559	00 01 41.06	-02 57 42.2	19.0 9 675	(3801)	1954 04 03.25799	11 11 02.54	-15 33 56.6	6 675
(2673)	1993 10 15.22986	00 01 39.52	-02 57 49.2	9 675	(3801)	1954 04 03.28125	11 11 02.15	-15 33 48.6	6 675
(2685)	1994 07 13.32726	19 36 00.16	-02 55 09.2	9 675	(3828)	1994 03 12.39601	11 55 53.17	-06 23 25.4	9 675
(2685)	1994 07 13.35955	19 35 58.34	-02 55 12.1	9 675	(3828)	1994 03 12.43976	11 55 51.27	-06 23 11.6	9 675
(2714)	1995 03 27.24653	11 24 29.18	+11 28 53.8	9 675	(3828)	1994 04 05.29149	11 39 36.48	-04 01 06.2	9 675
(2863)	1991 05 13.35295	14 37 07.44	-12 29 35.9	9 675	(3828)	1994 04 05.33420	11 39 34.88	-04 00 50.5	9 675
(2863)	1991 05 13.39236	14 37 05.56	-12 29 28.0	9 675	(3860)	1994 03 12.39601	11 57 21.50	-11 45 20.7	9 675
(2863)	1991 05 15.30486	14 35 40.01	-12 23 11.8	18.0 9 675	(3860)	1994 03 12.43976	11 57 19.26	-11 45 11.1	9 675
(2863)	1991 05 15.35747	14 35 37.68	-12 23 02.7	9 675	(3867)	1993 09 18.32934	00 58 02.69	-04 53 50.5	9 675
(2866)	1994 04 05.29149	11 26 29.50	-04 47 34.6	9 675	(3867)	1993 09 18.36684	00 58 00.80	-04 54 05.7	9 675
(2866)	1994 04 05.33420	11 26 27.75	-04 47 24.3	9 675	(3867)	1993 09 22.33854	00 54 40.63	-05 17 50.5	9 675
(2877)	1991 10 17.37326	03 01 59.18	+14 48 07.5	6 675	(3867)	1993 09 22.37778	00 54 38.50	-05 18 04.2	9 675
(2969)	1991 05 13.35295	14 35 52.21	-13 09 59.5	9 675	(3867)	1993 10 13.22622	00 34 56.26	-07 01 47.6	9 675
(2969)	1991 05 13.39236	14 35 50.32	-13 09 47.9	9 675	(3867)	1993 10 13.26198	00 34 54.19	-07 01 55.1	9 675
(2969)	1991 05 15.30486	14 34 20.69	-13 02 04.8	9 675	(3887)	1991 12 02.24253	04 20 31.18	+09 15 37.5	9 675
(2969)	1991 05 15.35747	14 34 18.16	-13 01 53.6	9 675	(3887)	1991 12 02.27569	04 20 29.49	+09 15 29.4	9 675
(2989)	1995 03 27.24653	11 31 40.91	+09 21 27.0	9 675	(3892)	1988 08 15.23854	21 02 04.73	-08 05 50.9	9 675
(3026)	1991 05 13.35295	14 43 46.26	-13 22 27.4	9 675	(3892)	1988 08 15.26997	21 02 03.23	-08 06 09.8	9 675
(3026)	1991 05 13.39236	14 43 44.48	-13 22 13.2	9 675	(3946)	1991 10 17.37326	03 03 26.32	+18 18 17.6	6 675
(3026)	1991 05 15.30486	14 42 21.10	-13 10 42.7	16.5 9 675	(3981)	1991 05 13.35295	14 55 10.38	-14 47 46.6	9 675
(3078)	1995 03 27.24653	11 19 32.01	+11 52 03.8	9 675	(3981)	1991 05 13.39236	14 55 08.59	-14 47 41.4	9 675
(3160)	1994 04 05.29149	11 21 43.13	-03 00 35.9	9 675	(3981)	1991 05 15.30486	14 53 42.49	-14 42 19.8	9 675
(3160)	1994 04 05.33420	11 21 40.99	-03 00 23.8	9 675	(3981)	1991 05 15.35747	14 53 40.05	-14 42 11.9	9 675
(3276)	1991 05 13.35295	15 00 27.22	-15 34 32.4	9 675	(3982)	1994 03 12.39601	12 12 12.17	-10 26 11.2	9 675
(3276)	1991 05 13.39236	15 00 25.41	-15 34 27.1	9 675	(3982)	1994 03 12.43976	12 12 09.62	-10 25 57.3	9 675
(3276)	1991 05 15.30486	14 58 57.52	-15 29 12.8	9 675	(4018)	1994 04 05.29149	11 26 20.63	-01 43 26.0	9 675
(3276)	1991 05 15.35747	14 58 54.93	-15 29 05.8	9 675	(4018)	1994 04 05.33420	11 26 18.79	-01 43 13.0	9 675
(3319)	1994 03 12.43976	12 06 25.02	-06 20 34.8	9 675	(4023)	1991 10 17.37326	02 49 16.85	+18 06 42.9	6 675
(3319)	1994 04 05.29149	11 49 45.82	-04 31 06.4	9 675	(4044)	1991 05 15.24861	13 35 19.08	+04 20 42.9	9 675
(3319)	1994 04 05.33420	11 49 44.07	-04 30 53.0	9 675	(4044)	1991 05 15.28073	13 35 17.89	+04 20 41.0	9 675
(3428)	1991 05 13.35295	14 54 21.77	-17 24 23.0	9 675	(4050)	1993 10 15.18559	23 54 27.24	-02 09 52.0	9 675
(3428)	1991 05 13.39236	14 54 19.79	-17 24 03.5	9 675	(4050)	1993 10 15.22986	23 54 25.71	-02 10 02.4	9 675
(3428)	1991 05 15.30486	14 52 47.66	-17 08 22.2	9 675	(4075)	1995 03 27.24653	11 21 33.99	+07 54 28.0	9 675
(3428)	1991 05 15.35747	14 52 45.08	-17 07 56.6	9 675	(4094)	1991 05 13.35295	14 48 06.31	-17 37 07.3	9 675
(3437)	1991 05 13.35295	14 55 11.97	-18 29 31.4	9 675	(4094)	1991 05 13.39236	14 48 04.32	-17 36 58.5	9 675
(3437)	1991 05 13.39236	14 55 09.30	-18 29 25.2	9 675	(4094)	1991 05 15.30486	14 46 25.74	-17 28 48.7	18.0 9 675
(3437)	1991 05 15.30486	14 53 08.21	-18 24 19.6	9 675	(4094)	1991 05 15.35747	14 46 23.02	-17 28 34.5	9 675
(3437)	1991 05 15.35747	14 53 04.77	-18 24 11.4	9 675	(4106)	1991 10 17.37326	03 15 21.62	+17 30 50.4	6 675
(3520)	1995 03 27.24653	11 17 45.72	+10 36 35.0	9 675	(4220)	1991 10 17.37326	03 15 05.62	+18 21 28.7	6 675
(3525)	1994 04 05.29149	11 31 35.21	-00 54 50.5	9 675	(4259)	1993 10 13.22622	00 28 52.24	-00 33 17.5	9 675
(3525)	1994 04 05.33420	11 31 33.54	-00 54 39.0	9 675	(4259)	1993 10 13.26198	00 28 50.56	-00 33 26.3	9 675

(4285)	1993 09 18.32934	00 43 22.28	-05 43 39.2	9 675	(5217)	1993 09 21.43872	00 30 24.28	-01 05 10.3	9 675
(4285)	1993 09 18.36684	00 43 20.63	-05 44 00.5	9 675	(5217)	1993 10 13.22622	00 11 06.31	-03 15 06.2	9 675
(4285)	1993 09 22.33854	00 40 23.51	-06 20 14.7	9 675	(5217)	1993 10 13.26198	00 11 04.50	-03 15 17.2	9 675
(4285)	1993 09 22.37778	00 40 21.61	-06 20 36.1	9 675	(5217)	1993 10 15.18559	00 09 34.75	-03 24 20.6	9 675
(4285)	1993 10 13.22622	00 24 23.45	-09 05 30.5	9 675	(5217)	1993 10 15.22986	00 09 32.68	-03 24 33.0	9 675
(4285)	1993 10 13.26198	00 24 21.81	-09 05 43.4	9 675	(5237)	1995 03 27.24653	11 11 52.54	+12 28 21.1	9 675
(4293)	1991 05 13.39236	14 50 12.18	-13 13 56.7	9 675	(5252)	1995 03 27.24653	11 24 56.28	+11 37 57.8	9 675
(4293)	1991 05 15.30486	14 48 25.48	-13 12 05.3	9 675	(5257)	1995 03 27.24653	11 23 20.52	+06 41 07.1	9 675
(4293)	1991 05 15.35747	14 48 22.52	-13 12 03.0	9 675	(5285)	1994 07 13.32726	20 00 14.10	-06 05 44.6	9 675
(4293)	1993 09 18.32934	00 59 33.29	-06 21 22.5	9 675	(5285)	1994 07 13.35955	20 00 13.18	-06 05 51.4	9 675
(4293)	1993 09 18.36684	00 59 31.50	-06 21 33.4	9 675	(5288)	1988 08 15.26997	20 56 12.22	-04 04 15.2	9 675
(4293)	1993 09 22.33854	00 56 21.21	-06 39 37.5	9 675	(5343)	1993 04 17.35868	14 51 07.88	-09 33 52.1	9 675
(4293)	1993 09 22.37778	00 56 19.19	-06 39 47.5	9 675	(5343)	1993 04 17.38889	14 51 06.05	-09 33 48.1	9 675
(4297)	1995 03 27.24653	11 34 51.00	+11 06 20.2	17.8 9 675	(5346)	1991 05 13.35295	14 55 37.57	-15 13 31.0	9 675
(4357)	1988 08 15.26997	20 51 10.11	-02 41 37.9	9 675	(5346)	1991 05 13.39236	14 55 35.67	-15 13 23.8	9 675
(4370)	1991 05 13.35295	14 28 30.39	-14 13 08.4	9 675	(5346)	1991 05 15.30486	14 54 03.62	-15 07 57.7	9 675
(4437)	1994 03 12.39601	11 56 13.86	-05 59 39.9	9 675	(5346)	1991 05 15.35747	14 54 01.08	-15 07 49.1	9 675
(4437)	1994 03 12.43976	11 56 11.59	-05 59 22.7	9 675	(5354)	1993 10 13.22622	00 28 12.56	-03 09 56.1	9 675
(4437)	1994 04 05.29149	11 37 07.36	-02 54 50.2	9 675	(5354)	1993 10 13.26198	00 28 11.17	-03 10 04.6	9 675
(4437)	1994 04 05.33420	11 37 05.57	-02 54 30.5	9 675	(5384)	1991 05 13.39236	14 53 18.62	-16 49 00.2	9 675
(4478)	1994 03 12.39601	12 00 14.43	-06 25 14.1	9 675	(5384)	1991 05 15.30486	14 49 42.43	-17 15 30.6	9 675
(4478)	1994 03 12.43976	12 00 11.82	-06 25 00.7	9 675	(5454)	1994 04 05.33420	11 43 09.34	-01 37 37.0	9 675
(4478)	1994 04 05.29149	11 37 25.75	-03 54 30.5	9 675	(5597)	1994 03 12.39601	11 59 44.79	-03 51 08.8	9 675
(4478)	1994 04 05.33420	11 37 23.54	-03 54 14.2	9 675	(5597)	1994 03 12.43976	11 59 42.21	-03 50 58.6	9 675
(4502)	1994 07 13.32726	20 01 24.75	-03 55 10.4	9 675	(5597)	1994 04 05.29149	11 36 52.51	-02 01 26.2	9 675
(4502)	1994 07 13.35955	20 01 23.08	-03 55 19.3	9 675	(5597)	1994 04 05.33420	11 36 50.25	-02 01 14.9	9 675
(4572)	1991 12 02.24253	04 34 31.41	+06 58 56.0	9 675	(5638)	1995 03 27.24653	11 25 00.79	+07 52 48.9	9 675
(4572)	1991 12 02.27569	04 34 29.47	+06 58 48.0	9 675	(5657)	1994 07 13.32726	19 48 15.95	-01 45 28.7	9 675
(4572)	1994 07 13.32726	19 44 40.67	+00 22 21.5	9 675	(5657)	1994 07 13.35955	19 48 14.29	-01 45 38.2	9 675
(4572)	1994 07 13.35955	19 44 38.98	+00 22 17.7	9 675	(5712)	1988 08 15.23854	21 03 54.07	-02 16 29.0	9 675
(4692)	1995 03 27.24653	11 29 01.28	+09 29 35.9	9 675	(5712)	1988 08 15.26997	21 03 52.59	-02 16 40.6	9 675
(4715)	1995 03 27.24653	11 26 28.86	+07 44 10.9	9 675	(5718)	1993 09 18.32934	00 36 04.81	-10 27 31.8	9 675
(4756)	1988 08 15.23854	21 06 53.43	-02 19 33.4	9 675	(5718)	1993 09 18.36684	00 36 02.71	-10 27 41.5	9 675
(4756)	1988 08 15.26997	21 06 51.98	-02 19 40.7	9 675	(5728)	1993 09 21.39878	00 11 46.17	-02 36 04.7	9 675
(4772)	1988 08 15.26997	21 01 28.68	-00 14 04.0	9 675	(5728)	1993 09 21.43872	00 11 44.08	-02 36 25.9	9 675
(4801)	1993 10 15.18559	23 47 50.09	-04 38 39.6	9 675	(5728)	1993 10 15.18559	23 53 14.96	-05 29 31.1	9 675
(4801)	1993 10 15.22986	23 47 48.16	-04 38 49.3	9 675	(5728)	1993 10 15.22986	23 53 13.29	-05 29 44.3	9 675
(4861)	1991 05 13.35295	14 43 18.97	-11 22 53.8	9 675	(5779)	1993 09 22.33854	01 01 38.87	-04 46 47.9	9 675
(4861)	1991 05 15.30486	14 41 39.69	-11 16 59.5	9 675	(5779)	1993 09 22.37778	01 01 37.32	-04 47 06.0	9 675
(4865)	1991 05 13.35295	14 33 43.81	-15 14 43.3	9 675	(5802)	1991 05 13.35295	14 55 08.70	-19 00 50.6	9 675
(4865)	1991 05 13.39236	14 33 41.73	-15 14 41.9	9 675	(5802)	1991 05 13.39236	14 55 06.16	-19 00 42.6	9 675
(4865)	1991 05 15.30486	14 32 07.63	-15 12 34.0	9 675	(5802)	1991 05 15.30486	14 53 07.33	-18 54 13.6	16.5 9 675
(4865)	1991 05 15.35747	14 32 05.06	-15 12 31.8	9 675	(5802)	1991 05 15.35747	14 53 03.98	-18 54 03.5	9 675
(4913)	1991 05 13.35295	14 36 24.22	-15 42 25.3	17.2 9 675	(5894)	1994 03 12.39601	12 02 34.95	-07 48 22.1	9 675
(4913)	1991 05 13.39236	14 36 21.75	-15 42 18.7	9 675	(5894)	1994 03 12.43976	12 02 32.16	-07 48 16.3	9 675
(4913)	1991 05 15.30486	14 34 28.25	-15 36 16.9	9 675	(5894)	1994 04 05.29149	11 38 23.62	-06 14 25.4	9 675
(4913)	1991 05 15.35747	14 34 25.10	-15 36 07.2	9 675	(5894)	1994 04 05.33420	11 38 21.23	-06 14 13.8	9 675
(5067)	1991 10 17.37326	02 56 10.23	+14 00 52.2	18.2 6 675	(5990)	1994 03 12.39601	12 12 01.90	-04 47 33.0	9 675
(5084)	1991 10 17.37326	03 09 09.81	+17 38 39.6	6 675	(5990)	1994 03 12.43976	12 11 59.06	-04 47 30.9	9 675
(5187)	1993 04 17.35868	14 43 02.74	-11 12 06.5	9 675	(5990)	1994 04 05.29149	11 46 50.66	-04 06 35.2	9 675
(5187)	1993 04 17.38889	14 43 01.35	-11 12 00.1	9 675	(5990)	1994 04 05.33420	11 46 48.11	-04 06 29.6	9 675
(5217)	1993 09 21.39878	00 30 26.51	-01 04 53.7	9 675	(6063)	1993 10 15.22986	23 55 49.44	-03 33 43.9	9 675

(6088)	1991 05 13.35295	15 02 02.81	-14 38 32.1	9 675	(7064)	1991 05 13.35295	14 57 48.60	-16 33 34.2	9 675
(6088)	1991 05 13.39236	15 02 00.86	-14 38 21.0	9 675	(7064)	1991 05 13.39236	14 57 46.73	-16 33 27.1	9 675
(6088)	1991 05 15.30486	15 00 32.71	-14 30 10.8	9 675	(7064)	1991 05 15.30486	14 56 17.97	-16 26 46.5	9 675
(6088)	1991 05 15.35747	15 00 30.19	-14 29 57.9	9 675	(7064)	1991 05 15.35747	14 56 15.46	-16 26 35.4	9 675
(6097)	1991 10 17.37326	03 10 34.37	+15 17 52.6	6 675	(7140)	1991 05 13.35295	14 39 19.32	-12 24 30.5	9 675
(6236)	1993 10 13.22622	00 12 09.71	-01 53 09.3	9 675	(7140)	1991 05 13.39236	14 39 16.66	-12 24 22.8	9 675
(6236)	1993 10 13.26198	00 12 08.17	-01 53 16.1	9 675	(7140)	1991 05 15.30486	14 37 13.70	-12 19 04.0	9 675
(6289)	1995 03 27.24653	11 12 18.64	+07 42 30.2	9 675	(7140)	1991 05 15.35747	14 37 10.18	-12 18 55.6	9 675
(6328)	1995 03 27.24653	11 18 08.39	+07 50 32.1	9 675	(7154)	1993 10 13.22622	00 18 41.80	-00 40 00.7	9 675
(6332)	1993 10 15.18559	23 46 36.67	-03 53 10.9	9 675	(7154)	1993 10 13.26198	00 18 40.02	-00 40 13.4	9 675
(6332)	1993 10 15.22986	23 46 34.91	-03 53 18.6	9 675	(7241)	1993 09 21.39878	00 23 17.80	-06 58 59.5	9 675
(6334)	1993 09 21.39878	00 15 35.55	-04 03 22.3	9 675	(7241)	1993 09 21.43872	00 23 15.62	-06 59 15.1	9 675
(6334)	1993 09 21.43872	00 15 33.29	-04 03 35.9	9 675	(7241)	1993 10 15.18559	00 03 49.11	-08 49 14.4	9 675
(6334)	1993 10 15.18559	23 54 58.38	-05 49 35.2	9 675	(7241)	1993 10 15.22986	00 03 47.28	-08 49 19.5	9 675
(6334)	1993 10 15.22986	23 54 56.38	-05 49 43.1	9 675	(7248)	1993 09 22.33854	00 57 36.08	-04 13 27.1	9 675
(6412)	1995 03 27.24653	11 15 31.13	+08 42 17.8	9 675	(7248)	1993 09 22.37778	00 57 33.86	-04 13 47.5	9 675
(6495)	1988 08 15.26997	20 47 54.32	-05 09 24.8	9 675	(7248)	1993 10 13.22622	00 38 13.65	-06 34 30.2	17.2 9 675
(6571)	1994 03 12.39601	12 05 07.99	-10 48 08.2	9 675	(7248)	1993 10 13.26198	00 38 11.67	-06 34 39.6	9 675
(6613)	1954 04 03.25799	11 24 48.95	-09 51 21.4	6 675	(7289)	1991 05 13.35295	14 59 53.68	-15 34 55.4	9 675
(6613)	1954 04 03.28125	11 24 48.23	-09 51 07.9	6 675	(7289)	1991 05 13.39236	14 59 50.89	-15 34 56.2	9 675
(6649)	1994 03 12.39601	12 05 00.79	-07 11 06.7	9 675	(7289)	1991 05 15.30486	14 57 42.55	-15 36 23.8	9 675
(6649)	1994 04 05.29149	11 42 38.69	-05 32 01.2	9 675	(7289)	1991 05 15.35747	14 57 38.92	-15 36 26.4	9 675
(6671)	1994 07 13.32726	19 54 46.82	+01 41 52.5	9 675	(7319)	1995 03 27.24653	11 14 05.43	+07 54 28.3	9 675
(6671)	1994 07 13.35955	19 54 45.12	+01 41 46.1	9 675	(7365)	1995 03 27.24653	11 18 55.55	+07 06 26.9	9 675
(6684)	1991 10 17.37326	03 12 54.07	+13 33 27.2	18.2 6 675	(7409)	1991 05 13.35295	15 01 52.24	-16 20 03.3	18.5 9 675
(6691)	1993 04 17.35868	14 50 32.65	-10 32 32.9	9 675	(7409)	1991 05 15.30486	14 59 55.45	-16 13 52.0	9 675
(6752)	1994 07 13.32726	20 07 34.41	-01 46 02.7	9 675	(7409)	1991 05 15.35747	14 59 52.23	-16 13 40.1	9 675
(6752)	1994 07 13.35955	20 07 32.53	-01 46 10.4	9 675	(7440)	1993 09 18.36684	00 35 27.01	-06 50 03.2	9 675
(6759)	1993 09 21.39878	00 17 32.55	-07 20 14.5	9 675	(7440)	1993 09 21.39878	00 33 11.21	-07 18 51.1	9 675
(6759)	1993 09 21.43872	00 17 30.87	-07 20 27.2	9 675	(7440)	1993 09 21.43872	00 33 09.29	-07 19 12.9	9 675
(6759)	1993 10 15.18559	00 02 13.52	-09 10 26.6	9 675	(7440)	1993 09 22.33854	00 32 28.11	-07 27 40.9	9 675
(6759)	1993 10 15.22986	00 02 11.98	-09 10 36.0	9 675	(7440)	1993 09 22.37778	00 32 26.30	-07 28 03.7	9 675
(6830)	1991 05 13.35295	14 49 51.44	-11 44 19.5	9 675	(7470)	1991 05 13.35295	14 36 29.63	-11 51 12.3	9 675
(6830)	1991 05 13.39236	14 49 49.50	-11 44 16.0	9 675	(7470)	1991 05 13.39236	14 36 27.13	-11 51 13.0	9 675
(6830)	1991 05 15.30486	14 48 20.34	-11 41 07.7	9 675	(7575)	1991 05 13.35295	14 56 12.98	-15 48 10.0	9 675
(6830)	1991 05 15.35747	14 48 17.82	-11 41 02.5	9 675	(7575)	1991 05 13.39236	14 56 10.51	-15 47 57.6	9 675
(6918)	1991 10 17.37326	02 52 58.25	+14 52 12.0	6 675	(7575)	1991 05 15.35747	14 54 12.75	-15 37 43.8	9 675
(6924)	1993 09 21.39878	00 32 38.14	-04 16 51.9	9 675	(7576)	1995 03 27.24653	11 33 22.53	+09 45 50.1	17.0 9 675
(6924)	1993 09 21.43872	00 32 36.21	-04 16 57.6	9 675	(7584)	1993 09 21.39878	00 13 14.20	-03 45 46.2	9 675
(6924)	1993 10 13.22622	00 15 40.30	-04 49 24.5	9 675	(7584)	1993 09 21.43872	00 13 12.31	-03 45 59.1	9 675
(6924)	1993 10 13.26198	00 15 38.73	-04 49 25.9	9 675	(7584)	1993 10 15.18559	23 55 42.25	-05 37 05.4	9 675
(6924)	1993 10 15.18559	00 14 17.13	-04 50 26.2	9 675	(7584)	1993 10 15.22986	23 55 40.50	-05 37 14.9	9 675
(6924)	1993 10 15.22986	00 14 15.24	-04 50 28.6	9 675	(7603)	1991 10 17.37326	02 51 14.06	+16 00 25.7	6 675
(6937)	1988 08 15.23854	21 01 46.84	-03 51 47.8	18.2 9 675	(7611)	1993 09 18.32934	00 52 59.79	-07 50 47.7	9 675
(6937)	1988 08 15.26997	21 01 45.46	-03 51 58.1	9 675	(7611)	1993 09 18.36684	00 52 58.13	-07 51 03.1	9 675
(6952)	1991 05 13.35295	14 45 11.93	-11 37 40.7	9 675	(7611)	1993 09 22.37778	00 50 05.04	-08 15 47.1	9 675
(6952)	1991 05 13.39236	14 45 10.08	-11 37 22.2	9 675	(7650)	1994 07 13.32726	19 36 48.70	-04 00 18.4	9 675
(6952)	1991 05 15.30486	14 43 45.28	-11 23 00.6	9 675	(7650)	1994 07 13.35955	19 36 47.10	-04 00 18.6	9 675
(6952)	1991 05 15.35747	14 43 42.82	-11 22 38.0	9 675	(7710)	1993 09 21.39878	00 34 46.51	-02 14 10.7	17.5 9 675
(6990)	1993 10 13.22622	00 31 02.55	-01 00 42.7	18.2 9 675	(7710)	1993 09 21.43872	00 34 44.80	-02 14 19.8	9 675
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(7029)	1995 03 27.24653	11 23 36.42	+06 51 39.2	9 675					

M.P.C. 30162

1997 JULY 20

(7710) 1993 10 13.26198 00 19 13.75 -03 21 40.9 9 675
 (7713) 1991 10 17.37326 03 09 43.45 +13 52 18.8 6 675

683 Goodricke-Pigott Observatory, Tucson

R. A. Tucker, 5500 West Nebraska Street, Tucson, AZ 85746, U.S.A.

[tucker@mail.hvs.com]

0.36-m $f/11$ Schmidt-Cassegrain + CCD

GSC

1997 LQ ₂	1997 06 11.21307	16 08 02.23	-19 00 43.6	18.5 R	683
1997 LQ ₂	1997 06 11.22050	16 08 01.74	-19 00 35.8	18.4 R	683
1997 LQ ₂	1997 06 11.22919	16 08 01.17	-19 00 27.0	18.2 R	683
1997 LQ ₂	1997 06 12.18823	16 07 00.30	-18 43 39.3	17.7 R	683
1997 LQ ₂	1997 06 12.19639	16 06 59.76	-18 43 30.5	17.9 R	683
1997 LQ ₂	1997 06 13.19274	16 05 57.68	-18 26 08.1	18.1 R	683
1997 LQ ₂	1997 06 13.19991	16 05 57.22	-18 26 00.3	17.9 R	683
1997 LQ ₂	1997 06 13.22837	16 05 55.37	-18 25 30.9	18.0 R	683
1997 LQ ₂	1997 06 14.24771	16 04 53.24	-18 07 48.3	18.1 R	683
1997 LQ ₂	1997 06 14.25881	16 04 52.53	-18 07 36.7	18.3 R	683
1997 LQ ₂	1997 06 14.28433	16 04 50.92	-18 07 10.2	18.0 R	683
1997 LQ ₂	1997 06 15.23020	16 03 54.83	-17 50 50.1	17.6 R	683
1997 LQ ₂	1997 06 15.23714	16 03 54.41	-17 50 43.2	17.6 R	683
1997 LQ ₂	1997 06 16.22407	16 02 57.16	-17 33 45.8	17.8 R	683
1997 LQ ₂	1997 06 16.24123	16 02 56.14	-17 33 29.3	17.6 R	683
1997 LQ ₂	1997 06 17.21448	16 02 01.16	-17 16 52.2	17.2 R	683
1997 LQ ₂	1997 06 17.24383	16 01 59.58	-17 16 22.8	17.0 R	683
1997 LQ ₂	1997 06 24.19654	15 56 15.49	-15 22 17.4	18.3 R	683
1997 LQ ₂	1997 06 24.20457	15 56 15.13	-15 22 10.2	18.1 R	683
1997 LQ ₂	1997 06 24.23273	15 56 13.85	-15 21 43.8	18.1 R	683
1997 LQ ₂	1997 06 26.20475	15 54 53.20	-14 51 07.7	17.8 R	683
1997 LQ ₂	1997 06 26.21146	15 54 52.90	-14 51 01.5	18.1 R	683
1997 LQ ₂	1997 06 26.23039	15 54 52.11	-14 50 44.3	17.8 R	683
1997 MT	* 1997 06 28.39762	18 26 17.51	-03 43 38.7	17.8 R	683
1997 MT	1997 06 28.42554	18 26 16.01	-03 43 38.0	17.7 R	683
1997 MT	1997 06 28.44637	18 26 14.89	-03 43 37.3	17.8 R	683
1997 MT	1997 06 29.20621	18 25 34.73	-03 43 08.6	17.9 R	683
1997 MT	1997 06 29.21714	18 25 34.10	-03 43 08.2	18.1 R	683
1997 MT	1997 06 29.23529	18 25 33.13	-03 43 07.6	18.5 R	683
1997 MW ₁	* 1997 06 29.35705	18 26 18.76	-03 41 41.0		683
1997 MW ₁	1997 06 29.46028	18 25 50.53	-03 38 47.5	17.1 R	683
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1997 MW ₁	1997 07 02.26878	18 13 44.16	-02 23 22.1		683
1997 MW ₁	1997 07 02.28574	18 13 39.56	-02 22 55.1		683
1997 MW ₁	1997 07 02.31304	18 13 32.46	-02 22 14.6		683

684 Prescott

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

[comba@northlink.com]

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

1996 GS	1997 07 02.29215	17 05 21.91	-09 18 43.9		I 684
1996 GS	1997 07 02.30191	17 05 21.54	-09 18 42.1	17.7 R	684
1996 GE ₁₉	1997 06 29.30624	16 26 49.47	+03 03 22.3	16.7 R	684
1996 GE ₁₉	1997 06 29.30995	16 26 49.38	+03 03 22.5		684
1996 GE ₁₉	1997 06 29.31292	16 26 49.31	+03 03 22.6		684
1996 GE ₁₉	1997 06 30.29718	16 26 26.51	+03 04 08.3		684
1996 GE ₁₉	1997 06 30.30210	16 26 26.40	+03 04 08.5		684
1996 GE ₁₉	1997 06 30.30606	16 26 26.31	+03 04 08.6		684
1996 HX	1997 07 05.41779	23 33 07.36	-07 49 30.5	17.5 R	684
1996 HX	1997 07 05.42573	23 33 07.57	-07 49 29.1		684
1996 HX	1997 07 05.43612	23 33 07.82	-07 49 27.1		684
1996 HX	1997 07 06.41808	23 33 33.65	-07 46 21.7	17.8 R	684
1996 HX	1997 07 06.42287	23 33 33.75	-07 46 20.5		684
1996 HX	1997 07 06.43146	23 33 33.95	-07 46 19.2		684
1997 GL ₂₈	1997 07 01.21623	14 04 19.00	-07 20 52.2	19.0 R	684
1997 GL ₂₈	1997 07 01.22954	14 04 19.29	-07 20 51.7		684
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1997 HO ₂	1997 07 02.21451	14 49 06.86	-14 12 10.2	18.5 R	684
1997 HO ₂	1997 07 02.24859	14 49 06.75	-14 12 10.6		684
1997 JU ₃	1997 06 30.21558	14 52 01.54	-18 27 51.6	18.8 R	684
1997 JU ₃	1997 06 30.24814	14 52 01.60	-18 27 57.8		684
1997 JU ₃	1997 07 02.22466	14 52 10.85	-18 34 36.4	18.7 R	684
1997 JU ₃	1997 07 02.23181	14 52 10.91	-18 34 37.5		684
1997 JB ₈	1997 07 05.21142	14 55 13.13	-11 58 34.5		I 684
1997 JB ₈	1997 07 05.23359	14 55 13.54	-11 58 35.7		684
1997 KG	1997 06 30.26903	15 44 13.32	-17 46 26.1	18.4 R	684
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1997 KG	1997 07 06.18469	15 42 11.77	-17 47 31.0	18.4 R	684
1997 KG	1997 07 06.20834	15 42 11.34	-17 47 31.1		684
1997 KG	1997 07 06.21523	15 42 11.21	-17 47 31.3		684
1997 KH	1997 06 30.25699	15 44 36.07	-17 06 31.0		684
1997 KH	1997 06 30.26125	15 44 35.98	-17 06 30.8	18.6 R	684
1997 KH	1997 06 30.27704	15 44 35.62	-17 06 30.1		684
1997 KH	1997 07 01.26140	15 44 16.26	-17 05 46.6	18.4 R	684
1997 KH	1997 07 01.26590	15 44 16.13	-17 05 46.3		684
1997 KH	1997 07 01.27005	15 44 16.07	-17 05 45.8		684
1997 KH	1997 07 06.17057	15 43 03.89	-17 03 41.6	19.1 R	684
1997 KH	1997 07 06.19337	15 43 03.67	-17 03 41.3		684
1997 KH	1997 07 06.19894	15 43 03.55	-17 03 40.5		684
1997 LZ ₄	1997 06 30.25699	15 44 23.81	-17 07 10.5	19.5 R	684
1997 LZ ₄	1997 06 30.26125	15 44 23.76	-17 07 10.1		684
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1997 LZ ₄	1997 07 01.26140	15 43 58.85	-17 05 12.2	19.7 R	684
1997 LZ ₄	1997 07 01.26590	15 43 58.79	-17 05 11.7		I 684
1997 LZ ₄	1997 07 01.27005	15 43 58.68	-17 05 12.2		I 684
1997 LA ₅	1997 06 29.32867	20 00 32.47	-20 23 19.6		684
1997 LA ₅	1997 06 29.33398	20 00 32.16	-20 23 23.5	18.0 R	684
1997 LA ₅	1997 07 09.30905	19 52 42.68	-22 12 31.3		684
1997 LA ₅	1997 07 09.31359	19 52 42.43	-22 12 34.2		684
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1997 LA ₅	1997 07 11.31626	19 50 55.91	-22 35 14.6		684	1997 NY	1997 07 03.33742	20 08 08.45	-17 20 02.7		684
1997 LX ₅	1997 06 30.32215	19 59 38.05	-18 39 08.8	17.8 R	684	1997 NY	1997 07 04.27825	20 07 14.63	-17 20 05.9	17.1 R	684
1997 LX ₅	1997 06 30.32690	19 59 37.76	-18 39 10.3		684	1997 NY	1997 07 04.28934	20 07 13.96	-17 20 05.8	17.0 R	684
1997 LX ₅	1997 06 30.33073	19 59 37.60	-18 39 10.8		I 684	1997 NY	1997 07 04.29373	20 07 13.70	-17 20 06.2		684
1997 LX ₅	1997 07 01.28454	19 58 53.42	-18 42 06.8	17.9 R	684	1997 NY	1997 07 05.39778	20 06 08.87	-17 20 13.5	16.9 R	684
1997 LX ₅	1997 07 01.28867	19 58 53.20	-18 42 08.2		684	1997 NY	1997 07 05.40183	20 06 08.62	-17 20 13.4		684
1997 LX ₅	1997 07 01.29370	19 58 52.96	-18 42 09.1		684	1997 NY	1997 07 05.40623	20 06 08.34	-17 20 13.6		684
1997 MA ₁	1997 06 30.22997	15 34 34.36	-20 24 26.7		684	1997 NY	1997 07 06.37793	20 05 10.47	-17 20 23.8	17.1 R	684
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1997 MA ₁	1997 07 03.27689	15 32 39.38	-21 19 25.2		F 684	1997 NY	1997 07 09.39328	20 02 04.93	-17 21 11.2	17.2 R	684
1997 MA ₁	1997 07 03.28263	15 32 39.32	-21 19 30.5		F 684	1997 NY	1997 07 09.39652	20 02 04.70	-17 21 11.3		684
1997 MA ₁	1997 07 04.20062	15 32 10.47	-21 35 49.6		684	1997 NY	1997 07 09.40046	20 02 04.42	-17 21 11.8	I	684
1997 MA ₁	1997 07 04.21277	15 32 10.03	-21 36 03.9	19.2 R	684	1997 NY	1997 07 11.25285	20 00 07.17	-17 21 52.4	18.3 R	684
1997 MA ₁	1997 07 04.22025	15 32 09.82	-21 36 11.1		684	1997 NY	1997 07 11.25669	20 00 06.92	-17 21 52.4		684
1997 MR ₁	* 1997 06 30.25699	15 44 14.66	-17 01 13.3	17.6 R	684	1997 NY	1997 07 11.26019	20 00 06.66	-17 21 52.5		684
1997 MR ₁	1997 06 30.26125	15 44 14.61	-17 01 09.7		684	1997 NA ₁	* 1997 07 04.27825	20 06 25.69	-17 23 48.5	17.4 R	684
1997 MR ₁	1997 06 30.27704	15 44 14.41	-17 00 56.4		684	1997 NA ₁	1997 07 04.28934	20 06 25.25	-17 23 49.4		684
1997 MR ₁	1997 07 01.24701	15 44 05.03	-16 47 30.1	17.4 R	684	1997 NA ₁	1997 07 04.29373	20 06 25.09	-17 23 50.1		684
1997 MR ₁	1997 07 01.25045	15 44 05.00	-16 47 27.3		684	1997 NA ₁	1997 07 05.39778	20 05 40.52	-17 25 38.1	16.9 R	684
1997 MR ₁	1997 07 01.25550	15 44 04.95	-16 47 23.1		684	1997 NA ₁	1997 07 05.40183	20 05 40.39	-17 25 38.3		684
1997 MR ₁	1997 07 02.25584	15 43 57.23	-16 33 49.4		684	1997 NA ₁	1997 07 05.40623	20 05 40.24	-17 25 38.9		684
1997 MR ₁	1997 07 02.25955	15 43 57.17	-16 33 47.0		684	1997 NA ₁	1997 07 06.40023	20 04 59.26	-17 27 21.6	17.2 R	684
1997 MR ₁	1997 07 02.26741	15 43 57.13	-16 33 40.4	17.6 R	684	1997 NA ₁	1997 07 11.26552	20 01 26.92	-17 36 33.8		684
1997 MR ₁	1997 07 04.25259	15 43 48.01	-16 07 42.4	17.5 R	684	1997 NA ₁	1997 07 11.26911	20 01 26.72	-17 36 34.0		684
1997 MR ₁	1997 07 04.26212	15 43 47.95	-16 07 34.8		684	1997 NA ₁	1997 07 11.27238	20 01 26.58	-17 36 34.3	17.5 R	684
1997 MR ₁	1997 07 04.26633	15 43 47.95	-16 07 32.0		684	1997 NU ₁	* 1997 07 07.30640	19 57 28.13	-19 08 27.0	18.5 R	E 684
1997 MS ₁	* 1997 06 30.25699	15 44 51.83	-17 02 53.7	18.4 R	684	1997 NU ₁	1997 07 07.31773	19 57 27.54	-19 08 28.7	E	684
1997 MS ₁	1997 06 30.26125	15 44 51.78	-17 02 53.9		684	1997 NU ₁	1997 07 08.29443	19 56 39.35	-19 10 23.9		684
1997 MS ₁	1997 06 30.27704	15 44 51.55	-17 02 53.1		684	1997 NU ₁	1997 07 08.31289	19 56 38.35	-19 10 26.1		684
1997 MS ₁	1997 07 01.26140	15 44 41.53	-17 02 34.2	18.2 R	684	1997 NU ₁	1997 07 08.31884	19 56 38.06	-19 10 27.0	17.9 R	684
1997 MS ₁	1997 07 01.26590	15 44 41.43	-17 02 33.7		684	1997 NU ₁	1997 07 09.33094	19 55 47.36	-19 12 28.7	17.7 R	684
1997 MS ₁	1997 07 01.27005	15 44 41.40	-17 02 33.6		684	1997 NU ₁	1997 07 09.33712	19 55 46.99	-19 12 29.0		684
1997 MT ₁	* 1997 06 30.32215	19 59 40.36	-18 33 16.8		I 684	1997 NU ₁	1997 07 11.35733	19 54 04.03	-19 16 36.1		684
1997 MT ₁	1997 06 30.32690	19 59 40.21	-18 33 19.9		684	1997 NU ₁	1997 07 11.36440	19 54 03.65	-19 16 36.9		684
1997 MT ₁	1997 06 30.33073	19 59 40.11	-18 33 23.4	18.2 R	684	1997 NU ₁	1997 07 11.37138	19 54 03.29	-19 16 37.8	17.7 R	684
1997 MT ₁	1997 07 01.28454	19 59 12.10	-18 45 46.5	19.2 R	684	1997 NV ₁	* 1997 07 07.31194	19 58 51.49	-18 52 03.1	E	684
1997 MT ₁	1997 07 01.28867	19 59 11.97	-18 45 49.2		684	1997 NV ₁	1997 07 07.32321	19 58 50.95	-18 52 04.5	18.2 R	E 684
1997 MT ₁	1997 07 01.29370	19 59 11.83	-18 45 54.5	19.2 R	684	1997 NV ₁	1997 07 08.32690	19 58 02.38	-18 54 15.9	18.5 R	684
1997 MT ₁	1997 07 02.32545	19 58 39.64	-18 59 28.7		684	1997 NV ₁	1997 07 08.33253	19 58 02.08	-18 54 16.5		684
1997 MT ₁	1997 07 02.33192	19 58 39.41	-18 59 34.3	18.4 R	684	1997 NV ₁	1997 07 08.33822	19 58 01.82	-18 54 17.9		684
1997 MU ₁	* 1997 06 30.32215	19 59 53.04	-18 41 03.2	17.6 R	684	1997 NV ₁	1997 07 09.34550	19 57 12.34	-18 56 31.3	18.0 R	684
1997 MU ₁	1997 06 30.32690	19 59 52.80	-18 41 05.9		684	1997 NV ₁	1997 07 09.35156	19 57 12.04	-18 56 32.0		684
1997 MU ₁	1997 06 30.33073	19 59 52.60	-18 41 08.0		684	1997 NC ₃	* 1997 07 08.36491	20 01 39.68	-20 13 11.9	17.7 R	684
1997 MU ₁	1997 07 01.28454	19 59 05.00	-18 50 03.6		684	1997 NC ₃	1997 07 08.37485	20 01 39.21	-20 13 13.2		684
1997 MU ₁	1997 07 01.28867	19 59 04.77	-18 50 06.0		684	1997 NC ₃	1997 07 09.36273	20 00 53.66	-20 15 16.9	17.3 R	684
1997 MU ₁	1997 07 01.29370	19 59 04.58	-18 50 09.1	17.6 R	684	1997 NC ₃	1997 07 09.36672	20 00 53.47	-20 15 17.4		684
1997 MU ₁	1997 07 02.32545	19 58 11.79	-18 59 54.1		I 684	1997 NC ₃	1997 07 09.37079	20 00 53.27	-20 15 17.7		684
1997 MU ₁	1997 07 02.33192	19 58 11.50	-18 59 57.4	17.7 R	684	1997 NC ₃	1997 07 11.33872	19 59 20.97	-20 19 26.0	18.0 R	684
1997 MU ₁	1997 07 04.31926	19 56 26.91	-19 18 54.6		684	1997 NC ₃	1997 07 11.34280	19 59 20.77	-20 19 27.1		684
1997 MU ₁	1997 07 04.32346	19 56 26.50	-19 18 56.1		684	1997 NC ₃	1997 07 11.34711	19 59 20.54	-20 19 27.4		684
1997 MU ₁	1997 07 04.32780	19 56 26.33	-19 18 58.9		684	1997 ND ₃	* 1997 07 08.36491	20 01 44.12	-20 13 03.7	18.1 R	684

1997 ND ₃	1997 07 08.37485	20 01 43.60	-20 13 01.0		684	1952 QW	1997 06 10.41539	19 46 38.88	-19 00 42.3	17.2 V	689
1997 ND ₃	1997 07 09.36273	20 00 49.92	-20 09 25.1	18.7 R	684	1952 QW	1997 06 11.41243	19 46 18.55	-19 03 58.7	16.5 V	689
1997 ND ₃	1997 07 09.36672	20 00 49.71	-20 09 24.4		684	1971 UN	1997 04 08.37252	14 36 22.27	-14 13 59.3	17.0 V	689
1997 ND ₃	1997 07 09.37079	20 00 49.48	-20 09 23.6		684	1971 UN	1997 04 09.36923	14 35 33.02	-14 12 45.8	16.5 V	689
1997 NE ₃	* 1997 07 08.37000	20 01 45.02	-20 33 20.2		684	1974 QM ₂	1997 04 26.26716	13 14 59.11	-17 05 30.5	15.7 V	689
1997 NE ₃	1997 07 08.38052	20 01 44.35	-20 33 20.7	17.0 R	684	1974 QM ₂	1997 04 27.26372	13 13 57.84	-17 01 45.6	15.4 V	689
1997 NE ₃	1997 07 09.37766	20 00 41.60	-20 33 30.0	16.9 R	684	1974 QM ₂	1997 05 12.21389	13 01 22.05	-16 04 23.1	15.8 V	689
1997 NE ₃	1997 07 09.38171	20 00 41.32	-20 33 30.0		684	1974 QM ₂	1997 05 13.21075	13 00 45.82	-16 00 53.2	15.8 V	689
1997 NE ₃	1997 07 09.38626	20 00 41.02	-20 33 29.9		684	1974 QM ₂	1997 05 25.17491	12 56 19.96	-15 27 42.8	16.0 V	689
1997 NE ₃	1997 07 11.32295	19 58 37.74	-20 33 48.5	17.2 R	684	1974 QM ₂	1997 05 27.16930	12 56 06.43	-15 24 06.4	16.2 V	689
1997 NE ₃	1997 07 11.32772	19 58 37.41	-20 33 48.6		684	1975 EA ₃	1997 05 26.26185	15 05 47.94	-20 48 37.2	15.3 V	689
1997 NE ₃	1997 07 11.33302	19 58 37.08	-20 33 48.7		I 684	1975 EA ₃	1997 05 27.25853	15 04 57.34	-20 46 55.9	15.6 V	689
1997 NH ₃	* 1997 07 09.30905	19 52 22.17	-22 09 41.9		684	1975 LF ₁	1997 04 09.47384	17 06 35.08	-38 11 48.9	17.1 V	689
1997 NH ₃	1997 07 09.31359	19 52 21.86	-22 09 45.9		684	1975 RA ₂	1997 05 26.22244	14 08 53.45	-31 08 58.4	16.6 V	689
1997 NH ₃	1997 07 09.31773	19 52 21.64	-22 09 49.1	17.8 R	684	1975 UE	1997 05 12.35854	16 30 13.81	-18 20 47.0	16.2 V	689
1997 NH ₃	1997 07 11.27883	19 50 26.77	-22 37 58.7	17.8 R	684	1975 UE	1997 05 13.35524	16 29 24.48	-18 17 35.9	16.4 V	689
1997 NH ₃	1997 07 11.28653	19 50 26.25	-22 38 05.6		684	1976 SS ₂	1997 06 23.29831	17 48 39.21	-29 31 21.3	15.3 V	689
1997 NH ₃	1997 07 11.29007	19 50 26.06	-22 38 08.7		684	1977 AW ₂	1997 04 08.34640	13 58 39.30	-15 41 46.3	16.5 V	689
1997 NJ ₃	* 1997 07 09.30905	19 53 02.62	-22 08 17.8		684	1977 AW ₂	1997 05 12.23461	13 31 16.37	-13 30 47.0	16.8 V	689
1997 NJ ₃	1997 07 09.31359	19 53 02.38	-22 08 20.1		684	1977 AW ₂	1997 05 13.23143	13 30 37.67	-13 27 05.3	16.6 V	689
1997 NJ ₃	1997 07 09.31773	19 53 02.20	-22 08 22.9	18.7 R	684	1977 AW ₂	1997 05 25.19432	13 24 21.26	-12 48 43.1	17.1 V	689
1997 NJ ₃	1997 07 11.29769	19 51 27.97	-22 28 10.6	18.8 R	684	1977 AW ₂	1997 05 26.19132	13 23 57.81	-12 46 08.5	17.0 V	689
1997 NJ ₃	1997 07 11.31626	19 51 27.02	-22 28 20.7		684	1977 AW ₂	1997 05 27.18833	13 23 35.84	-12 43 38.6	17.3 V	689
1997 NK ₃	* 1997 07 09.33094	19 56 06.40	-19 08 19.9	19.0 R	684	1978 OQ	1997 04 08.40643	15 25 19.43	-25 58 51.5	17.4 V	689
1997 NK ₃	1997 07 09.33712	19 56 06.02	-19 08 22.1		684	1978 OQ	1997 04 09.40334	15 24 48.66	-25 59 42.7	17.2 V	689
1997 NK ₃	1997 07 11.35733	19 54 10.45	-19 21 38.2		684	1978 OQ	1997 04 26.34889	15 13 00.85	-25 56 51.4	16.9 V	689
1997 NK ₃	1997 07 11.36440	19 54 09.93	-19 21 41.8		684	1978 SB ₃	1997 05 26.42388	18 59 45.74	-28 30 15.1	15.9 V	689
1997 NK ₃	1997 07 11.37138	19 54 09.59	-19 21 43.7	18.8 R	684	1978 SB ₃	1997 05 27.42088	18 59 22.88	-28 31 44.7	16.8 V	689
1997 NL ₃	* 1997 07 09.37766	20 00 26.54	-20 31 48.8	18.8 R	684	1978 UV	1997 03 27.20181	09 42 22.33	+22 42 25.6	16.2 V	689
1997 NL ₃	1997 07 09.38171	20 00 26.31	-20 31 49.3		684	1978 UV	1997 04 08.16812	09 41 12.91	+22 03 29.4	17.0 V	689
1997 NL ₃	1997 07 09.38626	20 00 26.07	-20 31 49.9		684	1978 UV	1997 04 09.16544	09 41 17.62	+21 59 26.4	16.7 V	689
1997 NL ₃	1997 07 11.32295	19 58 52.73	-20 36 22.9	18.2 R	684	1979 ML ₁	1997 06 10.45019	20 36 53.77	-16 25 14.2	17.1 V	689
1997 NL ₃	1997 07 11.32772	19 58 52.50	-20 36 23.5		684	1979 MZ ₆	1997 05 25.35574	17 17 26.22	-22 34 46.5	17.1 V	689
1997 NL ₃	1997 07 11.33302	19 58 52.24	-20 36 23.7		684	1979 MZ ₆	1997 06 23.25606	16 47 37.84	-20 53 43.9	17.3 V	689
1997 NM ₃	* 1997 07 09.39328	20 01 41.90	-17 16 08.0	17.8 R	684	1980 UL ₁	1997 05 26.20775	13 47 41.72	-14 33 59.9	16.6 V	689
1997 NM ₃	1997 07 09.39652	20 01 41.71	-17 16 08.8		684	1980 UL ₁	1997 05 27.20471	13 47 14.74	-14 28 10.4	16.0 V	689
1997 NM ₃	1997 07 09.40046	20 01 41.47	-17 16 09.7		684	1981 QF	1997 06 23.35891	19 16 09.17	-27 58 24.4	17.4 V	689
1997 NM ₃	1997 07 11.25285	19 59 56.79	-17 23 43.3	17.8 R	684	1981 RC ₅	1997 04 26.41654	16 50 41.49	-02 47 21.8	15.5 V	689
1997 NM ₃	1997 07 11.25669	19 59 56.55	-17 23 44.1		684	1981 RC ₅	1997 04 27.41361	16 50 23.70	-02 38 03.9	15.5 V	689
1997 NM ₃	1997 07 11.26019	19 59 56.36	-17 23 44.9		684	1981 RC ₅	1997 05 26.32155	16 32 00.52	+01 13 52.6	15.4 V	689
(4128)	1997 07 08.37000	20 01 34.23	-20 27 22.0		684	1981 RC ₅	1997 05 27.31822	16 31 09.05	+01 19 25.4	15.1 V	689
(4128)	1997 07 08.38052	20 01 33.59	-20 27 19.3	16.4 R	684	1981 UW ₂₁	1997 04 26.14539	10 19 09.91	+15 25 52.5	16.6 V	689
(6918)	1997 06 30.25699	15 44 48.76	-16 58 30.5	16.7 R	684	1981 UR ₂₇	1997 03 27.48091	16 25 23.70	-32 17 04.1	15.5 V	689
(6918)	1997 06 30.26125	15 44 48.68	-16 58 30.6		684	1981 UR ₂₇	1997 04 09.44671	16 27 25.24	-34 15 08.5	15.2 V	689
(6918)	1997 06 30.27704	15 44 48.39	-16 58 30.4		684	1982 RK	1997 04 08.19377	10 18 14.97	+17 17 38.9	16.6 V	689

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Measurers C. B. Luginbuhl, R. C. Stone

1.55-m astrometric reflector + CCD

USNO-A1.0

1982 RK	1997 04 08.19377	10 18 14.97	+17 17 38.9	16.6 V	689
1982 RK	1997 04 09.19091	10 18 04.02	+17 17 14.3	16.7 V	689
1983 BD	1997 03 27.15055	08 28 21.44	+27 25 32.1	16.8 V	689
1983 EV	1997 05 12.32778	15 45 48.53	-24 06 01.0	16.5 V	689
1983 EV	1997 05 13.32439	15 44 51.46	-24 04 19.2	16.4 V	689
1983 EV	1997 05 25.28373	15 33 27.03	-23 38 46.3	16.2 V	689
1983 EV	1997 05 26.28036	15 32 32.08	-23 36 17.0	16.4 V	689
1983 RT ₁	1997 04 27.27580	13 31 24.76	-15 21 07.9	16.9 V	689

1983 RR ₂	1997 04 08.39910	15 14 44.10	-23 56 08.4	16.8 V	689	1990 QA ₂	1997 04 09.29953	12 54 54.53	-08 09 32.3	16.8 V	689
1983 RR ₂	1997 04 09.39596	15 14 09.39	-23 59 02.7	16.2 V	689	1990 QD ₂	1997 05 25.44029	19 19 30.82	-20 35 26.8	16.0 V	689
1983 RR ₂	1997 04 27.33648	14 59 02.09	-24 28 11.5	15.4 V	689	1990 QD ₂	1997 05 27.43502	19 19 47.83	-20 35 43.7	15.8 V	689
1983 RX ₃	1997 05 27.19159	13 28 17.78	+06 13 26.7	16.9 V	689	1990 QD ₂	1997 06 10.39542	19 17 48.46	-20 47 50.9	16.0 V	689
1983 RR ₄	1997 04 08.42697	15 54 58.89	-03 21 44.0	17.2 V	689	1990 QD ₂	1997 06 11.39241	19 17 24.39	-20 49 24.7	15.1 V	689
1983 RR ₄	1997 04 09.42400	15 54 38.97	-03 13 08.2	17.1 V	689	1990 QD ₂	1997 06 23.35482	19 10 13.95	-21 14 03.7	15.0 V	689
1983 RR ₄	1997 06 23.18256	15 01 28.97	+02 27 29.4	16.7 V	689	1990 QD ₂	1997 06 24.35155	19 09 27.96	-21 16 31.9	14.8 V	689
1983 XG	1997 03 27.29505	11 56 59.13	-02 56 24.6	16.9 V	689	1990 QY ₂	1997 06 10.27998	16 31 07.59	-25 27 02.4	16.8 V	689
1984 BS	1997 03 27.21211	09 57 14.23	+21 06 57.6	16.8 V	689	1990 QL ₃	1997 05 27.28804	15 47 33.13	-30 00 19.3	16.4 V	689
1984 BS	1997 04 08.17833	09 55 57.72	+20 57 34.7	17.0 V	689	1990 QT ₄	1997 04 27.28065	13 38 24.79	-23 48 08.3	16.7 V	689
1985 JM	1997 03 27.35145	13 18 25.28	-13 10 07.1	16.4 V	689	1990 QT ₄	1997 05 12.22967	13 24 08.40	-23 10 37.5	17.4 V	689
1986 CB	1997 03 27.31510	12 25 55.22	+27 18 18.7	16.8 V	689	1990 QT ₄	1997 05 13.22638	13 23 20.06	-23 07 44.1	17.5 V	689
1986 CF ₂	1997 06 10.42706	20 03 29.73	-34 20 29.4	16.2 V	689	1990 RW ₃	1997 04 26.44000	17 24 35.08	-24 23 18.2	18.1 V	689
1986 CF ₂	1997 06 11.42395	20 02 56.48	-34 20 54.1	16.3 V	689	1990 RW ₃	1997 05 26.34673	17 08 22.03	-24 45 16.9	15.8 V	689
1986 JD	1997 05 13.44458	18 38 24.64	-16 15 58.1	16.5 V	689	1990 RW ₃	1997 05 27.34334	17 07 24.61	-24 45 18.4	15.0 V	689
1986 SC ₂	1997 05 26.25325	14 53 24.04	-15 14 54.0	16.1 V	689	1990 RM ₅	1997 06 24.37990	19 50 23.50	-22 26 56.4	16.4 V	689
1986 SC ₂	1997 05 27.25004	14 52 42.11	-15 04 39.9	15.6 V	689	1990 SL	1997 05 12.36869	16 44 52.66	-06 50 18.1	15.6 V	689
1986 SC ₂	1997 06 10.20682	14 45 29.92	-12 58 07.4	16.2 V	689	1990 SL	1997 05 13.36524	16 43 50.30	-07 03 00.6	15.2 V	689
1987 DH ₆	1997 06 24.43343	21 07 41.08	-15 13 44.6	17.0 V	689	1990 SL	1997 05 27.31464	16 25 58.99	-10 38 23.9	14.9 V	689
1987 RC ₁	1997 05 13.18250	12 19 58.44	-01 36 59.8	17.1 V	689	1990 SY	1997 04 08.22141	10 58 10.01	+00 52 12.4	17.4 V	689
1987 SO	1997 04 08.40349	15 21 04.90	-26 40 24.2	16.5 V	689	1990 SY ₂	1997 03 27.17949	09 10 07.97	+19 24 32.5	16.9 V	689
1987 SO	1997 04 09.40047	15 20 39.44	-26 41 07.1	16.2 V	689	1990 TK ₃	1997 04 27.37102	15 48 55.29	-29 23 24.1	17.0 V	689
1987 SO	1997 04 26.34587	15 08 38.96	-26 24 12.3	15.8 V	689	1990 TK ₃	1997 05 13.31555	15 32 04.73	-29 59 41.1	16.9 V	689
1987 SO	1997 04 27.34248	15 07 41.86	-26 21 24.7	15.4 V	689	1990 TA ₁₃	1997 03 27.17670	09 06 07.63	+30 17 01.6	16.4 V	689
1987 SO	1997 05 12.29025	14 51 37.28	-25 13 57.6	15.5 V	689	1990 UR	1997 06 11.37491	18 52 07.54	-25 59 12.2	17.0 V	689
1987 SO	1997 05 13.28675	14 50 30.30	-25 07 59.7	15.2 V	689	1990 UG ₄	1997 06 10.18345	14 11 45.23	+00 12 38.6	16.5 V	689
1987 SO	1997 05 25.24528	14 37 56.10	-23 47 17.3	15.8 V	689	1990 UT ₅	1997 04 26.19329	11 28 19.57	+10 22 01.3	16.4 V	689
1987 SO	1997 05 26.24190	14 37 00.24	-23 40 07.1	15.5 V	689	1990 UT ₅	1997 04 27.19039	11 28 04.50	+10 22 06.0	16.4 V	689
1987 SO	1997 05 27.23854	14 36 05.60	-23 32 54.3	15.5 V	689	1990 UT ₅	1997 05 13.14596	11 27 12.62	+10 01 00.9	17.2 V	689
1987 SC ₆	1997 05 25.22272	14 05 21.53	-11 11 25.2	16.9 V	689	1990 WP ₄	1997 05 12.26187	14 10 38.97	+00 21 05.2	15.5 V	689
1988 BW	1997 04 27.21871	12 08 58.30	-18 17 15.5	16.2 V	689	1990 WP ₄	1997 06 11.17040	13 56 50.50	-01 27 21.4	16.5 V	689
1988 KA	1997 05 25.20101	13 34 01.59	-04 49 53.5	15.9 V	689	1991 AB	1997 05 26.33895	16 57 08.50	-07 13 32.9	17.4 V	689
1988 QD ₁	1997 05 12.42295	18 03 13.81	-21 52 46.7	15.2 V	689	1991 AD	1997 04 09.44196	16 20 34.35	-26 21 09.7	17.4 V	689
1988 QD ₁	1997 05 13.42019	18 03 10.77	-21 41 48.3	15.1 V	689	1991 AD	1997 04 26.39024	16 12 43.98	-25 54 50.7	17.3 V	689
1988 US	1997 04 08.25206	11 42 25.93	-04 33 46.1	16.5 V	689	1991 AA ₁	1997 05 27.29158	15 52 40.29	-17 12 26.4	17.3 V	689
1988 US	1997 04 09.24879	11 41 38.84	-04 27 44.1	17.2 V	689	1991 BH ₂	1997 04 27.22480	12 17 45.69	-12 13 01.5	16.0 V	689
1989 GJ ₂	1997 06 10.41017	19 39 06.84	-12 32 11.5	17.5 V	689	1991 ES ₁	1997 06 10.45297	20 40 55.28	-03 16 31.8	17.0 V	689
1989 GG ₄	1997 06 24.23144	16 16 01.46	-14 33 19.2	16.8 V	689	1991 ES ₁	1997 06 24.41199	20 36 42.56	-03 09 36.7	16.8 V	689
1989 GD ₅	1997 03 27.29787	12 01 03.06	+14 42 21.6	15.6 V	689	1991 PY ₂	1997 03 27.12369	07 49 35.06	+21 31 31.6	16.9 V	689
1989 SF ₁	1997 06 10.45631	20 45 44.12	-08 19 18.0	17.1 V	689	1991 PF ₁₀	1997 06 10.39932	19 23 26.38	-19 01 08.1	17.6 V	689
1989 SW ₂	1997 04 08.35751	14 14 41.78	-05 03 01.8	15.6 V	689	1991 PF ₁₀	1997 06 11.39617	19 22 50.55	-19 02 19.3	17.8 V	689
1989 SW ₂	1997 04 09.35428	14 13 58.11	-04 59 37.7	15.1 V	689	1991 PX ₁₇	1997 03 27.21760	10 05 09.79	+15 05 03.2	16.4 V	689
1989 TT ₁₁	1997 04 08.32884	13 33 17.56	-09 43 15.6	16.0 V	689	1991 PX ₁₇	1997 04 08.18126	10 00 12.14	+14 47 21.2	16.8 V	689
1989 TT ₁₁	1997 04 09.32557	13 32 31.04	-09 38 17.8	16.2 V	689	1991 PX ₁₇	1997 04 09.17839	09 59 59.32	+14 44 53.6	16.9 V	689
1989 YO ₅	1997 06 10.17727	14 02 48.72	-09 41 31.2	16.6 V	689	1991 RM ₂	1997 05 26.21656	14 00 24.59	-00 38 29.2	17.0 V	689
1989 YO ₅	1997 06 11.17444	14 02 40.61	-09 42 11.3	16.7 V	689	1991 RM ₂	1997 05 27.21342	13 59 49.11	-00 36 11.3	17.3 V	689
1990 DM ₃	1997 04 08.32503	13 27 47.68	-13 00 17.9	16.2 V	689	1991 RF ₂₉	1997 05 13.15156	11 35 17.71	-12 57 16.9	16.7 V	689
1990 DM ₃	1997 04 09.32157	13 26 44.35	-12 57 24.5	16.2 V	689	1991 SX ₁	1997 04 27.40464	16 37 28.26	-25 13 09.0	16.9 V	689
1990 EF ₇	1997 05 12.42624	18 07 58.57	-21 03 41.4	19.3 V	689	1991 SX ₁	1997 05 12.35530	16 25 32.73	-24 59 43.6	15.9 V	689
1990 FR ₁	1997 06 10.38854	19 07 52.63	-18 18 02.1	17.6 V	689	1991 SX ₁	1997 05 13.35188	16 24 33.19	-24 58 02.4	16.2 V	689
1990 FR ₁	1997 06 11.38538	19 07 15.60	-18 22 39.4	16.4 V	689	1991 SX ₁	1997 05 26.30671	16 10 34.79	-24 26 52.4	15.6 V	689
1990 QA ₂	1997 04 08.30285	12 55 46.39	-08 14 37.4	16.9 V	689	1991 SX ₁	1997 05 27.30321	16 09 28.46	-24 23 53.0	15.8 V	689

1991 TE ₁	1997 04 26.21151	11 54 37.84	+24 05 07.7	16.5 V	689	1993 HK ₁	1997 05 26.41793	18 51 10.96	+01 26 20.8	15.1 V	689
1991 TE ₁	1997 04 27.20855	11 54 17.98	+23 58 51.2	16.8 V	689	1993 HK ₁	1997 05 27.41521	18 51 12.61	+01 50 40.1	14.3 V	689
1991 TJ ₂	1997 05 25.37586	17 46 28.69	-27 52 13.9	15.3 V	689	1993 HK ₁	1997 06 10.37484	18 48 06.42	+07 28 52.5	13.7 V	689
1991 TJ ₂	1997 05 26.37270	17 45 51.70	-27 58 47.8	14.7 V	689	1993 HK ₁	1997 06 11.37179	18 47 38.97	+07 52 10.3	14.0 V	689
1991 TV ₄	1997 06 23.36255	19 21 24.40	-19 17 43.5	15.6 V	689	1993 HH ₇	1997 06 24.38473	19 57 22.22	-25 04 28.3	15.6 V	689
1991 TV ₄	1997 06 24.35929	19 20 37.96	-19 20 57.5	14.8 V	689	1993 OU ₇	1997 06 24.22198	16 02 21.73	-17 35 30.4	16.8 V	689
1991 TO ₁₃	1997 05 12.40965	17 44 01.55	-17 28 58.2	15.6 V	689	1993 TG	1997 05 26.46070	19 52 56.57	-07 52 54.1	15.9 V	689
1991 UZ	1997 03 27.22666	10 18 14.32	+09 49 15.9	16.6 V	689	1994 NT ₁	1997 03 27.14223	08 16 21.12	+25 23 41.6	17.0 V	689
1991 UE ₃	1997 05 12.28670	14 46 29.30	-08 18 16.6	14.7 V	689	1994 PL	1997 05 26.30972	16 14 55.64	-02 39 03.2	16.2 V	689
1991 VH	1997 04 09.22256	11 03 44.79	+41 33 23.7	17.1 V	689	1994 PL	1997 05 27.30629	16 13 55.31	-02 21 22.4	16.1 V	689
1991 VO	1997 05 27.33138	16 50 09.19	-15 22 39.1	16.1 V	689	1994 QW	1997 04 08.49250	17 29 36.38	-12 12 11.0	17.7 V	689
1991 VO	1997 06 11.28024	16 35 26.59	-14 26 46.2	16.2 V	689	1994 UA ₂	1997 04 08.31783	13 17 23.65	-13 10 11.2	17.0 V	689
1991 VF ₄	1997 04 08.25981	11 53 37.24	+12 24 20.6	16.6 V	689	1994 UA ₂	1997 04 09.31459	13 16 39.81	-13 03 40.8	17.0 V	689
1991 VF ₄	1997 04 09.25654	11 52 50.78	+12 27 08.0	17.1 V	689	1994 XQ	1997 06 11.45121	20 42 18.76	-09 17 33.4	16.9 V	689
1991 XU	1997 06 11.18047	14 11 22.56	-28 55 04.4	16.5 V	689	1994 XE ₆	1997 06 10.43712	20 18 01.25	-22 40 17.5	16.6 V	689
1992 CH	1997 04 27.40933	16 44 15.34	-39 45 11.9	17.3 V	689	1995 UW ₈	1997 03 27.28410	11 41 10.36	+23 56 49.3	15.8 V	689
1992 DZ	1997 04 26.46702	18 03 35.14	-04 50 29.4	16.9 V	689	1995 UW ₈	1997 04 09.24162	11 31 17.25	+23 42 56.6	15.8 V	689
1992 DS ₆	1997 04 08.33693	13 44 58.30	-17 11 41.7	15.1 V	689	1995 VU ₁	1997 04 09.30352	13 00 40.21	+14 36 38.8	14.8 V	689
1992 EQ ₈	1997 04 26.16202	10 43 10.78	+12 37 23.6	17.2 V	689	1995 WU	1997 06 23.27255	17 11 26.51	-23 59 12.5	17.3 V	689
1992 EZ ₉	1997 06 10.21759	15 01 02.11	-11 11 22.2	17.3 V	689	1995 WZ ₃	1997 06 11.31112	17 20 01.46	-27 45 41.2	13.6 V	689
1992 EZ ₉	1997 06 11.21452	15 00 32.86	-11 09 55.6	17.2 V	689	1995 XT	1997 03 27.31851	12 30 51.98	+00 13 41.7	16.2 V	689
1992 EQ ₁₅	1997 03 27.27027	11 21 12.29	+03 55 43.4	17.1 V	689	1995 XN ₁	1997 04 26.24551	12 43 42.94	+15 57 30.2	15.3 V	689
1992 FS	1997 04 08.46449	16 49 09.86	-24 57 06.8	17.0 V	689	1995 XN ₁	1997 05 12.19558	12 34 55.27	+14 19 39.9	16.1 V	689
1992 FS	1997 04 09.46190	16 49 21.46	-25 00 34.7	16.9 V	689	1995 XN ₁	1997 05 13.19263	12 34 36.00	+14 11 35.3	16.0 V	689
1992 FE ₁	1997 05 12.33534	15 56 43.37	-21 24 09.8	16.0 V	689	1995 XN ₁	1997 05 25.15873	12 32 57.47	+12 20 16.6	16.5 V	689
1992 FE ₁	1997 05 13.33197	15 55 47.85	-21 23 03.4	16.2 V	689	1995 XN ₁	1997 05 26.15602	12 33 00.21	+12 09 56.5	16.4 V	689
1992 PD ₂	1997 06 10.40726	19 34 55.02	-10 41 20.2	13.0 V	689	1995 XN ₁	1997 05 27.15334	12 33 04.49	+11 59 28.8	16.3 V	689
1992 PD ₂	1997 06 23.36739	19 28 23.17	-10 11 52.4	15.7 V	689	1995 YM	1997 06 10.16986	13 52 07.39	+10 36 49.9	16.2 V	689
1992 PD ₂	1997 06 24.36422	19 27 44.58	-10 10 32.7	15.6 V	689	1995 YM	1997 06 11.16712	13 52 06.09	+10 26 37.6	16.0 V	689
1992 RF ₇	1997 06 11.43065	20 12 37.01	-26 38 28.2	17.6 V	689	1995 YC ₃	1997 04 08.34940	14 02 59.39	-07 49 13.3	16.5 V	689
1992 SD ₁₃	1997 06 10.44738	20 32 50.62	-02 01 55.7	16.8 V	689	1995 YC ₃	1997 04 09.34617	14 02 15.33	-07 44 58.2	16.5 V	689
1992 SD ₁₃	1997 06 11.44459	20 32 45.50	-01 57 04.2	16.8 V	689	1996 AB ₁	1997 04 09.36530	14 29 52.86	-09 39 43.9	17.1 V	689
1992 SD ₁₃	1997 06 23.41009	20 30 01.78	-01 09 36.6	16.7 V	689	1996 AB ₁	1997 04 26.30987	14 16 39.50	-08 29 24.8	16.7 V	689
1992 UU ₂	1997 03 27.19452	09 31 50.78	+24 22 02.9	17.2 V	689	1996 AL ₂	1997 06 11.21015	14 54 14.86	+01 25 18.1	16.1 V	689
1993 BF	1997 04 26.17139	10 56 42.47	-05 17 41.4	17.1 V	689	1996 AL ₂	1997 06 23.17525	14 50 56.24	-00 22 38.4	16.0 V	689
1993 BF	1997 04 27.16852	10 56 29.72	-05 14 25.6	17.0 V	689	1996 BX ₁	1997 06 23.32784	18 31 16.33	-17 36 32.5	17.3 V	689
1993 BJ ₃	1997 05 27.29893	16 03 17.32	-18 43 10.1	17.2 V	689	1996 BK ₂	1997 05 25.15091	12 21 40.58	+09 10 20.1	16.6 V	689
1993 DB ₁	1997 05 27.41083	18 44 52.13	-22 57 35.2	15.6 V	689	1996 BQ ₃	1997 05 13.29758	15 06 08.51	-17 55 21.6	17.4 V	689
1993 DD ₂	1997 04 26.15326	10 30 31.92	+16 56 27.9	16.2 V	689	1996 BV ₃	1997 06 24.39797	20 16 28.83	-24 38 30.0	15.3 V	689
1993 DD ₂	1997 04 27.15057	10 30 35.83	+16 48 39.3	16.8 V	689	1996 CK ₂	1997 04 08.44159	16 16 05.38	-31 37 11.5	16.9 V	689
1993 FQ	1997 06 11.27734	16 31 15.30	-14 05 12.8	15.9 V	689	1996 CK ₂	1997 04 27.38322	16 06 32.42	-32 56 56.7	16.3 V	689
1993 FB ₁	1997 03 27.30392	12 09 47.48	+13 55 37.7	14.7 V	689	1996 EU ₂	1997 04 08.21197	10 44 32.12	-14 34 23.8	16.5 V	689
1993 FN ₁	1997 03 27.24107	10 39 02.38	+13 14 29.1	16.7 V	689	1996 EU ₂	1997 04 09.20897	10 44 09.40	-14 28 01.1	16.2 V	689
1993 FN ₁	1997 04 08.20393	10 32 56.10	+14 08 56.1	17.2 V	689	1996 FU ₁₃	1997 05 13.41023	17 48 47.70	-29 41 50.7	16.7 V	689
1993 FN ₁	1997 04 09.20095	10 32 34.25	+14 12 18.6	17.1 V	689	1997 EW ₄₅	1997 05 27.17220	13 00 18.23	+04 19 16.7	17.1 V	689
1993 FA ₅	1997 06 10.35089	18 13 30.90	-13 22 42.5	17.4 V	689	3083 P-L	1997 05 12.31596	15 28 44.41	-27 13 03.4	15.6 V	689
1993 FA ₅	1997 06 11.34748	18 12 31.95	-13 22 23.5	16.2 V	689	3083 P-L	1997 05 13.31258	15 27 48.09	-27 06 46.0	15.4 V	689
1993 FA ₅	1997 06 23.30623	18 00 04.28	-13 25 18.4	17.0 V	689	3083 P-L	1997 06 10.22095	15 05 53.22	-23 35 49.3	15.7 V	689
1993 FV ₇	1997 05 12.41528	17 52 08.67	-31 14 03.5	14.4 V	689	3083 P-L	1997 06 11.21791	15 05 26.51	-23 28 22.5	15.7 V	689
1993 FU ₁₇	1997 06 23.26269	16 57 12.85	-29 46 15.3	16.5 V	689	4665 P-L	1997 05 12.30181	15 08 18.22	-18 52 27.6	16.9 V	689
1993 FV ₃₂	1997 04 09.45395	16 37 53.20	-18 00 29.7	17.4 V	689	7610 P-L	1997 05 27.40427	18 35 23.84	-19 11 09.9	17.9 V	689
1993 GO	1997 05 25.21969	14 00 59.67	-06 54 52.6	15.9 V	689	7610 P-L	1997 06 23.31361	18 10 43.52	-20 13 00.4	16.6 V	689

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1181 T-1	1997 06 10.33033	17 43 49.28	-28 19 15.5	16.3 V	689	(42)	1997 06 10.20140	14 37 39.55	-08 26 21.6	11.3 V	689
1181 T-1	1997 06 11.32696	17 42 53.87	-28 18 31.4	17.0 V	689	(42)	1997 06 11.19829	14 37 06.68	-08 29 34.1	11.1 V	689
3036 T-1	1997 04 08.41864	15 42 57.37	-11 42 42.8	17.1 V	689	(42)	1997 06 23.16276	14 32 54.20	-09 19 45.1	11.3 V	689
4192 T-1	1997 06 10.43060	20 08 36.55	-24 30 41.9	17.4 V	689	(76)	1997 03 27.42756	15 08 19.74	-16 56 21.6	13.8 V	689
4192 T-1	1997 06 11.42775	20 08 25.89	-24 34 20.3	17.3 V	689	(76)	1997 04 08.39101	15 03 04.00	-16 28 20.4	14.0 V	689
4192 T-1	1997 06 23.39182	20 03 40.40	-25 24 21.4	17.0 V	689	(76)	1997 04 09.38791	15 02 31.56	-16 25 33.7	14.0 V	689
2086 T-2	1997 05 13.17028	12 02 20.18	-05 12 53.6	16.0 V	689	(76)	1997 04 26.33411	14 51 39.99	-15 30 32.5	13.4 V	689
4190 T-3	1997 03 27.11957	07 43 38.80	+32 09 56.8	17.2 V	689	(76)	1997 04 27.33089	14 50 57.67	-15 26 58.6	13.5 V	689
(2)	1997 05 27.46090	19 57 09.98	+19 16 13.1	10.0 V	689	(76)	1997 05 12.28242	14 40 18.60	-14 32 45.1	13.7 V	689
(2)	1997 06 10.41924	19 52 12.11	+20 29 43.2	9.8 V	689	(76)	1997 05 13.27921	14 39 37.48	-14 29 13.7	13.7 V	689
(2)	1997 06 11.41616	19 51 42.47	+20 33 37.0	9.9 V	689	(76)	1997 05 25.24121	14 32 04.10	-13 50 02.9	13.8 V	689
(2)	1997 06 23.37861	19 44 32.33	+21 03 23.0	9.7 V	689	(76)	1997 05 26.23810	14 31 30.51	-13 47 07.2	13.9 V	689
(2)	1997 06 24.37540	19 43 50.98	+21 04 20.4	9.7 V	689	(76)	1997 05 27.23499	14 30 57.67	-13 44 15.3	14.0 V	689
(6)	1997 03 27.26635	11 15 32.60	+17 43 41.8	9.9 V	689	(76)	1997 06 10.19251	14 24 49.01	-13 11 49.5	14.2 V	689
(6)	1997 04 08.22809	11 07 48.76	+18 41 57.0	10.1 V	689	(76)	1997 06 11.18955	14 24 29.85	-13 10 07.2	14.3 V	689
(6)	1997 04 09.22500	11 07 17.74	+18 45 19.0	10.0 V	689	(85)	1997 03 27.16422	08 48 05.04	+04 41 01.7	12.8 V	689
(6)	1997 04 26.17506	11 02 00.05	+19 09 34.4	10.5 V	689	(85)	1997 04 09.12898	08 48 38.78	+05 44 42.5	12.9 V	689
(6)	1997 04 27.17225	11 01 53.97	+19 09 12.3	10.5 V	689	(91)	1997 03 27.19110	09 26 53.72	+16 53 39.5	12.9 V	689
(14)	1997 05 27.42918	19 11 21.64	-23 31 02.6	10.2 V	689	(91)	1997 04 08.15843	09 27 13.53	+16 36 24.6	12.9 V	689
(14)	1997 06 11.38178	19 02 03.63	-24 45 39.7	9.9 V	689	(91)	1997 04 09.15584	09 27 25.94	+16 34 10.2	13.0 V	689
(14)	1997 06 23.34155	18 51 04.84	-25 47 45.3	9.7 V	689	(109)	1997 06 24.45767	21 42 41.78	-23 39 38.2	13.6 V	689
(14)	1997 06 24.33813	18 50 04.76	-25 52 45.2	9.6 V	689	(141)	1997 03 27.22323	10 13 17.12	+03 21 36.3	13.1 V	689
(15)	1997 04 26.47611	18 16 44.08	-32 36 09.0	10.2 V	689	(141)	1997 04 08.18645	10 07 41.22	+03 44 26.4	13.3 V	689
(15)	1997 05 13.42699	18 12 59.46	-32 42 25.9	9.9 V	689	(141)	1997 04 09.18349	10 07 21.93	+03 45 49.8	13.4 V	689
(15)	1997 05 25.38903	18 05 30.11	-32 37 41.5	9.7 V	689	(141)	1997 04 26.13581	10 05 20.53	+03 55 24.0	13.7 V	689
(15)	1997 05 26.38576	18 04 42.90	-32 36 46.5	9.7 V	689	(141)	1997 04 27.13314	10 05 25.11	+03 55 06.6	13.7 V	689
(15)	1997 05 27.38247	18 03 54.34	-32 35 45.9	9.6 V	689	(165)	1997 03 27.46566	16 03 21.91	-34 43 52.5	13.2 V	689
(15)	1997 06 10.33504	17 50 37.49	-32 10 28.2	9.4 V	689	(165)	1997 04 08.43204	16 02 17.39	-35 20 27.0	13.3 V	689
(15)	1997 06 11.33159	17 49 34.52	-32 07 47.8	9.4 V	689	(165)	1997 04 09.42912	16 02 01.53	-35 22 49.3	13.3 V	689
(15)	1997 06 23.29005	17 36 43.15	-31 26 36.4	9.2 V	689	(165)	1997 04 26.37707	15 53 42.67	-35 42 43.6	12.6 V	689
(15)	1997 06 24.28659	17 35 39.64	-31 22 27.7	9.2 V	689	(165)	1997 04 27.37386	15 53 01.09	-35 42 32.8	12.6 V	689
(16)	1997 03 27.23763	10 34 04.35	+10 12 15.0	10.9 V	689	(165)	1997 05 12.32432	15 40 47.74	-35 19 08.6	12.8 V	689
(16)	1997 04 08.20109	10 28 49.96	+10 48 21.1	11.1 V	689	(165)	1997 05 13.32097	15 39 54.05	-35 16 11.0	12.5 V	689
(16)	1997 04 09.19814	10 28 31.23	+10 50 33.0	11.1 V	689	(165)	1997 05 25.28074	15 29 07.63	-34 28 17.1	12.8 V	689
(16)	1997 04 26.15035	10 26 20.02	+11 08 26.9	11.4 V	689	(165)	1997 05 26.27741	15 28 15.49	-34 23 21.8	12.8 V	689
(16)	1997 04 27.14766	10 26 23.19	+11 08 23.0	11.4 V	689	(165)	1997 05 27.27408	15 27 23.87	-34 18 19.1	12.8 V	689
(29)	1997 03 27.37406	13 51 04.60	-15 48 41.9	9.9 V	689	(165)	1997 06 10.22851	15 16 47.95	-32 57 47.6	13.2 V	689
(29)	1997 04 08.33396	13 40 41.38	-15 23 40.7	9.6 V	689	(165)	1997 06 11.22535	15 16 10.61	-32 51 34.6	13.1 V	689
(29)	1997 04 09.33058	13 39 45.11	-15 20 51.8	9.6 V	689	(165)	1997 06 23.18880	15 10 30.54	-31 36 26.8	13.0 V	689
(29)	1997 04 26.27323	13 23 45.04	-14 22 32.3	9.7 V	689	(197)	1997 04 08.47266	17 00 57.51	-17 50 02.2	14.6 V	689
(29)	1997 04 27.26989	13 22 51.93	-14 18 47.6	9.6 V	689	(197)	1997 04 09.47002	17 01 05.83	-17 51 03.9	14.5 V	689
(29)	1997 05 12.22092	13 11 30.80	-13 25 44.8	10.0 V	689	(197)	1997 04 26.42250	16 59 18.09	-18 08 25.3	13.8 V	689
(29)	1997 05 13.21778	13 10 55.03	-13 22 39.6	10.1 V	689	(197)	1997 04 27.41952	16 58 56.88	-18 09 28.9	13.7 V	689
(29)	1997 05 25.18135	13 05 38.13	-12 53 01.8	10.4 V	689	(197)	1997 05 12.37259	16 50 30.87	-18 26 21.4	13.9 V	689
(29)	1997 05 26.17843	13 05 21.40	-12 51 15.7	10.4 V	689	(197)	1997 05 13.36934	16 49 45.74	-18 27 33.4	13.7 V	689
(29)	1997 05 27.17553	13 05 06.19	-12 49 36.6	10.4 V	689	(197)	1997 05 25.32940	16 39 23.84	-18 42 52.0	13.8 V	689
(42)	1997 04 08.41056	15 31 17.80	-09 08 17.1	11.5 V	689	(197)	1997 05 26.32601	16 38 26.92	-18 44 13.0	13.5 V	689
(42)	1997 04 09.40752	15 30 50.48	-09 06 03.2	11.4 V	689	(197)	1997 05 27.32262	16 37 29.52	-18 45 35.1	13.4 V	689
(42)	1997 05 12.29818	15 03 04.28	-07 59 18.2	10.6 V	689	(197)	1997 06 10.27494	16 23 50.87	-19 06 22.0	13.4 V	689
(42)	1997 05 13.29472	15 02 01.32	-07 58 19.6	10.6 V	689	(197)	1997 06 11.27156	16 22 54.24	-19 08 00.0	13.5 V	689
(42)	1997 05 26.25021	14 49 00.35	-07 57 03.6	11.0 V	689	(197)	1997 06 23.23185	16 12 40.14	-19 29 59.1	13.0 V	689
(42)	1997 05 27.24685	14 48 05.65	-07 57 56.1	10.9 V	689	(197)	1997 06 24.22861	16 11 55.97	-19 32 02.8	12.8 V	689

(201)	1997 04 26.47915	18 21 06.44	-15 34 46.4	12.6 V	689	(538)	1997 04 09.12518	08 43 09.87	+18 31 18.1	15.1 V	689
(201)	1997 04 27.47661	18 21 22.94	-15 32 03.7	12.5 V	689	(600)	1997 06 10.28802	16 42 44.43	-06 41 06.2	14.1 V	689
(201)	1997 05 12.43613	18 22 15.62	-14 54 15.8	12.0 V	689	(600)	1997 06 11.28470	16 41 52.62	-06 42 22.1	14.2 V	689
(201)	1997 05 13.43328	18 22 05.81	-14 52 01.6	12.1 V	689	(600)	1997 06 23.24554	16 32 25.50	-07 09 49.1	14.2 V	689
(201)	1997 05 26.39460	18 17 29.57	-14 27 53.1	11.8 V	689	(600)	1997 06 24.24233	16 31 44.28	-07 13 04.9	14.2 V	689
(201)	1997 05 27.39150	18 16 57.33	-14 26 28.2	11.8 V	689	(621)	1997 03 27.47268	16 13 29.49	-20 20 28.8	16.1 V	689
(201)	1997 06 10.34646	18 07 06.87	-14 14 45.3	11.6 V	689	(621)	1997 04 08.43830	16 11 20.84	-20 17 49.3	16.2 V	689
(201)	1997 06 11.34315	18 06 16.63	-14 14 32.6	11.6 V	689	(621)	1997 04 09.43535	16 11 01.67	-20 17 15.7	16.2 V	689
(201)	1997 06 23.30308	17 55 31.65	-14 18 58.0	11.4 V	689	(621)	1997 04 26.38325	16 02 37.55	-20 00 07.1	15.9 V	689
(201)	1997 06 24.29972	17 54 36.41	-14 19 55.1	11.5 V	689	(621)	1997 04 27.38007	16 01 58.62	-19 58 40.7	15.5 V	689
(307)	1997 06 10.39192	19 12 45.42	-21 57 00.9	14.9 V	689	(621)	1997 05 13.32799	15 50 02.92	-19 30 25.2	15.5 V	689
(307)	1997 06 11.38874	19 12 06.93	-21 59 30.2	14.5 V	689	(621)	1997 05 25.28850	15 40 20.54	-19 05 23.5	15.6 V	689
(307)	1997 06 23.34996	19 03 13.26	-22 31 07.2	13.9 V	689	(621)	1997 05 26.28522	15 39 33.01	-19 03 16.5	15.1 V	689
(307)	1997 06 24.34666	19 02 23.97	-22 33 51.1	14.1 V	689	(621)	1997 05 27.28194	15 38 45.76	-19 01 10.9	15.8 V	689
(323)	1997 05 26.45366	19 42 46.21	-20 15 58.1	13.8 V	689	(621)	1997 06 10.23676	15 28 42.88	-18 33 57.7	15.7 V	689
(323)	1997 05 27.45088	19 42 41.66	-20 24 38.5	13.8 V	689	(621)	1997 06 11.23360	15 28 05.43	-18 32 15.9	16.0 V	689
(413)	1997 03 27.35474	13 23 10.06	+19 25 57.8	15.4 V	689	(621)	1997 06 23.19667	15 21 52.74	-18 15 55.3	16.0 V	689
(413)	1997 04 08.31480	13 13 00.70	+20 33 00.4	15.1 V	689	(672)	1997 05 12.25769	14 04 35.66	-30 17 09.0	14.5 V	689
(413)	1997 04 09.31146	13 12 08.55	+20 37 21.9	15.0 V	689	(672)	1997 05 25.21446	13 53 25.77	-29 23 04.0	14.6 V	689
(413)	1997 04 26.25541	12 58 00.81	+21 17 58.9	15.6 V	689	(672)	1997 05 26.21126	13 52 45.31	-29 18 27.3	14.6 V	689
(413)	1997 04 27.25216	12 57 15.55	+21 18 21.2	15.6 V	689	(672)	1997 05 27.20809	13 52 06.58	-29 13 48.0	14.5 V	689
(428)	1997 05 13.16163	11 49 51.01	+01 32 11.5	16.1 V	689	(672)	1997 06 10.16595	13 46 27.77	-28 10 31.1	14.8 V	689
(471)	1997 03 27.11255	07 33 30.72	+34 42 03.8	11.6 V	689	(672)	1997 06 11.16311	13 46 18.67	-28 06 24.2	14.9 V	689
(487)	1997 04 08.36031	14 18 44.04	+02 27 51.1	12.5 V	689	(747)	1997 03 27.42417	15 03 25.31	+06 36 04.2	13.8 V	689
(487)	1997 04 26.30112	14 04 01.01	+03 52 22.2	12.5 V	689	(747)	1997 04 08.38706	14 57 21.31	+07 47 54.7	13.8 V	689
(487)	1997 04 27.29781	14 03 10.86	+03 55 48.2	12.4 V	689	(747)	1997 04 09.38392	14 56 45.84	+07 53 34.3	13.8 V	689
(487)	1997 05 12.24865	13 51 33.02	+04 26 30.2	12.5 V	689	(747)	1997 04 26.32976	14 45 22.40	+09 15 51.3	13.6 V	689
(487)	1997 05 13.24545	13 50 52.23	+04 27 04.8	12.5 V	689	(747)	1997 04 27.32654	14 44 39.18	+09 19 40.4	13.6 V	689
(487)	1997 05 25.20797	13 44 04.26	+04 19 35.8	12.8 V	689	(747)	1997 05 12.27796	14 33 52.65	+09 59 43.2	13.7 V	689
(487)	1997 05 26.20493	13 43 37.67	+04 17 48.5	12.8 V	689	(747)	1997 05 13.27475	14 33 11.19	+10 01 09.8	13.6 V	689
(487)	1997 05 27.20191	13 43 12.35	+04 15 50.9	12.8 V	689	(747)	1997 05 25.23668	14 25 31.35	+10 06 08.7	13.8 V	689
(487)	1997 06 11.15835	13 39 26.57	+03 27 16.1	13.0 V	689	(747)	1997 05 26.23355	14 24 56.90	+10 05 32.7	13.8 V	689
(488)	1997 03 27.41843	14 55 08.23	-02 14 45.6	12.3 V	689	(747)	1997 05 27.23043	14 24 23.11	+10 04 48.0	13.8 V	689
(488)	1997 04 08.38108	14 48 43.47	-01 39 52.4	12.3 V	689	(747)	1997 06 10.18770	14 17 52.62	+09 39 06.3	13.8 V	689
(488)	1997 04 09.37789	14 48 03.85	-01 37 07.2	12.4 V	689	(747)	1997 06 11.18472	14 17 31.18	+09 36 15.1	13.9 V	689
(488)	1997 04 26.32257	14 34 59.36	-01 00 53.5	11.9 V	689	(792)	1997 05 25.43248	19 08 14.48	-21 05 18.8	14.3 V	689
(488)	1997 04 27.31926	14 34 09.58	-00 59 36.7	11.9 V	689	(792)	1997 05 27.42637	19 07 17.95	-21 01 14.5	14.7 V	689
(488)	1997 05 12.26979	14 22 04.80	-00 55 46.5	12.3 V	689	(792)	1997 06 10.38178	18 58 06.86	-20 34 53.3	14.3 V	689
(488)	1997 05 13.26655	14 21 20.35	-00 56 38.1	12.4 V	689	(792)	1997 06 11.37849	18 57 18.42	-20 33 07.9	13.9 V	689
(488)	1997 05 25.22842	14 13 36.00	-01 18 16.2	12.8 V	689	(792)	1997 06 23.33841	18 46 32.83	-20 12 57.0	13.8 V	689
(488)	1997 05 26.22532	14 13 03.98	-01 20 59.8	12.8 V	689	(792)	1997 06 24.33502	18 45 35.25	-20 11 19.6	14.2 V	689
(488)	1997 05 27.22224	14 12 33.11	-01 23 51.7	12.8 V	689	(794)	1997 06 24.21225	15 48 18.44	-10 59 55.6	14.7 V	689
(488)	1997 06 10.18052	14 07 30.54	-02 17 37.5	13.1 V	689	(811)	1997 03 27.24619	10 46 25.77	+10 40 18.0	15.4 V	689
(488)	1997 06 11.17765	14 07 18.65	-02 22 22.4	13.1 V	689	(811)	1997 04 08.20916	10 40 29.15	+11 17 02.8	15.3 V	689
(512)	1997 05 12.46086	18 57 58.01	-16 39 34.3	14.0 V	689	(811)	1997 04 09.20617	10 40 06.99	+11 19 13.0	15.3 V	689
(512)	1997 05 13.45832	18 58 15.08	-16 40 37.6	13.7 V	689	(811)	1997 04 26.15782	10 37 07.19	+11 34 28.3	16.0 V	689
(534)	1997 05 12.22408	13 16 04.98	-03 28 13.6	14.3 V	689	(811)	1997 04 27.15510	10 37 08.27	+11 34 07.6	15.9 V	689
(534)	1997 05 13.22100	13 15 34.52	-03 26 31.0	14.3 V	689	(822)	1997 03 27.14755	08 24 01.24	+18 22 30.8	15.4 V	689
(534)	1997 05 25.18506	13 10 59.20	-03 16 13.0	14.6 V	689	(822)	1997 04 09.11959	08 35 05.45	+17 50 55.5	15.5 V	689
(534)	1997 05 26.18216	13 10 44.22	-03 16 14.5	14.5 V	689	(884)	1997 06 11.27449	16 27 07.58	-30 33 03.3	14.9 V	689
(534)	1997 05 27.17927	13 10 30.45	-03 16 23.9	14.5 V	689	(884)	1997 06 23.23732	16 20 34.44	-30 01 33.7	15.2 V	689
(538)	1997 03 27.15985	08 41 47.21	+18 21 51.5	15.1 V	689	(884)	1997 06 24.23425	16 20 05.23	-29 58 47.8	15.0 V	689

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(895)	1997 04 26.25247	12 53 45.72	-38 36 13.5	13.6 V	689	(2442)	1997 04 27.13618	10 09 49.11	+09 06 53.4	16.9 V	689
(895)	1997 04 27.24926	12 53 04.56	-38 27 04.2	13.8 V	689	(2749)	1997 04 26.35197	15 17 27.66	-18 35 00.4	17.2 V	689
(895)	1997 05 12.20254	12 44 57.92	-35 56 59.1	14.0 V	689	(2780)	1997 04 09.13192	08 52 53.45	+10 17 29.1	16.5 V	689
(895)	1997 05 13.19955	12 44 35.26	-35 46 29.2	13.8 V	689	(2893)	1997 05 12.31273	15 24 05.23	-02 16 05.1	15.4 V	689
(895)	1997 05 25.16485	12 41 47.70	-33 41 10.9	14.3 V	689	(2893)	1997 05 13.30964	15 23 33.50	-02 14 59.9	15.3 V	689
(895)	1997 05 26.16206	12 41 42.39	-33 30 59.4	14.2 V	689	(2893)	1997 05 25.27255	15 17 18.78	-02 07 34.4	15.6 V	689
(895)	1997 05 27.15928	12 41 38.41	-33 20 51.8	14.2 V	689	(2893)	1997 05 26.26947	15 16 48.64	-02 07 26.8	15.9 V	689
(968)	1997 05 12.45236	18 45 42.28	-10 01 50.3	14.6 V	689	(2893)	1997 05 27.26639	15 16 18.85	-02 07 24.4	15.9 V	689
(968)	1997 05 13.44947	18 45 28.16	-09 57 04.6	14.2 V	689	(2893)	1997 06 10.22381	15 10 01.41	-02 15 22.7	16.2 V	689
(968)	1997 05 27.40738	18 39 53.08	-08 56 34.5	13.8 V	689	(2893)	1997 06 11.22081	15 09 38.03	-02 16 34.2	15.8 V	689
(968)	1997 06 10.36275	18 30 38.38	-08 11 40.3	14.9 V	689	(2893)	1997 06 23.18550	15 05 44.48	-02 37 00.5	15.8 V	689
(968)	1997 06 24.31681	18 19 16.46	-07 47 12.8	14.5 V	689	(2937)	1997 05 13.15466	11 39 46.52	-28 04 04.1	17.2 V	689
(1391)	1997 03 27.18562	09 18 59.39	+25 19 46.5	14.8 V	689	(3015)	1997 03 27.45075	15 41 49.55	-22 29 59.1	15.9 V	689
(1391)	1997 04 08.15483	09 22 01.36	+24 51 48.9	15.0 V	689	(3015)	1997 04 08.41489	15 37 32.77	-23 04 55.2	16.3 V	689
(1391)	1997 04 09.15242	09 22 29.07	+24 48 17.8	14.8 V	689	(3015)	1997 04 09.41182	15 37 03.32	-23 07 29.5	16.3 V	689
(1598)	1997 06 23.16567	14 37 06.98	-25 39 41.0	15.6 V	689	(3015)	1997 04 27.35460	15 25 12.26	-23 43 29.7	15.9 V	689
(1805)	1997 03 27.18246	09 14 25.98	+19 26 12.5	15.3 V	689	(3015)	1997 05 13.30128	15 11 29.16	-23 57 39.7	15.3 V	689
(1805)	1997 04 08.15022	09 15 22.35	+19 12 09.7	16.0 V	689	(3068)	1997 05 12.29435	14 57 32.58	-22 52 54.6	15.2 V	689
(1839)	1997 03 27.36093	13 32 06.74	-00 44 13.9	16.4 V	689	(3068)	1997 05 13.29084	14 56 24.41	-22 51 31.7	15.4 V	689
(1839)	1997 04 08.32115	13 22 11.77	-00 04 39.4	15.2 V	689	(3068)	1997 05 25.24946	14 43 57.95	-22 30 18.4	15.4 V	689
(1839)	1997 04 09.31783	13 21 20.35	-00 01 38.3	15.0 V	689	(3068)	1997 05 26.24610	14 43 03.96	-22 28 21.4	15.0 V	689
(1839)	1997 04 26.26185	13 07 19.12	+00 37 59.0	16.0 V	689	(3068)	1997 05 27.24277	14 42 11.75	-22 26 23.3	15.5 V	689
(1839)	1997 04 27.25860	13 06 33.89	+00 39 27.5	16.3 V	689	(3068)	1997 06 10.19830	14 33 10.83	-22 02 15.1	16.1 V	689
(1978)	1997 06 23.21844	15 53 18.98	-23 34 11.6	14.9 V	689	(3107)	1997 03 27.28880	11 47 57.90	-01 34 59.9	17.1 V	689
(2060)	1997 04 08.34079	13 50 33.16	-11 30 20.4	15.9 V	689	(3107)	1997 04 08.24818	11 36 49.70	-00 18 55.1	17.0 V	689
(2060)	1997 04 09.33787	13 50 16.38	-11 28 23.8	15.9 V	689	(3107)	1997 04 09.24488	11 36 00.26	-00 13 03.6	16.0 V	689
(2060)	1997 04 26.28824	13 45 25.37	-10 54 34.4	15.7 V	689	(3134)	1997 06 11.31539	17 26 11.21	-22 26 48.8	16.9 V	689
(2060)	1997 04 27.28531	13 45 08.50	-10 52 35.7	15.7 V	689	(3134)	1997 06 23.27740	17 18 27.04	-22 09 47.6	17.4 V	689
(2060)	1997 05 12.24148	13 41 11.79	-10 24 21.9	16.0 V	689	(3227)	1997 03 27.30936	12 17 38.36	+01 57 53.5	14.4 V	689
(2060)	1997 05 13.23858	13 40 57.55	-10 22 37.5	16.0 V	689	(3227)	1997 04 08.26981	12 08 03.98	+03 18 40.4	14.1 V	689
(2060)	1997 05 25.20408	13 38 27.39	-10 03 44.8	16.1 V	689	(3227)	1997 04 09.26659	12 07 21.41	+03 24 25.1	14.2 V	689
(2060)	1997 05 26.20123	13 38 16.80	-10 02 22.0	16.1 V	689	(3227)	1997 04 26.21434	11 58 43.13	+04 31 27.3	15.0 V	689
(2060)	1997 05 27.19838	13 38 06.54	-10 01 00.6	16.1 V	689	(3227)	1997 04 27.21142	11 58 26.29	+04 33 26.8	14.9 V	689
(2060)	1997 06 10.15893	13 36 19.99	-09 45 44.5	15.3 V	689	(3227)	1997 05 13.16706	11 57 40.79	+04 36 46.3	15.1 V	689
(2066)	1997 04 26.46421	17 59 32.66	-18 55 57.1	15.7 V	689	(3247)	1997 03 27.16907	08 55 05.57	+23 16 39.7	16.1 V	689
(2066)	1997 04 27.46165	17 59 47.25	-18 55 30.8	15.5 V	689	(3247)	1997 04 09.13697	09 00 11.12	+22 18 31.3	16.5 V	689
(2066)	1997 05 12.42017	17 59 12.74	-18 52 52.8	15.1 V	689	(3274)	1997 04 08.46911	16 55 50.26	-23 26 49.7	17.0 V	689
(2066)	1997 05 13.41722	17 58 53.58	-18 53 01.1	15.2 V	689	(3274)	1997 04 09.46646	16 55 57.22	-23 27 36.1	16.6 V	689
(2066)	1997 05 25.38006	17 52 33.17	-18 58 14.5	15.1 V	689	(3622)	1997 04 08.37592	14 41 16.30	-20 00 58.2	16.3 V	689
(2066)	1997 05 27.37359	17 51 05.32	-18 59 44.6	14.9 V	689	(3622)	1997 04 09.37278	14 40 41.27	-19 58 06.0	17.1 V	689
(2066)	1997 06 10.32669	17 38 34.08	-19 14 52.5	14.6 V	689	(3622)	1997 04 26.31863	14 29 18.96	-18 56 57.0	15.6 V	689
(2066)	1997 06 23.28250	17 25 48.80	-19 34 58.3	14.9 V	689	(3622)	1997 04 27.31541	14 28 35.95	-18 52 44.7	15.5 V	689
(2066)	1997 06 24.27913	17 24 53.22	-19 36 43.1	14.5 V	689	(3731)	1997 04 09.45072	16 33 12.98	-35 46 00.7	15.3 V	689
(2241)	1997 06 10.26763	16 13 17.06	-28 09 20.5	15.1 V	689	(3731)	1997 04 26.39966	16 26 20.13	-35 07 05.7	15.0 V	689
(2241)	1997 06 11.26453	16 12 44.79	-28 05 48.4	14.8 V	689	(3835)	1997 04 27.27302	13 27 23.39	+00 51 52.9	15.9 V	689
(2241)	1997 06 23.22785	16 06 53.83	-27 22 38.6	15.3 V	689	(4037)	1997 05 25.26826	15 11 06.91	-26 33 19.3	16.0 V	689
(2241)	1997 06 24.22482	16 06 28.25	-27 19 01.8	14.8 V	689	(4082)	1997 03 27.27394	11 26 29.86	-10 58 56.4	16.9 V	689
(2269)	1997 03 27.15403	08 33 23.85	+37 40 33.2	15.1 V	689	(4082)	1997 04 08.23433	11 16 49.91	-09 46 13.6	16.9 V	689
(2321)	1997 06 24.32496	18 31 04.27	-32 00 52.9	15.7 V	689	(4082)	1997 04 09.23113	11 16 08.98	-09 40 11.1	17.2 V	689
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(2344)	1997 06 24.44616	21 26 03.74	-17 20 55.3	15.4 V	689	(4180)	1997 06 10.19541	14 29 00.30	-02 41 32.2	16.5 V	689

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(4212)	1997 03 27.49225	16 41 46.11	-32 37 28.5	17.2 V	689
(4459)	1997 04 08.25696	11 49 29.89	+03 36 31.6	15.8 V	689
(4570)	1997 04 09.14085	09 05 46.77	+17 47 00.0	15.7 V	689
(4610)	1997 06 10.29263	16 49 23.49	-18 17 42.5	15.6 V	689
(4610)	1997 06 11.28921	16 48 23.27	-18 17 31.7	16.1 V	689
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(4628)	1997 04 26.23741	12 32 01.68	-23 48 25.3	14.2 V	689
(4628)	1997 04 27.23429	12 31 27.66	-23 39 27.0	14.2 V	689
(4628)	1997 05 13.18672	12 26 03.61	-21 17 23.2	14.4 V	689
(4628)	1997 05 25.15447	12 26 49.07	-19 46 48.7	14.7 V	689
(4628)	1997 05 26.15191	12 27 03.63	-19 40 12.8	14.8 V	689
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(4709)	1997 05 13.42996	18 17 18.28	-15 56 37.3	14.9 V	689
(4831)	1997 04 08.23747	11 21 22.32	+04 34 18.3	15.7 V	689
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(4877)	1997 04 08.36564	14 26 26.04	-19 53 35.9	17.0 V	689
(4877)	1997 04 09.36240	14 25 41.92	-19 47 14.3	16.1 V	689
(4877)	1997 04 26.30655	14 11 51.87	-17 41 53.4	16.3 V	689
(4877)	1997 04 27.30324	14 11 01.43	-17 33 48.8	16.7 V	689
(4877)	1997 05 12.25399	13 59 15.83	-15 31 32.7	16.6 V	689
(4877)	1997 05 13.25078	13 58 34.42	-15 23 38.8	16.7 V	689
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(5343)	1997 06 10.40301	19 28 45.76	-29 03 47.4	16.3 V	689
(5511)	1997 06 24.26969	17 11 14.80	-08 45 03.7	15.8 V	689
(5530)	1997 04 08.42290	15 49 05.87	-25 45 56.1	17.1 V	689
(5530)	1997 04 27.36086	15 34 14.46	-26 36 19.1	15.8 V	689
(5530)	1997 05 12.30790	15 17 06.12	-26 37 25.9	16.4 V	689
(5530)	1997 05 13.30435	15 15 54.88	-26 36 17.2	16.1 V	689
(5530)	1997 05 26.25883	15 01 26.48	-26 11 32.9	16.7 V	689
(5530)	1997 05 27.25541	15 00 26.66	-26 09 03.9	16.8 V	689
(5605)	1997 06 24.30926	18 08 23.61	-31 18 46.2	15.3 V	689
(5892)	1997 04 26.17784	11 06 01.32	+09 33 40.2	16.7 V	689
(5892)	1997 04 27.17521	11 06 10.14	+09 33 04.1	16.7 V	689
(6064)	1997 06 10.29569	16 53 48.42	-10 53 14.6	15.1 V	689
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(6064)	1997 06 23.25298	16 43 10.47	-11 06 15.3	15.2 V	689
(6064)	1997 06 24.24978	16 42 30.05	-11 08 36.1	15.3 V	689
(6132)	1997 05 13.21387	13 05 16.95	-11 24 24.4	16.1 V	689
(6132)	1997 05 26.17545	13 01 03.08	-10 53 34.5	16.1 V	689
(6156)	1997 05 12.20863	12 53 45.50	-20 15 38.1	16.7 V	689

(6156)	1997 05 13.20560	12 53 19.62	-20 10 04.9	16.4 V	689
(6891)	1997 05 12.34705	16 13 38.17	-11 56 40.6	16.7 V	689
(6891)	1997 05 13.34375	16 12 49.05	-11 53 06.7	17.0 V	689
(6898)	1997 06 10.24726	15 43 53.05	-06 36 06.6	16.0 V	689
(6898)	1997 06 11.24401	15 43 07.59	-06 42 23.1	16.1 V	689
(6898)	1997 06 23.20637	15 35 52.05	-08 07 38.3	16.0 V	689
(6910)	1997 06 10.24266	15 37 13.83	-33 01 07.4	16.2 V	689
(6910)	1997 06 11.23941	15 36 28.84	-32 57 31.9	16.6 V	689
(6967)	1997 06 24.40626	20 28 27.46	-25 21 08.2	17.2 V	689
(7443)	1997 06 10.26127	16 04 06.06	-22 50 55.9	16.8 V	689
(7443)	1997 06 11.25800	16 03 19.32	-22 48 39.7	17.0 V	689
(7467)	1997 06 11.39937	19 27 26.93	-35 46 01.0	17.2 V	689
(7561)	1997 04 08.17416	09 49 56.77	+26 49 29.6	17.3 V	689
(7561)	1997 04 09.17144	09 49 57.15	+26 44 50.6	17.0 V	689
(7562)	1997 03 27.15689	08 37 30.43	+15 10 46.1	17.2 V	689
(7570)	1997 03 27.33480	12 54 22.89	-07 24 27.2	15.9 V	689
(7572)	1997 04 08.16299	09 33 49.18	+12 37 50.9	17.0 V	689
(7574)	1997 03 27.13876	08 11 21.19	+32 35 29.1	17.0 V	689
(7633)	1997 04 08.30975	13 05 43.50	-08 09 17.5	16.1 V	689
(7633)	1997 04 09.30643	13 04 53.19	-08 02 06.1	16.8 V	689
(7636)	1997 03 27.32484	12 39 59.82	+01 17 53.5	15.4 V	689
(7636)	1997 04 08.28393	12 28 26.60	+01 42 15.0	15.4 V	689
(7636)	1997 04 09.28056	12 27 31.34	+01 43 44.1	15.6 V	689
(7636)	1997 04 27.22200	12 13 43.39	+01 50 30.1	16.0 V	689
(7636)	1997 05 13.17387	12 07 31.46	+01 20 27.4	16.7 V	689
(7657)	1997 04 26.29601	13 56 38.56	-11 24 34.6	17.2 V	689
(7663)	1997 04 08.21847	10 53 55.69	+10 20 31.3	15.2 V	689
(7663)	1997 04 09.21547	10 53 32.09	+10 33 51.5	15.3 V	689
(7677)	1997 05 12.26495	14 15 05.65	-09 27 40.1	16.7 V	689
(7677)	1997 05 13.26164	14 14 14.79	-09 23 44.0	16.9 V	689
(7677)	1997 05 26.21960	14 04 47.69	-08 43 09.5	17.1 V	689
(7677)	1997 05 27.21646	14 04 12.57	-08 40 58.0	16.6 V	689
(7679)	1997 05 12.38269	17 05 06.18	-03 16 44.6	16.9 V	689
(7679)	1997 05 13.37947	17 04 23.54	-03 11 42.2	17.1 V	689
(7685)	1997 04 08.19699	10 22 54.53	+06 16 38.2	15.8 V	689
(7685)	1997 04 09.19422	10 22 51.32	+06 21 29.9	16.0 V	689
(7690)	1997 05 13.26981	14 26 03.34	-11 14 51.6	16.9 V	689
(7707)	1997 03 27.26017	11 06 37.93	+23 30 56.6	15.9 V	689
(7710)	1997 04 27.31083	14 21 59.11	-13 21 47.2	16.6 V	689
(7715)	1997 05 12.37947	17 00 27.43	+01 31 04.2	16.8 V	689
(7715)	1997 05 13.37628	16 59 47.68	+01 35 51.9	16.4 V	689

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Measurers J. V. Scotti, C. W. Hergenrother

0.91-m Spacewatch telescope + CCD, 2.3-m Steward reflector + CCD

GSC

1972 RX ₁	1997 07 04.20200	12 18 31.69	-00 01 05.3	19.9 V	691
1972 RX ₁	1997 07 04.20615	12 18 31.90	-00 01 06.8	19.8 V	691

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1972 RX ₁	1997 07 04.21046	12 18 32.12	-00 01 07.8	20.0 V	691	1990 EL ₂	1995 12 20.09107	03 44 10.56	+14 23 07.4	18.8 V	691
1978 QC ₃	1997 06 29.38369	21 38 24.56	-12 32 14.6	16.7 V	691	1990 EL ₂	1995 12 20.11236	03 44 09.61	+14 23 03.7		691
1978 QC ₃	1997 06 29.40494	21 38 24.28	-12 32 19.6	16.6 V	691	1990 OX ₂	1992 02 09.25530	08 12 03.27	+19 39 58.2	20.1 V	691
1978 QC ₃	1997 06 29.42626	21 38 24.00	-12 32 24.4	16.6 V	691	1990 OX ₂	1992 02 09.28172	08 12 01.76	+19 40 04.3		691
1979 MH ₄	1993 04 17.21072	12 08 14.49	-00 59 44.8		691	1990 UO ₁	1997 06 29.16275	15 27 49.08	-12 24 29.7	18.5 V	691
1979 MH ₄	1993 04 17.23210	12 08 13.54	-00 59 36.0		691	1990 UO ₁	1997 06 29.18430	15 27 48.55	-12 24 31.4	18.9 V	691
1979 MH ₄	1993 04 17.25342	12 08 12.57	-00 59 27.9	18.9 V	691	1990 UO ₁	1997 06 29.20584	15 27 48.04	-12 24 33.3	18.9 V	691
1979 MH ₄	1994 10 27.24175	00 27 54.31	+02 24 22.1	19.0 V	691	1990 UO ₁	1997 07 05.19588	15 25 57.34	-12 33 00.0	19.0 V	691
1979 MH ₄	1994 10 27.26206	00 27 53.57	+02 24 15.9		691	1990 UO ₁	1997 07 05.21736	15 25 56.99	-12 33 02.4	19.1 V	691
1979 MH ₄	1994 10 27.28127	00 27 52.90	+02 24 09.3		691	1990 UO ₁	1997 07 05.23906	15 25 56.65	-12 33 04.6	19.1 V	691
1979 MH ₄	1997 06 27.16789	15 34 33.93	-13 18 19.4	19.4 V	691	1991 FH ₂	1993 09 09.28632	22 38 16.82	-07 35 51.4	18.0 V	691
1979 MH ₄	1997 06 27.18923	15 34 33.57	-13 18 19.2	19.3 V	691	1991 FH ₂	1993 09 09.31950	22 38 15.29	-07 36 00.7		691
1979 MH ₄	1997 06 27.21924	15 34 33.07	-13 18 19.1	19.2 V	691	1991 FH ₂	1993 09 09.35445	22 38 13.71	-07 36 10.2		691
1979 MH ₄	1997 07 03.21271	15 33 46.23	-13 20 38.3	19.3 V	691	1991 UO ₂	1997 06 26.16849	15 26 23.91	-13 40 09.5	18.1 V	691
1979 MH ₄	1997 07 03.23453	15 33 46.11	-13 20 39.4	19.4 V	691	1991 UO ₂	1997 06 26.18992	15 26 23.21	-13 40 09.7	18.0 V	691
1979 MH ₄	1997 07 03.25792	15 33 46.05	-13 20 40.9	19.2 V	691	1991 UO ₂	1997 06 26.21164	15 26 22.59	-13 40 10.6	18.2 V	691
1981 EK ₃₅	1997 07 03.17388	13 21 50.78	-09 29 00.0	19.9 V	691	1991 UO ₂	1997 07 01.16151	15 24 16.02	-13 44 23.4	18.4 V	691
1981 EK ₃₅	1997 07 03.18497	13 21 51.05	-09 29 01.6	19.8 V	691	1991 UO ₂	1997 07 01.18728	15 24 15.42	-13 44 25.6	18.3 V	691
1981 EK ₃₅	1997 07 03.19542	13 21 51.28	-09 29 03.0	20.0 V	691	1991 UO ₂	1997 07 01.20872	15 24 14.89	-13 44 26.9	18.3 V	691
1981 RQ ₂	1997 07 03.22352	15 49 22.82	-13 13 17.2	16.4 V	691	1991 UQ ₂	1991 11 12.23254	02 38 29.43	+19 39 01.8	17.4 V	691
1981 RQ ₂	1997 07 03.24533	15 49 22.33	-13 13 12.4	16.7 V	691	1991 UQ ₂	1991 11 12.25430	02 38 27.82	+19 39 09.3		691
1981 RQ ₂	1997 07 03.26873	15 49 21.92	-13 13 07.7	16.5 V	691	1991 UQ ₂	1991 11 12.28030	02 38 25.86	+19 39 18.2		691
1982 VF ₄	1993 02 26.25629	09 11 40.59	+11 12 32.5	18.7 V	691	1991 UG ₅	1991 11 05.24460	02 46 32.55	+15 07 16.9	17.2 V	691
1982 VF ₄	1993 02 26.27464	09 11 39.58	+11 12 38.9		691	1991 UG ₅	1991 11 05.26884	02 46 31.23	+15 07 10.0		691
1982 VF ₄	1993 02 26.29305	09 11 38.59	+11 12 45.1		691	1991 UG ₅	1991 11 05.28964	02 46 30.09	+15 07 03.5		691
1985 US	1997 06 26.17089	15 29 52.37	-13 52 06.6	18.4 V	691	1991 UH ₅	1991 11 05.24269	02 43 46.71	+15 02 36.2	17.3 V	691
1985 US	1997 06 26.19233	15 29 51.79	-13 52 07.3	18.4 V	691	1991 UH ₅	1991 11 05.26693	02 43 45.04	+15 02 30.8		691
1985 US	1997 06 26.21404	15 29 51.24	-13 52 08.0	18.4 V	691	1991 UH ₅	1991 11 05.28772	02 43 43.59	+15 02 26.2		691
1985 US	1997 07 01.16418	15 28 07.33	-13 55 22.8	18.6 V	691	1991 VO ₃	1991 11 03.36623	02 33 30.86	+12 19 51.8	17.1 V	691
1985 US	1997 07 01.18996	15 28 06.83	-13 55 24.3	18.5 V	691	1991 VO ₃	1991 11 03.38708	02 33 29.50	+12 19 48.8		691
1985 US	1997 07 01.21140	15 28 06.43	-13 55 25.3	18.6 V	691	1991 VO ₃	1991 11 03.40790	02 33 28.14	+12 19 45.4		691
1985 US	1997 07 02.16434	15 27 50.45	-13 56 18.7	18.6 V	691	1991 VP ₃	1991 11 04.21013	02 35 05.46	+12 56 10.6	17.5 V	691
1985 US	1997 07 02.19683	15 27 49.87	-13 56 20.3	18.7 V	691	1991 VP ₃	1991 11 04.23271	02 35 03.91	+12 56 09.1		691
1985 US	1997 07 02.24371	15 27 49.05	-13 56 23.7	18.8 V	691	1991 VP ₃	1991 11 04.25514	02 35 02.37	+12 56 07.8		691
1987 DB ₆	1997 07 02.22265	14 04 49.13	-02 50 30.1	19.0 V	691	1991 VY ₄	1991 11 04.42806	03 20 53.25	+12 45 03.5	17.2 V	691
1987 DB ₆	1997 07 02.22867	14 04 49.20	-02 50 30.9	19.4 V	691	1991 VY ₄	1991 11 04.44496	03 20 52.27	+12 45 00.7		691
1987 DB ₆	1997 07 02.23436	14 04 49.25	-02 50 32.3	19.4 V	691	1991 VY ₄	1991 11 04.46143	03 20 51.31	+12 44 57.9		691
1988 CL ₂	1997 07 03.22319	15 48 53.74	-13 27 53.4	18.0 V	691	1991 VC ₅	1991 11 04.21566	02 43 04.19	+13 07 58.9	16.4 V	691
1988 CL ₂	1997 07 03.24500	15 48 53.14	-13 27 55.0	18.3 V	691	1991 VC ₅	1991 11 04.23824	02 43 02.64	+13 07 58.5		691
1988 CL ₂	1997 07 03.26839	15 48 52.49	-13 27 57.2	18.2 V	691	1991 VC ₅	1991 11 04.26066	02 43 01.04	+13 07 58.0		691
1988 CL ₂	1997 07 08.18632	15 47 03.80	-13 37 46.4	18.4 V	691	1992 BU ₄	1996 03 27.31405	11 16 55.56	+04 59 21.3	19.9 V	691
1988 CL ₂	1997 07 08.20802	15 47 03.37	-13 37 49.7	18.5 V	691	1992 BU ₄	1996 03 27.33560	11 16 54.55	+04 59 31.0		691
1988 CL ₂	1997 07 08.22968	15 47 02.94	-13 37 52.7	18.4 V	691	1992 BU ₄	1996 03 27.35654	11 16 53.48	+04 59 39.1		691
1989 GL ₄	1997 07 04.20502	12 16 34.96	-00 12 06.9	19.2 V	691	1992 WT ₉	* 1992 11 27.10006	02 52 46.28	+17 22 55.6		691
1989 GL ₄	1997 07 04.20933	12 16 35.32	-00 12 08.6	19.2 V	691	1992 WT ₉	1992 11 27.12278	02 52 45.26	+17 22 46.3		691
1989 SZ ₂	1997 07 09.35224	21 18 39.91	-00 45 47.2	18.0 V	691	1992 WT ₉	1992 11 27.14743	02 52 44.12	+17 22 36.7	18.5 V	691
1989 SZ ₂	1997 07 09.37347	21 18 39.38	-00 45 48.3	18.1 V	691	1993 BQ ₄	1991 10 04.35819	00 39 41.23	+00 43 37.5		691
1989 SZ ₂	1997 07 09.39446	21 18 38.87	-00 45 49.1	18.0 V	691	1993 BQ ₄	1991 10 04.37931	00 39 39.99	+00 43 29.2	18.1 V	691
1989 TA ₁₆	1997 07 09.42355	21 24 37.87	-11 12 05.5	17.8 V	691	1993 BQ ₄	1991 10 04.40239	00 39 38.60	+00 43 20.4		691
1989 TA ₁₆	1997 07 09.43978	21 24 37.46	-11 12 05.7	17.5 V	691	1993 DC ₁	1991 12 04.22549	04 30 43.86	+17 51 05.9		691
1989 TA ₁₆	1997 07 09.45579	21 24 37.01	-11 12 06.0	17.4 V	691	1993 DC ₁	1991 12 04.24690	04 30 42.46	+17 51 03.7		691
1990 EL ₂	1995 12 20.06957	03 44 11.52	+14 23 11.3		691	1993 DC ₁	1991 12 04.26823	04 30 41.11	+17 51 01.7	19.2 V	691

1993 HM ₈	* 1993 04 29.27907	14 27 32.06	-14 09 07.3	17.4 V	691	1995 FX ₆	1995 03 07.28374	11 35 37.92	+05 02 55.5		691
1993 HM ₈	1993 04 29.30113	14 27 30.52	-14 09 06.9		691	1995 FX ₆	1995 03 07.30529	11 35 36.83	+05 03 10.0	18.2 V	691
1993 HM ₈	1993 04 29.32583	14 27 28.82	-14 09 06.4		691	1995 FX ₆	1995 03 07.32683	11 35 35.87	+05 03 23.7		691
1993 HM ₈	1993 05 25.24368	14 02 11.76	-14 04 49.7		691	1995 SS ₅₃	1993 02 26.32928	11 06 39.39	+11 05 02.1		691
1993 HM ₈	1993 05 25.28601	14 02 09.83	-14 04 50.3	18.4 V	691	1995 SS ₅₃	1993 02 26.35713	11 06 37.52	+11 05 11.0	18.8 V	691
1993 QD ₃	1997 06 28.23549	16 03 03.75	-06 47 20.5	18.6 V	691	1995 SS ₅₃	1993 02 26.38910	11 06 35.39	+11 05 21.5		691
1993 QD ₃	1997 06 28.25665	16 03 03.16	-06 47 22.6	18.6 V	691	1995 XP ₄	1997 07 12.20540	15 28 22.29	-12 43 41.4	18.3 V	691
1993 QD ₃	1997 06 28.27829	16 03 02.52	-06 47 24.5	18.5 V	691	1995 XP ₄	1997 07 12.22818	15 28 22.59	-12 43 44.4	18.2 V	691
1993 QD ₃	1997 07 11.26415	15 58 41.35	-07 15 14.9	18.9 V	691	1995 XP ₄	1997 07 12.25022	15 28 22.91	-12 43 47.6	18.2 V	691
1993 QD ₃	1997 07 11.29685	15 58 40.91	-07 15 20.3	19.1 V	691	1996 GS	1992 04 29.37349	15 20 13.04	-10 01 58.5	18.3 V	691
1993 QD ₃	1997 07 11.31866	15 58 40.62	-07 15 23.9	18.9 V	691	1996 GS	1992 04 29.39392	15 20 12.13	-10 01 51.2		691
1993 SH ₁	1994 02 10.10341	01 55 10.27	+06 04 38.8	18.3 V	691	1996 GS	1992 04 29.41485	15 20 11.14	-10 01 44.1		691
1993 SH ₁	1994 02 10.11079	01 55 10.98	+06 04 43.2		691	1996 GJ ₁₉	1997 06 29.37320	21 23 15.89	-12 59 14.6	18.9 V	691
1993 SH ₁	1994 02 10.11819	01 55 11.72	+06 04 47.4		691	1996 GJ ₁₉	1997 06 29.39445	21 23 15.51	-12 59 16.1	19.2 V	691
1993 TO ₁₅	1997 06 29.36930	21 17 06.76	-12 38 55.9	18.9 V	691	1996 GJ ₁₉	1997 06 29.41577	21 23 15.14	-12 59 17.5	18.8 V	691
1993 TO ₁₅	1997 06 29.39055	21 17 06.30	-12 38 57.2	18.9 V	691	1996 KA ₃	1995 11 20.44896	09 33 45.98	+12 40 33.4	19.2 V	691
1993 TO ₁₅	1997 06 29.41187	21 17 05.85	-12 38 58.0	18.9 V	691	1996 KA ₃	1995 11 20.47037	09 33 46.52	+12 40 31.9		691
1994 CY	1997 07 03.17949	14 05 52.62	-21 38 21.5	19.6 V	691	1996 KA ₃	1995 11 20.49187	09 33 47.09	+12 40 30.6		691
1994 CY	1997 07 03.19006	14 05 52.63	-21 38 19.5	19.6 V	691	1996 PO ₈	1996 05 18.42693	21 39 44.79	-07 31 24.5	20.2 V	691
1994 CY	1997 07 03.20072	14 05 52.67	-21 38 16.8	19.7 V	691	1996 PO ₈	1996 05 18.44830	21 39 46.14	-07 31 18.8		691
1994 NJ ₁	1997 07 04.18474	12 08 49.17	-01 25 32.7	19.6 V	691	1996 PO ₈	1996 05 18.46945	21 39 47.49	-07 31 12.6		691
1994 NJ ₁	1997 07 04.18963	12 08 49.49	-01 25 34.3	19.9 V	691	1996 TV ₁₇	1996 10 16.41721	02 41 21.83	+17 50 02.4	20.1 V	691
1994 PZ	1997 07 12.35287	21 34 01.12	-11 29 53.4	17.0 V	691	1996 TV ₁₇	1996 10 16.44510	02 41 20.32	+17 50 00.3		691
1994 PZ	1997 07 12.37691	21 34 00.58	-11 29 58.8	16.9 V	691	1996 TV ₁₇	1996 10 16.46772	02 41 19.09	+17 49 59.4		691
1994 PZ	1997 07 12.39851	21 34 00.10	-11 30 03.3	17.0 V	691	1997 GL ₂₃	1994 10 09.42378	01 47 44.10	+07 01 14.4		691
1994 TZ ₁₄	1997 06 29.16223	15 27 03.91	-12 16 17.8	19.8 V	691	1997 GL ₂₃	1994 10 09.46145	01 47 42.39	+07 01 06.0	16.9 V	691
1994 TZ ₁₄	1997 06 29.18378	15 27 03.38	-12 16 16.8	19.6 V	691	1997 GL ₂₃	1994 10 09.48502	01 47 41.28	+07 01 01.5		691
1994 TZ ₁₄	1997 06 29.20532	15 27 02.86	-12 16 16.6	19.4 V	691	1997 HC ₁₆	1993 04 18.21854	12 41 32.00	-04 23 34.5	17.8 V	691
1994 TZ ₁₄	1997 07 06.17569	15 24 56.96	-12 16 51.7	19.3 V	691	1997 HC ₁₆	1993 04 18.25141	12 41 30.31	-04 23 22.5		691
1994 TZ ₁₄	1997 07 06.19712	15 24 56.65	-12 16 52.7	19.4 V	691	1997 HC ₁₆	1993 04 18.28309	12 41 28.69	-04 23 10.5		691
1994 TZ ₁₄	1997 07 06.21852	15 24 56.35	-12 16 53.1	19.4 V	691	1997 JJ ₁₄	1995 12 31.23868	07 31 36.45	+19 16 33.8	20.6 V	691
1994 VJ ₁	1996 01 15.38472	10 37 47.46	+17 03 37.4	18.6 V	691	1997 JJ ₁₄	1995 12 31.26278	07 31 34.99	+19 16 37.5		691
1994 VJ ₁	1996 01 15.43857	10 37 46.29	+17 03 53.8		691	1997 JJ ₁₄	1995 12 31.29242	07 31 33.11	+19 16 41.7		691
1994 VJ ₁	1996 01 15.46027	10 37 45.80	+17 04 00.6		691	1997 JO ₁₄	1997 04 30.28808	15 24 13.62	-13 31 09.2	18.3 V	691
1994 YF	1996 03 11.21906	11 37 53.12	+05 13 30.5	18.1 V	691	1997 JO ₁₄	1997 04 30.32327	15 24 11.66	-13 31 02.5	18.3 V	691
1994 YF	1996 03 11.24010	11 37 52.17	+05 13 36.5		691	1997 JO ₁₄	1997 04 30.36497	15 24 09.32	-13 30 54.4	18.8 V	691
1994 YF	1996 03 11.26094	11 37 51.23	+05 13 42.6		691	1997 JA ₁₆	1997 05 05.33761	15 33 22.91	-13 54 48.1	18.5 V	691
1995 DW ₈	1995 04 05.17844	11 06 22.75	+08 02 33.8		691	1997 JA ₁₆	1997 05 05.35984	15 33 21.61	-13 54 42.0	18.7 V	691
1995 DW ₈	1995 04 05.20055	11 06 22.01	+08 02 38.7	18.5 V	691	1997 JA ₁₆	1997 05 05.38224	15 33 20.30	-13 54 36.0	18.8 V	691
1995 DW ₈	1995 04 05.22263	11 06 21.28	+08 02 43.2		691	1997 JJ ₁₈	1997 06 26.16739	15 24 48.52	-13 28 16.4	17.6 V	691
1995 FK ₄	1995 02 24.39138	11 33 39.02	+04 43 07.2	17.0 V	691	1997 JJ ₁₈	1997 06 26.18882	15 24 47.87	-13 28 20.2	17.6 V	691
1995 FK ₄	1995 02 24.41615	11 33 37.92	+04 43 19.4		691	1997 JJ ₁₈	1997 06 26.21054	15 24 47.34	-13 28 23.3	17.7 V	691
1995 FK ₄	1995 02 24.43759	11 33 37.00	+04 43 30.0		691	1997 KQ ₃	1997 06 29.16397	15 29 35.34	-12 23 57.5	19.7 V	691
1995 FK ₄	1995 03 01.38403	11 29 58.32	+05 24 59.9	16.8 V	691	1997 KQ ₃	1997 06 29.18553	15 29 34.92	-12 23 59.5	19.5 V	691
1995 FK ₄	1995 03 01.40560	11 29 57.31	+05 25 11.0		691	1997 KQ ₃	1997 06 29.20707	15 29 34.48	-12 24 02.8	19.5 V	691
1995 FK ₄	1995 03 01.44112	11 29 55.64	+05 25 29.2		691	1997 KR ₃	1997 06 29.16531	15 31 30.79	-12 15 39.8	19.0 V	691
1995 FU ₄	1995 03 01.38581	11 32 33.02	+05 26 45.9		691	1997 KR ₃	1997 06 29.18686	15 31 30.25	-12 15 40.5	18.7 V	691
1995 FU ₄	1995 03 01.40738	11 32 32.11	+05 26 56.9	18.0 V	691	1997 KR ₃	1997 06 29.20840	15 31 29.73	-12 15 42.0	18.4 V	691
1995 FU ₄	1995 03 01.44291	11 32 30.63	+05 27 15.2		691	1997 KR ₃	1997 07 06.17863	15 29 11.02	-12 23 49.9	18.9 V	691
1995 FQ ₆	1995 03 01.39366	11 43 52.22	+05 46 47.6		691	1997 KR ₃	1997 07 06.20005	15 29 10.64	-12 23 51.8	19.2 V	691
1995 FQ ₆	1995 03 01.41522	11 43 50.96	+05 46 56.2	18.1 V	691	1997 KR ₃	1997 07 06.22145	15 29 10.28	-12 23 53.7	18.8 V	691
1995 FQ ₆	1995 03 01.45074	11 43 48.94	+05 47 11.8		691	1997 KH ₄	1997 06 27.16516	15 30 37.04	-13 20 22.0	17.6 V	691

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1997 KH ₄	1997 06 27.18650	15 30 36.62	-13 20 27.0	17.6 V	691	1997 LB ₆	1997 07 06.29400	16 03 35.50	-06 52 34.6	19.3 V	691
1997 KH ₄	1997 06 27.21650	15 30 36.03	-13 20 33.9	17.5 V	691	1997 LB ₆	1997 07 11.26681	16 02 31.63	-07 13 02.7	19.7 V	691
1997 KH ₄	1997 07 02.16554	15 29 33.89	-13 40 51.8	17.7 V	691	1997 LB ₆	1997 07 11.29951	16 02 31.28	-07 13 11.4	19.6 V	691
1997 KH ₄	1997 07 02.19803	15 29 33.55	-13 41 00.0	17.7 V	691	1997 LB ₆	1997 07 11.32132	16 02 31.08	-07 13 17.0	19.6 V	691
1997 KH ₄	1997 07 02.24491	15 29 33.08	-13 41 12.4	17.6 V	691	1997 LE ₁₀	1997 06 29.27980	16 10 15.88	-06 24 31.2	17.4 V	691
1997 LK ₁	1997 07 01.23266	15 50 31.62	-07 52 32.1	20.0 V	691	1997 LE ₁₀	1997 06 29.30094	16 10 15.30	-06 24 36.8	18.1 V	691
1997 LK ₁	1997 07 01.25494	15 50 31.06	-07 52 35.9	20.1 V	691	1997 LE ₁₀	1997 06 29.32212	16 10 14.67	-06 24 40.3	18.1 V	691
1997 LK ₁	1997 07 01.27742	15 50 30.52	-07 52 39.8	20.0 V	691	1997 LE ₁₀	1997 07 11.26912	16 05 51.46	-07 06 02.5	18.3 V	691
1997 LU ₁	1997 07 07.17689	15 48 47.20	-05 59 54.8	18.4 V	691	1997 LE ₁₀	1997 07 11.30182	16 05 50.94	-07 06 10.4	18.4 V	691
1997 LU ₁	1997 07 07.20906	15 48 46.81	-05 59 57.0	18.5 V	691	1997 LE ₁₀	1997 07 11.32362	16 05 50.58	-07 06 15.9	18.4 V	691
1997 LU ₁	1997 07 07.24013	15 48 46.45	-05 59 58.0	18.4 V	691	1997 MH	* 1997 06 26.16716	15 24 29.18	-13 28 49.7	19.7 V	691
1997 LG ₂	1997 06 27.16260	15 26 55.25	-13 05 05.7	20.8 V	691	1997 MH	1997 06 26.18860	15 24 28.62	-13 28 46.9	20.0 V	691
1997 LG ₂	1997 06 27.18394	15 26 54.87	-13 05 05.8	20.8 V	691	1997 MH	1997 06 26.21031	15 24 28.13	-13 28 43.3	19.8 V	691
1997 LG ₂	1997 06 27.21394	15 26 54.30	-13 05 06.7	20.3 V	691	1997 MH	1997 06 27.16067	15 24 08.37	-13 27 07.9	20.1 V	691
1997 LG ₂	1997 07 03.20694	15 25 26.64	-13 07 22.3	20.7 V	691	1997 MH	1997 06 27.18203	15 24 07.91	-13 27 05.0	20.0 V	691
1997 LG ₂	1997 07 03.22876	15 25 26.37	-13 07 23.7	20.9 V	691	1997 MJ	* 1997 06 26.23491	15 50 19.11	-07 31 21.2	18.1 V	691
1997 LG ₂	1997 07 03.25215	15 25 26.04	-13 07 24.2	20.6 V	691	1997 MJ	1997 06 26.25631	15 50 18.78	-07 31 14.4	18.1 V	691
1997 LL ₂	1997 06 29.16087	15 25 06.39	-12 09 11.9	18.9 V	691	1997 MJ	1997 06 26.27738	15 50 18.42	-07 31 06.4	18.1 V	691
1997 LL ₂	1997 06 29.18243	15 25 05.99	-12 09 09.5	19.0 V	691	1997 MJ	1997 06 27.23570	15 50 05.79	-07 25 37.5	18.0 V	691
1997 LL ₂	1997 06 29.20396	15 25 05.57	-12 09 08.6	18.9 V	691	1997 MJ	1997 06 27.25675	15 50 05.51	-07 25 30.2	18.1 V	691
1997 LQ ₂	1997 07 05.21287	15 50 29.15	-12 43 51.2	17.7 V	691	1997 MJ	1997 06 27.27791	15 50 05.19	-07 25 22.9	18.1 V	691
1997 LQ ₂	1997 07 05.23435	15 50 28.66	-12 43 34.6	17.8 V	691	1997 MJ	1997 07 06.24136	15 49 23.75	-06 45 59.4	19.0 V	691
1997 LQ ₂	1997 07 05.25605	15 50 28.18	-12 43 17.6	17.8 V	691	1997 MJ	1997 07 06.26232	15 49 23.77	-06 45 55.8	18.9 V	691
1997 LJ ₃	1997 06 26.17295	15 32 50.48	-13 46 05.0	18.4 V	691	1997 MJ	1997 07 06.28417	15 49 23.79	-06 45 51.4	19.0 V	691
1997 LJ ₃	1997 06 26.19439	15 32 49.97	-13 46 05.9	18.6 V	691	1997 MK	* 1997 06 26.38762	21 21 49.57	-00 59 16.5	18.4 V	691
1997 LJ ₃	1997 06 26.21610	15 32 49.43	-13 46 06.1	18.6 V	691	1997 MK	1997 06 26.40879	21 21 49.25	-00 59 10.5	18.3 V	691
1997 LJ ₃	1997 07 01.16634	15 31 13.97	-13 48 53.8	18.3 V	691	1997 MK	1997 06 26.42979	21 21 48.93	-00 59 04.8	18.4 V	691
1997 LJ ₃	1997 07 01.19211	15 31 13.52	-13 48 55.1	18.3 V	691	1997 MK	1997 06 27.31472	21 21 36.26	-00 54 53.2	18.7 V	691
1997 LJ ₃	1997 07 01.21355	15 31 13.17	-13 48 56.1	18.3 V	691	1997 MK	1997 06 27.33589	21 21 35.91	-00 54 47.7	18.6 V	691
1997 LQ ₄	1997 05 30.25769	15 45 42.34	-13 06 43.0	20.2 V	691	1997 MK	1997 06 27.35714	21 21 35.56	-00 54 41.6	18.7 V	691
1997 LQ ₄	1997 05 30.27934	15 45 41.29	-13 06 36.8	20.1 V	691	1997 MK	1997 07 05.40197	21 18 50.24	-00 22 01.4	18.4 V	691
1997 LQ ₄	1997 05 30.30119	15 45 40.22	-13 06 29.9	20.0 V	691	1997 MK	1997 07 05.42556	21 18 49.61	-00 21 56.2	18.5 V	691
1997 LT ₄	1997 06 29.16483	15 30 49.61	-12 24 59.4	20.4 V	691	1997 ML	* 1997 06 26.17502	15 35 49.90	-13 44 26.8	20.5 V	691
1997 LT ₄	1997 06 29.18639	15 30 49.10	-12 25 01.2	20.1 V	691	1997 ML	1997 06 26.19646	15 35 49.32	-13 44 31.2	20.5 V	691
1997 LT ₄	1997 06 29.20792	15 30 48.61	-12 25 04.2	20.6 V	691	1997 ML	1997 06 26.21817	15 35 48.63	-13 44 35.2	20.5 V	691
1997 LT ₄	1997 07 05.19807	15 29 06.48	-12 37 28.8	21.0 V	691	1997 ML	1997 06 29.22874	15 34 36.40	-13 54 26.0	20.6 V	691
1997 LT ₄	1997 07 05.21954	15 29 06.18	-12 37 31.6	20.5 V	691	1997 ML	1997 06 29.23995	15 34 36.12	-13 54 28.3	20.5 V	691
1997 LT ₄	1997 07 05.24125	15 29 05.87	-12 37 35.0	20.6 V	691	1997 ML	1997 06 29.25246	15 34 35.81	-13 54 31.1	21.1 V	691
1997 LO ₅	1997 06 28.22689	15 50 38.48	-06 45 15.0	21.3 V	691	1997 MM	* 1997 06 27.30076	21 01 26.21	-00 29 48.1	20.6 V	691
1997 LO ₅	1997 06 28.24805	15 50 38.08	-06 45 15.2	21.3 V	691	1997 MM	1997 06 27.32192	21 01 25.74	-00 29 42.4	21.0 V	691
1997 LO ₅	1997 06 28.26969	15 50 37.66	-06 45 14.8	21.3 V	691	1997 MM	1997 06 27.34317	21 01 25.24	-00 29 36.0	20.7 V	691
1997 LQ ₅	1997 06 28.23420	16 01 11.38	-06 55 12.3	19.3 V	691	1997 MM	1997 06 29.33039	21 00 39.45	-00 21 20.2	20.8 V	691
1997 LQ ₅	1997 06 28.25535	16 01 10.80	-06 55 15.7	19.4 V	691	1997 MM	1997 06 29.34111	21 00 39.19	-00 21 18.3	20.8 V	691
1997 LQ ₅	1997 06 28.27699	16 01 10.14	-06 55 19.3	19.2 V	691	1997 MM	1997 06 29.35813	21 00 38.70	-00 21 13.9	20.3 V	691
1997 LT ₅	1997 06 28.23319	15 59 44.42	-06 41 22.9	20.0 V	691	1997 MM	1997 06 29.43643	21 00 36.67	-00 20 54.9	20.3 V	691
1997 LT ₅	1997 06 28.25434	15 59 43.74	-06 41 23.2	20.0 V	691	1997 MM	1997 06 29.44768	21 00 36.42	-00 20 52.5	20.3 V	691
1997 LT ₅	1997 06 28.27598	15 59 43.04	-06 41 23.3	20.1 V	691	1997 MM	1997 06 29.45902	21 00 36.11	-00 20 49.6	20.4 V	691
1997 LA ₆	1997 06 28.22696	15 50 44.71	-06 54 51.7	19.6 V	691	1997 MN	* 1997 06 27.30131	21 02 13.87	-00 49 20.2	21.5 V	691
1997 LA ₆	1997 06 28.24811	15 50 44.01	-06 54 57.1	19.5 V	691	1997 MN	1997 06 27.32247	21 02 13.25	-00 49 14.5	21.3 V	691
1997 LA ₆	1997 06 28.26975	15 50 43.27	-06 55 02.6	19.5 V	691	1997 MN	1997 06 27.34372	21 02 12.68	-00 49 08.5	20.7 V	691
1997 LB ₆	1997 07 06.25120	16 03 36.26	-06 52 25.3	19.3 V	691	1997 MN	1997 06 29.43685	21 01 13.14	-00 40 19.8	21.0 V	691
1997 LB ₆	1997 07 06.27215	16 03 35.89	-06 52 30.0	19.2 V	691	1997 MN	1997 06 29.44810	21 01 12.74	-00 40 17.2	21.7 V	691

1997 MO	* 1997 06 27.30547	21 08 14.39	-00 33 30.9	20.8 V	691	1997 MF ₁	1997 07 01.23670	15 56 20.90	-07 59 38.6	20.0 V	691
1997 MO	1997 06 27.32663	21 08 14.03	-00 33 29.6	20.3 V	691	1997 MF ₁	1997 07 01.25898	15 56 20.47	-07 59 42.2	20.0 V	691
1997 MO	1997 06 27.34788	21 08 13.64	-00 33 29.0	20.5 V	691	1997 MF ₁	1997 07 01.28145	15 56 20.07	-07 59 45.9	20.0 V	691
1997 MO	1997 06 29.33523	21 07 37.96	-00 32 22.8	20.2 V	691	1997 MG ₁	1997 06 12.17538	16 06 50.07	-07 59 52.3	18.1 V	691
1997 MO	1997 06 29.34594	21 07 37.74	-00 32 22.5	20.3 V	691	1997 MG ₁	1997 06 12.19677	16 06 49.16	-07 59 49.9	18.0 V	691
1997 MO	1997 06 29.36296	21 07 37.36	-00 32 22.2	20.3 V	691	1997 MG ₁	1997 06 12.21783	16 06 48.25	-07 59 47.8	18.4 V	691
1997 MO	1997 07 05.32203	21 05 20.34	-00 33 37.9	20.7 V	691	1997 MG ₁	* 1997 06 26.24049	15 58 22.16	-07 45 08.9	18.5 V	691
1997 MO	1997 07 05.34334	21 05 19.76	-00 33 39.2	20.4 V	691	1997 MG ₁	1997 06 26.26188	15 58 21.49	-07 45 08.7	18.2 V	691
1997 MO	1997 07 05.36445	21 05 19.14	-00 33 39.5	20.7 V	691	1997 MG ₁	1997 06 26.28295	15 58 20.85	-07 45 08.2	18.3 V	691
1997 MP	* 1997 06 27.32895	21 11 35.19	-00 32 25.7	20.1 V	691	1997 MG ₁	1997 07 01.23654	15 56 07.41	-07 45 24.7	18.3 V	691
1997 MP	1997 06 27.35020	21 11 34.70	-00 32 16.9	20.0 V	691	1997 MG ₁	1997 07 01.25882	15 56 06.85	-07 45 25.1	18.1 V	691
1997 MP	1997 06 29.33741	21 10 47.53	-00 18 52.3	20.1 V	691	1997 MG ₁	1997 07 01.28130	15 56 06.28	-07 45 25.5	18.6 V	691
1997 MP	1997 06 29.34813	21 10 47.24	-00 18 48.2	20.0 V	691	1997 MG ₁	1997 07 08.24092	15 53 45.98	-07 50 26.5	18.5 V	691
1997 MP	1997 06 29.36515	21 10 46.79	-00 18 42.0	19.8 V	691	1997 MG ₁	1997 07 08.26284	15 53 45.59	-07 50 28.0	18.4 V	691
1997 MQ	* 1997 06 27.37190	21 06 53.41	+00 00 40.6	20.7 V	691	1997 MG ₁	1997 07 08.28444	15 53 45.22	-07 50 29.5	18.9 V	691
1997 MQ	1997 06 27.39767	21 06 53.00	+00 00 32.2	20.6 V	691	1997 MH ₁	* 1997 06 27.16953	15 36 56.19	-13 21 50.2	20.9 V	691
1997 MQ	1997 06 27.41900	21 06 52.69	+00 00 24.9	20.7 V	691	1997 MH ₁	1997 06 27.19087	15 36 55.35	-13 21 54.1	20.8 V	691
1997 MQ	1997 06 29.33439	21 06 25.31	-00 10 43.9	20.9 V	691	1997 MH ₁	1997 06 27.22087	15 36 54.23	-13 21 59.6	20.8 V	691
1997 MQ	1997 06 29.34511	21 06 25.13	-00 10 47.9	20.9 V	691	1997 MH ₁	1997 07 01.16872	15 34 40.55	-13 34 49.4	20.9 V	691
1997 MQ	1997 06 29.36212	21 06 24.83	-00 10 53.7	20.7 V	691	1997 MH ₁	1997 07 01.19449	15 34 39.73	-13 34 55.5	20.7 V	691
1997 MQ	1997 07 05.32144	21 04 29.02	-00 51 42.3	20.6 V	691	1997 MH ₁	1997 07 01.21593	15 34 39.04	-13 34 59.7	20.8 V	691
1997 MQ	1997 07 05.36386	21 04 27.96	-00 52 00.7	20.9 V	691	1997 MJ ₁	* 1997 06 27.23865	15 54 21.49	-07 22 26.8	20.6 V	691
1997 MR	* 1997 06 28.16329	15 28 50.86	-12 28 14.2	19.4 V	691	1997 MJ ₁	1997 06 27.25970	15 54 20.83	-07 22 28.9	20.3 V	691
1997 MR	1997 06 28.18455	15 28 50.46	-12 28 13.1	19.8 V	691	1997 MJ ₁	1997 06 27.28085	15 54 20.21	-07 22 31.9	20.3 V	691
1997 MR	1997 06 28.20575	15 28 50.04	-12 28 11.5	19.6 V	691	1997 MJ ₁	1997 07 01.23407	15 52 33.50	-07 32 08.7	20.5 V	691
1997 MR	1997 06 29.16326	15 28 33.49	-12 27 10.0	19.8 V	691	1997 MJ ₁	1997 07 01.25635	15 52 32.93	-07 32 12.4	20.4 V	691
1997 MR	1997 06 29.18482	15 28 33.07	-12 27 08.1	19.6 V	691	1997 MJ ₁	1997 07 01.27883	15 52 32.31	-07 32 16.0	20.5 V	691
1997 MR	1997 06 29.20635	15 28 32.70	-12 27 07.1	19.7 V	691	1997 MK ₁	* 1997 06 27.23964	15 55 46.50	-07 18 05.9	20.7 V	691
1997 MC ₁	* 1997 06 26.23674	15 52 57.52	-07 34 00.5	20.9 V	691	1997 MK ₁	1997 06 27.26068	15 55 45.90	-07 18 12.7	20.7 V	691
1997 MC ₁	1997 06 26.25813	15 52 56.77	-07 34 06.8	20.9 V	691	1997 MK ₁	1997 06 27.28184	15 55 45.36	-07 18 20.0	20.7 V	691
1997 MC ₁	1997 06 26.27920	15 52 56.05	-07 34 13.2	21.0 V	691	1997 MK ₁	1997 07 01.23525	15 54 15.86	-07 41 48.7	20.6 V	691
1997 MC ₁	1997 07 01.23267	15 50 32.10	-07 59 41.2	21.1 V	691	1997 MK ₁	1997 07 01.25753	15 54 15.35	-07 41 56.9	20.3 V	691
1997 MC ₁	1997 07 01.25495	15 50 31.50	-07 59 48.7	21.3 V	691	1997 MK ₁	1997 07 01.28001	15 54 14.89	-07 42 04.8	20.6 V	691
1997 MC ₁	1997 07 01.27742	15 50 30.89	-07 59 55.8	20.9 V	691	1997 ML ₁	* 1997 06 27.24035	15 56 48.63	-07 26 29.0	19.5 V	691
1997 MD ₁	1997 06 12.17122	16 00 49.73	-07 55 57.3	19.5 V	691	1997 ML ₁	1997 06 27.26140	15 56 47.95	-07 26 35.4	19.1 V	691
1997 MD ₁	1997 06 12.19261	16 00 48.91	-07 55 56.0	19.1 V	691	1997 ML ₁	1997 06 27.28255	15 56 47.25	-07 26 41.6	19.4 V	691
1997 MD ₁	1997 06 12.21367	16 00 48.04	-07 55 54.7	19.4 V	691	1997 ML ₁	1997 07 01.23569	15 54 53.81	-07 47 49.5	19.5 V	691
1997 MD ₁	* 1997 06 26.23705	15 53 24.48	-07 53 04.4	19.7 V	691	1997 ML ₁	1997 07 01.25797	15 54 53.19	-07 47 56.8	19.2 V	691
1997 MD ₁	1997 06 26.25845	15 53 23.94	-07 53 05.6	19.6 V	691	1997 ML ₁	1997 07 01.28044	15 54 52.57	-07 48 04.4	19.3 V	691
1997 MD ₁	1997 06 26.27952	15 53 23.39	-07 53 06.4	19.5 V	691	1997 MM ₁	* 1997 06 27.24095	15 57 40.34	-07 06 22.4	20.7 V	691
1997 MD ₁	1997 07 01.23345	15 51 39.96	-07 58 07.6	19.4 V	691	1997 MM ₁	1997 06 27.26200	15 57 39.76	-07 06 32.6	20.7 V	691
1997 MD ₁	1997 07 01.25573	15 51 39.53	-07 58 09.1	19.7 V	691	1997 MM ₁	1997 06 27.28315	15 57 39.21	-07 06 43.6	20.8 V	691
1997 MD ₁	1997 07 01.27821	15 51 39.10	-07 58 11.0	19.4 V	691	1997 MM ₁	1997 07 01.23667	15 56 18.19	-07 41 15.2	20.7 V	691
1997 ME ₁	* 1997 06 26.23735	15 53 50.28	-07 37 56.9	21.2 V	691	1997 MM ₁	1997 07 01.25894	15 56 17.79	-07 41 27.0	20.4 V	691
1997 ME ₁	1997 06 26.25874	15 53 49.56	-07 37 59.1	21.0 V	691	1997 MM ₁	1997 07 01.28142	15 56 17.34	-07 41 39.1	20.6 V	691
1997 ME ₁	1997 06 26.27981	15 53 48.95	-07 38 01.7	21.2 V	691	1997 MN ₁	* 1997 06 27.24761	16 07 17.13	-07 20 05.0	21.1 V	691
1997 ME ₁	1997 07 01.23338	15 51 33.38	-07 49 42.0	20.8 V	691	1997 MN ₁	1997 06 27.26865	16 07 16.31	-07 20 11.2	20.9 V	691
1997 ME ₁	1997 07 01.25565	15 51 32.76	-07 49 45.1	21.5 V	691	1997 MN ₁	1997 06 27.28980	16 07 15.49	-07 20 17.5	20.6 V	691
1997 ME ₁	1997 07 01.27813	15 51 32.18	-07 49 49.0	20.7 V	691	1997 MN ₁	1997 07 01.24267	16 04 58.09	-07 39 05.9	21.1 V	691
1997 MF ₁	* 1997 06 26.24030	15 58 05.91	-07 48 11.1	20.3 V	691	1997 MN ₁	1997 07 01.26494	16 04 57.37	-07 39 12.9	21.0 V	691
1997 MF ₁	1997 06 26.26169	15 58 05.33	-07 48 13.4	20.0 V	691	1997 MN ₁	1997 07 01.28742	16 04 56.59	-07 39 19.4	21.1 V	691
1997 MF ₁	1997 06 26.28277	15 58 04.73	-07 48 15.9	20.3 V	691	1997 MO ₁	* 1997 06 30.35431	21 40 03.52	-12 05 02.9	19.9 V	691

1997 MO ₁	1997 06 30.38244	21 40 04.08	-12 05 06.7	19.8 V	691	1997 MD ₂	1997 06 26.20442	15 47 19.35	-13 37 19.4	19.1 V	691
1997 MO ₁	1997 06 30.40396	21 40 04.48	-12 05 09.5	19.8 V	691	1997 MD ₂	1997 06 26.22614	15 47 18.74	-13 37 19.0	19.1 V	691
1997 MO ₁	1997 07 01.31348	21 40 24.27	-12 07 06.8	19.7 V	691	1997 MD ₂	1997 07 02.17640	15 45 15.07	-13 35 14.2	19.4 V	691
1997 MO ₁	1997 07 01.32135	21 40 24.40	-12 07 08.2	19.6 V	691	1997 MD ₂	1997 07 02.20889	15 45 14.49	-13 35 14.8	19.3 V	691
1997 MO ₁	1997 07 01.32926	21 40 24.55	-12 07 09.2	19.6 V	691	1997 MD ₂	1997 07 02.25577	15 45 13.68	-13 35 14.4	19.5 V	691
1997 MV ₁	* 1997 06 27.31570	21 23 01.17	-00 27 00.1	19.6 V	691	1997 ME ₂	* 1997 06 26.18333	15 47 49.90	-13 49 56.0	20.0 V	691
1997 MV ₁	1997 06 27.33688	21 23 02.02	-00 26 48.6	19.8 V	691	1997 ME ₂	1997 06 26.20477	15 47 49.28	-13 49 55.3	20.0 V	691
1997 MV ₁	1997 06 27.35815	21 23 02.84	-00 26 37.9	19.6 V	691	1997 ME ₂	1997 06 26.22648	15 47 48.64	-13 49 56.2	20.0 V	691
1997 MV ₁	1997 06 28.29343	21 23 42.32	-00 18 23.4	19.6 V	691	1997 ME ₂	1997 07 02.17662	15 45 33.58	-13 49 24.3	20.4 V	691
1997 MV ₁	1997 06 28.29909	21 23 42.56	-00 18 19.2	20.2 V	691	1997 ME ₂	1997 07 02.20910	15 45 32.92	-13 49 25.2	20.4 V	691
1997 MV ₁	1997 06 28.30509	21 23 42.78	-00 18 15.8	20.2 V	691	1997 ME ₂	1997 07 02.25598	15 45 32.01	-13 49 25.8	20.9 V	691
1997 MW ₁	1997 07 01.29855	18 17 51.60	-02 48 35.9	17.6 R	691	1997 MF ₂	* 1997 06 26.18346	15 48 01.03	-13 58 45.4	20.1 V	691
1997 MW ₁	1997 07 01.30313	18 17 50.33	-02 48 28.0		691	1997 MF ₂	1997 06 26.20489	15 48 00.34	-13 58 46.1	20.7 V	691
1997 MX ₁	* 1997 06 26.16839	15 26 15.86	-13 52 35.9	18.8 V	691	1997 MF ₂	1997 06 26.22661	15 47 59.58	-13 58 47.2	20.1 V	691
1997 MX ₁	1997 06 26.18983	15 26 15.50	-13 52 32.3	18.9 V	691	1997 MF ₂	1997 07 02.17646	15 45 19.81	-14 00 15.5	20.5 V	691
1997 MX ₁	1997 06 26.21155	15 26 15.25	-13 52 29.4	19.1 V	691	1997 MF ₂	1997 07 02.20894	15 45 19.02	-14 00 16.7	20.0 V	691
1997 MX ₁	1997 07 02.16269	15 25 27.16	-13 39 28.6	19.2 V	691	1997 MF ₂	1997 07 02.25582	15 45 17.89	-14 00 17.4	20.5 V	691
1997 MX ₁	1997 07 02.19518	15 25 26.95	-13 39 24.7	19.2 V	691	1997 MG ₂	* 1997 06 27.16990	15 37 28.07	-13 26 20.8	20.2 V	691
1997 MX ₁	1997 07 02.24206	15 25 26.72	-13 39 20.1	19.6 V	691	1997 MG ₂	1997 06 27.19124	15 37 27.68	-13 26 23.6	20.1 V	691
1997 MY ₁	* 1997 06 26.17362	15 33 48.48	-13 54 49.4	19.9 V	691	1997 MG ₂	1997 06 27.22125	15 37 27.17	-13 26 26.9	20.3 V	691
1997 MY ₁	1997 06 26.19506	15 33 47.98	-13 54 49.7	20.3 V	691	1997 MG ₂	1997 07 02.17042	15 36 37.38	-13 37 51.5	20.4 V	691
1997 MY ₁	1997 06 26.21677	15 33 47.44	-13 54 49.8	20.7 V	691	1997 MG ₂	1997 07 02.20292	15 36 37.13	-13 37 56.5	20.2 V	691
1997 MY ₁	1997 07 02.16717	15 31 55.34	-13 54 51.5	20.2 V	691	1997 MG ₂	1997 07 02.24980	15 36 36.76	-13 38 03.5	20.2 V	691
1997 MY ₁	1997 07 02.19966	15 31 54.81	-13 54 52.1	20.6 V	691	1997 MH ₂	* 1997 06 27.17172	15 40 05.39	-13 18 17.1	20.3 V	691
1997 MY ₁	1997 07 02.24654	15 31 54.06	-13 54 53.3	20.5 V	691	1997 MH ₂	1997 06 27.19306	15 40 04.97	-13 18 21.7	20.6 V	691
1997 MZ ₁	* 1997 06 26.17527	15 36 11.10	-13 52 19.7	20.7 V	691	1997 MH ₂	1997 06 27.22306	15 40 04.39	-13 18 28.3	20.7 V	691
1997 MZ ₁	1997 06 26.19670	15 36 10.44	-13 52 19.2	21.7 V	691	1997 MH ₂	1997 07 02.17209	15 39 01.70	-13 37 10.9	20.9 V	691
1997 MZ ₁	1997 06 26.21841	15 36 09.67	-13 52 18.7	21.2 V	691	1997 MH ₂	1997 07 02.20458	15 39 01.38	-13 37 19.1	20.8 V	691
1997 MZ ₁	1997 07 02.16824	15 33 28.37	-13 50 19.7	21.4 V	691	1997 MH ₂	1997 07 02.25146	15 39 00.87	-13 37 29.8	21.0 V	691
1997 MZ ₁	1997 07 02.20073	15 33 27.59	-13 50 19.3	21.3 V	691	1997 MV ₅	* 1997 06 26.18402	15 48 49.07	-13 33 25.3	20.7 V	691
1997 MZ ₁	1997 07 02.24760	15 33 26.42	-13 50 19.3	21.8 V	691	1997 MV ₅	1997 06 26.20545	15 48 48.53	-13 33 21.0	21.0 V	691
1997 MA ₂	* 1997 06 26.17549	15 36 30.85	-13 54 14.9	19.9 V	691	1997 MV ₅	1997 06 26.22717	15 48 47.93	-13 33 16.9	21.1 V	691
1997 MA ₂	1997 06 26.19693	15 36 30.06	-13 54 15.4	20.2 V	691	1997 MV ₅	1997 07 03.22150	15 46 27.35	-13 13 20.1	21.0 V	691
1997 MA ₂	1997 06 26.21864	15 36 29.19	-13 54 16.6	20.1 V	691	1997 MV ₅	1997 07 03.24331	15 46 27.00	-13 13 16.5	20.9 V	691
1997 MA ₂	1997 06 29.22889	15 34 49.00	-13 55 30.2	20.5 V	691	1997 MV ₅	1997 07 03.26670	15 46 26.60	-13 13 13.2	21.1 V	691
1997 MA ₂	1997 06 29.24010	15 34 48.62	-13 55 30.7	20.3 V	691	1997 MW ₅	* 1997 06 26.31238	21 06 26.23	-01 52 33.5	20.2 V	691
1997 MA ₂	1997 06 29.25261	15 34 48.23	-13 55 30.9	20.2 V	691	1997 MW ₅	1997 06 26.33355	21 06 25.80	-01 52 30.5	20.4 V	691
1997 MA ₂	1997 07 02.20072	15 33 27.22	-13 57 57.1	20.3 V	691	1997 MW ₅	1997 06 26.35514	21 06 25.35	-01 52 27.6	20.9 V	691
1997 MA ₂	1997 07 02.24760	15 33 25.98	-13 58 00.3	20.3 V	691	1997 MW ₅	1997 07 03.31255	21 03 43.90	-01 40 39.5	20.6 V	691
1997 MB ₂	* 1997 06 26.17723	15 39 01.39	-13 35 26.8	19.0 V	691	1997 MW ₅	1997 07 03.33339	21 03 43.31	-01 40 37.8	20.4 V	691
1997 MB ₂	1997 06 26.19866	15 39 00.63	-13 35 29.7	19.4 V	691	1997 MW ₅	1997 07 03.35459	21 03 42.70	-01 40 36.5	20.0 V	691
1997 MB ₂	1997 06 26.22038	15 38 59.73	-13 35 32.2	19.1 V	691	1997 MW ₅	1997 07 08.31799	21 01 11.48	-01 36 54.7	20.7 V	691
1997 MB ₂	1997 07 02.16994	15 35 55.10	-13 49 27.1	19.6 V	691	1997 MW ₅	1997 07 08.34510	21 01 10.57	-01 36 54.2	20.2 V	691
1997 MB ₂	1997 07 02.20242	15 35 54.24	-13 49 30.7	18.9 V	691	1997 MW ₅	1997 07 08.36633	21 01 09.80	-01 36 53.8	19.9 V	691
1997 MB ₂	1997 07 02.24929	15 35 52.94	-13 49 39.7	19.6 V	691	1997 MX ₅	* 1997 06 26.31511	21 10 22.95	-01 32 59.2	21.2 V	691
1997 MC ₂	* 1997 06 26.18279	15 47 02.78	-13 31 22.3	18.2 V	691	1997 MX ₅	1997 06 26.33628	21 10 22.55	-01 32 54.8	20.7 V	691
1997 MC ₂	1997 06 26.20422	15 47 02.13	-13 31 26.5	18.4 V	691	1997 MX ₅	1997 06 26.35787	21 10 22.05	-01 32 49.9	20.9 V	691
1997 MC ₂	1997 06 26.22594	15 47 01.48	-13 31 30.8	18.3 V	691	1997 MX ₅	1997 07 03.37917	21 07 22.61	-01 12 07.5	20.9 V	691
1997 MC ₂	1997 07 02.17599	15 44 39.59	-13 51 30.0	18.6 V	691	1997 MX ₅	1997 07 03.40042	21 07 21.94	-01 12 04.5	20.7 V	691
1997 MC ₂	1997 07 02.20848	15 44 38.90	-13 51 37.0	18.5 V	691	1997 MX ₅	1997 07 03.42168	21 07 21.25	-01 12 01.4	20.7 V	691
1997 MC ₂	1997 07 02.25535	15 44 37.84	-13 51 47.4	18.5 V	691	1997 MX ₅	1997 07 08.39127	21 04 32.85	-01 02 58.0	20.4 V	691
1997 MD ₂	* 1997 06 26.18299	15 47 19.95	-13 37 20.2	18.9 V	691	1997 MX ₅	1997 07 08.41386	21 04 31.97	-01 02 56.3	20.6 V	691

1997 MX ₅	1997 07 08.43732	21 04 31.05	-01 02 54.3	20.2 V	691	1997 MD ₆	1997 07 03.38478	21 15 28.55	-01 09 36.2	17.8 V	691
1997 MX ₅	1997 07 13.38467	21 01 13.51	-00 58 44.6	19.6 V	691	1997 MD ₆	1997 07 03.40603	21 15 28.63	-01 09 38.9	17.9 V	691
1997 MX ₅	1997 07 13.40591	21 01 12.55	-00 58 44.0	20.5 V	691	1997 MD ₆	1997 07 03.42731	21 15 28.65	-01 09 41.6	17.9 V	691
1997 MX ₅	1997 07 13.42708	21 01 11.60	-00 58 43.6	20.5 V	691	1997 ME ₆	* 1997 06 26.38872	21 23 25.17	-01 19 13.9	20.5 V	691
1997 MY ₅	* 1997 06 26.31526	21 10 35.62	-01 34 35.1	20.1 V	691	1997 ME ₆	1997 06 26.40989	21 23 24.85	-01 19 11.3	20.6 V	691
1997 MY ₅	1997 06 26.33642	21 10 35.11	-01 34 31.2	19.9 V	691	1997 ME ₆	1997 06 26.43089	21 23 24.50	-01 19 08.4	20.7 V	691
1997 MY ₅	1997 06 26.35802	21 10 34.59	-01 34 26.8	19.7 V	691	1997 ME ₆	1997 07 03.38875	21 21 12.73	-01 06 37.1	20.4 V	691
1997 MY ₅	1997 07 03.37913	21 07 18.93	-01 16 03.7	19.9 V	691	1997 ME ₆	1997 07 03.41000	21 21 12.18	-01 06 35.6	20.6 V	691
1997 MY ₅	1997 07 03.40037	21 07 18.17	-01 16 01.0	19.7 V	691	1997 ME ₆	1997 07 03.43127	21 21 11.65	-01 06 33.9	20.3 V	691
1997 MY ₅	1997 07 03.42164	21 07 17.46	-01 15 58.5	19.7 V	691	1997 ME ₆	1997 07 08.40129	21 19 00.51	-01 02 20.0	20.2 V	691
1997 MY ₅	1997 07 08.39112	21 04 19.76	-01 08 11.5	19.5 V	691	1997 ME ₆	1997 07 08.42388	21 18 59.82	-01 02 19.2	20.1 V	691
1997 MY ₅	1997 07 08.41371	21 04 18.86	-01 08 10.1	19.6 V	691	1997 ME ₆	1997 07 08.44734	21 18 59.08	-01 02 19.0	20.4 V	691
1997 MY ₅	1997 07 08.43717	21 04 17.92	-01 08 08.5	19.7 V	691	1997 ME ₆	1997 07 13.39514	21 16 20.29	-01 02 13.1	20.4 V	691
1997 MY ₅	1997 07 13.38443	21 00 52.69	-01 04 53.9	19.4 V	691	1997 ME ₆	1997 07 13.41638	21 16 19.52	-01 02 13.2	20.3 V	691
1997 MY ₅	1997 07 13.40567	21 00 51.80	-01 04 54.8	19.6 V	691	1997 ME ₆	1997 07 13.43755	21 16 18.74	-01 02 13.9	20.4 V	691
1997 MY ₅	1997 07 13.42684	21 00 50.81	-01 04 54.1	19.6 V	691	1997 MF ₆	* 1997 06 26.40241	21 12 36.77	-01 16 26.3	19.9 V	691
1997 MZ ₅	* 1997 06 26.31871	21 15 34.42	-01 48 50.8	21.3 V	691	1997 MF ₆	1997 06 26.42341	21 12 36.41	-01 16 27.5	20.5 V	691
1997 MZ ₅	1997 06 26.33987	21 15 34.05	-01 48 45.7	21.0 V	691	1997 MF ₆	1997 07 03.38095	21 09 56.97	-01 22 22.6	20.3 V	691
1997 MZ ₅	1997 06 26.36147	21 15 33.62	-01 48 40.8	21.1 V	691	1997 MF ₆	1997 07 03.40220	21 09 56.36	-01 22 24.6	20.4 V	691
1997 MZ ₅	1997 07 03.38301	21 12 55.16	-01 24 45.9	21.1 V	691	1997 MF ₆	1997 07 03.42347	21 09 55.74	-01 22 26.3	20.2 V	691
1997 MZ ₅	1997 07 03.40425	21 12 54.53	-01 24 42.2	21.2 V	691	1997 MF ₆	1997 07 08.32232	21 07 26.58	-01 32 08.3	20.2 V	691
1997 MZ ₅	1997 07 03.42552	21 12 53.90	-01 24 38.7	21.0 V	691	1997 MF ₆	1997 07 08.34943	21 07 25.63	-01 32 12.0	20.2 V	691
1997 MZ ₅	1997 07 08.39531	21 10 22.92	-01 12 24.0	20.7 V	691	1997 MF ₆	1997 07 08.37066	21 07 24.90	-01 32 15.1	20.0 V	691
1997 MZ ₅	1997 07 08.41791	21 10 22.11	-01 12 20.9	20.9 V	691	1997 MG ₆	* 1997 06 27.16284	15 27 16.66	-13 16 54.7	19.9 V	691
1997 MZ ₅	1997 07 08.44137	21 10 21.30	-01 12 18.0	20.8 V	691	1997 MG ₆	1997 06 27.18418	15 27 16.17	-13 16 54.6	19.7 V	691
1997 MZ ₅	1997 07 13.38892	21 07 22.11	-01 04 13.5	20.8 V	691	1997 MG ₆	1997 06 27.21419	15 27 15.48	-13 16 54.3	19.8 V	691
1997 MZ ₅	1997 07 13.41016	21 07 21.21	-01 04 11.9	20.6 V	691	1997 MG ₆	1997 07 03.20707	15 25 37.41	-13 19 34.2	19.8 V	691
1997 MZ ₅	1997 07 13.43133	21 07 20.35	-01 04 10.8	21.2 V	691	1997 MG ₆	1997 07 03.22888	15 25 37.10	-13 19 35.3	19.9 V	691
1997 MA ₆	* 1997 06 26.31998	21 17 24.63	-01 53 31.0	20.5 V	691	1997 MG ₆	1997 07 03.25227	15 25 36.80	-13 19 36.6	19.6 V	691
1997 MA ₆	1997 06 26.34115	21 17 24.36	-01 53 25.5	20.6 V	691	1997 MH ₆	* 1997 06 27.16600	15 31 50.32	-13 02 32.9	21.9 V	691
1997 MA ₆	1997 06 26.36274	21 17 24.11	-01 53 19.7	20.3 V	691	1997 MH ₆	1997 06 27.18734	15 31 49.75	-13 02 33.4	21.1 V	691
1997 MA ₆	1997 07 03.38480	21 15 30.02	-01 24 00.4	20.0 V	691	1997 MH ₆	1997 06 27.21734	15 31 48.93	-13 02 34.5	21.3 V	691
1997 MA ₆	1997 07 03.40604	21 15 29.52	-01 23 56.2	20.3 V	691	1997 MH ₆	1997 07 03.20991	15 29 43.18	-13 08 09.4	21.1 V	691
1997 MA ₆	1997 07 03.42731	21 15 29.03	-01 23 51.1	20.4 V	691	1997 MH ₆	1997 07 03.23172	15 29 42.81	-13 08 12.0	21.5 V	691
1997 MB ₆	* 1997 06 26.32539	21 25 13.01	-01 41 25.5	20.4 V	691	1997 MH ₆	1997 07 03.25511	15 29 42.34	-13 08 14.0	21.6 V	691
1997 MB ₆	1997 06 26.34655	21 25 12.65	-01 41 22.6	20.5 V	691	1997 MJ ₆	1997 06 11.17930	15 46 02.46	-12 41 26.2	19.9 V	691
1997 MB ₆	1997 06 26.36815	21 25 12.31	-01 41 19.5	20.4 V	691	1997 MJ ₆	1997 06 11.17930	15 46 02.46	-12 41 26.2	19.9 V	691
1997 MB ₆	1997 07 03.38995	21 22 56.75	-01 26 51.5	20.1 V	691	1997 MJ ₆	1997 06 11.20090	15 46 01.40	-12 41 26.9	19.5 V	691
1997 MB ₆	1997 07 03.41120	21 22 56.26	-01 26 49.7	20.1 V	691	1997 MJ ₆	1997 06 11.20090	15 46 01.40	-12 41 26.9	19.5 V	691
1997 MB ₆	1997 07 03.43247	21 22 55.72	-01 26 47.7	20.1 V	691	1997 MJ ₆	1997 06 11.22233	15 46 00.34	-12 41 28.4	19.2 V	691
1997 MC ₆	* 1997 06 26.37945	21 10 01.76	-01 07 42.5	20.3 V	691	1997 MJ ₆	1997 06 11.22233	15 46 00.34	-12 41 28.4	19.2 V	691
1997 MC ₆	1997 06 26.40062	21 10 01.42	-01 07 42.4	20.4 V	691	1997 MJ ₆	* 1997 06 27.16888	15 35 59.66	-13 10 34.2	20.3 V	691
1997 MC ₆	1997 06 26.42162	21 10 01.04	-01 07 41.5	20.1 V	691	1997 MJ ₆	1997 06 27.19022	15 35 59.06	-13 10 37.5	19.8 V	691
1997 MC ₆	1997 07 03.37939	21 07 42.03	-01 09 10.9	20.1 V	691	1997 MJ ₆	1997 06 27.22022	15 35 58.22	-13 10 42.4	19.6 V	691
1997 MC ₆	1997 07 03.40064	21 07 41.46	-01 09 12.1	20.1 V	691	1997 MJ ₆	1997 07 03.21277	15 33 51.22	-13 28 22.9	19.8 V	691
1997 MC ₆	1997 07 03.42191	21 07 40.90	-01 09 13.2	20.2 V	691	1997 MJ ₆	1997 07 03.23458	15 33 50.81	-13 28 26.9	19.9 V	691
1997 MC ₆	1997 07 08.39185	21 05 22.51	-01 16 17.6	20.0 V	691	1997 MJ ₆	1997 07 03.25797	15 33 50.40	-13 28 32.0	20.0 V	691
1997 MC ₆	1997 07 08.41444	21 05 21.78	-01 16 20.2	19.9 V	691	1997 MJ ₆	1997 07 08.17648	15 32 51.30	-13 45 39.3	20.2 V	691
1997 MC ₆	1997 07 08.43790	21 05 21.00	-01 16 23.0	19.9 V	691	1997 MJ ₆	1997 07 08.19818	15 32 51.09	-13 45 43.8	19.9 V	691
1997 MD ₆	* 1997 06 26.38231	21 14 09.73	-01 01 27.8	18.1 V	691	1997 MJ ₆	1997 07 08.21984	15 32 50.89	-13 45 48.5	19.9 V	691
1997 MD ₆	1997 06 26.40349	21 14 10.04	-01 01 28.0	18.1 V	691	1997 MK ₆	* 1997 06 27.16982	15 37 20.93	-13 18 32.3	20.8 V	691
1997 MD ₆	1997 06 26.42450	21 14 10.34	-01 01 27.9	18.1 V	691	1997 MK ₆	1997 06 27.19116	15 37 20.34	-13 18 29.3	20.7 V	691

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1997 MK ₆	1997 06 27.22116	15 37 19.50	-13 18 24.6	20.6 V	691	1997 MR ₆	1997 07 03.23524	15 34 47.78	-13 01 14.0	20.5 V	691
1997 MK ₆	1997 07 03.21363	15 35 05.70	-13 06 04.0	21.1 V	691	1997 MR ₆	1997 07 03.25863	15 34 47.43	-13 01 16.1	20.1 V	691
1997 MK ₆	1997 07 03.23544	15 35 05.30	-13 06 01.3	20.9 V	691	1997 MS ₆	* 1997 06 28.17642	15 47 48.69	-12 55 56.1	20.4 V	691
1997 MK ₆	1997 07 03.25883	15 35 04.85	-13 05 59.1	20.8 V	691	1997 MS ₆	1997 06 28.19768	15 47 47.99	-12 56 00.4	20.3 V	691
1997 ML ₆	1997 06 10.17972	15 50 17.75	-13 53 15.2	18.9 V	691	1997 MS ₆	1997 06 28.21888	15 47 47.31	-12 56 04.7	20.3 V	691
1997 ML ₆	1997 06 10.20137	15 50 16.66	-13 53 11.0	18.9 V	691	1997 MS ₆	1997 07 03.22088	15 45 34.17	-13 14 31.3	20.1 V	691
1997 ML ₆	1997 06 10.22330	15 50 15.58	-13 53 07.5	18.5 V	691	1997 MS ₆	1997 07 03.24269	15 45 33.62	-13 14 36.4	20.5 V	691
1997 ML ₆	* 1997 06 27.17147	15 39 43.93	-13 15 47.6	19.3 V	691	1997 MS ₆	1997 07 03.26608	15 45 33.03	-13 14 41.3	20.0 V	691
1997 ML ₆	1997 06 27.19281	15 39 43.36	-13 15 46.1	19.3 V	691	1997 MS ₆	1997 07 08.18418	15 43 58.41	-13 34 39.1	20.8 V	691
1997 ML ₆	1997 06 27.22281	15 39 42.55	-13 15 44.1	19.2 V	691	1997 MS ₆	1997 07 08.20588	15 43 58.05	-13 34 45.3	20.7 V	691
1997 ML ₆	1997 07 03.21538	15 37 37.45	-13 10 53.6	19.5 V	691	1997 MS ₆	1997 07 08.22754	15 43 57.67	-13 34 50.9	20.8 V	691
1997 ML ₆	1997 07 03.23719	15 37 37.05	-13 10 53.0	19.5 V	691	1997 MT ₆	* 1997 06 28.17815	15 50 18.14	-12 52 50.1	21.1 V	691
1997 ML ₆	1997 07 03.26059	15 37 36.66	-13 10 52.3	19.3 V	691	1997 MT ₆	1997 06 28.19941	15 50 17.58	-12 52 51.7	20.5 V	691
1997 MM ₆	* 1997 06 27.17372	15 42 59.13	-13 11 44.8	21.1 V	691	1997 MT ₆	1997 06 28.22061	15 50 17.08	-12 52 54.0	20.5 V	691
1997 MM ₆	1997 06 27.19506	15 42 58.58	-13 11 45.4	21.0 V	691	1997 MT ₆	1997 07 03.22308	15 48 44.84	-13 01 39.0	20.7 V	691
1997 MM ₆	1997 06 27.22507	15 42 57.75	-13 11 46.5	20.7 V	691	1997 MT ₆	1997 07 03.24490	15 48 44.51	-13 01 42.0	20.8 V	691
1997 MM ₆	1997 07 03.21765	15 40 54.12	-13 18 02.0	20.6 V	691	1997 MT ₆	1997 07 03.26829	15 48 44.11	-13 01 44.9	20.5 V	691
1997 MM ₆	1997 07 03.23946	15 40 53.73	-13 18 03.5	21.1 V	691	1997 MU ₆	* 1997 06 28.19363	15 41 57.52	-12 53 12.0	20.1 V	691
1997 MM ₆	1997 07 03.26286	15 40 53.35	-13 18 05.8	21.0 V	691	1997 MU ₆	1997 06 28.21484	15 41 57.06	-12 53 18.9	19.9 V	691
1997 MN ₆	* 1997 06 27.17543	15 45 27.28	-13 21 11.5	21.1 V	691	1997 MU ₆	1997 07 03.21754	15 40 44.90	-13 21 01.0	19.7 V	691
1997 MN ₆	1997 06 27.19677	15 45 26.69	-13 21 10.5	20.8 V	691	1997 MU ₆	1997 07 03.23936	15 40 44.68	-13 21 07.0	20.0 V	691
1997 MN ₆	1997 06 27.22678	15 45 25.85	-13 21 08.3	20.5 V	691	1997 MU ₆	1997 07 03.26275	15 40 44.40	-13 21 15.1	19.9 V	691
1997 MN ₆	1997 07 03.21932	15 43 18.92	-13 16 45.4	21.0 V	691	1997 MV ₆	* 1997 06 28.19757	15 47 38.62	-12 53 53.9	19.9 V	691
1997 MN ₆	1997 07 03.24113	15 43 18.52	-13 16 44.8	21.3 V	691	1997 MV ₆	1997 06 28.21877	15 47 38.08	-12 54 00.1	20.2 V	691
1997 MN ₆	1997 07 03.26453	15 43 18.10	-13 16 44.2	21.4 V	691	1997 MV ₆	1997 07 03.22142	15 46 20.37	-13 20 21.0	20.2 V	691
1997 MO ₆	* 1997 06 27.17799	15 49 08.33	-13 20 05.5	20.7 V	691	1997 MV ₆	1997 07 03.24323	15 46 20.08	-13 20 27.8	20.3 V	691
1997 MO ₆	1997 06 27.19933	15 49 07.88	-13 20 06.2	21.4 V	691	1997 MV ₆	1997 07 03.26662	15 46 19.80	-13 20 35.2	20.1 V	691
1997 MO ₆	1997 06 27.22933	15 49 07.13	-13 20 05.3	21.0 V	691	1997 MW ₆	* 1997 06 28.24080	16 10 43.22	-06 32 06.7	20.9 V	691
1997 MO ₆	1997 07 03.22220	15 47 28.35	-13 19 45.9	21.4 V	691	1997 MW ₆	1997 06 28.26195	16 10 42.37	-06 32 05.8	20.8 V	691
1997 MO ₆	1997 07 03.24402	15 47 28.10	-13 19 46.2	21.0 V	691	1997 MW ₆	1997 06 28.28359	16 10 41.49	-06 32 05.5	20.9 V	691
1997 MO ₆	1997 07 03.26741	15 47 27.79	-13 19 46.6	20.5 V	691	1997 MW ₆	1997 06 30.18431	16 09 29.47	-06 31 30.7	20.5 V	691
1997 MP ₆	* 1997 06 27.18495	15 28 22.36	-13 11 03.0	20.9 V	691	1997 MW ₆	1997 06 30.19369	16 09 29.12	-06 31 30.8	21.0 V	691
1997 MP ₆	1997 06 27.21495	15 28 21.48	-13 10 59.3	20.7 V	691	1997 MW ₆	1997 06 30.20306	16 09 28.70	-06 31 30.4	20.5 V	691
1997 MP ₆	1997 07 03.20736	15 26 02.42	-13 02 44.0	21.2 V	691	1997 MW ₆	1997 07 03.27642	16 07 42.16	-06 31 43.8	21.3 V	691
1997 MP ₆	1997 07 03.22917	15 26 02.02	-13 02 43.1	21.0 V	691	1997 MW ₆	1997 07 03.28779	16 07 41.77	-06 31 43.6	20.9 V	691
1997 MP ₆	1997 07 03.25256	15 26 01.53	-13 02 42.3	20.8 V	691	1997 MW ₆	1997 07 03.29649	16 07 41.45	-06 31 44.1	21.4 V	691
1997 MQ ₆	1997 06 11.23915	15 37 38.66	-12 04 33.3	19.1 V	691	1997 MW ₆	1997 07 06.25300	16 06 11.70	-06 33 16.5	20.8 V	691
1997 MQ ₆	1997 06 11.26144	15 37 37.58	-12 04 36.1	18.8 V	691	1997 MW ₆	1997 07 06.29579	16 06 10.39	-06 33 18.3	21.3 V	691
1997 MQ ₆	1997 06 11.28308	15 37 36.60	-12 04 40.3	19.0 V	691	1997 MX ₆	* 1997 06 29.27622	16 05 06.31	-06 14 18.2	20.5 V	691
1997 MQ ₆	* 1997 06 28.16210	15 27 08.36	-12 57 47.8	19.3 V	691	1997 MX ₆	1997 06 29.29736	16 05 05.42	-06 14 03.1	21.0 V	691
1997 MQ ₆	1997 06 28.18336	15 27 07.74	-12 57 52.5	19.4 V	691	1997 MX ₆	1997 06 29.31854	16 05 04.54	-06 13 47.4	20.9 V	691
1997 MQ ₆	1997 06 28.20456	15 27 07.13	-12 57 57.3	19.5 V	691	1997 MX ₆	1997 06 30.16159	16 04 32.86	-06 03 45.7	20.2 V	691
1997 MQ ₆	1997 07 03.20667	15 25 02.80	-13 17 20.8	19.4 V	691	1997 MX ₆	1997 06 30.17370	16 04 32.39	-06 03 36.9	20.2 V	691
1997 MQ ₆	1997 07 03.22848	15 25 02.46	-13 17 28.0	18.3 V	691	1997 MX ₆	1997 07 03.28279	16 02 47.33	-05 28 53.3	21.2 V	691
1997 MQ ₆	1997 07 03.25187	15 25 01.76	-13 17 32.4	19.5 V	691	1997 MX ₆	1997 07 03.29246	16 02 46.95	-05 28 45.5	20.2 V	691
1997 MQ ₆	1997 07 08.17022	15 23 30.83	-13 38 11.9	19.6 V	691	1997 MY ₆	* 1997 06 27.24069	15 57 17.88	-07 23 55.7	20.6 V	691
1997 MQ ₆	1997 07 08.19192	15 23 30.44	-13 38 16.2	19.4 V	691	1997 MY ₆	1997 06 27.26174	15 57 17.26	-07 23 54.0	20.4 V	691
1997 MQ ₆	1997 07 08.21358	15 23 30.07	-13 38 22.0	19.4 V	691	1997 MY ₆	1997 06 27.28289	15 57 16.64	-07 23 52.9	20.4 V	691
1997 MR ₆	* 1997 06 28.16840	15 36 13.75	-12 55 25.2	20.2 V	691	1997 MY ₆	1997 07 04.22087	15 54 26.35	-07 18 35.6	20.5 V	691
1997 MR ₆	1997 06 28.18966	15 36 13.35	-12 55 25.8	20.2 V	691	1997 MY ₆	1997 07 04.24983	15 54 25.76	-07 18 34.9	20.5 V	691
1997 MR ₆	1997 06 28.21086	15 36 12.88	-12 55 27.6	19.9 V	691	1997 MY ₆	1997 07 04.27777	15 54 25.09	-07 18 34.7	20.7 V	691
1997 MR ₆	1997 07 03.21343	15 34 48.14	-13 01 12.6	20.4 V	691	1997 MZ ₆	* 1997 06 27.24917	16 09 32.58	-07 14 09.1	20.4 V	691

1997 MZ ₆	1997 06 27.27022	16 09 31.88	-07 14 11.9	20.5 V	691	1997 MH ₇	1997 07 05.44816	21 06 13.88	-00 15 52.2	19.8 V	691
1997 MZ ₆	1997 06 27.29137	16 09 31.16	-07 14 14.0	20.3 V	691	1997 MJ ₇	* 1997 06 27.30909	21 13 28.28	-00 35 08.3	20.9 V	691
1997 MZ ₆	1997 07 04.22911	16 06 20.35	-07 28 00.8	20.9 V	691	1997 MJ ₇	1997 06 27.33025	21 13 27.76	-00 35 05.5	20.8 V	691
1997 MZ ₆	1997 07 04.25807	16 06 19.64	-07 28 03.9	20.8 V	691	1997 MJ ₇	1997 06 27.35150	21 13 27.24	-00 35 02.5	20.6 V	691
1997 MZ ₆	1997 07 04.28602	16 06 18.99	-07 28 08.7	20.4 V	691	1997 MJ ₇	1997 07 05.39562	21 09 40.45	-00 21 41.4	20.2 V	691
1997 MA ₇	* 1997 06 27.26220	15 57 57.24	-07 11 23.7	19.8 V	691	1997 MJ ₇	1997 07 05.41921	21 09 39.65	-00 21 39.2	19.9 V	691
1997 MA ₇	1997 06 27.28335	15 57 56.61	-07 11 24.5	19.7 V	691	1997 MJ ₇	1997 07 05.45052	21 09 38.56	-00 21 38.0	20.8 V	691
1997 MA ₇	1997 07 04.22136	15 55 08.78	-07 17 17.1	20.0 V	691	1997 MK ₇	* 1997 06 27.31194	21 17 34.91	-00 51 17.9	20.0 V	691
1997 MA ₇	1997 07 04.25032	15 55 08.17	-07 17 19.3	19.8 V	691	1997 MK ₇	1997 06 27.33310	21 17 34.51	-00 51 16.0	19.9 V	691
1997 MA ₇	1997 07 04.27826	15 55 07.62	-07 17 21.7	19.8 V	691	1997 MK ₇	1997 06 27.35435	21 17 34.11	-00 51 13.4	19.4 V	691
1997 MB ₇	* 1997 06 28.23018	15 55 23.59	-06 57 26.1	18.5 V	691	1997 MK ₇	1997 07 05.32835	21 14 27.11	-00 43 12.2	19.8 V	691
1997 MB ₇	1997 06 28.25133	15 55 22.92	-06 57 29.2	18.5 V	691	1997 MK ₇	1997 07 05.34965	21 14 26.49	-00 43 12.7	19.6 V	691
1997 MB ₇	1997 06 28.27297	15 55 22.22	-06 57 31.9	18.5 V	691	1997 MK ₇	1997 07 05.37076	21 14 25.88	-00 43 11.9	20.0 V	691
1997 MB ₇	1997 07 04.21972	15 52 47.37	-07 13 23.0	19.5 V	691	1997 ML ₇	* 1997 06 27.36984	21 03 55.03	-00 14 05.5	19.3 V	691
1997 MB ₇	1997 07 04.24868	15 52 46.70	-07 13 28.2	19.7 V	691	1997 ML ₇	1997 06 27.39561	21 03 54.48	-00 14 05.1	19.1 V	691
1997 MB ₇	1997 07 04.27663	15 52 46.02	-07 13 33.9	19.6 V	691	1997 ML ₇	1997 06 27.41694	21 03 54.00	-00 14 04.9	19.3 V	691
1997 MC ₇	* 1997 06 28.23046	15 55 48.03	-06 27 57.7	19.3 V	691	1997 ML ₇	1997 07 05.38935	21 00 36.94	-00 17 02.8	18.9 V	691
1997 MC ₇	1997 06 28.25162	15 55 47.43	-06 28 03.0	18.9 V	691	1997 ML ₇	1997 07 05.41294	21 00 36.22	-00 17 04.6	18.9 V	691
1997 MC ₇	1997 06 28.27326	15 55 46.84	-06 28 10.6	19.3 V	691	1997 ML ₇	1997 07 05.44425	21 00 35.29	-00 17 06.4	18.9 V	691
1997 MC ₇	1997 07 04.22034	15 53 41.02	-07 00 17.7	18.6 V	691	1997 MM ₇	* 1997 06 27.37634	21 13 17.81	-00 07 19.5	20.2 V	691
1997 MC ₇	1997 07 04.27725	15 53 39.96	-07 00 38.3	18.5 V	691	1997 MM ₇	1997 06 27.40210	21 13 17.37	-00 07 19.4	20.3 V	691
1997 MD ₇	* 1997 06 28.23723	16 05 34.62	-06 37 38.0	18.6 V	691	1997 MM ₇	1997 06 27.42344	21 13 16.99	-00 07 19.1	20.1 V	691
1997 MD ₇	1997 06 28.25839	16 05 34.10	-06 37 43.2	18.6 V	691	1997 MM ₇	1997 07 05.39621	21 10 31.85	-00 11 39.7	20.1 V	691
1997 MD ₇	1997 06 28.28003	16 05 33.56	-06 37 48.7	18.4 V	691	1997 MM ₇	1997 07 05.41981	21 10 31.22	-00 11 41.4	19.9 V	691
1997 MD ₇	1997 07 04.22747	16 03 57.92	-07 03 50.8	18.6 V	691	1997 MM ₇	1997 07 05.45112	21 10 30.39	-00 11 43.8	20.3 V	691
1997 MD ₇	1997 07 04.25643	16 03 57.52	-07 03 59.6	18.7 V	691	1997 MM ₇	1997 07 10.29169	21 08 16.28	-00 19 58.0	20.0 V	691
1997 MD ₇	1997 07 04.28438	16 03 57.17	-07 04 08.4	18.7 V	691	1997 MM ₇	1997 07 10.31269	21 08 15.68	-00 20 00.8	20.0 V	691
1997 ME ₇	* 1997 06 28.23976	16 09 13.19	-06 55 49.9	20.7 V	691	1997 MM ₇	1997 07 10.33385	21 08 15.00	-00 20 03.9	20.1 V	691
1997 ME ₇	1997 06 28.26091	16 09 12.66	-06 55 54.4	20.6 V	691	1997 MN ₇	* 1997 06 28.17198	15 41 23.53	-12 44 28.7	20.7 V	691
1997 ME ₇	1997 06 28.28255	16 09 12.12	-06 55 58.5	20.7 V	691	1997 MN ₇	1997 06 28.19324	15 41 22.96	-12 44 29.3	20.9 V	691
1997 ME ₇	1997 07 04.22999	16 07 36.29	-07 19 18.3	20.8 V	691	1997 MN ₇	1997 06 28.21444	15 41 22.43	-12 44 29.3	21.1 V	691
1997 ME ₇	1997 07 04.25895	16 07 35.85	-07 19 26.5	20.6 V	691	1997 MN ₇	1997 07 05.20502	15 39 09.14	-12 47 57.4	21.3 V	691
1997 ME ₇	1997 07 04.28690	16 07 35.54	-07 19 34.0	20.9 V	691	1997 MN ₇	1997 07 05.22650	15 39 08.85	-12 47 58.2	20.8 V	691
1997 MF ₇	* 1997 06 26.34599	21 24 23.50	-01 30 11.8	19.3 V	691	1997 MN ₇	1997 07 05.24820	15 39 08.52	-12 47 59.3	21.0 V	691
1997 MF ₇	1997 06 26.36758	21 24 22.97	-01 30 01.7	19.4 V	691	1997 MO ₇	* 1997 06 28.17288	15 42 42.20	-12 34 55.2	19.2 V	691
1997 MF ₇	1997 07 05.40262	21 19 47.12	-00 21 14.1	19.0 V	691	1997 MO ₇	1997 06 28.19414	15 42 41.60	-12 34 57.9	18.9 V	691
1997 MF ₇	1997 07 05.42621	21 19 46.20	-00 21 03.5	19.2 V	691	1997 MO ₇	1997 06 28.21534	15 42 40.99	-12 35 01.2	19.0 V	691
1997 MF ₇	1997 07 05.45752	21 19 45.00	-00 20 50.6	19.1 V	691	1997 MO ₇	1997 07 05.20562	15 40 00.64	-12 53 02.5	19.2 V	691
1997 MG ₇	* 1997 06 26.38092	21 12 09.18	-01 17 16.5	19.7 V	691	1997 MO ₇	1997 07 05.22709	15 40 00.24	-12 53 06.1	19.3 V	691
1997 MG ₇	1997 06 26.40209	21 12 08.91	-01 17 09.7	19.9 V	691	1997 MO ₇	1997 07 05.24879	15 39 59.81	-12 53 09.6	19.3 V	691
1997 MG ₇	1997 06 26.42309	21 12 08.64	-01 17 03.0	19.8 V	691	1997 MP ₇	* 1997 06 28.24005	16 09 38.83	-06 42 20.2	21.4 V	691
1997 MG ₇	1997 07 05.32493	21 09 31.24	-00 37 49.4	19.5 V	691	1997 MP ₇	1997 06 28.26121	16 09 38.23	-06 42 21.9	21.2 V	691
1997 MG ₇	1997 07 05.34623	21 09 30.70	-00 37 44.4	19.7 V	691	1997 MP ₇	1997 06 28.28285	16 09 37.61	-06 42 23.4	21.0 V	691
1997 MG ₇	1997 07 05.36735	21 09 30.14	-00 37 41.2	19.6 V	691	1997 MP ₇	1997 07 06.25328	16 06 36.53	-06 54 21.4	21.1 V	691
1997 MG ₇	1997 07 09.34459	21 07 37.71	-00 26 01.4	19.5 V	691	1997 MP ₇	1997 07 06.27423	16 06 36.12	-06 54 23.9	21.1 V	691
1997 MG ₇	1997 07 09.36582	21 07 36.98	-00 25 58.0	19.4 V	691	1997 MP ₇	1997 07 06.29608	16 06 35.66	-06 54 26.5	21.1 V	691
1997 MG ₇	1997 07 09.38681	21 07 36.29	-00 25 55.1	19.4 V	691	1997 MQ ₇	* 1997 06 29.17549	15 46 13.22	-12 21 20.9	19.2 V	691
1997 MH ₇	* 1997 06 27.30585	21 08 47.60	-00 45 04.8	20.2 V	691	1997 MQ ₇	1997 06 29.19705	15 46 12.69	-12 21 19.6	19.1 V	691
1997 MH ₇	1997 06 27.32701	21 08 47.28	-00 44 59.8	20.0 V	691	1997 MQ ₇	1997 06 29.21858	15 46 12.16	-12 21 17.9	19.1 V	691
1997 MH ₇	1997 06 27.34827	21 08 46.98	-00 44 54.0	20.0 V	691	1997 MQ ₇	1997 07 06.18891	15 44 01.69	-12 14 33.4	19.6 V	691
1997 MH ₇	1997 07 05.39325	21 06 15.32	-00 16 01.6	20.1 V	691	1997 MQ ₇	1997 07 06.21033	15 44 01.37	-12 14 32.7	19.5 V	691
1997 MH ₇	1997 07 05.41685	21 06 14.72	-00 15 57.4	19.8 V	691	1997 MQ ₇	1997 07 06.23173	15 44 01.03	-12 14 32.0	19.5 V	691

1997 MR ₇	* 1997 06 29.17659	15 47 47.79	-12 20 09.7	19.3 V	691	1997 MZ ₇	1997 06 29.39824	21 28 43.55	-12 54 01.0	21.0 V	691
1997 MR ₇	1997 06 29.19814	15 47 47.25	-12 20 10.5	19.3 V	691	1997 MZ ₇	1997 06 29.41955	21 28 43.06	-12 53 59.4	20.9 V	691
1997 MR ₇	1997 06 29.21967	15 47 46.69	-12 20 11.1	19.4 V	691	1997 MZ ₇	1997 07 06.31219	21 25 44.52	-12 45 29.2	20.6 V	691
1997 MR ₇	1997 07 06.18989	15 45 26.39	-12 25 21.0	19.6 V	691	1997 MZ ₇	1997 07 06.34577	21 25 43.47	-12 45 27.4	20.4 V	691
1997 MR ₇	1997 07 06.21131	15 45 26.03	-12 25 22.4	19.5 V	691	1997 MZ ₇	1997 07 06.38127	21 25 42.33	-12 45 25.6	20.3 V	691
1997 MR ₇	1997 07 06.23271	15 45 25.66	-12 25 24.1	19.6 V	691	1997 MZ ₇	1997 07 10.35693	21 23 31.31	-12 42 23.5	20.6 V	691
1997 MS ₇	* 1997 06 29.17703	15 48 26.05	-12 11 38.0	20.8 V	691	1997 MZ ₇	1997 07 10.38406	21 23 30.30	-12 42 22.9	20.5 V	691
1997 MS ₇	1997 06 29.19858	15 48 25.45	-12 11 41.1	20.9 V	691	1997 MZ ₇	1997 07 10.40583	21 23 29.53	-12 42 22.0	20.7 V	691
1997 MS ₇	1997 06 29.22012	15 48 24.83	-12 11 43.3	20.7 V	691	1997 MA ₈	* 1997 06 29.37797	21 30 09.04	-12 32 20.6	20.6 V	691
1997 MS ₇	1997 07 06.19021	15 45 54.04	-12 26 29.2	20.9 V	691	1997 MA ₈	1997 06 29.39922	21 30 08.66	-12 32 22.6	21.0 V	691
1997 MS ₇	1997 07 06.21163	15 45 53.62	-12 26 32.9	20.9 V	691	1997 MA ₈	1997 06 29.42054	21 30 08.30	-12 32 25.2	20.8 V	691
1997 MS ₇	1997 07 06.23303	15 45 53.26	-12 26 36.0	20.9 V	691	1997 MA ₈	1997 07 06.31348	21 27 36.71	-12 48 12.6	20.6 V	691
1997 MT ₇	* 1997 06 29.19436	15 42 19.57	-12 18 14.6	20.3 V	691	1997 MA ₈	1997 07 06.34707	21 27 35.75	-12 48 18.3	20.6 V	691
1997 MT ₇	1997 06 29.21589	15 42 19.05	-12 18 14.7	20.5 V	691	1997 MA ₈	1997 07 06.38256	21 27 34.73	-12 48 23.9	20.4 V	691
1997 MT ₇	1997 07 06.18610	15 39 58.61	-12 19 05.7	20.6 V	691	1997 MB ₈	* 1997 06 29.37916	21 31 52.39	-12 47 55.5	21.0 V	691
1997 MT ₇	1997 07 06.20752	15 39 58.23	-12 19 07.1	20.6 V	691	1997 MB ₈	1997 06 29.40041	21 31 52.03	-12 47 56.1	21.3 V	691
1997 MT ₇	1997 07 06.22892	15 39 57.88	-12 19 08.8	20.9 V	691	1997 MB ₈	1997 06 29.42173	21 31 51.65	-12 47 56.2	21.0 V	691
1997 MU ₇	* 1997 06 29.28223	16 13 46.61	-06 04 39.5	20.5 V	691	1997 MB ₈	1997 07 06.31475	21 29 26.55	-12 51 15.1	20.5 V	691
1997 MU ₇	1997 06 29.30337	16 13 46.00	-06 04 43.3	20.6 V	691	1997 MB ₈	1997 07 06.34834	21 29 25.58	-12 51 17.2	20.7 V	691
1997 MU ₇	1997 06 29.32455	16 13 45.31	-06 04 47.1	20.8 V	691	1997 MB ₈	1997 07 06.38383	21 29 24.60	-12 51 19.0	20.2 V	691
1997 MU ₇	1997 07 06.25615	16 10 45.30	-06 28 56.5	20.2 V	691	1997 MC ₈	* 1997 06 29.37956	21 32 27.14	-12 35 42.4	19.4 V	691
1997 MU ₇	1997 07 06.27711	16 10 44.83	-06 29 00.6	20.2 V	691	1997 MC ₈	1997 06 29.40082	21 32 26.77	-12 35 42.9	19.4 V	691
1997 MU ₇	1997 07 06.29895	16 10 44.31	-06 29 05.9	20.2 V	691	1997 MC ₈	1997 06 29.42213	21 32 26.42	-12 35 43.8	19.4 V	691
1997 MV ₇	* 1997 06 29.30362	16 14 07.34	-06 24 56.7	20.0 V	691	1997 MC ₈	1997 07 06.31521	21 30 06.41	-12 42 52.5	19.3 V	691
1997 MV ₇	1997 06 29.32480	16 14 06.81	-06 24 57.3	20.2 V	691	1997 MC ₈	1997 07 06.34880	21 30 05.51	-12 42 55.6	19.2 V	691
1997 MV ₇	1997 07 06.25697	16 11 55.99	-06 31 04.3	20.3 V	691	1997 MC ₈	1997 07 06.38429	21 30 04.56	-12 42 58.8	19.2 V	691
1997 MV ₇	1997 07 06.27792	16 11 55.63	-06 31 05.5	20.3 V	691	1997 MC ₈	1997 07 10.36017	21 28 12.13	-12 49 49.5	18.9 V	691
1997 MV ₇	1997 07 06.29977	16 11 55.23	-06 31 07.2	20.3 V	691	1997 MC ₈	1997 07 10.38730	21 28 11.22	-12 49 53.0	19.0 V	691
1997 MW ₇	* 1997 06 29.37165	21 21 01.56	-12 32 28.5	20.3 V	691	1997 MC ₈	1997 07 10.40907	21 28 10.52	-12 49 55.6	19.1 V	691
1997 MW ₇	1997 06 29.39290	21 21 00.97	-12 32 30.4	20.3 V	691	1997 MD ₈	* 1997 06 29.38180	21 35 40.97	-12 30 08.8	18.6 V	691
1997 MW ₇	1997 06 29.41421	21 21 00.31	-12 32 32.5	20.0 V	691	1997 MD ₈	1997 06 29.40305	21 35 40.48	-12 30 10.2	18.6 V	691
1997 MW ₇	1997 07 06.30668	21 17 27.26	-12 45 07.9	19.8 V	691	1997 MD ₈	1997 06 29.42437	21 35 40.00	-12 30 11.8	18.4 V	691
1997 MW ₇	1997 07 06.34027	21 17 26.00	-12 45 11.5	19.5 V	691	1997 MD ₈	1997 07 06.31697	21 32 38.54	-12 43 14.7	19.0 V	691
1997 MW ₇	1997 07 06.37576	21 17 24.66	-12 45 16.6	19.8 V	691	1997 MD ₈	1997 07 06.35055	21 32 37.45	-12 43 19.8	18.9 V	691
1997 MX ₇	* 1997 06 29.37350	21 23 41.93	-12 38 30.0	21.6 V	691	1997 MD ₈	1997 07 06.38604	21 32 36.27	-12 43 24.8	18.9 V	691
1997 MX ₇	1997 06 29.39475	21 23 41.53	-12 38 33.2	21.1 V	691	1997 MD ₈	1997 07 10.36164	21 30 19.66	-12 53 41.7	18.4 V	691
1997 MX ₇	1997 06 29.41607	21 23 41.08	-12 38 34.8	21.3 V	691	1997 MD ₈	1997 07 10.38877	21 30 18.61	-12 53 46.4	18.3 V	691
1997 MX ₇	1997 07 06.30902	21 21 10.63	-12 54 53.5	20.9 V	691	1997 MD ₈	1997 07 10.41054	21 30 17.79	-12 53 50.1	18.3 V	691
1997 MX ₇	1997 07 06.34261	21 21 09.73	-12 54 58.5	21.2 V	691	1997 ME ₈	* 1997 06 29.38209	21 36 06.42	-12 49 59.0	21.1 V	691
1997 MY ₇	* 1997 06 29.37592	21 27 12.13	-12 54 02.4	20.4 V	691	1997 ME ₈	1997 06 29.40335	21 36 06.14	-12 49 59.1	20.8 V	691
1997 MY ₇	1997 06 29.39718	21 27 11.83	-12 53 57.8	20.3 V	691	1997 ME ₈	1997 06 29.42466	21 36 05.84	-12 50 00.1	20.9 V	691
1997 MY ₇	1997 06 29.41850	21 27 11.52	-12 53 53.6	20.5 V	691	1997 ME ₈	1997 07 06.31799	21 34 07.19	-12 55 15.7	20.5 V	691
1997 MY ₇	1997 07 06.31170	21 25 02.71	-12 31 48.1	20.1 V	691	1997 ME ₈	1997 07 06.35158	21 34 06.41	-12 55 18.9	20.4 V	691
1997 MY ₇	1997 07 06.34529	21 25 01.81	-12 31 42.3	19.8 V	691	1997 ME ₈	1997 07 06.38707	21 34 05.54	-12 55 21.0	20.3 V	691
1997 MY ₇	1997 07 06.38079	21 25 00.80	-12 31 36.2	20.2 V	691	1997 MF ₈	* 1997 06 29.38536	21 40 49.48	-12 33 07.3	20.8 V	691
1997 MY ₇	1997 07 11.33894	21 22 32.01	-12 19 11.8	20.4 V	691	1997 MF ₈	1997 06 29.40661	21 40 49.10	-12 33 09.6	20.7 V	691
1997 MY ₇	1997 07 11.36116	21 22 31.19	-12 19 09.5	20.1 V	691	1997 MF ₈	1997 06 29.42793	21 40 48.71	-12 33 10.9	20.4 V	691
1997 MY ₇	1997 07 11.38330	21 22 30.34	-12 19 06.2	20.0 V	691	1997 MF ₈	1997 07 06.32093	21 38 21.94	-12 45 06.8	20.0 V	691
1997 MY ₇	1997 07 12.41120	21 21 53.88	-12 16 52.7	19.5 V	691	1997 MF ₈	1997 07 06.35452	21 38 20.97	-12 45 11.6	19.9 V	691
1997 MY ₇	1997 07 12.43164	21 21 53.10	-12 16 51.2	19.9 V	691	1997 MF ₈	1997 07 06.39001	21 38 19.96	-12 45 16.0	20.0 V	691
1997 MY ₇	1997 07 12.45403	21 21 52.21	-12 16 48.2	20.5 V	691	1997 MF ₈	1997 07 10.36584	21 36 23.14	-12 54 57.6	20.2 V	691
1997 MZ ₇	* 1997 06 29.37699	21 28 44.02	-12 54 03.0	21.1 V	691	1997 MF ₈	1997 07 10.39297	21 36 22.24	-12 55 02.4	20.2 V	691

1997 MF ₈	1997 07 10.41474	21 36 21.49	-12 55 05.9	20.2 V	691	1997 MN ₈	1997 07 06.34512	21 24 46.67	-12 39 17.9	20.4 V	691
1997 MG ₈	* 1997 06 29.38610	21 41 53.74	-12 55 54.6	19.3 V	691	1997 MN ₈	1997 07 06.38061	21 24 45.69	-12 39 29.6	20.2 V	691
1997 MG ₈	1997 06 29.40736	21 41 53.84	-12 55 49.8	19.2 V	691	1997 MO ₈	* 1997 06 30.35046	21 34 29.79	-12 27 03.7	20.6 V	691
1997 MG ₈	1997 06 29.42868	21 41 53.92	-12 55 44.4	19.2 V	691	1997 MO ₈	1997 06 30.37857	21 34 29.40	-12 27 08.7	20.8 V	691
1997 MG ₈	1997 07 06.32333	21 41 49.94	-12 31 00.2	19.9 V	691	1997 MO ₈	1997 06 30.40008	21 34 29.08	-12 27 12.5	21.0 V	691
1997 MG ₈	1997 07 06.35692	21 41 49.56	-12 30 54.6	19.9 V	691	1997 MO ₈	1997 07 06.31707	21 32 47.36	-12 46 39.2	20.3 V	691
1997 MG ₈	1997 07 06.39243	21 41 49.14	-12 30 48.3	19.9 V	691	1997 MO ₈	1997 07 06.35066	21 32 46.60	-12 46 46.6	20.4 V	691
1997 MG ₈	1997 07 07.34138	21 41 40.12	-12 27 58.2	19.1 V	691	1997 MO ₈	1997 07 06.38615	21 32 45.82	-12 46 53.7	20.3 V	691
1997 MG ₈	1997 07 07.36483	21 41 39.79	-12 27 55.0	19.1 V	691	1997 MP ₈	* 1997 06 30.35310	21 38 18.81	-12 15 32.3	20.1 V	691
1997 MG ₈	1997 07 07.38639	21 41 39.46	-12 27 51.7	18.8 V	691	1997 MP ₈	1997 06 30.38122	21 38 18.35	-12 15 39.8	20.9 V	691
1997 MG ₈	1997 07 11.35149	21 40 39.32	-12 17 40.0	19.9 V	691	1997 MP ₈	1997 06 30.40273	21 38 18.02	-12 15 45.4	20.7 V	691
1997 MG ₈	1997 07 11.37371	21 40 38.82	-12 17 37.0	19.7 V	691	1997 MP ₈	1997 07 06.31973	21 36 38.20	-12 43 19.1	19.9 V	691
1997 MG ₈	1997 07 11.39586	21 40 38.27	-12 17 34.5	19.8 V	691	1997 MP ₈	1997 07 06.35332	21 36 37.45	-12 43 30.5	20.7 V	691
1997 MG ₈	1997 07 12.42393	21 40 16.88	-12 15 20.2	18.9 V	691	1997 MP ₈	1997 07 06.38882	21 36 36.51	-12 43 42.1	19.3 V	691
1997 MG ₈	1997 07 12.44437	21 40 16.38	-12 15 17.8	18.9 V	691	1997 MQ ₈	* 1997 06 30.35525	21 41 25.00	-12 24 51.3	19.4 V	691
1997 MG ₈	1997 07 12.46677	21 40 15.81	-12 15 15.4	18.9 V	691	1997 MQ ₈	1997 06 30.38337	21 41 24.63	-12 24 53.5	19.6 V	691
1997 MH ₈	* 1997 06 30.33974	21 19 01.31	-12 02 46.1	19.3 V	691	1997 MQ ₈	1997 06 30.40488	21 41 24.31	-12 24 55.3	19.5 V	691
1997 MH ₈	1997 06 30.36785	21 19 00.85	-12 02 53.0	19.4 V	691	1997 MQ ₈	1997 07 06.32188	21 39 43.93	-12 35 15.6	19.4 V	691
1997 MH ₈	1997 06 30.38937	21 19 00.50	-12 02 58.3	19.3 V	691	1997 MQ ₈	1997 07 06.35546	21 39 43.16	-12 35 20.1	19.4 V	691
1997 MH ₈	1997 07 06.30657	21 17 08.13	-12 30 50.2	19.2 V	691	1997 MQ ₈	1997 07 06.39096	21 39 42.34	-12 35 25.0	19.3 V	691
1997 MH ₈	1997 07 06.34016	21 17 07.31	-12 31 00.0	19.3 V	691	1997 MQ ₈	1997 07 10.36702	21 38 05.47	-12 45 02.9	19.6 V	691
1997 MH ₈	1997 07 06.37566	21 17 06.47	-12 31 10.9	19.1 V	691	1997 MQ ₈	1997 07 10.39415	21 38 04.68	-12 45 07.1	19.3 V	691
1997 MJ ₈	* 1997 06 30.34066	21 20 21.38	-12 01 01.5	20.2 V	691	1997 MQ ₈	1997 07 10.41592	21 38 04.05	-12 45 10.9	19.3 V	691
1997 MJ ₈	1997 06 30.36878	21 20 20.80	-12 01 10.4	20.5 V	691	1997 MR ₈	* 1997 06 30.38125	21 38 21.16	-11 57 52.1	18.3 V	691
1997 MJ ₈	1997 06 30.39029	21 20 20.39	-12 01 16.5	20.5 V	691	1997 MR ₈	1997 06 30.40276	21 38 20.82	-11 58 00.4	18.2 V	691
1997 MJ ₈	1997 07 06.30698	21 18 13.76	-12 34 16.2	20.3 V	691	1997 MR ₈	1997 07 06.31965	21 36 31.29	-12 37 45.0	18.3 V	691
1997 MJ ₈	1997 07 06.34057	21 18 12.81	-12 34 28.1	20.3 V	691	1997 MR ₈	1997 07 06.35324	21 36 30.46	-12 37 59.8	18.1 V	691
1997 MK ₈	* 1997 06 30.34281	21 23 27.30	-12 22 10.3	20.6 V	691	1997 MR ₈	1997 07 06.38874	21 36 29.55	-12 38 15.6	18.2 V	691
1997 MK ₈	1997 06 30.37092	21 23 26.75	-12 22 13.6	20.4 V	691	1997 MS ₈	* 1997 06 29.26745	15 52 26.81	-06 10 46.0	18.7 V	691
1997 MK ₈	1997 06 30.39243	21 23 26.28	-12 22 16.3	21.0 V	691	1997 MS ₈	1997 06 29.28860	15 52 26.27	-06 10 46.0	18.8 V	691
1997 MK ₈	1997 07 06.30903	21 21 11.50	-12 37 35.7	20.5 V	691	1997 MS ₈	1997 06 29.30978	15 52 25.72	-06 10 45.5	18.8 V	691
1997 MK ₈	1997 07 06.34262	21 21 10.54	-12 37 41.4	20.5 V	691	1997 MS ₈	1997 07 07.17765	15 49 53.24	-06 14 18.9	19.6 V	691
1997 MK ₈	1997 07 06.37812	21 21 09.52	-12 37 47.7	20.2 V	691	1997 MS ₈	1997 07 07.20982	15 49 52.71	-06 14 20.7	19.4 V	691
1997 MK ₈	1997 07 10.35394	21 19 12.21	-12 50 39.2	20.5 V	691	1997 MS ₈	1997 07 07.24089	15 49 52.25	-06 14 21.3	19.5 V	691
1997 MK ₈	1997 07 10.38107	21 19 11.29	-12 50 45.1	20.5 V	691	1997 MT ₈	* 1997 06 29.27502	16 03 21.99	-06 21 00.5	19.3 V	691
1997 MK ₈	1997 07 10.40284	21 19 10.58	-12 50 49.4	20.5 V	691	1997 MT ₈	1997 06 29.29616	16 03 21.31	-06 20 59.7	19.3 V	691
1997 ML ₈	* 1997 06 30.34315	21 23 56.28	-12 19 27.2	18.7 V	691	1997 MT ₈	1997 06 29.31734	16 03 20.66	-06 20 58.3	19.2 V	691
1997 ML ₈	1997 06 30.37126	21 23 55.96	-12 19 35.8	18.6 V	691	1997 MT ₈	1997 07 07.18470	16 00 04.40	-06 19 34.6	19.4 V	691
1997 ML ₈	1997 06 30.39277	21 23 55.72	-12 19 43.0	18.7 V	691	1997 MT ₈	1997 07 07.21688	16 00 03.73	-06 19 35.4	19.7 V	691
1997 ML ₈	1997 07 06.31000	21 22 35.54	-12 55 20.8	18.6 V	691	1997 MT ₈	1997 07 07.24794	16 00 03.08	-06 19 35.6	20.2 V	691
1997 ML ₈	1997 07 06.34359	21 22 34.87	-12 55 34.1	18.5 V	691	1997 MU ₈	* 1997 06 29.37927	21 32 02.07	-12 30 35.8	20.5 V	691
1997 ML ₈	1997 07 06.37909	21 22 34.19	-12 55 48.1	18.4 V	691	1997 MU ₈	1997 06 29.40053	21 32 01.74	-12 30 34.1	20.5 V	691
1997 MM ₈	* 1997 06 30.34439	21 25 44.14	-12 27 58.0	19.6 V	691	1997 MU ₈	1997 06 29.42184	21 32 01.36	-12 30 33.6	20.4 V	691
1997 MM ₈	1997 06 30.37250	21 25 43.48	-12 27 59.3	19.7 V	691	1997 MU ₈	1997 07 07.33282	21 29 18.61	-12 26 42.3	20.3 V	691
1997 MM ₈	1997 06 30.39401	21 25 43.00	-12 28 00.5	19.8 V	691	1997 MU ₈	1997 07 07.35627	21 29 18.00	-12 26 43.0	20.1 V	691
1997 MM ₈	1997 07 06.31042	21 23 11.16	-12 35 48.3	19.4 V	691	1997 MU ₈	1997 07 07.37782	21 29 17.37	-12 26 42.8	20.3 V	691
1997 MM ₈	1997 07 06.34400	21 23 10.09	-12 35 51.5	19.5 V	691	1997 MU ₈	1997 07 11.34230	21 27 23.00	-12 27 16.8	20.2 V	691
1997 MM ₈	1997 07 06.37950	21 23 08.98	-12 35 55.0	19.5 V	691	1997 MU ₈	1997 07 11.36452	21 27 22.28	-12 27 17.2	20.0 V	691
1997 MN ₈	* 1997 06 30.34532	21 27 04.44	-12 07 45.5	20.5 V	691	1997 MU ₈	1997 07 11.38667	21 27 21.62	-12 27 17.7	20.4 V	691
1997 MN ₈	1997 06 30.37343	21 27 03.84	-12 07 53.7	20.6 V	691	1997 MV ₈	* 1997 06 29.37937	21 32 10.59	-12 37 36.0	19.0 V	691
1997 MN ₈	1997 06 30.39494	21 27 03.42	-12 07 59.7	20.7 V	691	1997 MV ₈	1997 06 29.40062	21 32 10.19	-12 37 26.3	18.9 V	691
1997 MN ₈	1997 07 06.31153	21 24 47.65	-12 39 06.5	20.4 V	691	1997 MV ₈	1997 06 29.42194	21 32 09.79	-12 37 16.7	19.0 V	691

1997 MV ₈	1997 07 07.40066	21 28 54.20	-11 39 58.5	18.7 V	691	1997 MC ₉	* 1997 06 30.34941	21 32 58.60	-11 58 27.2	20.2 V	691
1997 MV ₈	1997 07 07.42174	21 28 53.41	-11 39 49.7	18.6 V	691	1997 MC ₉	1997 06 30.37752	21 32 58.21	-11 58 31.9	20.1 V	691
1997 MV ₈	1997 07 07.44622	21 28 52.68	-11 39 39.5	18.4 V	691	1997 MC ₉	1997 06 30.39903	21 32 57.90	-11 58 35.3	20.4 V	691
1997 MV ₈	1997 07 11.40922	21 26 29.52	-11 13 23.1	18.8 V	691	1997 MC ₉	1997 07 07.33394	21 30 55.39	-12 20 47.9	20.4 V	691
1997 MV ₈	1997 07 11.42735	21 26 28.71	-11 13 16.3	18.6 V	691	1997 MC ₉	1997 07 07.35738	21 30 54.85	-12 20 53.7	20.3 V	691
1997 MV ₈	1997 07 11.44564	21 26 27.94	-11 13 09.0	18.6 V	691	1997 MC ₉	1997 07 07.37894	21 30 54.34	-12 20 58.4	20.0 V	691
1997 MW ₈	* 1997 06 29.38095	21 34 27.16	-12 43 28.2	21.2 V	691	1997 MC ₉	1997 07 10.36123	21 29 43.52	-12 32 24.5	20.2 V	691
1997 MW ₈	1997 06 29.40220	21 34 26.71	-12 43 22.9	21.2 V	691	1997 MC ₉	1997 07 10.38836	21 29 42.78	-12 32 31.1	19.9 V	691
1997 MW ₈	1997 06 29.42352	21 34 26.27	-12 43 17.3	21.2 V	691	1997 MC ₉	1997 07 10.41013	21 29 42.21	-12 32 36.7	19.9 V	691
1997 MW ₈	1997 07 07.33407	21 31 06.42	-12 11 17.0	20.8 V	691	1997 MD ₉	* 1997 06 30.35225	21 37 04.62	-12 01 42.0	20.4 V	691
1997 MW ₈	1997 07 07.35751	21 31 05.68	-12 11 12.1	20.8 V	691	1997 MD ₉	1997 06 30.38036	21 37 04.22	-12 01 43.8	20.6 V	691
1997 MW ₈	1997 07 07.37906	21 31 04.92	-12 11 08.2	21.2 V	691	1997 MD ₉	1997 06 30.40187	21 37 03.89	-12 01 44.6	20.4 V	691
1997 MX ₈	* 1997 06 29.38566	21 41 15.72	-12 35 15.5	20.4 V	691	1997 MD ₉	1997 07 07.33677	21 35 00.79	-12 09 16.8	20.3 V	691
1997 MX ₈	1997 06 29.40692	21 41 15.54	-12 35 10.3	20.3 V	691	1997 MD ₉	1997 07 07.36022	21 35 00.22	-12 09 18.8	20.5 V	691
1997 MX ₈	1997 06 29.42824	21 41 15.39	-12 35 05.3	20.2 V	691	1997 MD ₉	1997 07 07.38177	21 34 59.71	-12 09 21.9	20.4 V	691
1997 MX ₈	1997 07 07.33992	21 39 33.54	-12 08 36.5	19.9 V	691	1997 ME ₉	* 1997 06 30.35238	21 37 16.69	-11 58 27.3	20.6 V	691
1997 MX ₈	1997 07 07.36337	21 39 33.00	-12 08 33.7	20.4 V	691	1997 ME ₉	1997 06 30.38050	21 37 16.27	-11 58 27.7	20.5 V	691
1997 MX ₈	1997 07 07.38492	21 39 32.53	-12 08 29.5	19.7 V	691	1997 ME ₉	1997 06 30.40201	21 37 15.89	-11 58 27.7	20.5 V	691
1997 MX ₈	1997 07 11.34960	21 37 55.71	-11 58 06.2	19.7 V	691	1997 ME ₉	1997 07 07.33672	21 34 56.51	-12 02 13.7	20.3 V	691
1997 MX ₈	1997 07 11.37182	21 37 55.03	-11 58 03.1	19.6 V	691	1997 ME ₉	1997 07 07.36017	21 34 55.89	-12 02 14.7	20.2 V	691
1997 MX ₈	1997 07 11.39397	21 37 54.32	-11 58 00.3	20.0 V	691	1997 ME ₉	1997 07 07.38172	21 34 55.32	-12 02 17.1	20.4 V	691
1997 MX ₈	1997 07 12.35524	21 37 26.37	-11 55 46.6	19.9 V	691	1997 ME ₉	1997 07 11.34623	21 33 03.89	-12 07 10.4	20.2 V	691
1997 MX ₈	1997 07 12.37927	21 37 25.61	-11 55 43.5	20.1 V	691	1997 ME ₉	1997 07 11.36846	21 33 03.19	-12 07 12.9	20.0 V	691
1997 MX ₈	1997 07 12.40087	21 37 24.91	-11 55 40.4	19.9 V	691	1997 ME ₉	1997 07 11.39060	21 33 02.43	-12 07 14.8	20.0 V	691
1997 MY ₈	* 1997 06 30.34130	21 21 16.46	-12 08 16.5	19.4 V	691	1997 MF ₉	* 1997 06 30.35378	21 39 17.88	-12 10 33.6	20.1 V	691
1997 MY ₈	1997 06 30.36942	21 21 16.05	-12 08 14.7	19.6 V	691	1997 MF ₉	1997 06 30.38190	21 39 17.32	-12 10 32.4	20.5 V	691
1997 MY ₈	1997 06 30.39093	21 21 15.71	-12 08 13.3	19.6 V	691	1997 MF ₉	1997 06 30.40341	21 39 16.86	-12 10 31.8	20.3 V	691
1997 MY ₈	1997 07 07.32573	21 19 04.44	-12 04 30.9	19.3 V	691	1997 MF ₉	1997 07 07.33779	21 36 29.32	-12 09 31.3	20.3 V	691
1997 MY ₈	1997 07 07.34918	21 19 03.79	-12 04 30.8	19.5 V	691	1997 MF ₉	1997 07 07.36124	21 36 28.58	-12 09 31.8	20.7 V	691
1997 MY ₈	1997 07 07.37073	21 19 03.21	-12 04 29.2	19.3 V	691	1997 MF ₉	1997 07 07.38279	21 36 27.89	-12 09 32.7	19.9 V	691
1997 MY ₈	1997 07 11.33562	21 17 12.47	-12 05 16.0	19.3 V	691	1997 MF ₉	1997 07 12.41937	21 33 41.53	-12 12 20.7	20.4 V	691
1997 MY ₈	1997 07 11.35784	21 17 11.72	-12 05 16.3	19.1 V	691	1997 MF ₉	1997 07 12.43980	21 33 40.68	-12 12 21.5	20.8 V	691
1997 MY ₈	1997 07 11.37998	21 17 10.95	-12 05 16.9	19.1 V	691	1997 MF ₉	1997 07 12.46220	21 33 39.86	-12 12 22.8	20.8 V	691
1997 MZ ₈	* 1997 06 30.34131	21 21 17.27	-12 11 11.0	19.8 V	691	1997 MG ₉	* 1997 06 30.35572	21 42 05.46	-12 08 47.6	20.9 V	691
1997 MZ ₈	1997 06 30.36942	21 21 16.48	-12 11 12.5	19.9 V	691	1997 MG ₉	1997 06 30.38383	21 42 04.96	-12 08 48.9	21.0 V	691
1997 MZ ₈	1997 06 30.39093	21 21 15.87	-12 11 13.8	19.9 V	691	1997 MG ₉	1997 06 30.40534	21 42 04.56	-12 08 49.4	21.0 V	691
1997 MZ ₈	1997 07 07.32485	21 17 33.06	-12 22 24.9	20.2 V	691	1997 MG ₉	1997 07 07.33987	21 39 29.37	-12 15 39.6	20.7 V	691
1997 MZ ₈	1997 07 07.34829	21 17 32.12	-12 22 27.5	19.9 V	691	1997 MG ₉	1997 07 07.36332	21 39 28.76	-12 15 40.4	19.9 V	691
1997 MA ₉	* 1997 06 30.34237	21 22 49.01	-12 00 53.6	20.0 V	691	1997 MG ₉	1997 07 07.38487	21 39 28.05	-12 15 44.2	21.0 V	691
1997 MA ₉	1997 06 30.37048	21 22 48.40	-12 00 55.2	19.9 V	691	1997 MG ₉	1997 07 11.34925	21 37 25.12	-12 22 31.0	20.7 V	691
1997 MA ₉	1997 06 30.39199	21 22 47.92	-12 00 56.4	19.8 V	691	1997 MG ₉	1997 07 11.37147	21 37 24.34	-12 22 33.6	20.5 V	691
1997 MA ₉	1997 07 07.32626	21 19 50.28	-12 12 09.0	20.4 V	691	1997 MG ₉	1997 07 11.39361	21 37 23.54	-12 22 35.9	20.6 V	691
1997 MA ₉	1997 07 07.34970	21 19 49.52	-12 12 11.1	20.6 V	691	1997 MH ₉	* 1997 06 30.35624	21 42 50.89	-12 16 00.8	20.3 V	691
1997 MB ₉	* 1997 06 30.34435	21 25 40.95	-12 03 01.0	17.9 V	691	1997 MH ₉	1997 06 30.38436	21 42 50.49	-12 15 59.3	20.8 V	691
1997 MB ₉	1997 06 30.37246	21 25 40.11	-12 02 53.5	17.8 V	691	1997 MH ₉	1997 06 30.40587	21 42 50.22	-12 15 57.7	20.3 V	691
1997 MB ₉	1997 06 30.39397	21 25 39.47	-12 02 48.0	17.8 V	691	1997 MH ₉	1997 07 07.34092	21 40 59.75	-12 10 07.7	20.2 V	691
1997 MB ₉	1997 07 07.39575	21 21 49.13	-11 34 49.1	17.7 V	691	1997 MH ₉	1997 07 07.36436	21 40 59.23	-12 10 07.7	20.5 V	691
1997 MB ₉	1997 07 07.41683	21 21 48.35	-11 34 44.6	17.6 V	691	1997 MH ₉	1997 07 07.38592	21 40 58.72	-12 10 07.1	20.0 V	691
1997 MB ₉	1997 07 07.44131	21 21 47.34	-11 34 39.8	17.4 V	691	1997 MJ ₉	* 1997 06 26.17789	15 39 57.99	-13 44 58.9	19.4 V	691
1997 MB ₉	1997 07 11.40416	21 19 10.87	-11 20 09.3	17.5 V	691	1997 MJ ₉	1997 06 26.19932	15 39 57.32	-13 44 58.2	19.5 V	691
1997 MB ₉	1997 07 11.42228	21 19 10.08	-11 20 05.8	17.6 V	691	1997 MJ ₉	1997 06 26.22103	15 39 56.49	-13 44 57.6	19.4 V	691
1997 MB ₉	1997 07 11.44058	21 19 09.30	-11 20 02.0	17.6 V	691	1997 MJ ₉	1997 07 08.17828	15 35 26.96	-13 46 29.5	19.3 V	691

1997 MJ ₉	1997 07 08.19998	15 35 26.66	-13 46 30.3	19.2 V	691	1997 MR ₉	1997 07 08.44084	21 09 35.80	-01 00 35.9	19.0 V	691
1997 MJ ₉	1997 07 08.22164	15 35 26.36	-13 46 31.7	19.4 V	691	1997 MR ₉	1997 07 13.38851	21 06 46.05	-01 12 17.5	18.9 V	691
1997 MK ₉	* 1997 06 26.24603	16 06 22.01	-07 32 33.3	20.1 V	691	1997 MR ₉	1997 07 13.40975	21 06 45.19	-01 12 21.3	18.8 V	691
1997 MK ₉	1997 06 26.26742	16 06 21.32	-07 32 33.8	19.9 V	691	1997 MR ₉	1997 07 13.43092	21 06 44.37	-01 12 25.0	18.8 V	691
1997 MK ₉	1997 06 26.28849	16 06 20.65	-07 32 35.0	20.0 V	691	1997 MS ₉	* 1997 06 29.17043	15 38 54.66	-12 17 45.1	19.6 V	691
1997 MK ₉	1997 07 08.24648	16 01 48.28	-07 49 27.4	20.3 V	691	1997 MS ₉	1997 06 29.19198	15 38 53.99	-12 17 57.5	19.6 V	691
1997 MK ₉	1997 07 08.26841	16 01 47.95	-07 49 29.8	20.5 V	691	1997 MS ₉	1997 06 29.21352	15 38 53.31	-12 18 09.8	19.7 V	691
1997 MK ₉	1997 07 08.29001	16 01 47.58	-07 49 32.8	20.5 V	691	1997 MS ₉	1997 07 08.17832	15 35 30.16	-13 43 07.7	20.0 V	691
1997 ML ₉	* 1997 06 26.31543	21 10 50.66	-01 47 54.8	20.1 V	691	1997 MS ₉	1997 07 08.20001	15 35 29.77	-13 43 19.6	20.0 V	691
1997 ML ₉	1997 06 26.33660	21 10 50.33	-01 47 53.1	20.1 V	691	1997 MS ₉	1997 07 08.22167	15 35 29.41	-13 43 32.1	20.0 V	691
1997 ML ₉	1997 06 26.35819	21 10 49.99	-01 47 51.1	19.8 V	691	1997 MT ₉	* 1997 06 26.40900	21 22 07.49	-01 11 45.1	20.7 V	691
1997 ML ₉	1997 07 08.32168	21 06 31.51	-01 43 22.6	19.7 V	691	1997 MT ₉	1997 06 26.43000	21 22 07.31	-01 11 40.8	20.7 V	691
1997 ML ₉	1997 07 08.34880	21 06 30.69	-01 43 23.6	19.5 V	691	1997 MT ₉	1997 07 09.35204	21 18 22.96	-00 45 49.3	20.3 V	691
1997 ML ₉	1997 07 08.37003	21 06 30.05	-01 43 24.5	19.5 V	691	1997 MT ₉	1997 07 09.37327	21 18 22.36	-00 45 48.4	20.3 V	691
1997 ML ₉	1997 07 13.31969	21 03 54.77	-01 48 56.7	19.8 V	691	1997 MT ₉	1997 07 09.39427	21 18 21.78	-00 45 47.3	20.4 V	691
1997 ML ₉	1997 07 13.34166	21 03 54.07	-01 48 58.0	19.7 V	691	1997 MU ₉	* 1997 06 27.31401	21 20 34.50	-00 36 35.3	20.0 V	691
1997 ML ₉	1997 07 13.36335	21 03 53.31	-01 49 00.4	19.6 V	691	1997 MU ₉	1997 06 27.33517	21 20 34.05	-00 36 33.6	19.8 V	691
1997 MM ₉	* 1997 06 26.31549	21 10 55.33	-01 40 07.1	19.5 V	691	1997 MU ₉	1997 06 27.35642	21 20 33.61	-00 36 31.7	19.8 V	691
1997 MM ₉	1997 06 26.33665	21 10 54.92	-01 40 01.9	19.7 V	691	1997 MU ₉	1997 07 09.34979	21 15 08.03	-00 27 39.2	20.2 V	691
1997 MM ₉	1997 06 26.35825	21 10 54.51	-01 39 56.4	19.7 V	691	1997 MU ₉	1997 07 09.37102	21 15 07.29	-00 27 39.6	20.2 V	691
1997 MM ₉	1997 07 08.39215	21 05 48.69	-01 00 57.7	19.4 V	691	1997 MU ₉	1997 07 09.39201	21 15 06.55	-00 27 39.6	20.1 V	691
1997 MM ₉	1997 07 08.41474	21 05 47.93	-01 00 54.7	19.3 V	691	1997 MV ₉	* 1997 06 27.30478	21 07 14.97	-00 43 17.2	20.7 V	691
1997 MM ₉	1997 07 08.43820	21 05 47.14	-01 00 51.4	19.2 V	691	1997 MV ₉	1997 06 27.32595	21 07 14.64	-00 43 12.4	20.3 V	691
1997 MN ₉	* 1997 06 26.37761	21 07 22.85	-01 27 34.9	20.1 V	691	1997 MV ₉	1997 06 27.34720	21 07 14.29	-00 43 07.4	20.4 V	691
1997 MN ₉	1997 06 26.39878	21 07 22.38	-01 27 31.1	20.5 V	691	1997 MV ₉	1997 07 10.28747	21 02 11.11	-00 08 54.9	20.3 V	691
1997 MN ₉	1997 06 26.41978	21 07 21.87	-01 27 27.0	20.5 V	691	1997 MV ₉	1997 07 10.30847	21 02 10.40	-00 08 52.2	20.3 V	691
1997 MN ₉	1997 07 08.38927	21 01 39.21	-01 02 26.2	19.9 V	691	1997 MV ₉	1997 07 10.32963	21 02 09.71	-00 08 50.7	20.1 V	691
1997 MN ₉	1997 07 08.41186	21 01 38.38	-01 02 24.6	19.9 V	691	1997 MW ₉	* 1997 06 29.37814	21 30 24.03	-13 00 00.7	20.1 V	691
1997 MN ₉	1997 07 08.43532	21 01 37.52	-01 02 22.8	20.0 V	691	1997 MW ₉	1997 06 29.39939	21 30 23.51	-12 59 58.1	20.2 V	691
1997 MO ₉	* 1997 06 27.25044	16 11 22.59	-07 13 55.9	18.3 V	691	1997 MW ₉	1997 06 29.42071	21 30 23.01	-12 59 56.3	20.1 V	691
1997 MO ₉	1997 06 27.27149	16 11 21.89	-07 13 59.2	18.4 V	691	1997 MW ₉	1997 07 10.35797	21 25 00.95	-12 47 09.5	19.9 V	691
1997 MO ₉	1997 06 27.29264	16 11 21.17	-07 14 02.0	18.4 V	691	1997 MW ₉	1997 07 10.38509	21 24 59.94	-12 47 08.7	19.7 V	691
1997 MO ₉	1997 07 08.24984	16 06 39.30	-07 44 47.9	18.6 V	691	1997 MW ₉	1997 07 10.40686	21 24 59.14	-12 47 07.7	19.9 V	691
1997 MO ₉	1997 07 08.27177	16 06 38.85	-07 44 52.4	18.6 V	691	1997 MX ₉	* 1997 06 29.37839	21 30 45.38	-12 33 08.8	19.7 V	691
1997 MO ₉	1997 07 08.29336	16 06 38.42	-07 44 56.9	18.7 V	691	1997 MX ₉	1997 06 29.39964	21 30 45.04	-12 33 09.1	19.6 V	691
1997 MP ₉	* 1997 06 27.25085	16 11 57.87	-07 16 21.7	19.3 V	691	1997 MX ₉	1997 06 29.42096	21 30 44.69	-12 33 10.0	19.4 V	691
1997 MP ₉	1997 06 27.27189	16 11 57.13	-07 16 25.4	19.4 V	691	1997 MX ₉	1997 07 10.35899	21 26 30.08	-12 45 30.7	19.0 V	691
1997 MP ₉	1997 06 27.29305	16 11 56.39	-07 16 28.8	19.3 V	691	1997 MX ₉	1997 07 10.38612	21 26 29.18	-12 45 33.8	18.9 V	691
1997 MP ₉	1997 07 08.24996	16 06 49.00	-07 51 16.6	19.6 V	691	1997 MX ₉	1997 07 10.40790	21 26 28.47	-12 45 36.1	19.1 V	691
1997 MP ₉	1997 07 08.27188	16 06 48.49	-07 51 21.5	19.6 V	691	1997 MY ₉	* 1997 06 29.38181	21 35 41.71	-12 41 46.6	20.6 V	691
1997 MP ₉	1997 07 08.29347	16 06 48.01	-07 51 26.2	19.6 V	691	1997 MY ₉	1997 06 29.40306	21 35 41.37	-12 41 47.6	20.6 V	691
1997 MQ ₉	* 1997 06 27.30336	21 05 11.57	-00 54 28.8	18.6 V	691	1997 MY ₉	1997 06 29.42438	21 35 41.00	-12 41 50.0	20.4 V	691
1997 MQ ₉	1997 06 27.32452	21 05 11.05	-00 54 28.0	18.3 V	691	1997 MY ₉	1997 07 10.36240	21 31 25.08	-12 58 12.3	20.6 V	691
1997 MQ ₉	1997 06 27.34577	21 05 10.53	-00 54 27.5	18.3 V	691	1997 MY ₉	1997 07 10.38953	21 31 24.33	-12 58 14.9	19.9 V	691
1997 MQ ₉	1997 07 08.38804	20 59 41.21	-00 59 53.3	18.1 V	691	1997 MY ₉	1997 07 10.41130	21 31 23.50	-12 58 18.0	20.3 V	691
1997 MQ ₉	1997 07 08.41066	20 59 40.35	-00 59 55.3	18.1 V	691	1997 MZ ₉	* 1997 06 30.34518	21 26 52.99	-12 14 14.3	21.1 V	691
1997 MQ ₉	1997 07 08.43412	20 59 39.48	-00 59 57.2	18.1 V	691	1997 MZ ₉	1997 06 30.37330	21 26 52.49	-12 14 16.1	21.0 V	691
1997 MR ₉	* 1997 06 27.30956	21 14 08.84	-00 52 34.7	19.1 V	691	1997 MZ ₉	1997 06 30.39481	21 26 52.16	-12 14 16.6	21.3 V	691
1997 MR ₉	1997 06 27.33072	21 14 08.45	-00 52 34.3	19.0 V	691	1997 MZ ₉	1997 07 10.35680	21 23 20.26	-12 29 10.8	21.0 V	691
1997 MR ₉	1997 06 27.35197	21 14 08.07	-00 52 33.9	19.0 V	691	1997 MZ ₉	1997 07 10.38393	21 23 19.43	-12 29 13.6	20.7 V	691
1997 MR ₉	1997 07 08.39479	21 09 37.33	-01 00 30.8	18.9 V	691	1997 MZ ₉	1997 07 10.40571	21 23 18.87	-12 29 16.1	20.8 V	691
1997 MR ₉	1997 07 08.41738	21 09 36.57	-01 00 33.3	19.0 V	691	1997 MA ₁₀	* 1997 06 30.34877	21 32 03.33	-12 12 33.0	20.9 V	691

1997 MA ₁₀	1997 06 30.37688	21 32 02.80	-12 12 34.9	20.7 V	691	1997 MK ₁₀	1997 07 11.38369	21 23 03.76	-12 18 23.5	18.5 V	691
1997 MA ₁₀	1997 06 30.39839	21 32 02.45	-12 12 36.4	20.9 V	691	1997 MK ₁₀	1997 07 12.41158	21 22 27.21	-12 19 33.2	18.7 V	691
1997 MA ₁₀	1997 07 10.36025	21 28 19.17	-12 29 53.9	20.6 V	691	1997 MK ₁₀	1997 07 12.43202	21 22 26.49	-12 19 34.9	18.4 V	691
1997 MA ₁₀	1997 07 10.38738	21 28 18.37	-12 29 58.0	20.7 V	691	1997 MK ₁₀	1997 07 12.45442	21 22 25.66	-12 19 36.4	18.5 V	691
1997 MA ₁₀	1997 07 10.40916	21 28 17.69	-12 30 01.1	20.5 V	691	1997 ML ₁₀	* 1997 06 30.34708	21 29 37.39	-12 09 57.6	19.3 V	691
1997 MB ₁₀	* 1997 06 30.35252	21 37 28.34	-11 57 53.8	20.4 V	691	1997 ML ₁₀	1997 06 30.37520	21 29 36.78	-12 09 58.2	19.5 V	691
1997 MB ₁₀	1997 06 30.38063	21 37 27.87	-11 57 58.9	20.5 V	691	1997 ML ₁₀	1997 06 30.39670	21 29 36.32	-12 09 58.9	19.5 V	691
1997 MB ₁₀	1997 06 30.40214	21 37 27.52	-11 58 02.4	20.6 V	691	1997 ML ₁₀	1997 07 11.34014	21 24 16.10	-12 21 49.1	19.5 V	691
1997 MB ₁₀	1997 07 10.36396	21 33 40.56	-12 33 03.6	20.0 V	691	1997 ML ₁₀	1997 07 11.36236	21 24 15.22	-12 21 51.4	19.1 V	691
1997 MB ₁₀	1997 07 10.39109	21 33 39.68	-12 33 10.3	19.8 V	691	1997 ML ₁₀	1997 07 11.38450	21 24 14.32	-12 21 53.3	19.2 V	691
1997 MB ₁₀	1997 07 10.41286	21 33 38.98	-12 33 16.3	19.9 V	691	1997 ML ₁₀	1997 07 12.41236	21 23 34.72	-12 23 49.0	19.3 V	691
1997 MC ₁₀	* 1997 06 30.35524	21 41 24.19	-12 06 44.5	21.2 V	691	1997 ML ₁₀	1997 07 12.43280	21 23 33.83	-12 23 51.2	19.3 V	691
1997 MC ₁₀	1997 06 30.38336	21 41 23.72	-12 06 48.5	21.0 V	691	1997 ML ₁₀	1997 07 12.45519	21 23 32.93	-12 23 53.7	19.3 V	691
1997 MC ₁₀	1997 06 30.40487	21 41 23.36	-12 06 51.4	21.3 V	691	1997 MM ₁₀	* 1997 06 29.16905	15 36 55.22	-12 17 58.5	20.5 V	691
1997 MC ₁₀	1997 07 10.36688	21 37 53.14	-12 34 45.7	20.9 V	691	1997 MM ₁₀	1997 06 29.19061	15 36 54.83	-12 18 01.6	20.6 V	691
1997 MC ₁₀	1997 07 10.39401	21 37 52.38	-12 34 51.3	20.7 V	691	1997 MM ₁₀	1997 06 29.21214	15 36 54.42	-12 18 04.5	20.7 V	691
1997 MC ₁₀	1997 07 10.41578	21 37 51.79	-12 34 55.5	20.6 V	691	1997 MM ₁₀	1997 07 12.21029	15 35 26.01	-12 56 22.1	20.9 V	691
1997 ME ₁₀	* 1997 06 27.24574	16 04 35.18	-07 11 55.0	19.2 V	691	1997 MM ₁₀	1997 07 12.23307	15 35 26.06	-12 56 27.2	20.8 V	691
1997 ME ₁₀	1997 06 27.26678	16 04 34.45	-07 11 55.5	19.3 V	691	1997 MM ₁₀	1997 07 12.25510	15 35 26.11	-12 56 31.7	20.7 V	691
1997 ME ₁₀	1997 06 27.28794	16 04 33.74	-07 11 56.0	19.2 V	691	1997 MN ₁₀	* 1997 06 29.17628	15 47 21.14	-12 04 46.6	19.8 V	691
1997 ME ₁₀	1997 07 11.26448	15 59 09.45	-07 29 01.6	19.8 V	691	1997 MN ₁₀	1997 06 29.19783	15 47 20.75	-12 04 50.8	19.7 V	691
1997 ME ₁₀	1997 07 11.29717	15 59 08.95	-07 29 05.4	19.7 V	691	1997 MN ₁₀	1997 06 29.21937	15 47 20.35	-12 04 54.7	19.5 V	691
1997 ME ₁₀	1997 07 11.31898	15 59 08.66	-07 29 07.5	19.6 V	691	1997 MN ₁₀	1997 07 12.21842	15 47 10.26	-12 55 07.2	20.2 V	691
1997 MF ₁₀	* 1997 06 28.23246	15 58 41.17	-06 37 58.9	19.8 V	691	1997 MN ₁₀	1997 07 12.24120	15 47 10.49	-12 55 13.3	20.2 V	691
1997 MF ₁₀	1997 06 28.25361	15 58 40.45	-06 38 02.3	20.2 V	691	1997 MN ₁₀	1997 07 12.26324	15 47 10.72	-12 55 19.2	20.2 V	691
1997 MF ₁₀	1997 06 28.27525	15 58 39.63	-06 38 05.9	19.7 V	691	1997 MO ₁₀	* 1997 06 29.27358	16 01 17.83	-06 02 31.4	17.2 V	691
1997 MF ₁₀	1997 07 11.25991	15 52 34.11	-07 22 53.7	20.3 V	691	1997 MO ₁₀	1997 06 29.29473	16 01 17.19	-06 02 34.0	17.2 V	691
1997 MF ₁₀	1997 07 11.29261	15 52 33.40	-07 23 02.3	20.1 V	691	1997 MO ₁₀	1997 06 29.31591	16 01 16.58	-06 02 36.5	17.2 V	691
1997 MF ₁₀	1997 07 11.31442	15 52 32.98	-07 23 06.9	20.6 V	691	1997 MO ₁₀	1997 07 12.27773	15 57 19.49	-06 40 58.7	17.4 V	691
1997 MG ₁₀	* 1997 06 29.16068	15 24 50.26	-12 03 10.0	18.5 V	691	1997 MO ₁₀	1997 07 12.29944	15 57 19.23	-06 41 03.9	17.3 V	691
1997 MG ₁₀	1997 06 29.18224	15 24 49.91	-12 03 17.0	18.5 V	691	1997 MO ₁₀	1997 07 12.32194	15 57 19.07	-06 41 08.6	17.4 V	691
1997 MG ₁₀	1997 06 29.20378	15 24 49.55	-12 03 25.5	18.6 V	691	1997 MP ₁₀	* 1997 06 30.18497	16 10 27.12	-06 24 15.3	18.8 V	691
1997 MG ₁₀	1997 07 11.17982	15 24 05.60	-13 23 35.4	18.7 V	691	1997 MP ₁₀	1997 06 30.19436	16 10 26.80	-06 24 16.1	19.0 V	691
1997 MG ₁₀	1997 07 11.21054	15 24 05.76	-13 23 47.3	18.9 V	691	1997 MP ₁₀	1997 06 30.20373	16 10 26.47	-06 24 17.1	19.1 V	691
1997 MG ₁₀	1997 07 11.23408	15 24 05.85	-13 23 57.1	18.7 V	691	1997 MP ₁₀	1997 07 12.28316	16 05 10.35	-06 46 26.3	19.3 V	691
1997 MH ₁₀	* 1997 06 29.16130	15 25 43.27	-12 13 20.7	18.1 V	691	1997 MP ₁₀	1997 07 12.30488	16 05 09.93	-06 46 29.1	19.3 V	691
1997 MH ₁₀	1997 06 29.18285	15 25 42.97	-12 13 24.3	18.5 V	691	1997 MP ₁₀	1997 07 12.32737	16 05 09.51	-06 46 32.7	19.7 V	691
1997 MH ₁₀	1997 06 29.20439	15 25 42.70	-12 13 29.0	18.3 V	691	1997 MQ ₁₀	* 1997 06 30.35506	21 41 08.70	-12 22 37.9	19.9 V	691
1997 MH ₁₀	1997 07 11.18105	15 25 54.33	-13 03 03.7	18.4 V	691	1997 MQ ₁₀	1997 06 30.38318	21 41 08.18	-12 22 32.4	20.2 V	691
1997 MH ₁₀	1997 07 11.21176	15 25 54.65	-13 03 10.9	18.8 V	691	1997 MQ ₁₀	1997 06 30.40469	21 41 07.80	-12 22 28.6	20.1 V	691
1997 MH ₁₀	1997 07 11.23530	15 25 54.87	-13 03 18.0	18.6 V	691	1997 MQ ₁₀	1997 07 12.35429	21 36 04.04	-11 50 49.2	19.7 V	691
1997 MJ ₁₀	* 1997 06 29.17824	15 50 11.45	-12 24 57.1	20.2 V	691	1997 MQ ₁₀	1997 07 12.37832	21 36 03.19	-11 50 46.1	19.6 V	691
1997 MJ ₁₀	1997 06 29.19980	15 50 10.83	-12 25 02.2	20.3 V	691	1997 MQ ₁₀	1997 07 12.39992	21 36 02.38	-11 50 43.8	19.5 V	691
1997 MJ ₁₀	1997 06 29.22133	15 50 10.20	-12 25 07.8	20.4 V	691	1997 MR ₁₀	* 1997 06 26.38309	21 15 17.63	-01 14 35.4	19.7 V	691
1997 MJ ₁₀	1997 07 11.19548	15 46 43.90	-13 17 06.6	20.7 V	691	1997 MR ₁₀	1997 06 26.40426	21 15 17.23	-01 14 33.3	19.7 V	691
1997 MJ ₁₀	1997 07 11.22617	15 46 43.65	-13 17 17.3	20.5 V	691	1997 MR ₁₀	1997 06 26.42526	21 15 16.82	-01 14 30.8	19.8 V	691
1997 MJ ₁₀	1997 07 11.24971	15 46 43.39	-13 17 23.3	21.0 V	691	1997 MR ₁₀	1997 07 13.38913	21 07 39.66	-01 04 14.5	19.6 V	691
1997 MK ₁₀	* 1997 06 30.34606	21 28 08.93	-12 13 01.4	19.0 V	691	1997 MR ₁₀	1997 07 13.41037	21 07 38.85	-01 04 15.3	19.4 V	691
1997 MK ₁₀	1997 06 30.37417	21 28 08.29	-12 13 01.3	18.8 V	691	1997 MR ₁₀	1997 07 13.43154	21 07 38.08	-01 04 16.4	19.2 V	691
1997 MK ₁₀	1997 06 30.39568	21 28 07.87	-12 13 01.1	18.8 V	691	1997 NA	* 1997 07 01.16378	15 27 32.75	-13 50 59.4	19.2 V	691
1997 MK ₁₀	1997 07 11.33933	21 23 05.40	-12 18 20.7	18.6 V	691	1997 NA	1997 07 01.18956	15 27 32.29	-13 50 56.6	19.2 V	691
1997 MK ₁₀	1997 07 11.36154	21 23 04.59	-12 18 22.5	18.4 V	691	1997 NA	1997 07 01.21100	15 27 31.95	-13 50 54.3	19.3 V	691

1997 NA	1997 07 02.16398	15 27 19.27	-13 49 18.1	19.3 V	691	1997 NG	1997 07 07.39987	21 27 46.34	-11 55 26.9	19.4 V	691
1997 NA	1997 07 02.19647	15 27 18.78	-13 49 14.5	19.5 V	691	1997 NG	1997 07 07.42095	21 27 45.56	-11 55 28.1	19.5 V	691
1997 NA	1997 07 02.24335	15 27 18.10	-13 49 10.5	19.6 V	691	1997 NG	1997 07 07.44543	21 27 44.76	-11 55 29.4	19.5 V	691
1997 NB	* 1997 07 01.16924	15 35 25.67	-13 32 59.9	17.3 V	691	1997 NG	1997 07 12.41318	21 24 45.83	-12 01 54.9	19.5 V	691
1997 NB	1997 07 01.19502	15 35 25.19	-13 33 04.9	17.4 V	691	1997 NG	1997 07 12.43362	21 24 44.94	-12 01 56.6	19.6 V	691
1997 NB	1997 07 01.21646	15 35 24.79	-13 33 08.5	17.3 V	691	1997 NG	1997 07 12.45601	21 24 44.07	-12 01 58.8	19.5 V	691
1997 NB	1997 07 02.16940	15 35 08.82	-13 36 00.2	17.7 V	691	1997 NH	* 1997 07 01.34485	21 32 24.14	-11 49 56.5	20.2 V	691
1997 NB	1997 07 02.20189	15 35 08.26	-13 36 05.9	17.7 V	691	1997 NH	1997 07 01.36588	21 32 23.81	-11 49 59.3	20.1 V	691
1997 NB	1997 07 02.24877	15 35 07.43	-13 36 14.3	17.8 V	691	1997 NH	1997 07 01.38696	21 32 23.43	-11 50 01.1	20.3 V	691
1997 NB	1997 07 08.17722	15 33 55.08	-13 55 30.0	17.6 V	691	1997 NH	1997 07 02.33624	21 32 08.17	-11 51 39.3	20.5 V	691
1997 NB	1997 07 08.19892	15 33 54.86	-13 55 34.3	17.6 V	691	1997 NH	1997 07 02.35802	21 32 07.78	-11 51 41.9	20.7 V	691
1997 NB	1997 07 08.22058	15 33 54.67	-13 55 38.7	17.6 V	691	1997 NH	1997 07 02.38018	21 32 07.34	-11 51 44.2	20.4 V	691
1997 NC	* 1997 07 01.34247	21 28 57.95	-11 51 52.4	18.2 V	691	1997 NH	1997 07 11.34313	21 28 35.28	-12 13 51.7	20.0 V	691
1997 NC	1997 07 01.36350	21 28 57.49	-11 51 49.6	18.0 V	691	1997 NH	1997 07 11.36535	21 28 34.57	-12 13 54.5	20.2 V	691
1997 NC	1997 07 01.38458	21 28 57.00	-11 51 46.3	18.1 V	691	1997 NH	1997 07 11.38750	21 28 33.90	-12 13 59.1	20.2 V	691
1997 NC	1997 07 02.33379	21 28 36.39	-11 49 29.8	18.2 V	691	1997 NJ	* 1997 07 01.34644	21 34 42.06	-11 51 22.6	21.1 V	691
1997 NC	1997 07 02.35557	21 28 35.88	-11 49 26.7	18.2 V	691	1997 NJ	1997 07 01.36747	21 34 41.71	-11 51 25.8	21.1 V	691
1997 NC	1997 07 02.37773	21 28 35.31	-11 49 23.2	18.3 V	691	1997 NJ	1997 07 01.38855	21 34 41.36	-11 51 28.6	21.3 V	691
1997 ND	* 1997 07 01.34323	21 30 03.93	-11 26 27.1	20.3 V	691	1997 NJ	1997 07 02.33784	21 34 26.98	-11 53 53.5	21.2 V	691
1997 ND	1997 07 01.36426	21 30 03.68	-11 26 24.0	20.6 V	691	1997 NJ	1997 07 02.35962	21 34 26.58	-11 53 56.7	21.0 V	691
1997 ND	1997 07 01.38534	21 30 03.37	-11 26 20.6	20.3 V	691	1997 NJ	1997 07 02.38178	21 34 26.19	-11 54 00.4	20.8 V	691
1997 ND	1997 07 02.40236	21 29 51.39	-11 23 40.7	20.6 V	691	1997 NK	* 1997 07 01.34649	21 34 46.08	-11 32 02.4	20.9 V	691
1997 ND	1997 07 02.43456	21 29 50.89	-11 23 36.0	20.5 V	691	1997 NK	1997 07 01.36752	21 34 45.81	-11 31 59.0	21.0 V	691
1997 ND	1997 07 02.45243	21 29 50.62	-11 23 33.2	20.7 V	691	1997 NK	1997 07 01.38860	21 34 45.48	-11 31 55.0	21.5 V	691
1997 ND	1997 07 11.40930	21 26 36.17	-11 07 25.1	20.1 V	691	1997 NK	1997 07 02.33792	21 34 33.61	-11 29 03.9	20.9 V	691
1997 ND	1997 07 11.42743	21 26 35.55	-11 07 23.7	20.1 V	691	1997 NK	1997 07 02.35970	21 34 33.21	-11 29 00.3	21.1 V	691
1997 ND	1997 07 11.44572	21 26 34.96	-11 07 22.6	20.2 V	691	1997 NK	1997 07 02.38186	21 34 32.88	-11 28 56.3	20.5 V	691
1997 NE	* 1997 07 01.34346	21 30 23.76	-11 48 43.4	20.6 V	691	1997 NK	1997 07 11.41262	21 31 23.65	-11 06 47.3	20.7 V	691
1997 NE	1997 07 01.36449	21 30 23.25	-11 48 45.6	20.7 V	691	1997 NK	1997 07 11.43075	21 31 23.12	-11 06 45.4	20.6 V	691
1997 NE	1997 07 01.38557	21 30 22.70	-11 48 46.6	21.0 V	691	1997 NK	1997 07 11.44904	21 31 22.57	-11 06 43.0	20.8 V	691
1997 NE	1997 07 02.33475	21 29 59.25	-11 49 54.1	21.1 V	691	1997 NL	* 1997 07 01.34967	21 39 21.92	-11 29 58.4	19.6 V	691
1997 NE	1997 07 02.37869	21 29 58.03	-11 49 57.1	20.5 V	691	1997 NL	1997 07 01.37070	21 39 21.42	-11 29 59.0	20.1 V	691
1997 NE	1997 07 07.33160	21 27 33.05	-11 57 49.8	20.8 V	691	1997 NL	1997 07 01.39178	21 39 20.98	-11 29 59.9	20.2 V	691
1997 NE	1997 07 07.35505	21 27 32.20	-11 57 51.9	20.7 V	691	1997 NL	1997 07 02.34102	21 39 01.93	-11 30 30.7	20.3 V	691
1997 NE	1997 07 07.37660	21 27 31.47	-11 57 54.5	20.9 V	691	1997 NL	1997 07 02.36279	21 39 01.47	-11 30 31.8	20.3 V	691
1997 NE	1997 07 11.34076	21 25 09.77	-12 06 30.8	20.8 V	691	1997 NL	1997 07 02.38496	21 39 00.98	-11 30 32.8	20.1 V	691
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1997 NE	1997 07 11.38512	21 25 07.99	-12 06 36.7	20.4 V	691	1997 NM	1997 07 01.37100	21 39 47.54	-11 42 38.7	21.1 V	691
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1997 NF	1997 07 01.36461	21 30 33.95	-11 27 27.0	18.6 V	691	1997 NM	1997 07 02.34140	21 39 35.13	-11 46 36.9	20.8 V	691
1997 NF	1997 07 01.38569	21 30 33.60	-11 27 29.6	19.0 V	691	1997 NM	1997 07 02.36318	21 39 34.72	-11 46 42.3	21.1 V	691
1997 NF	1997 07 02.33497	21 30 17.95	-11 29 22.0	19.1 V	691	1997 NM	1997 07 02.38534	21 39 34.38	-11 46 48.0	20.6 V	691
1997 NF	1997 07 02.35674	21 30 17.53	-11 29 25.0	18.8 V	691	1997 NN	* 1997 07 01.35115	21 41 29.81	-11 31 48.3	18.2 V	691
1997 NF	1997 07 12.34764	21 26 28.21	-11 55 45.7	18.7 V	691	1997 NN	1997 07 01.37218	21 41 29.43	-11 31 45.1	18.3 V	691
1997 NF	1997 07 12.37168	21 26 27.49	-11 55 50.5	18.8 V	691	1997 NN	1997 07 01.39326	21 41 29.06	-11 31 41.9	18.2 V	691
1997 NF	1997 07 12.39327	21 26 26.86	-11 55 54.5	18.6 V	691	1997 NN	1997 07 02.34254	21 41 13.83	-11 29 17.7	18.4 V	691
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1997 NG	1997 07 01.36470	21 30 41.56	-11 51 08.4	19.4 V	691	1997 NN	1997 07 02.38648	21 41 12.89	-11 29 12.9	18.6 V	691
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1997 NP	1997 07 01.39484	21 43 45.52	-11 56 00.7	19.0 V	691	1997 NK ₁	1997 07 12.43605	21 28 15.68	-12 00 15.1	18.8 V	691
1997 NP	1997 07 02.34411	21 43 29.90	-11 55 36.2	18.9 V	691	1997 NK ₁	1997 07 12.45845	21 28 14.97	-12 00 17.0	18.7 V	691
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1997 NP	1997 07 02.38805	21 43 29.05	-11 55 35.5	18.8 V	691	1997 NL ₁	1997 07 02.36377	21 40 26.52	-11 32 08.3	19.7 V	691
1997 NP	1997 07 07.40956	21 41 45.55	-11 55 03.4	18.4 V	691	1997 NL ₁	1997 07 02.38594	21 40 26.18	-11 32 08.4	19.6 V	691
1997 NP	1997 07 07.43064	21 41 45.03	-11 55 04.1	18.3 V	691	1997 NL ₁	1997 07 07.40762	21 38 57.23	-11 32 59.2	19.4 V	691
1997 NP	1997 07 07.45512	21 41 44.38	-11 55 03.5	18.4 V	691	1997 NL ₁	1997 07 07.42870	21 38 56.74	-11 33 00.3	19.4 V	691
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1997 ND ₁	1997 07 03.29605	16 07 03.64	-06 18 43.0	20.5 V	691	1997 NM ₁	1997 07 02.36416	21 40 59.69	-11 43 59.8	20.6 V	691
1997 ND ₁	1997 07 06.25260	16 05 37.16	-06 44 51.1	20.1 V	691	1997 NM ₁	1997 07 02.38632	21 40 59.14	-11 44 02.3	20.3 V	691
1997 ND ₁	1997 07 06.27355	16 05 36.59	-06 45 02.0	19.9 V	691	1997 NM ₁	1997 07 07.40748	21 38 45.14	-11 53 31.3	20.3 V	691
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1997 NE ₁	* 1997 07 02.32819	21 20 31.00	-11 47 44.3	20.9 V	691	1997 NM ₁	1997 07 07.45304	21 38 43.67	-11 53 37.9	19.9 V	691
1997 NE ₁	1997 07 02.34997	21 20 30.46	-11 47 41.1	20.8 V	691	1997 NM ₁	1997 07 11.34864	21 36 32.33	-12 03 29.2	20.1 V	691
1997 NE ₁	1997 07 02.37213	21 20 29.95	-11 47 38.2	20.3 V	691	1997 NM ₁	1997 07 11.37086	21 36 31.38	-12 03 31.9	19.5 V	691
1997 NE ₁	1997 07 07.39333	21 18 19.50	-11 37 53.9	20.4 V	691	1997 NM ₁	1997 07 11.39300	21 36 30.61	-12 03 36.0	19.7 V	691
1997 NE ₁	1997 07 07.41441	21 18 18.77	-11 37 51.9	20.6 V	691	1997 NM ₁	1997 07 12.42088	21 35 51.97	-12 06 33.5	20.3 V	691
1997 NE ₁	1997 07 07.43889	21 18 17.93	-11 37 50.2	20.4 V	691	1997 NM ₁	1997 07 12.44131	21 35 51.14	-12 06 37.2	20.2 V	691
1997 NF ₁	* 1997 07 02.32996	21 23 04.30	-11 29 26.0	18.4 V	691	1997 NM ₁	1997 07 12.46370	21 35 50.24	-12 06 40.9	20.2 V	691
1997 NF ₁	1997 07 02.35174	21 23 03.67	-11 29 25.7	18.4 V	691	1997 NN ₁	* 1997 07 02.34242	21 41 03.94	-11 46 19.2	20.4 V	691
1997 NF ₁	1997 07 02.37390	21 23 03.03	-11 29 24.9	18.4 V	691	1997 NN ₁	1997 07 02.36420	21 41 03.56	-11 46 22.8	20.1 V	691
1997 NF ₁	1997 07 07.39481	21 20 28.17	-11 28 38.1	18.2 V	691	1997 NN ₁	1997 07 02.38637	21 41 03.14	-11 46 27.1	20.1 V	691
1997 NF ₁	1997 07 07.44037	21 20 26.46	-11 28 38.7	18.1 V	691	1997 NN ₁	1997 07 07.33983	21 39 25.35	-12 02 27.7	20.0 V	691
1997 NG ₁	* 1997 07 02.33213	21 26 12.31	-11 42 48.1	20.5 V	691	1997 NN ₁	1997 07 07.36327	21 39 24.74	-12 02 34.0	20.2 V	691
1997 NG ₁	1997 07 02.35391	21 26 11.78	-11 42 49.5	20.2 V	691	1997 NN ₁	1997 07 07.38482	21 39 24.18	-12 02 39.1	20.1 V	691
1997 NG ₁	1997 07 02.37607	21 26 11.26	-11 42 51.2	20.1 V	691	1997 NN ₁	1997 07 11.34941	21 37 38.60	-12 18 18.8	20.3 V	691
1997 NG ₁	1997 07 07.39729	21 24 02.56	-11 50 46.5	20.1 V	691	1997 NN ₁	1997 07 11.37163	21 37 37.91	-12 18 24.6	20.0 V	691
1997 NG ₁	1997 07 07.41837	21 24 01.90	-11 50 49.1	20.0 V	691	1997 NN ₁	1997 07 11.39377	21 37 37.20	-12 18 29.7	20.0 V	691
1997 NG ₁	1997 07 07.44285	21 24 01.21	-11 50 52.2	20.1 V	691	1997 NN ₁	1997 07 12.42173	21 37 05.86	-12 22 57.6	20.3 V	691
1997 NG ₁	1997 07 11.33856	21 21 59.20	-11 59 06.0	20.0 V	691	1997 NN ₁	1997 07 12.44216	21 37 05.19	-12 23 02.9	20.3 V	691
1997 NG ₁	1997 07 11.36078	21 21 58.37	-11 59 09.0	20.1 V	691	1997 NN ₁	1997 07 12.46456	21 37 04.47	-12 23 08.7	20.0 V	691
1997 NG ₁	1997 07 11.38293	21 21 57.60	-11 59 12.3	20.1 V	691	1997 NO ₁	* 1997 07 02.34368	21 42 53.06	-11 54 06.3	20.4 V	691
1997 NH ₁	* 1997 07 02.33273	21 27 04.52	-11 47 14.9	19.3 V	691	1997 NO ₁	1997 07 02.36546	21 42 52.76	-11 54 10.3	20.0 V	691
1997 NH ₁	1997 07 02.35451	21 27 03.89	-11 47 13.6	19.0 V	691	1997 NO ₁	1997 07 02.38763	21 42 52.46	-11 54 15.2	20.1 V	691
1997 NH ₁	1997 07 07.37667	21 27 03.29	-11 47 10.4	19.2 V	691	1997 NO ₁	1997 07 07.34135	21 41 37.31	-12 12 13.8	19.8 V	691
1997 NH ₁	1997 07 07.39762	21 24 31.05	-11 40 46.7	18.9 V	691	1997 NO ₁	1997 07 07.36480	21 41 36.83	-12 12 20.5	19.8 V	691
1997 NH ₁	1997 07 07.41870	21 24 30.26	-11 40 45.5	18.9 V	691	1997 NO ₁	1997 07 07.38635	21 41 36.37	-12 12 26.4	19.7 V	691
1997 NH ₁	1997 07 07.44318	21 24 29.40	-11 40 44.5	19.0 V	691	1997 NP ₁	* 1997 07 02.39762	21 23 00.99	-11 03 40.8	19.6 V	691
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1997 NJ ₁	1997 07 07.42077	21 27 30.22	-11 35 31.3	19.7 V	691	1997 NQ ₁	* 1997 07 02.40096	21 27 50.54	-11 03 46.2	19.3 V	691
1997 NJ ₁	1997 07 07.44526	21 27 29.51	-11 35 30.6	19.6 V	691	1997 NQ ₁	1997 07 02.43316	21 27 50.22	-11 04 04.6	19.5 V	691
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1997 NQ ₁	1997 07 07.44479	21 26 48.78	-11 54 14.6	19.3 V	691	1997 NC ₂	* 1997 07 03.31305	21 04 27.33	-01 58 21.3	21.7 V	691
1997 NR ₁	* 1997 07 05.27742	16 47 23.19	-11 55 02.9	20.0 V	691	1997 NC ₂	1997 07 03.33389	21 04 26.80	-01 58 20.0	21.0 V	691
1997 NR ₁	1997 07 05.29573	16 47 22.44	-11 55 04.7	19.9 V	691	1997 NC ₂	1997 07 03.35509	21 04 26.15	-01 58 18.4	21.0 V	691
1997 NR ₁	1997 07 05.30661	16 47 22.00	-11 55 05.7	19.8 V	691	1997 NC ₂	1997 07 08.31856	21 02 01.12	-01 54 04.3	21.3 V	691
1997 NR ₁	1997 07 07.30430	16 46 07.31	-11 58 53.1	20.0 V	691	1997 NC ₂	1997 07 08.34568	21 02 00.25	-01 54 03.7	20.9 V	691
1997 NR ₁	1997 07 07.31451	16 46 06.93	-11 58 54.2	20.4 V	691	1997 NC ₂	1997 07 08.36690	21 01 59.52	-01 54 02.8	20.9 V	691
1997 NS ₁	* 1997 07 05.27928	16 50 04.27	-11 59 57.0	20.3 V	691	1997 ND ₂	* 1997 07 03.31616	21 08 56.83	-01 41 58.1	19.3 V	691
1997 NS ₁	1997 07 05.29759	16 50 03.73	-12 00 00.6	20.2 V	691	1997 ND ₂	1997 07 03.33700	21 08 56.05	-01 41 52.5	18.8 V	691
1997 NS ₁	1997 07 05.30847	16 50 03.42	-12 00 02.8	20.5 V	691	1997 ND ₂	1997 07 03.35819	21 08 55.22	-01 41 46.8	19.0 V	691
1997 NS ₁	1997 07 07.30646	16 49 14.99	-12 06 57.9	21.4 V	691	1997 ND ₂	1997 07 08.39197	21 05 33.04	-01 21 28.9	18.8 V	691
1997 NS ₁	1997 07 07.31668	16 49 14.79	-12 07 00.3	21.5 V	691	1997 ND ₂	1997 07 08.41456	21 05 32.01	-01 21 24.2	18.9 V	691
1997 NT ₁	* 1997 07 05.27959	16 50 31.07	-12 13 33.0	19.6 V	691	1997 ND ₂	1997 07 08.43802	21 05 30.95	-01 21 19.2	18.9 V	691
1997 NT ₁	1997 07 05.29790	16 50 30.46	-12 13 31.9	19.6 V	691	1997 ND ₂	1997 07 13.38499	21 01 41.04	-01 06 16.8	18.8 V	691
1997 NT ₁	1997 07 05.30878	16 50 30.07	-12 13 31.6	19.2 V	691	1997 ND ₂	1997 07 13.40622	21 01 39.98	-01 06 13.9	18.8 V	691
1997 NT ₁	1997 07 07.30662	16 49 28.70	-12 11 16.2	19.7 V	691	1997 ND ₂	1997 07 13.42739	21 01 38.88	-01 06 10.3	18.9 V	691
1997 NT ₁	1997 07 07.31684	16 49 28.36	-12 11 15.4	19.5 V	691	1997 NE ₂	* 1997 07 03.31739	21 10 43.62	-01 49 50.0	19.8 V	691
1997 NW ₁	* 1997 07 01.24307	16 05 33.05	-07 35 49.3	19.9 V	691	1997 NE ₂	1997 07 03.33823	21 10 43.14	-01 49 45.4	19.6 V	691
1997 NW ₁	1997 07 01.26535	16 05 32.54	-07 35 53.1	20.1 V	691	1997 NE ₂	1997 07 03.35943	21 10 42.67	-01 49 41.2	19.6 V	691
1997 NW ₁	1997 07 01.28783	16 05 32.03	-07 35 57.4	20.1 V	691	1997 NE ₂	1997 07 08.32318	21 08 41.32	-01 35 24.5	19.4 V	691
1997 NW ₁	1997 07 08.24772	16 03 35.41	-08 00 06.2	20.4 V	691	1997 NE ₂	1997 07 08.35030	21 08 40.50	-01 35 20.5	19.5 V	691
1997 NW ₁	1997 07 08.26965	16 03 35.14	-08 00 10.9	20.7 V	691	1997 NE ₂	1997 07 08.37153	21 08 39.85	-01 35 17.7	19.4 V	691
1997 NW ₁	1997 07 08.29124	16 03 34.89	-08 00 16.0	20.4 V	691	1997 NE ₂	1997 07 13.38797	21 05 59.51	-01 26 43.7	19.3 V	691
1997 NX ₁	* 1997 07 01.24996	16 15 30.14	-07 39 07.2	20.7 V	691	1997 NE ₂	1997 07 13.40921	21 05 58.73	-01 26 42.1	19.2 V	691
1997 NX ₁	1997 07 01.27224	16 15 29.50	-07 39 05.0	20.9 V	691	1997 NE ₂	1997 07 13.43038	21 05 57.90	-01 26 40.5	19.2 V	691
1997 NX ₁	1997 07 01.29472	16 15 28.88	-07 39 03.2	20.7 V	691	1997 NF ₂	* 1997 07 03.32505	21 21 46.41	-01 43 27.2	21.4 V	691
1997 NX ₁	1997 07 08.25420	16 12 56.56	-07 31 49.3	21.5 V	691	1997 NF ₂	1997 07 03.34588	21 21 45.97	-01 43 19.4	21.4 V	691
1997 NX ₁	1997 07 08.27613	16 12 56.11	-07 31 48.4	21.2 V	691	1997 NF ₂	1997 07 03.36709	21 21 45.52	-01 43 11.6	21.1 V	691
1997 NX ₁	1997 07 08.29772	16 12 55.74	-07 31 48.0	21.6 V	691	1997 NF ₂	1997 07 08.40183	21 19 47.45	-01 15 37.5	21.1 V	691
1997 NY ₁	* 1997 07 02.17003	15 36 03.18	-13 37 14.5	20.7 V	691	1997 NF ₂	1997 07 08.42443	21 19 46.79	-01 15 30.8	21.1 V	691
1997 NY ₁	1997 07 02.20251	15 36 02.38	-13 37 14.5	20.3 V	691	1997 NF ₂	1997 07 08.44789	21 19 46.11	-01 15 23.4	21.3 V	691
1997 NY ₁	1997 07 02.24939	15 36 01.24	-13 37 13.9	20.7 V	691	1997 NG ₂	* 1997 07 03.32588	21 22 58.90	-01 44 23.1	21.1 V	691
1997 NY ₁	1997 07 08.17741	15 34 11.98	-13 38 46.1	20.7 V	691	1997 NG ₂	1997 07 03.34672	21 22 58.34	-01 44 18.8	20.4 V	691
1997 NY ₁	1997 07 08.19911	15 34 11.62	-13 38 46.9	20.9 V	691	1997 NG ₂	1997 07 03.36792	21 22 57.71	-01 44 14.2	20.9 V	691
1997 NY ₁	1997 07 08.22077	15 34 11.30	-13 38 47.1	20.5 V	691	1997 NG ₂	1997 07 08.40230	21 20 27.84	-01 27 57.9	20.2 V	691
1997 NZ ₁	* 1997 07 03.20999	15 29 50.65	-13 04 59.4	20.5 V	691	1997 NG ₂	1997 07 08.42489	21 20 27.07	-01 27 54.0	20.5 V	691
1997 NZ ₁	1997 07 03.23181	15 29 50.81	-13 05 08.1	20.7 V	691	1997 NG ₂	1997 07 08.44835	21 20 26.28	-01 27 49.8	20.3 V	691
1997 NZ ₁	1997 07 03.25521	15 29 50.96	-13 05 17.8	20.6 V	691	1997 NH ₂	* 1997 07 03.37934	21 07 36.98	-01 07 22.3	20.6 V	691
1997 NZ ₁	1997 07 08.17527	15 31 06.56	-13 39 23.5	20.8 V	691	1997 NH ₂	1997 07 03.40058	21 07 36.47	-01 07 22.3	21.0 V	691
1997 NZ ₁	1997 07 08.19698	15 31 06.95	-13 39 32.4	20.8 V	691	1997 NH ₂	1997 07 03.42185	21 07 35.97	-01 07 22.5	20.9 V	691
1997 NZ ₁	1997 08.21865	15 31 07.34	-13 39 41.8	20.5 V	691	1997 NH ₂	1997 07 08.39192	21 05 28.84	-01 10 42.2	20.4 V	691
1997 NA ₂	* 1997 07 03.22301	15 48 38.35	-13 16 14.6	20.8 V	691	1997 NH ₂	1997 07 08.41451	21 05 28.12	-01 10 43.4	20.7 V	691
1997 NA ₂	1997 07 03.24482	15 48 37.86	-13 16 20.3	20.7 V	691	1997 NH ₂	1997 07 08.43797	21 05 27.43	-01 10 45.0	20.8 V	691
1997 NA ₂	1997 07 03.26821	15 48 37.32	-13 16 26.5	20.6 V	691	1997 NH ₂	1997 07 13.38581	21 02 52.31	-01 18 55.7	20.7 V	691
1997 NA ₂	1997 07 08.18637	15 47 08.22	-13 39 18.3	21.2 V	691	1997 NH ₂	1997 07 13.40705	21 02 51.57	-01 18 58.8	20.5 V	691
1997 NA ₂	1997 07 08.20807	15 47 07.85	-13 39 24.9	20.8 V	691	1997 NH ₂	1997 07 13.42822	21 02 50.81	-01 19 00.8	20.2 V	691
1997 NA ₂	1997 07 08.22973	15 47 07.49	-13 39 31.1	21.0 V	691	1997 NJ ₂	* 1997 07 03.37949	21 07 50.56	-01 17 04.5	20.6 V	691
1997 NB ₂	* 1997 07 03.31261	21 03 49.35	-01 47 32.3	21.0 V	691	1997 NJ ₂	1997 07 03.40074	21 07 49.85	-01 17 06.6	20.8 V	691
1997 NB ₂	1997 07 03.33345	21 03 48.67	-01 47 28.6	21.0 V	691	1997 NJ ₂	1997 07 03.42200	21 07 49.21	-01 17 08.6	20.7 V	691
1997 NB ₂	1997 07 03.35465	21 03 47.95	-01 47 24.9	20.6 V	691	1997 NJ ₂	1997 07 08.39176	21 05 15.14	-01 27 40.0	20.8 V	691
1997 NB ₂	1997 07 08.31782	21 00 56.95	-01 34 19.5	20.6 V	691	1997 NJ ₂	1997 07 08.41435	21 05 14.33	-01 27 43.6	20.5 V	691

1997 NJ ₂	1997 07 08.43781	21 05 13.49	-01 27 47.2	20.6 V	691	1997 NU ₂	1997 07 09.43713	21 20 47.79	-11 03 23.8	19.7 V	691
1997 NK ₂	* 1997 07 03.38488	21 15 37.57	-00 59 55.2	20.6 V	691	1997 NU ₂	1997 07 09.45313	21 20 47.17	-11 03 23.7	19.9 V	691
1997 NK ₂	1997 07 03.40613	21 15 36.95	-00 59 54.3	20.4 V	691	1997 NU ₂	1997 07 11.40438	21 19 30.10	-11 03 33.5	19.5 V	691
1997 NK ₂	1997 07 03.42740	21 15 36.37	-00 59 53.1	20.4 V	691	1997 NU ₂	1997 07 11.42251	21 19 29.32	-11 03 34.0	19.4 V	691
1997 NK ₂	1997 07 08.39721	21 13 07.07	-00 57 41.5	20.1 V	691	1997 NU ₂	1997 07 11.44080	21 19 28.53	-11 03 34.0	19.4 V	691
1997 NK ₂	1997 07 08.41980	21 13 06.31	-00 57 41.5	20.4 V	691	1997 NV ₂	* 1997 07 02.39953	21 25 46.82	-11 18 24.6	18.9 V	691
1997 NK ₂	1997 07 08.44326	21 13 05.50	-00 57 41.5	20.3 V	691	1997 NV ₂	1997 07 02.43173	21 25 46.09	-11 18 25.9	18.9 V	691
1997 NL ₂	* 1997 07 03.38602	21 17 16.51	-01 26 43.6	21.3 V	691	1997 NV ₂	1997 07 02.44960	21 25 45.67	-11 18 26.3	18.8 V	691
1997 NL ₂	1997 07 03.40727	21 17 16.07	-01 26 38.7	21.1 V	691	1997 NV ₂	1997 07 09.42224	21 22 43.76	-11 25 23.4	18.6 V	691
1997 NL ₂	1997 07 03.42854	21 17 15.65	-01 26 34.1	21.4 V	691	1997 NV ₂	1997 07 09.43846	21 22 43.23	-11 25 24.4	18.8 V	691
1997 NL ₂	1997 07 08.39883	21 15 27.35	-01 10 09.7	21.2 V	691	1997 NV ₂	1997 07 09.45447	21 22 42.71	-11 25 25.5	18.9 V	691
1997 NL ₂	1997 07 08.42142	21 15 26.73	-01 10 05.8	21.2 V	691	1997 NW ₂	* 1997 07 02.40110	21 28 02.93	-11 08 05.5	20.6 V	691
1997 NL ₂	1997 07 08.44489	21 15 26.09	-01 10 02.1	21.0 V	691	1997 NW ₂	1997 07 02.43330	21 28 02.09	-11 08 04.4	20.6 V	691
1997 NM ₂	* 1997 07 03.38885	21 21 21.47	-01 19 09.6	21.2 V	691	1997 NW ₂	1997 07 02.45117	21 28 01.63	-11 08 03.8	20.8 V	691
1997 NM ₂	1997 07 03.41010	21 21 21.18	-01 19 16.7	21.7 V	691	1997 NW ₂	1997 07 09.42361	21 24 42.57	-11 06 23.1	20.2 V	691
1997 NM ₂	1997 07 03.43138	21 21 20.92	-01 19 23.7	21.4 V	691	1997 NW ₂	1997 07 09.43983	21 24 42.05	-11 06 23.3	20.4 V	691
1997 NM ₂	1997 07 08.33113	21 20 10.25	-01 49 47.6	21.0 V	691	1997 NW ₂	1997 07 09.45584	21 24 41.47	-11 06 23.2	20.5 V	691
1997 NM ₂	1997 07 08.35825	21 20 09.71	-01 49 58.4	20.9 V	691	1997 NW ₂	1997 07 11.40723	21 23 36.43	-11 06 41.1	20.5 V	691
1997 NM ₂	1997 07 08.37948	21 20 09.28	-01 50 07.2	21.0 V	691	1997 NW ₂	1997 07 11.42535	21 23 35.81	-11 06 41.5	20.3 V	691
1997 NN ₂	* 1997 07 03.39066	21 23 57.93	-01 00 57.0	19.5 V	691	1997 NW ₂	1997 07 11.44365	21 23 35.13	-11 06 42.0	20.3 V	691
1997 NN ₂	1997 07 03.41191	21 23 57.47	-01 01 00.3	19.8 V	691	1997 NX ₂	* 1997 07 02.40118	21 28 09.35	-11 02 21.5	20.9 V	691
1997 NN ₂	1997 07 03.43318	21 23 57.01	-01 01 03.1	19.8 V	691	1997 NX ₂	1997 07 02.43338	21 28 08.64	-11 02 24.1	20.7 V	691
1997 NN ₂	1997 07 08.40339	21 22 02.41	-01 14 51.2	19.6 V	691	1997 NX ₂	1997 07 02.45124	21 28 08.20	-11 02 26.1	20.8 V	691
1997 NN ₂	1997 07 08.42598	21 22 01.78	-01 14 54.5	19.2 V	691	1997 NX ₂	1997 07 09.42388	21 25 06.33	-11 16 47.4	21.1 V	691
1997 NN ₂	1997 07 08.44945	21 22 01.11	-01 15 00.6	19.6 V	691	1997 NX ₂	1997 07 09.44011	21 25 05.81	-11 16 49.9	20.9 V	691
1997 NO ₂	* 1997 07 03.39102	21 24 29.54	-00 59 02.4	21.3 V	691	1997 NX ₂	1997 07 09.45611	21 25 05.25	-11 16 52.2	20.8 V	691
1997 NO ₂	1997 07 03.41227	21 24 28.92	-00 59 01.3	21.3 V	691	1997 NX ₂	1997 07 11.40751	21 24 01.07	-11 22 13.0	20.3 V	691
1997 NO ₂	1997 07 03.43354	21 24 28.30	-00 59 00.3	21.4 V	691	1997 NX ₂	1997 07 11.42564	21 24 00.39	-11 22 15.9	20.5 V	691
1997 NO ₂	1997 07 08.40325	21 21 50.42	-00 57 24.2	21.0 V	691	1997 NX ₂	1997 07 11.44393	21 23 59.75	-11 22 19.4	20.6 V	691
1997 NO ₂	1997 07 08.42584	21 21 49.57	-00 57 24.5	20.8 V	691	1997 NY ₂	* 1997 07 08.39826	21 14 37.84	-01 10 37.7	19.9 V	691
1997 NO ₂	1997 07 08.44930	21 21 48.69	-00 57 25.0	21.0 V	691	1997 NY ₂	1997 07 08.42084	21 14 36.38	-01 10 17.3	20.2 V	691
1997 NO ₂	1997 07 13.41797	21 18 37.99	-01 00 47.5	21.2 V	691	1997 NY ₂	1997 07 08.44429	21 14 34.87	-01 09 56.1	20.2 V	691
1997 NO ₂	1997 07 13.43914	21 18 37.05	-01 00 49.5	20.3 V	691	1997 NY ₂	1997 07 09.34876	21 13 38.92	-00 56 19.6	20.2 V	691
1997 NS ₂	* 1997 07 02.39726	21 22 30.04	-11 13 57.2	20.5 V	691	1997 NY ₂	1997 07 09.36998	21 13 37.53	-00 56 00.4	20.4 V	691
1997 NS ₂	1997 07 02.42946	21 22 29.24	-11 13 54.4	20.3 V	691	1997 NY ₂	1997 07 09.39097	21 13 36.14	-00 55 41.6	20.3 V	691
1997 NS ₂	1997 07 02.44733	21 22 28.78	-11 13 53.2	20.6 V	691	1997 NY ₂	1997 07 10.45385	21 12 27.57	-00 39 54.8	19.5 V	691
1997 NS ₂	1997 07 09.41977	21 19 09.98	-11 06 07.6	20.0 V	691	1997 NY ₂	1997 07 10.45771	21 12 27.32	-00 39 51.4	19.6 V	691
1997 NS ₂	1997 07 09.43599	21 19 09.37	-11 06 06.5	20.4 V	691	1997 NY ₂	1997 07 10.46235	21 12 26.99	-00 39 47.2	19.6 V	691
1997 NS ₂	1997 07 09.45200	21 19 08.80	-11 06 06.0	21.0 V	691	1997 NN ₃	* 1997 07 05.40353	21 21 05.47	-00 05 53.8	20.5 V	691
1997 NS ₂	1997 07 11.40343	21 18 00.70	-11 04 51.9	20.3 V	691	1997 NN ₃	1997 07 05.42713	21 21 05.29	-00 05 56.7	20.0 V	691
1997 NS ₂	1997 07 11.42155	21 17 59.96	-11 04 51.7	20.3 V	691	1997 NN ₃	1997 07 05.45844	21 21 05.16	-00 06 02.4	19.8 V	691
1997 NS ₂	1997 07 11.43985	21 17 59.31	-11 04 50.8	20.3 V	691	1997 NN ₃	1997 07 10.30020	21 20 33.36	-00 23 08.9	20.0 V	691
1997 NT ₂	* 1997 07 02.39837	21 24 06.39	-11 24 45.3	20.8 V	691	1997 NN ₃	1997 07 10.32120	21 20 33.07	-00 23 14.8	19.7 V	691
1997 NT ₂	1997 07 02.43057	21 24 05.53	-11 24 41.5	20.6 V	691	1997 NN ₃	1997 07 10.34237	21 20 32.79	-00 23 20.3	19.7 V	691
1997 NT ₂	1997 07 02.44844	21 24 05.02	-11 24 38.8	21.0 V	691	1997 NO ₃	* 1997 07 05.40546	21 23 52.93	-00 14 43.9	19.3 V	691
1997 NT ₂	1997 07 09.42072	21 20 32.29	-11 12 08.1	20.6 V	691	1997 NO ₃	1997 07 05.42905	21 23 52.07	-00 14 42.6	18.9 V	691
1997 NT ₂	1997 07 09.43694	21 20 31.67	-11 12 06.5	20.7 V	691	1997 NO ₃	1997 07 05.46036	21 23 51.20	-00 14 34.9	19.3 V	691
1997 NT ₂	1997 07 09.45295	21 20 31.09	-11 12 05.1	20.9 V	691	1997 NO ₃	1997 07 10.30068	21 21 15.54	-00 03 23.1	19.4 V	691
1997 NU ₂	* 1997 07 02.39871	21 24 35.83	-11 06 52.1	19.7 V	691	1997 NO ₃	1997 07 10.32168	21 21 14.77	-00 03 21.2	19.3 V	691
1997 NU ₂	1997 07 02.43091	21 24 34.94	-11 06 50.6	19.8 V	691	1997 NO ₃	1997 07 10.34284	21 21 14.00	-00 03 18.4	19.1 V	691
1997 NU ₂	1997 07 02.44878	21 24 34.41	-11 06 49.5	19.9 V	691	1997 NP ₃	* 1997 07 06.30805	21 19 46.00	-12 43 10.3	20.0 V	691
1997 NU ₂	1997 07 09.42090	21 20 48.46	-11 03 24.3	19.5 V	691	1997 NP ₃	1997 07 06.34163	21 19 45.15	-12 43 15.1	19.6 V	691

1997 NP ₃	1997 07 06.37713	21 19 44.23	-12 43 21.5	19.8 V	691	1997 NY ₃	* 1997 07 06.32001	21 37 02.55	-12 28 53.4	19.5 V	691
1997 NP ₃	1997 07 10.35318	21 17 58.97	-12 55 49.2	19.7 V	691	1997 NY ₃	1997 07 06.35360	21 37 01.78	-12 29 06.9	19.5 V	691
1997 NP ₃	1997 07 10.38031	21 17 58.12	-12 55 54.9	19.6 V	691	1997 NY ₃	1997 07 06.38910	21 37 00.95	-12 29 20.8	19.5 V	691
1997 NP ₃	1997 07 10.40212	21 17 57.41	-12 55 59.6	19.5 V	691	1997 NY ₃	1997 07 10.36516	21 35 24.27	-12 56 49.6	20.4 V	691
1997 NQ ₃	* 1997 07 06.30853	21 20 27.40	-12 42 57.7	18.1 V	691	1997 NY ₃	1997 07 10.39229	21 35 23.51	-12 57 01.4	19.9 V	691
1997 NQ ₃	1997 07 06.34211	21 20 26.62	-12 43 01.6	17.8 V	691	1997 NY ₃	1997 07 10.41406	21 35 22.86	-12 57 10.8	20.2 V	691
1997 NQ ₃	1997 07 06.37761	21 20 25.82	-12 43 06.3	17.7 V	691	1997 NZ ₃	* 1997 07 06.32247	21 40 35.09	-12 43 45.9	19.4 V	691
1997 NQ ₃	1997 07 10.35369	21 18 50.39	-12 52 53.7	17.9 V	691	1997 NZ ₃	1997 07 06.35605	21 40 34.11	-12 43 40.5	19.4 V	691
1997 NQ ₃	1997 07 10.38082	21 18 49.56	-12 52 58.6	17.7 V	691	1997 NZ ₃	1997 07 06.39155	21 40 33.04	-12 43 34.6	19.2 V	691
1997 NQ ₃	1997 07 10.40259	21 18 48.90	-12 53 02.0	17.6 V	691	1997 NZ ₃	1997 07 10.36731	21 38 30.85	-12 33 08.8	19.1 V	691
1997 NR ₃	* 1997 07 06.30867	21 20 39.83	-12 39 07.5	19.9 V	691	1997 NZ ₃	1997 07 10.39444	21 38 29.88	-12 33 04.7	19.0 V	691
1997 NR ₃	1997 07 06.34225	21 20 38.84	-12 39 06.4	19.8 V	691	1997 NZ ₃	1997 07 10.41621	21 38 29.12	-12 33 01.9	19.1 V	691
1997 NR ₃	1997 07 06.37775	21 20 37.82	-12 39 05.9	19.7 V	691	1997 NZ ₃	1997 07 12.42187	21 37 18.42	-12 28 12.2	19.6 V	691
1997 NR ₃	1997 07 10.35352	21 18 36.08	-12 38 24.9	19.7 V	691	1997 NZ ₃	1997 07 12.44231	21 37 17.63	-12 28 09.4	19.4 V	691
1997 NR ₃	1997 07 10.38065	21 18 35.11	-12 38 25.4	19.7 V	691	1997 NZ ₃	1997 07 12.46470	21 37 16.76	-12 28 06.6	19.4 V	691
1997 NR ₃	1997 07 10.40242	21 18 34.33	-12 38 25.4	19.8 V	691	1997 NA ₄	* 1997 07 06.32248	21 40 35.96	-12 31 33.3	21.2 V	691
1997 NS ₃	* 1997 07 06.30981	21 22 18.25	-12 47 40.9	20.6 V	691	1997 NA ₄	1997 07 06.35607	21 40 35.32	-12 31 38.1	21.1 V	691
1997 NS ₃	1997 07 06.34339	21 22 17.59	-12 47 45.3	20.0 V	691	1997 NA ₄	1997 07 06.39157	21 40 34.54	-12 31 42.6	21.4 V	691
1997 NS ₃	1997 07 06.37889	21 22 16.90	-12 47 49.5	20.6 V	691	1997 NA ₄	1997 07 10.36776	21 39 09.50	-12 41 23.7	21.2 V	691
1997 NS ₃	1997 07 10.35511	21 20 53.72	-12 57 44.1	20.6 V	691	1997 NA ₄	1997 07 10.39489	21 39 08.80	-12 41 27.6	21.1 V	691
1997 NS ₃	1997 07 10.38224	21 20 52.93	-12 57 49.5	20.3 V	691	1997 NA ₄	1997 07 10.41667	21 39 08.26	-12 41 31.4	21.3 V	691
1997 NS ₃	1997 07 10.40401	21 20 52.35	-12 57 53.2	20.3 V	691	1997 NB ₄	* 1997 07 06.32286	21 41 08.79	-12 29 08.8	20.2 V	691
1997 NT ₃	* 1997 07 06.31088	21 23 51.54	-12 40 17.6	21.7 V	691	1997 NB ₄	1997 07 06.35644	21 41 07.95	-12 29 15.3	20.3 V	691
1997 NT ₃	1997 07 06.34447	21 23 50.69	-12 40 20.9	21.4 V	691	1997 NB ₄	1997 07 06.39194	21 41 07.07	-12 29 22.0	20.2 V	691
1997 NT ₃	1997 07 06.37997	21 23 49.75	-12 40 25.2	21.7 V	691	1997 NB ₄	1997 07 10.36790	21 39 22.00	-12 43 00.5	20.0 V	691
1997 NT ₃	1997 07 10.35594	21 22 05.61	-12 49 23.3	21.5 V	691	1997 NB ₄	1997 07 10.39503	21 39 21.13	-12 43 05.9	20.1 V	691
1997 NT ₃	1997 07 10.38307	21 22 04.77	-12 49 27.7	21.3 V	691	1997 NB ₄	1997 07 10.41681	21 39 20.45	-12 43 11.4	20.1 V	691
1997 NT ₃	1997 07 10.40484	21 22 04.09	-12 49 30.8	21.5 V	691	1997 NC ₄	* 1997 07 06.32329	21 41 46.38	-12 40 47.3	20.8 V	691
1997 NU ₃	* 1997 07 06.31149	21 24 44.31	-12 45 13.7	20.6 V	691	1997 NC ₄	1997 07 06.35688	21 41 45.73	-12 40 52.3	20.6 V	691
1997 NU ₃	1997 07 06.34508	21 24 43.76	-12 45 14.7	20.3 V	691	1997 NC ₄	1997 07 06.39238	21 41 44.95	-12 40 56.1	20.6 V	691
1997 NU ₃	1997 07 06.38058	21 24 43.18	-12 45 15.9	20.7 V	691	1997 NC ₄	1997 07 10.36857	21 40 19.38	-12 50 31.2	19.9 V	691
1997 NU ₃	1997 07 10.35695	21 23 33.19	-12 48 33.8	20.2 V	691	1997 NC ₄	1997 07 10.39570	21 40 18.67	-12 50 34.4	20.2 V	691
1997 NU ₃	1997 07 10.38408	21 23 32.53	-12 48 35.7	20.4 V	691	1997 NC ₄	1997 07 10.41747	21 40 18.02	-12 50 38.7	19.7 V	691
1997 NU ₃	1997 07 10.40586	21 23 32.01	-12 48 37.1	20.2 V	691	1997 ND ₄	* 1997 07 06.32436	21 43 19.54	-12 47 24.0	18.8 V	691
1997 NV ₃	* 1997 07 06.31283	21 26 40.08	-12 30 20.2	20.5 V	691	1997 ND ₄	1997 07 06.35795	21 43 18.76	-12 47 28.6	18.9 V	691
1997 NV ₃	1997 07 06.34642	21 26 39.26	-12 30 21.2	20.8 V	691	1997 ND ₄	1997 07 06.39345	21 43 17.96	-12 47 33.1	18.7 V	691
1997 NV ₃	1997 07 06.38191	21 26 38.41	-12 30 22.0	20.9 V	691	1997 ND ₄	1997 07 10.36953	21 41 42.97	-12 56 34.2	18.7 V	691
1997 NV ₃	1997 07 10.35796	21 25 00.09	-12 33 16.9	20.9 V	691	1997 ND ₄	1997 07 10.39666	21 41 42.22	-12 56 37.8	18.7 V	691
1997 NV ₃	1997 07 10.38509	21 24 59.36	-12 33 17.9	20.7 V	691	1997 ND ₄	1997 07 10.41844	21 41 41.63	-12 56 41.3	18.9 V	691
1997 NV ₃	1997 07 10.40686	21 24 58.66	-12 33 19.8	20.7 V	691	1997 NE ₄	* 1997 07 06.32482	21 43 58.61	-12 31 26.2	18.9 V	691
1997 NW ₃	* 1997 07 06.31770	21 33 41.92	-12 45 05.8	19.0 V	691	1997 NE ₄	1997 07 06.35841	21 43 57.99	-12 31 34.6	19.0 V	691
1997 NW ₃	1997 07 06.35129	21 33 41.70	-12 45 08.2	19.0 V	691	1997 NE ₄	1997 07 06.39391	21 43 57.34	-12 31 43.1	19.0 V	691
1997 NW ₃	1997 07 06.38680	21 33 41.41	-12 45 10.5	18.9 V	691	1997 NE ₄	1997 07 10.37017	21 42 38.35	-12 48 50.2	18.6 V	691
1997 NW ₃	1997 07 10.36357	21 33 06.18	-12 50 55.6	18.9 V	691	1997 NE ₄	1997 07 10.39730	21 42 37.77	-12 48 55.6	18.3 V	691
1997 NW ₃	1997 07 10.39070	21 33 05.73	-12 50 58.7	18.8 V	691	1997 NE ₄	1997 07 10.41908	21 42 37.14	-12 49 03.6	18.9 V	691
1997 NW ₃	1997 07 10.41248	21 33 05.38	-12 51 01.1	18.9 V	691	1997 NF ₄	* 1997 07 06.32492	21 44 07.27	-12 39 01.1	21.5 V	691
1997 NX ₃	* 1997 07 06.31981	21 36 44.96	-12 46 28.2	20.7 V	691	1997 NF ₄	1997 07 06.35851	21 44 06.64	-12 39 06.5	21.2 V	691
1997 NX ₃	1997 07 06.35340	21 36 44.52	-12 46 29.4	20.5 V	691	1997 NF ₄	1997 07 06.39401	21 44 05.99	-12 39 11.4	21.2 V	691
1997 NX ₃	1997 07 06.38890	21 36 44.06	-12 46 30.4	20.5 V	691	1997 NF ₄	1997 07 10.37028	21 42 48.08	-12 49 02.9	21.2 V	691
1997 NX ₃	1997 07 10.36542	21 35 46.68	-12 49 30.0	20.3 V	691	1997 NF ₄	1997 07 10.39741	21 42 47.45	-12 49 07.0	21.2 V	691
1997 NX ₃	1997 07 10.39255	21 35 46.09	-12 49 31.8	20.1 V	691	1997 NF ₄	1997 07 10.41919	21 42 46.94	-12 49 11.0	21.1 V	691
1997 NX ₃	1997 07 10.41433	21 35 45.62	-12 49 33.6	20.2 V	691	1997 NG ₄	* 1997 07 06.32492	21 44 07.43	-12 48 16.9	21.1 V	691

1997 NG ₄	1997 07 06.35850	21 44 06.53	-12 48 15.9	20.9 V	691	1997 NG ₅	* 1997 07 02.16408	15 27 27.85	-13 40 17.6	18.3 V	691
1997 NG ₄	1997 07 06.39400	21 44 05.61	-12 48 13.7	20.9 V	691	1997 NG ₅	1997 07 02.19657	15 27 27.58	-13 40 07.6	18.4 V	691
1997 NG ₄	1997 07 10.36991	21 42 15.60	-12 45 25.9	20.8 V	691	1997 NG ₅	1997 07 02.24346	15 27 27.21	-13 39 54.1	18.5 V	691
1997 NG ₄	1997 07 10.39704	21 42 14.77	-12 45 24.3	20.5 V	691	1997 NG ₅	1997 07 11.18208	15 27 23.51	-13 02 08.2	18.4 V	691
1997 NG ₄	1997 07 10.41881	21 42 14.10	-12 45 22.5	20.9 V	691	1997 NG ₅	1997 07 11.21278	15 27 23.63	-13 02 00.2	18.7 V	691
1997 NH ₄	* 1997 07 06.32497	21 44 11.91	-12 55 13.2	18.8 V	691	1997 NG ₅	1997 07 11.23632	15 27 23.72	-13 01 55.8	18.6 V	691
1997 NH ₄	1997 07 06.35855	21 44 10.74	-12 55 13.4	19.5 V	691	1997 NH ₅	* 1997 07 02.33491	21 30 13.24	-11 28 39.5	21.1 V	691
1997 NH ₄	1997 07 06.39405	21 44 09.64	-12 55 15.6	19.1 V	691	1997 NH ₅	1997 07 02.35669	21 30 12.89	-11 28 45.6	21.1 V	691
1997 NH ₄	1997 07 10.36975	21 42 01.46	-12 59 53.8	19.5 V	691	1997 NH ₅	1997 07 02.37886	21 30 12.54	-11 28 51.2	21.2 V	691
1997 NH ₄	1997 07 10.39687	21 42 00.45	-12 59 55.7	19.3 V	691	1997 NH ₅	1997 07 11.34221	21 27 15.23	-12 14 18.9	21.3 V	691
1997 NH ₄	1997 07 10.41864	21 41 59.64	-12 59 57.9	19.1 V	691	1997 NH ₅	1997 07 11.36443	21 27 14.64	-12 14 26.4	20.7 V	691
1997 NJ ₄	* 1997 07 06.32503	21 44 17.25	-12 37 17.5	20.9 V	691	1997 NH ₅	1997 07 11.38658	21 27 14.07	-12 14 34.2	20.8 V	691
1997 NJ ₄	1997 07 06.35862	21 44 16.84	-12 37 16.5	21.8 V	691	1997 NJ ₅	* 1997 07 02.34095	21 38 56.14	-11 37 03.2	21.2 V	691
1997 NJ ₄	1997 07 06.39413	21 44 16.33	-12 37 15.7	21.2 V	691	1997 NJ ₅	1997 07 02.36273	21 38 55.74	-11 37 06.1	21.1 V	691
1997 NJ ₄	1997 07 10.37067	21 43 21.67	-12 35 51.5	21.1 V	691	1997 NJ ₅	1997 07 02.38489	21 38 55.35	-11 37 09.2	20.8 V	691
1997 NJ ₄	1997 07 10.39780	21 43 21.10	-12 35 51.3	20.8 V	691	1997 NJ ₅	1997 07 11.34801	21 35 37.61	-12 03 11.7	20.6 V	691
1997 NJ ₄	1997 07 10.41958	21 43 20.68	-12 35 51.2	21.1 V	691	1997 NJ ₅	1997 07 11.37023	21 35 36.92	-12 03 16.3	20.6 V	691
1997 NK ₄	* 1997 07 07.32739	21 21 27.71	-12 22 10.6	20.4 V	691	1997 NJ ₅	1997 07 11.39238	21 35 36.25	-12 03 21.0	21.1 V	691
1997 NK ₄	1997 07 07.35083	21 21 27.08	-12 22 15.7	20.9 V	691	1997 NK ₅	* 1997 07 02.39922	21 25 19.46	-11 25 28.2	21.1 V	691
1997 NK ₄	1997 07 07.37238	21 21 26.49	-12 22 20.6	21.3 V	691	1997 NK ₅	1997 07 02.43142	21 25 18.81	-11 25 35.0	20.9 V	691
1997 NK ₄	1997 07 10.35454	21 20 04.26	-12 34 28.6	20.6 V	691	1997 NK ₅	1997 07 02.44928	21 25 18.41	-11 25 38.2	21.1 V	691
1997 NK ₄	1997 07 10.38167	21 20 03.41	-12 34 35.1	20.3 V	691	1997 NK ₅	1997 07 11.33827	21 21 33.67	-12 01 04.4	21.4 V	691
1997 NK ₄	1997 07 10.40344	21 20 02.79	-12 34 40.4	20.3 V	691	1997 NK ₅	1997 07 11.36049	21 21 32.94	-12 01 10.1	20.9 V	691
1997 NL ₄	* 1997 07 07.33587	21 33 42.91	-12 27 17.1	19.9 V	691	1997 NK ₅	1997 07 11.38263	21 21 32.21	-12 01 16.2	20.6 V	691
1997 NL ₄	1997 07 07.38087	21 33 41.80	-12 27 23.8	20.2 V	691	1997 NL ₅	* 1997 07 02.40435	21 32 43.95	-10 55 39.6	18.9 V	691
1997 NL ₄	1997 07 10.36307	21 32 22.73	-12 34 08.1	20.3 V	691	1997 NL ₅	1997 07 02.43655	21 32 43.38	-10 55 42.1	18.8 V	691
1997 NL ₄	1997 07 10.39019	21 32 21.95	-12 34 12.1	20.2 V	691	1997 NL ₅	1997 07 02.45442	21 32 43.08	-10 55 43.7	19.0 V	691
1997 NL ₄	1997 07 10.41197	21 32 21.32	-12 34 15.5	20.1 V	691	1997 NL ₅	1997 07 11.41130	21 29 29.13	-11 12 54.9	18.7 V	691
1997 NM ₄	* 1997 07 07.33958	21 39 04.24	-12 22 43.5	20.3 V	691	1997 NL ₅	1997 07 11.42942	21 29 28.62	-11 12 57.5	18.6 V	691
1997 NM ₄	1997 07 07.36303	21 39 03.69	-12 22 50.8	20.7 V	691	1997 NL ₅	1997 07 11.44772	21 29 28.08	-11 13 00.1	18.6 V	691
1997 NM ₄	1997 07 07.38458	21 39 03.18	-12 22 57.0	20.1 V	691	1997 NM ₅	* 1997 07 02.43161	21 25 35.72	-11 06 16.8	20.0 V	691
1997 NM ₄	1997 07 10.36683	21 37 49.18	-12 36 13.4	20.2 V	691	1997 NM ₅	1997 07 02.44948	21 25 35.25	-11 06 18.2	20.3 V	691
1997 NM ₄	1997 07 10.39396	21 37 48.43	-12 36 21.0	20.0 V	691	1997 NM ₅	1997 07 11.40556	21 21 11.61	-11 21 28.7	20.1 V	691
1997 NM ₄	1997 07 10.41574	21 37 47.85	-12 36 27.2	19.9 V	691	1997 NM ₅	1997 07 11.42368	21 21 11.01	-11 21 30.9	20.2 V	691
1997 NN ₄	* 1997 07 08.31839	21 01 46.69	-01 53 44.3	21.9 V	691	1997 NM ₅	1997 07 11.44197	21 21 10.37	-11 21 33.3	20.5 V	691
1997 NN ₄	1997 07 08.34553	21 01 47.49	-01 53 15.9	21.3 V	691	1997 NN ₅	* 1997 07 05.19557	15 25 30.54	-12 53 27.0	19.7 V	691
1997 NN ₄	1997 07 08.36677	21 01 48.07	-01 52 54.2	21.0 V	691	1997 NN ₅	1997 07 05.21705	15 25 30.16	-12 53 33.2	19.7 V	691
1997 NN ₄	1997 07 09.40390	21 02 23.83	-01 35 08.1	21.6 V	691	1997 NN ₅	1997 07 05.23875	15 25 29.80	-12 53 39.1	19.9 V	691
1997 NN ₄	1997 07 10.43621	21 02 57.18	-01 17 47.6	21.2 V	691	1997 NN ₅	1997 07 11.18016	15 24 37.01	-13 21 50.8	19.7 V	691
1997 NN ₄	1997 07 10.44009	21 02 57.32	-01 17 43.3	21.4 V	691	1997 NN ₅	1997 07 11.21086	15 24 36.83	-13 21 58.8	19.8 V	691
1997 NN ₄	1997 07 10.44810	21 02 57.48	-01 17 35.4	21.7 V	691	1997 NN ₅	1997 07 11.23439	15 24 36.70	-13 22 06.4	20.1 V	691
1997 NN ₄	1997 07 14.43214	21 04 48.13	-00 14 04.3	21.3 V	691	1997 NO ₅	* 1997 07 05.19560	15 25 33.03	-12 56 13.9	20.6 V	691
1997 NN ₄	1997 07 14.43923	21 04 48.24	-00 13 58.1	21.1 V	691	1997 NO ₅	1997 07 05.21708	15 25 32.64	-12 56 17.0	20.4 V	691
1997 NN ₄	1997 07 14.44312	21 04 48.31	-00 13 54.1	21.1 V	691	1997 NO ₅	1997 07 05.23878	15 25 32.28	-12 56 19.6	20.3 V	691
1997 NF ₅	* 1997 07 01.34922	21 38 43.09	-11 45 58.0	21.2 V	691	1997 NO ₅	1997 07 11.17989	15 24 13.36	-13 10 58.6	21.0 V	691
1997 NF ₅	1997 07 01.37026	21 38 42.84	-11 46 02.3	21.2 V	691	1997 NO ₅	1997 07 11.21058	15 24 12.99	-13 11 01.7	21.2 V	691
1997 NF ₅	1997 07 01.39134	21 38 42.61	-11 46 06.6	21.5 V	691	1997 NO ₅	1997 07 11.23412	15 24 12.69	-13 11 06.5	21.1 V	691
1997 NF ₅	1997 07 02.36246	21 38 32.48	-11 49 30.3	21.5 V	691	1997 NP ₅	* 1997 07 06.24129	15 49 18.00	-06 57 41.4	18.9 V	691
1997 NF ₅	1997 07 02.38462	21 38 32.22	-11 49 35.8	21.3 V	691	1997 NP ₅	1997 07 06.26224	15 49 17.62	-06 57 48.1	18.7 V	691
1997 NF ₅	1997 07 11.34826	21 35 59.70	-12 27 47.3	21.4 V	691	1997 NP ₅	1997 07 06.28409	15 49 17.37	-06 57 54.9	19.0 V	691
1997 NF ₅	1997 07 11.37049	21 35 59.15	-12 27 53.7	21.2 V	691	1997 NP ₅	1997 07 11.25712	15 48 31.84	-07 24 53.3	19.4 V	691
1997 NF ₅	1997 07 11.39263	21 35 58.60	-12 28 00.2	21.6 V	691	1997 NP ₅	1997 07 11.28982	15 48 31.61	-07 25 04.5	19.1 V	691

1997 NP ₅	1997 07 11.31163	15 48 31.50	-07 25 11.9	19.1 V	691	1997 NW ₅	1997 07 11.35226	21 41 45.47	-12 02 18.7	20.3 V	691
1997 NQ ₅	* 1997 07 06.24267	15 51 17.38	-06 49 39.0	19.9 V	691	1997 NW ₅	1997 07 11.37448	21 41 44.80	-12 02 17.1	20.1 V	691
1997 NQ ₅	1997 07 06.26362	15 51 17.05	-06 49 46.5	20.1 V	691	1997 NW ₅	1997 07 11.39662	21 41 44.13	-12 02 15.5	20.6 V	691
1997 NQ ₅	1997 07 06.28547	15 51 16.73	-06 49 54.2	20.2 V	691	1997 NW ₅	1997 07 12.42459	21 41 13.78	-12 01 10.4	20.6 V	691
1997 NQ ₅	1997 07 11.25846	15 50 27.88	-07 20 42.8	21.1 V	691	1997 NW ₅	1997 07 12.44503	21 41 13.13	-12 01 09.1	20.5 V	691
1997 NQ ₅	1997 07 11.29116	15 50 27.65	-07 20 55.0	20.8 V	691	1997 NW ₅	1997 07 12.46742	21 41 12.41	-12 01 08.4	20.2 V	691
1997 NQ ₅	1997 07 11.31297	15 50 27.49	-07 21 02.8	20.7 V	691	1997 NX ₅	* 1997 07 07.34262	21 43 27.59	-12 05 57.0	20.0 V	691
1997 NR ₅	* 1997 07 06.32350	21 42 05.04	-12 39 46.9	21.1 V	691	1997 NX ₅	1997 07 07.36607	21 43 26.98	-12 06 03.0	19.6 V	691
1997 NR ₅	1997 07 06.35710	21 42 04.75	-12 39 33.4	21.0 V	691	1997 NX ₅	1997 07 07.38762	21 43 26.43	-12 06 08.8	19.7 V	691
1997 NR ₅	1997 07 06.39260	21 42 04.49	-12 39 19.2	21.0 V	691	1997 NX ₅	1997 07 11.35220	21 41 40.61	-12 22 55.9	19.5 V	691
1997 NR ₅	1997 07 11.35190	21 41 14.55	-12 07 34.7	21.1 V	691	1997 NX ₅	1997 07 11.37442	21 41 39.91	-12 23 01.5	19.5 V	691
1997 NR ₅	1997 07 11.37412	21 41 14.09	-12 07 27.0	21.0 V	691	1997 NX ₅	1997 07 11.39657	21 41 39.20	-12 23 07.5	19.7 V	691
1997 NR ₅	1997 07 11.39627	21 41 13.60	-12 07 18.8	21.1 V	691	1997 NX ₅	1997 07 12.42452	21 41 07.62	-12 27 52.9	19.8 V	691
1997 NS ₅	* 1997 07 07.32595	21 19 23.32	-12 01 05.5	19.7 V	691	1997 NX ₅	1997 07 12.44496	21 41 06.97	-12 27 58.9	19.8 V	691
1997 NS ₅	1997 07 07.34940	21 19 22.90	-12 01 06.5	19.9 V	691	1997 NX ₅	1997 07 12.46735	21 41 06.22	-12 28 05.7	19.5 V	691
1997 NS ₅	1997 07 07.37095	21 19 22.40	-12 01 07.8	19.3 V	691	1997 NY ₅	* 1997 07 07.34264	21 43 29.43	-12 17 13.4	18.6 V	691
1997 NS ₅	1997 07 11.33590	21 18 01.86	-12 07 01.8	19.7 V	691	1997 NY ₅	1997 07 07.36609	21 43 28.85	-12 17 13.3	18.8 V	691
1997 NS ₅	1997 07 11.35812	21 18 01.28	-12 07 04.5	19.4 V	691	1997 NY ₅	1997 07 07.38764	21 43 28.33	-12 17 12.0	18.7 V	691
1997 NS ₅	1997 07 11.38027	21 18 00.61	-12 07 07.6	19.1 V	691	1997 NY ₅	1997 07 11.35230	21 41 49.54	-12 12 53.4	18.5 V	691
1997 NS ₅	1997 07 12.40841	21 17 34.82	-12 09 07.5	19.3 V	691	1997 NY ₅	1997 07 11.37452	21 41 48.88	-12 12 52.1	18.6 V	691
1997 NS ₅	1997 07 12.42885	21 17 34.27	-12 09 10.4	19.5 V	691	1997 NY ₅	1997 07 11.39667	21 41 48.21	-12 12 51.1	18.7 V	691
1997 NS ₅	1997 07 12.45125	21 17 33.62	-12 09 12.8	19.5 V	691	1997 NY ₅	1997 07 12.42465	21 41 18.58	-12 12 00.7	18.7 V	691
1997 NT ₅	* 1997 07 07.32826	21 22 43.56	-12 05 50.9	19.9 V	691	1997 NY ₅	1997 07 12.44508	21 41 17.98	-12 11 59.9	18.7 V	691
1997 NT ₅	1997 07 07.35170	21 22 42.82	-12 05 47.4	19.7 V	691	1997 NY ₅	1997 07 12.46748	21 41 17.25	-12 11 59.0	18.6 V	691
1997 NT ₅	1997 07 07.37326	21 22 42.20	-12 05 45.4	19.9 V	691	1997 NZ ₅	* 1997 07 07.40388	21 33 33.62	-11 55 15.1	19.6 V	691
1997 NT ₅	1997 07 11.33767	21 20 42.31	-12 01 18.7	20.0 V	691	1997 NZ ₅	1997 07 07.42496	21 33 33.14	-11 55 17.0	19.8 V	691
1997 NT ₅	1997 07 11.35989	21 20 41.48	-12 01 17.8	19.8 V	691	1997 NZ ₅	1997 07 07.44945	21 33 32.74	-11 55 19.4	19.8 V	691
1997 NT ₅	1997 07 11.38204	21 20 40.64	-12 01 16.5	19.7 V	691	1997 NZ ₅	1997 07 11.34565	21 32 13.42	-12 02 34.5	19.9 V	691
1997 NT ₅	1997 07 12.40993	21 20 04.12	-12 00 36.3	19.4 V	691	1997 NZ ₅	1997 07 11.36787	21 32 12.88	-12 02 37.1	19.8 V	691
1997 NT ₅	1997 07 12.43037	21 20 03.38	-12 00 35.4	19.8 V	691	1997 NZ ₅	1997 07 11.39002	21 32 12.31	-12 02 39.5	20.0 V	691
1997 NT ₅	1997 07 12.45276	21 20 02.50	-12 00 36.5	19.3 V	691	1997 NZ ₅	1997 07 12.41805	21 31 47.19	-12 04 59.4	19.9 V	691
1997 NU ₅	* 1997 07 07.32874	21 23 25.25	-12 06 28.9	20.9 V	691	1997 NZ ₅	1997 07 12.43849	21 31 46.60	-12 05 02.0	19.9 V	691
1997 NU ₅	1997 07 07.35219	21 23 24.68	-12 06 28.9	21.0 V	691	1997 NZ ₅	1997 07 12.46088	21 31 46.00	-12 05 04.7	20.2 V	691
1997 NU ₅	1997 07 07.37374	21 23 24.16	-12 06 29.3	21.2 V	691	1997 NA ₆	* 1997 07 09.41988	21 19 19.57	-11 03 40.7	19.3 V	691
1997 NU ₅	1997 07 11.33842	21 21 46.53	-12 09 24.7	20.2 V	691	1997 NA ₆	1997 07 09.43610	21 19 18.88	-11 03 42.9	20.5 V	691
1997 NU ₅	1997 07 11.36064	21 21 45.88	-12 09 25.9	19.7 V	691	1997 NA ₆	1997 07 09.45211	21 19 18.31	-11 03 45.9	21.1 V	691
1997 NU ₅	1997 07 11.38278	21 21 45.20	-12 09 27.8	19.9 V	691	1997 NA ₆	1997 07 11.40349	21 18 11.11	-11 10 40.3	20.5 V	691
1997 NU ₅	1997 07 12.41076	21 21 15.61	-12 10 34.4	19.9 V	691	1997 NA ₆	1997 07 11.42161	21 18 10.42	-11 10 44.5	20.2 V	691
1997 NU ₅	1997 07 12.43120	21 21 15.02	-12 10 36.5	20.0 V	691	1997 NA ₆	1997 07 11.43991	21 18 09.76	-11 10 48.4	20.3 V	691
1997 NU ₅	1997 07 12.45359	21 21 14.25	-12 10 37.9	20.0 V	691	1997 NB ₆	* 1997 07 09.42159	21 21 48.19	-11 16 52.2	20.3 V	691
1997 NV ₅	* 1997 07 07.33690	21 35 11.70	-12 24 34.1	19.5 V	691	1997 NB ₆	1997 07 09.43782	21 21 47.78	-11 16 53.9	20.4 V	691
1997 NV ₅	1997 07 07.36034	21 35 11.26	-12 24 32.1	19.5 V	691	1997 NB ₆	1997 07 09.45383	21 21 47.39	-11 16 56.0	20.4 V	691
1997 NV ₅	1997 07 07.38190	21 35 10.83	-12 24 30.3	19.4 V	691	1997 NB ₆	1997 07 11.40542	21 21 00.13	-11 21 42.1	20.3 V	691
1997 NV ₅	1997 07 11.34673	21 33 46.41	-12 18 24.6	19.3 V	691	1997 NB ₆	1997 07 11.42355	21 20 59.59	-11 21 44.9	20.2 V	691
1997 NV ₅	1997 07 11.36895	21 33 45.78	-12 18 23.0	19.3 V	691	1997 NB ₆	1997 07 11.44184	21 20 59.08	-11 21 47.5	20.3 V	691
1997 NV ₅	1997 07 11.39109	21 33 45.19	-12 18 21.3	19.4 V	691	1997 NC ₆	* 1997 07 09.42264	21 23 18.74	-11 11 29.7	20.1 V	691
1997 NV ₅	1997 07 12.41910	21 33 18.13	-12 17 07.8	19.4 V	691	1997 NC ₆	1997 07 09.43887	21 23 18.23	-11 11 28.2	20.2 V	691
1997 NV ₅	1997 07 12.43954	21 33 17.55	-12 17 06.1	19.6 V	691	1997 NC ₆	1997 07 09.45487	21 23 17.74	-11 11 26.6	20.3 V	691
1997 NV ₅	1997 07 12.46193	21 33 16.84	-12 17 04.7	19.6 V	691	1997 NC ₆	1997 07 11.40634	21 22 19.87	-11 09 05.9	20.1 V	691
1997 NW ₅	* 1997 07 07.34262	21 43 27.34	-12 07 38.6	20.9 V	691	1997 NC ₆	1997 07 11.42447	21 22 19.22	-11 09 04.8	19.8 V	691
1997 NW ₅	1997 07 07.36606	21 43 26.76	-12 07 37.8	20.7 V	691	1997 NC ₆	1997 07 11.44276	21 22 18.59	-11 09 03.8	19.9 V	691
1997 NW ₅	1997 07 07.38762	21 43 26.20	-12 07 34.1	20.2 V	691	1997 ND ₆	* 1997 07 09.42489	21 26 33.73	-11 06 21.8	20.8 V	691

1997 ND ₆	1997 07 09.44112	21 26 33.28	-11 06 24.3	20.7 V	691	1997 NA ₇	1997 07 06.22754	15 37 58.21	-12 23 18.6	20.4 V	691
1997 ND ₆	1997 07 09.45712	21 26 32.79	-11 06 27.2	21.2 V	691	1997 NA ₇	1997 07 12.21086	15 36 15.27	-12 48 13.9	20.3 V	691
1997 ND ₆	1997 07 11.40863	21 25 37.96	-11 12 17.4	21.2 V	691	1997 NA ₇	1997 07 12.23364	15 36 14.96	-12 48 19.8	20.4 V	691
1997 ND ₆	1997 07 11.42676	21 25 37.36	-11 12 21.1	20.4 V	691	1997 NA ₇	1997 07 12.25566	15 36 14.64	-12 48 26.0	20.8 V	691
1997 ND ₆	1997 07 11.44505	21 25 36.83	-11 12 24.4	20.6 V	691	1997 NB ₇	* 1997 07 06.25113	16 03 30.18	-06 30 09.9	19.5 V	691
1997 NE ₆	* 1997 07 09.42504	21 26 47.17	-11 12 50.2	18.9 V	691	1997 NB ₇	1997 07 06.27208	16 03 29.69	-06 30 12.9	19.6 V	691
1997 NE ₆	1997 07 09.44127	21 26 46.76	-11 12 55.8	18.9 V	691	1997 NB ₇	1997 07 06.29393	16 03 29.16	-06 30 16.5	19.7 V	691
1997 NE ₆	1997 07 09.45728	21 26 46.33	-11 13 01.0	19.0 V	691	1997 NB ₇	1997 07 12.28071	16 01 38.07	-06 48 18.4	20.0 V	691
1997 NE ₆	1997 07 11.40885	21 25 57.15	-11 24 24.3	18.8 V	691	1997 NB ₇	1997 07 12.30243	16 01 37.74	-06 48 22.5	20.0 V	691
1997 NE ₆	1997 07 11.42698	21 25 56.64	-11 24 31.1	18.9 V	691	1997 NB ₇	1997 07 12.32493	16 01 37.41	-06 48 27.3	19.7 V	691
1997 NE ₆	1997 07 11.44527	21 25 56.09	-11 24 37.5	18.8 V	691	1997 NC ₇	* 1997 07 06.30726	21 18 37.61	-12 45 54.9	19.9 V	691
1997 NE ₆	1997 07 12.34699	21 25 31.61	-11 30 07.7	19.2 V	691	1997 NC ₇	1997 07 06.34085	21 18 37.21	-12 45 39.1	19.8 V	691
1997 NE ₆	1997 07 12.37102	21 25 30.91	-11 30 16.9	19.3 V	691	1997 NC ₇	1997 07 06.37636	21 18 36.93	-12 45 21.8	19.3 V	691
1997 NE ₆	1997 07 12.39262	21 25 30.26	-11 30 24.8	19.2 V	691	1997 NC ₇	1997 07 12.40826	21 17 09.09	-12 00 57.7	19.5 V	691
1997 NF ₆	* 1997 07 10.36576	21 36 16.02	-12 31 50.8	21.0 V	691	1997 NC ₇	1997 07 12.42870	21 17 08.61	-12 00 49.5	19.8 V	691
1997 NF ₆	1997 07 10.39289	21 36 15.39	-12 31 45.2	20.9 V	691	1997 NC ₇	1997 07 12.45110	21 17 08.05	-12 00 39.0	19.3 V	691
1997 NF ₆	1997 07 10.41466	21 36 14.80	-12 31 41.1	20.5 V	691	1997 ND ₇	* 1997 07 07.18487	16 00 18.73	-06 09 17.0	19.4 V	691
1997 NF ₆	1997 07 11.34819	21 35 53.42	-12 28 37.8	21.5 V	691	1997 ND ₇	1997 07 07.21705	16 00 18.21	-06 09 26.2	19.5 V	691
1997 NF ₆	1997 07 11.37041	21 35 52.78	-12 28 33.4	20.9 V	691	1997 ND ₇	1997 07 07.24811	16 00 17.79	-06 09 34.6	20.1 V	691
1997 NF ₆	1997 07 11.39256	21 35 52.22	-12 28 28.9	20.9 V	691	1997 ND ₇	1997 07 12.27923	15 59 29.95	-06 34 54.7	19.4 V	691
1997 NV ₆	* 1997 07 01.34903	21 38 26.60	-11 45 16.7	20.8 V	691	1997 ND ₇	1997 07 12.30095	15 59 29.84	-06 35 01.9	19.5 V	691
1997 NV ₆	1997 07 01.37006	21 38 26.22	-11 45 14.9	20.8 V	691	1997 ND ₇	1997 07 12.32345	15 59 29.67	-06 35 08.9	19.4 V	691
1997 NV ₆	1997 07 01.39115	21 38 25.90	-11 45 12.4	21.3 V	691	1997 NE ₇	* 1997 07 07.19071	16 08 44.75	-06 20 46.1	19.5 V	691
1997 NV ₆	1997 07 12.35309	21 34 19.77	-11 34 04.3	20.7 V	691	1997 NE ₇	1997 07 07.22288	16 08 43.93	-06 20 59.7	19.6 V	691
1997 NV ₆	1997 07 12.37712	21 34 19.00	-11 34 03.4	20.4 V	691	1997 NE ₇	1997 07 07.25394	16 08 43.17	-06 21 12.5	19.9 V	691
1997 NV ₆	1997 07 12.39872	21 34 18.34	-11 34 03.2	21.2 V	691	1997 NE ₇	1997 07 12.28452	16 07 07.62	-06 57 33.3	19.9 V	691
1997 NW ₆	* 1997 07 01.35024	21 40 10.86	-11 38 41.7	20.6 V	691	1997 NE ₇	1997 07 12.30623	16 07 07.32	-06 57 42.4	19.7 V	691
1997 NW ₆	1997 07 01.37127	21 40 10.54	-11 38 42.7	20.8 V	691	1997 NE ₇	1997 07 12.32873	16 07 06.94	-06 57 52.9	19.9 V	691
1997 NW ₆	1997 07 01.39235	21 40 10.26	-11 38 43.5	21.2 V	691	1997 NF ₇	* 1997 07 07.39636	21 22 42.37	-11 34 43.1	20.3 V	691
1997 NW ₆	1997 07 12.35460	21 36 31.11	-11 55 40.1	20.8 V	691	1997 NF ₇	1997 07 07.41745	21 22 41.91	-11 34 46.9	20.3 V	691
1997 NW ₆	1997 07 12.37864	21 36 30.45	-11 55 43.9	20.4 V	691	1997 NF ₇	1997 07 07.44193	21 22 41.36	-11 34 51.2	19.9 V	691
1997 NW ₆	1997 07 12.40023	21 36 29.84	-11 55 46.5	21.2 V	691	1997 NF ₇	1997 07 12.34369	21 20 45.84	-11 51 29.9	19.6 V	691
1997 NX ₆	* 1997 07 02.33446	21 29 34.33	-11 27 07.5	19.4 V	691	1997 NF ₇	1997 07 12.36773	21 20 45.16	-11 51 35.3	19.4 V	691
1997 NX ₆	1997 07 02.35624	21 29 33.85	-11 27 11.6	19.8 V	691	1997 NF ₇	1997 07 12.38932	21 20 44.50	-11 51 40.3	19.5 V	691
1997 NX ₆	1997 07 02.37840	21 29 33.34	-11 27 15.1	20.0 V	691	1997 NG ₇	* 1997 07 07.39664	21 23 06.35	-11 30 12.6	17.9 V	691
1997 NX ₆	1997 07 12.41331	21 24 56.73	-12 02 55.3	19.2 V	691	1997 NG ₇	1997 07 07.41772	21 23 05.94	-11 30 15.1	17.9 V	691
1997 NX ₆	1997 07 12.43375	21 24 55.92	-12 03 00.4	19.3 V	691	1997 NG ₇	1997 07 07.44221	21 23 05.44	-11 30 19.5	18.0 V	691
1997 NX ₆	1997 07 12.45614	21 24 55.12	-12 03 06.1	19.6 V	691	1997 NG ₇	1997 07 12.34407	21 21 18.36	-11 43 57.0	17.9 V	691
1997 NY ₆	* 1997 07 02.40541	21 34 15.81	-11 06 06.3	19.2 V	691	1997 NG ₇	1997 07 12.36810	21 21 17.60	-11 44 00.6	17.6 V	691
1997 NY ₆	1997 07 02.43761	21 34 15.26	-11 06 15.5	19.4 V	691	1997 NG ₇	1997 07 12.38970	21 21 17.05	-11 44 05.9	17.8 V	691
1997 NY ₆	1997 07 02.45548	21 34 14.94	-11 06 20.6	19.4 V	691	1997 NH ₇	* 1997 07 07.39748	21 24 19.25	-11 44 23.7	18.7 V	691
1997 NY ₆	1997 07 12.41710	21 30 24.58	-12 02 28.4	18.8 V	691	1997 NH ₇	1997 07 07.41856	21 24 18.76	-11 44 24.0	19.4 V	691
1997 NY ₆	1997 07 12.43753	21 30 23.81	-12 02 35.9	19.2 V	691	1997 NH ₇	1997 07 07.44305	21 24 18.31	-11 44 24.0	19.2 V	691
1997 NY ₆	1997 07 12.45993	21 30 23.09	-12 02 44.6	19.1 V	691	1997 NH ₇	1997 07 12.34495	21 22 34.59	-11 45 18.2	19.2 V	691
1997 NZ ₆	* 1997 07 06.17827	15 28 40.38	-12 20 10.1	20.1 V	691	1997 NH ₇	1997 07 12.36898	21 22 33.96	-11 45 18.4	18.9 V	691
1997 NZ ₆	1997 07 06.19970	15 28 40.24	-12 20 17.3	20.0 V	691	1997 NH ₇	1997 07 12.39058	21 22 33.34	-11 45 19.2	19.1 V	691
1997 NZ ₆	1997 07 06.22110	15 28 40.09	-12 20 24.3	19.9 V	691	1997 NJ ₇	* 1997 07 07.40202	21 30 52.59	-11 51 18.8	19.5 V	691
1997 NZ ₆	1997 07 12.20565	15 28 43.95	-12 54 16.8	19.8 V	691	1997 NJ ₇	1997 07 07.42311	21 30 52.18	-11 51 17.6	19.4 V	691
1997 NZ ₆	1997 07 12.22843	15 28 44.03	-12 54 24.8	20.0 V	691	1997 NJ ₇	1997 07 07.44759	21 30 51.83	-11 51 16.2	19.3 V	691
1997 NZ ₆	1997 07 12.25046	15 28 44.11	-12 54 33.0	19.8 V	691	1997 NJ ₇	1997 07 12.34972	21 29 27.74	-11 48 43.6	19.3 V	691
1997 NA ₇	* 1997 07 06.18472	15 37 59.21	-12 23 08.8	20.4 V	691	1997 NJ ₇	1997 07 12.37375	21 29 27.09	-11 48 43.7	19.4 V	691
1997 NA ₇	1997 07 06.20614	15 37 58.70	-12 23 13.7	20.7 V	691	1997 NJ ₇	1997 07 12.39535	21 29 26.56	-11 48 43.2	19.3 V	691

1997 NK ₇	* 1997 07 07.40435	21 34 14.43	-11 26 06.0	19.5 V	691	1997 NS ₇	1997 07 12.39234	21 25 05.51	-11 41 31.7	20.6 V	691
1997 NK ₇	1997 07 07.42544	21 34 14.01	-11 26 08.3	19.5 V	691	1997 NT ₇	* 1997 07 11.34225	21 27 18.60	-12 00 27.4	18.7 V	691
1997 NK ₇	1997 07 07.44992	21 34 13.56	-11 26 12.4	19.3 V	691	1997 NT ₇	1997 07 11.36447	21 27 18.14	-12 00 26.3	18.7 V	691
1997 NK ₇	1997 07 12.35186	21 32 33.47	-11 40 32.8	19.7 V	691	1997 NT ₇	1997 07 11.38662	21 27 17.71	-12 00 25.1	18.8 V	691
1997 NK ₇	1997 07 12.37590	21 32 32.85	-11 40 37.6	19.4 V	691	1997 NT ₇	1997 07 12.41472	21 26 58.56	-11 59 35.2	18.4 V	691
1997 NK ₇	1997 07 12.39749	21 32 32.31	-11 40 41.8	19.3 V	691	1997 NT ₇	1997 07 12.43516	21 26 58.06	-11 59 34.3	18.4 V	691
1997 NL ₇	* 1997 07 07.40480	21 34 53.66	-11 32 00.0	18.7 V	691	1997 NT ₇	1997 07 12.45755	21 26 57.55	-11 59 33.5	18.3 V	691
1997 NL ₇	1997 07 07.42589	21 34 53.17	-11 32 03.0	18.6 V	691	1997 NU ₇	* 1997 07 11.34261	21 27 50.06	-12 07 45.3	19.9 V	691
1997 NL ₇	1997 07 07.45037	21 34 52.69	-11 32 06.2	18.7 V	691	1997 NU ₇	1997 07 11.36483	21 27 49.39	-12 07 45.6	19.9 V	691
1997 NL ₇	1997 07 12.35214	21 32 57.87	-11 46 07.0	18.7 V	691	1997 NU ₇	1997 07 11.38698	21 27 48.78	-12 07 46.1	19.8 V	691
1997 NL ₇	1997 07 12.37618	21 32 57.12	-11 46 12.0	18.6 V	691	1997 NU ₇	1997 07 12.41497	21 27 20.27	-12 08 13.4	19.9 V	691
1997 NL ₇	1997 07 12.39777	21 32 56.46	-11 46 16.2	18.6 V	691	1997 NU ₇	1997 07 12.43540	21 27 19.60	-12 08 14.1	20.1 V	691
1997 NM ₇	* 1997 07 07.40481	21 34 53.80	-11 37 12.7	20.5 V	691	1997 NU ₇	1997 07 12.45780	21 27 18.91	-12 08 14.6	20.1 V	691
1997 NM ₇	1997 07 07.42589	21 34 53.30	-11 37 13.3	20.9 V	691	1997 NV ₇	* 1997 07 11.34308	21 28 30.52	-12 16 17.8	18.1 V	691
1997 NM ₇	1997 07 07.45037	21 34 52.78	-11 37 13.9	20.4 V	691	1997 NV ₇	1997 07 11.36530	21 28 29.95	-12 16 16.8	18.0 V	691
1997 NM ₇	1997 07 12.35211	21 32 55.21	-11 42 15.7	20.3 V	691	1997 NV ₇	1997 07 11.38745	21 28 29.41	-12 16 16.0	17.9 V	691
1997 NM ₇	1997 07 12.37614	21 32 54.46	-11 42 18.0	20.5 V	691	1997 NV ₇	1997 07 12.41548	21 28 04.71	-12 15 37.8	17.9 V	691
1997 NM ₇	1997 07 12.39774	21 32 53.79	-11 42 19.8	20.3 V	691	1997 NV ₇	1997 07 12.43592	21 28 04.13	-12 15 37.0	18.0 V	691
1997 NN ₇	* 1997 07 07.40723	21 38 23.39	-11 30 45.5	18.1 V	691	1997 NV ₇	1997 07 12.45832	21 28 03.51	-12 15 36.3	18.1 V	691
1997 NN ₇	1997 07 07.42831	21 38 22.79	-11 30 48.4	18.1 V	691	1997 NW ₇	* 1997 07 11.34430	21 30 16.42	-12 18 20.9	18.4 V	691
1997 NN ₇	1997 07 07.45279	21 38 22.06	-11 30 51.9	18.2 V	691	1997 NW ₇	1997 07 11.36652	21 30 15.65	-12 18 17.3	18.4 V	691
1997 NN ₇	1997 07 12.35413	21 35 49.72	-11 44 58.9	18.0 V	691	1997 NW ₇	1997 07 11.38867	21 30 14.87	-12 18 14.2	18.3 V	691
1997 NN ₇	1997 07 12.37816	21 35 48.82	-11 45 03.9	17.9 V	691	1997 NW ₇	1997 07 12.41659	21 29 40.38	-12 15 39.5	18.4 V	691
1997 NN ₇	1997 07 12.39975	21 35 48.02	-11 45 07.9	18.0 V	691	1997 NW ₇	1997 07 12.43702	21 29 39.60	-12 15 36.4	18.5 V	691
1997 NO ₇	* 1997 07 07.40847	21 40 11.35	-11 27 54.5	19.8 V	691	1997 NW ₇	1997 07 12.45942	21 29 38.76	-12 15 33.1	18.4 V	691
1997 NO ₇	1997 07 07.42956	21 40 10.88	-11 27 57.2	20.8 V	691	1997 NX ₇	* 1997 07 11.34917	21 37 17.99	-12 10 22.9	19.9 V	691
1997 NO ₇	1997 07 07.45404	21 40 10.29	-11 28 00.1	20.9 V	691	1997 NX ₇	1997 07 11.37139	21 37 17.42	-12 10 26.5	19.5 V	691
1997 NO ₇	1997 07 12.35578	21 38 13.15	-11 40 31.5	21.1 V	691	1997 NX ₇	1997 07 11.39354	21 37 16.87	-12 10 30.1	19.7 V	691
1997 NO ₇	1997 07 12.37982	21 38 12.54	-11 40 35.2	20.5 V	691	1997 NX ₇	1997 07 12.42157	21 36 52.21	-12 13 20.5	19.9 V	691
1997 NO ₇	1997 07 12.40141	21 38 11.89	-11 40 38.7	20.9 V	691	1997 NX ₇	1997 07 12.44201	21 36 51.65	-12 13 23.6	19.8 V	691
1997 NP ₇	* 1997 07 07.41021	21 42 42.26	-11 37 38.3	19.5 V	691	1997 NX ₇	1997 07 12.46441	21 36 51.02	-12 13 27.5	19.8 V	691
1997 NP ₇	1997 07 07.43130	21 42 41.57	-11 37 36.3	19.8 V	691	1997 NY ₇	* 1997 07 11.35083	21 39 42.31	-12 08 15.2	19.8 V	691
1997 NP ₇	1997 07 07.45577	21 42 40.65	-11 37 32.9	19.4 V	691	1997 NY ₇	1997 07 11.37306	21 39 42.14	-12 08 24.4	19.6 V	691
1997 NP ₇	1997 07 12.35684	21 39 44.49	-11 28 48.1	19.6 V	691	1997 NY ₇	1997 07 11.39521	21 39 41.94	-12 08 33.8	19.7 V	691
1997 NP ₇	1997 07 12.38087	21 39 43.49	-11 28 45.9	19.5 V	691	1997 NY ₇	1997 07 12.42345	21 39 35.44	-12 15 51.2	19.8 V	691
1997 NP ₇	1997 07 12.40246	21 39 42.57	-11 28 44.1	19.5 V	691	1997 NY ₇	1997 07 12.44390	21 39 35.28	-12 16 00.2	20.0 V	691
1997 NQ ₇	* 1997 07 07.41058	21 43 13.97	-11 37 09.0	19.7 V	691	1997 NY ₇	1997 07 12.46630	21 39 35.06	-12 16 10.3	19.7 V	691
1997 NQ ₇	1997 07 07.43167	21 43 13.63	-11 37 11.2	19.7 V	691	1997 NZ ₇	* 1997 07 11.36121	21 22 35.22	-12 08 18.4	19.5 V	691
1997 NQ ₇	1997 07 07.45615	21 43 13.05	-11 37 13.0	19.7 V	691	1997 NZ ₇	1997 07 11.38335	21 22 34.29	-12 08 21.4	19.4 V	691
1997 NQ ₇	1997 07 12.35799	21 41 24.60	-11 46 59.5	20.0 V	691	1997 NZ ₇	1997 07 12.41120	21 21 53.50	-12 10 49.4	19.6 V	691
1997 NQ ₇	1997 07 12.38203	21 41 23.99	-11 47 03.0	19.7 V	691	1997 NZ ₇	1997 07 12.43163	21 21 52.65	-12 10 52.5	19.6 V	691
1997 NQ ₇	1997 07 12.40362	21 41 23.37	-11 47 05.8	19.7 V	691	1997 NZ ₇	1997 07 12.45402	21 21 51.71	-12 10 55.7	19.6 V	691
1997 NR ₇	* 1997 07 07.41059	21 43 15.13	-11 45 03.7	18.2 V	691	1997 NA ₈	* 1997 07 11.41466	21 34 20.71	-11 23 17.9	20.9 V	691
1997 NR ₇	1997 07 07.43168	21 43 14.77	-11 45 07.2	18.3 V	691	1997 NA ₈	1997 07 11.43279	21 34 20.31	-11 23 22.3	20.8 V	691
1997 NR ₇	1997 07 07.45616	21 43 14.29	-11 45 09.5	18.4 V	691	1997 NA ₈	1997 07 11.45109	21 34 20.02	-11 23 26.9	21.3 V	691
1997 NR ₇	1997 07 12.42484	21 41 35.66	-11 58 46.0	17.8 V	691	1997 NA ₈	1997 07 12.35291	21 34 04.24	-11 27 26.6	20.9 V	691
1997 NR ₇	1997 07 12.44528	21 41 35.11	-11 58 50.2	18.4 V	691	1997 NA ₈	1997 07 12.37694	21 34 03.73	-11 27 33.2	21.0 V	691
1997 NR ₇	1997 07 12.46768	21 41 34.47	-11 58 54.7	17.9 V	691	1997 NA ₈	1997 07 12.39854	21 34 03.24	-11 27 39.5	20.8 V	691
1997 NS ₇	* 1997 07 07.42054	21 27 09.80	-11 29 50.7	20.5 V	691	1997 NG ₈	* 1997 07 03.38217	21 11 42.91	-01 13 48.5	19.1 V	691
1997 NS ₇	1997 07 07.44502	21 27 09.22	-11 29 54.2	20.5 V	691	1997 NG ₈	1997 07 03.40342	21 11 42.38	-01 13 48.2	19.1 V	691
1997 NS ₇	1997 07 12.34670	21 25 06.82	-11 41 24.2	20.4 V	691	1997 NG ₈	1997 07 03.42469	21 11 41.85	-01 13 47.8	19.1 V	691
1997 NS ₇	1997 07 12.37074	21 25 06.16	-11 41 27.8	20.1 V	691	1997 NG ₈	1997 07 13.38856	21 06 50.81	-01 20 12.1	19.0 V	691

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1997 NG ₈	1997 07 13.40980	21 06 50.00	-01 20 13.9	18.9 V	691	4046 T-3	1997 07 08.21707	15 28 50.72	-13 53 14.0	17.9 V	691
1997 NG ₈	1997 07 13.43097	21 06 49.23	-01 20 16.1	19.0 V	691	5078 T-3	1997 05 01.31312	14 11 35.80	-04 01 39.7	17.1 V	691
1997 NH ₈	* 1997 07 08.32440	21 10 26.56	-01 48 45.8	20.2 V	691	5078 T-3	1997 05 01.34134	14 11 34.42	-04 01 38.5	17.2 V	691
1997 NH ₈	1997 07 08.35151	21 10 25.81	-01 48 43.4	20.0 V	691	5078 T-3	1997 05 01.37336	14 11 32.74	-04 01 35.2	17.1 V	691
1997 NH ₈	1997 07 08.37274	21 10 25.25	-01 48 41.4	20.0 V	691	(798)	1997 07 06.41956	00 51 36.28	+12 00 00.9	15.3 V	691
1997 NH ₈	1997 07 13.32258	21 08 04.62	-01 43 54.6	20.5 V	691	(798)	1997 07 06.42983	00 51 36.71	+12 00 03.8	15.2 V	691
1997 NH ₈	1997 07 13.34454	21 08 03.82	-01 43 53.5	20.2 V	691	(798)	1997 07 06.43937	00 51 37.09	+12 00 06.7	15.2 V	691
1997 NH ₈	1997 07 13.36623	21 08 03.12	-01 43 51.9	19.8 V	691	(1319)	1997 07 11.41496	21 34 46.55	-10 56 52.5	15.1 V	691
1997 NJ ₈	* 1997 07 08.32905	21 17 09.83	-01 35 41.0	19.6 V	691	(1319)	1997 07 11.43309	21 34 45.92	-10 56 54.1	15.1 V	691
1997 NJ ₈	1997 07 08.35617	21 17 09.14	-01 35 33.5	19.5 V	691	(1319)	1997 07 11.45138	21 34 45.30	-10 56 55.7	15.2 V	691
1997 NJ ₈	1997 07 08.37740	21 17 08.61	-01 35 27.6	20.0 V	691	(1345)	1997 06 26.25102	16 13 34.33	-07 45 27.8	16.2 V	691
1997 NJ ₈	1997 07 13.39412	21 14 52.53	-01 14 46.2	19.6 V	691	(1345)	1997 06 26.27241	16 13 33.75	-07 45 29.2	16.3 V	691
1997 NJ ₈	1997 07 13.41536	21 14 51.81	-01 14 41.5	20.0 V	691	(1345)	1997 06 26.29348	16 13 33.13	-07 45 30.9	16.4 V	691
1997 NJ ₈	1997 07 13.43654	21 14 51.03	-01 14 37.3	19.4 V	691	(1345)	1997 07 01.24714	16 11 25.45	-07 51 59.9	16.2 V	691
1997 NK ₈	* 1997 07 08.32950	21 17 48.44	-01 49 27.3	16.9 V	691	(1345)	1997 07 01.26942	16 11 24.90	-07 52 01.8	16.2 V	691
1997 NK ₈	1997 07 08.35662	21 17 47.94	-01 49 27.9	17.0 V	691	(1345)	1997 07 01.29189	16 11 24.37	-07 52 04.0	16.3 V	691
1997 NK ₈	1997 07 08.37785	21 17 47.55	-01 49 28.4	16.9 V	691	(1529)	1997 06 27.17803	15 49 11.70	-13 28 59.4	16.8 V	691
1997 NK ₈	1997 07 13.32818	21 16 09.45	-01 54 47.9	16.9 V	691	(1529)	1997 06 27.19937	15 49 11.15	-13 29 00.5	16.7 V	691
1997 NK ₈	1997 07 13.35014	21 16 08.77	-01 54 50.3	16.9 V	691	(1529)	1997 06 27.22937	15 49 10.38	-13 29 01.4	16.7 V	691
1997 NK ₈	1997 07 13.37183	21 16 08.18	-01 54 52.6	16.8 V	691	(1529)	1997 07 08.18518	15 45 24.86	-13 37 20.7	16.9 V	691
1997 NL ₈	* 1997 07 08.33153	21 20 44.65	-01 57 43.3	20.2 V	691	(1529)	1997 07 08.20688	15 45 24.48	-13 37 22.4	16.9 V	691
1997 NL ₈	1997 07 08.35865	21 20 43.79	-01 57 40.5	20.2 V	691	(1529)	1997 07 08.22854	15 45 24.11	-13 37 24.0	16.9 V	691
1997 NL ₈	1997 07 08.37987	21 20 43.11	-01 57 38.2	20.1 V	691	(2550)	1997 07 06.26417	15 52 04.02	-06 44 26.7	17.5 V	691
1997 NL ₈	1997 07 13.32944	21 17 58.70	-01 50 19.0	20.4 V	691	(2550)	1997 07 06.28601	15 52 03.59	-06 44 28.9	17.4 V	691
1997 NL ₈	1997 07 13.35140	21 17 57.80	-01 50 18.0	20.2 V	691	(2550)	1997 07 12.27296	15 50 26.49	-06 57 04.2	17.6 V	691
1997 NL ₈	1997 07 13.37309	21 17 56.97	-01 50 16.2	20.3 V	691	(2550)	1997 07 12.29468	15 50 26.18	-06 57 07.1	17.6 V	691
1997 NM ₈	* 1997 07 08.33246	21 22 05.25	-01 58 23.1	19.6 V	691	(2550)	1997 07 12.31717	15 50 25.89	-06 57 10.4	17.4 V	691
1997 NM ₈	1997 07 08.35958	21 22 04.57	-01 58 17.5	19.0 V	691	(2887)	1997 06 27.16497	15 30 21.16	-13 08 47.0	15.2 V	691
1997 NM ₈	1997 07 08.38081	21 22 03.92	-01 58 14.6	19.1 V	691	(2887)	1997 06 27.18632	15 30 20.91	-13 08 52.3	15.3 V	691
1997 NM ₈	1997 07 13.33054	21 19 33.96	-01 46 13.8	19.5 V	691	(2887)	1997 06 27.21632	15 30 20.56	-13 08 59.5	15.4 V	691
1997 NM ₈	1997 07 13.35250	21 19 33.14	-01 46 11.8	19.4 V	691	(2887)	1997 07 08.17515	15 30 55.70	-14 01 01.7	15.8 V	691
1997 NM ₈	1997 07 13.37419	21 19 32.37	-01 46 09.2	19.1 V	691	(2887)	1997 07 08.19685	15 30 55.98	-14 01 08.2	15.7 V	691
1997 NN ₈	* 1997 07 08.33400	21 24 18.32	-01 53 13.5	20.5 V	691	(2887)	1997 07 08.21852	15 30 56.25	-14 01 15.2	15.6 V	691
1997 NN ₈	1997 07 08.36112	21 24 17.55	-01 53 14.4	20.3 V	691	(3331)	1997 07 03.20660	15 24 57.13	-13 27 44.3	17.8 V	691
1997 NN ₈	1997 07 08.38234	21 24 16.96	-01 53 14.9	20.4 V	691	(3331)	1997 07 03.22842	15 24 56.89	-13 27 45.7	17.6 V	691
1997 NN ₈	1997 07 13.33212	21 21 51.25	-01 57 08.9	21.1 V	691	(3331)	1997 07 03.25181	15 24 56.62	-13 27 47.4	17.6 V	691
1997 NN ₈	1997 07 13.35409	21 21 50.58	-01 57 11.1	21.3 V	691	(3529)	1997 07 02.39554	21 20 00.92	-10 57 16.8	18.1 V	691
1997 NN ₈	1997 07 13.37578	21 21 49.85	-01 57 12.7	20.8 V	691	(3529)	1997 07 02.42774	21 20 00.35	-10 57 16.9	18.2 V	691
6186 P-L	1991 11 04.47762	03 18 23.12	+13 50 01.8	19.6 V	691	(3529)	1997 07 02.44561	21 20 00.05	-10 57 16.9	18.3 V	691
6186 P-L	1991 11 04.49649	03 18 22.01	+13 49 53.4		691	(3529)	1997 07 09.41887	21 17 32.37	-11 01 28.5	17.9 V	691
6186 P-L	1991 11 04.51520	03 18 20.73	+13 49 45.8		691	(3529)	1997 07 09.43510	21 17 31.88	-11 01 29.1	18.2 V	691
6583 P-L	1997 06 28.16391	15 29 44.97	-12 43 10.8	18.4 V	691	(3529)	1997 07 09.45113	21 17 31.43	-11 01 30.2	18.3 V	691
6583 P-L	1997 06 28.18517	15 29 44.51	-12 43 10.9	18.5 V	691	(3547)	1997 07 11.41342	21 32 32.63	-10 55 23.6	17.5 V	691
6583 P-L	1997 06 28.20637	15 29 44.03	-12 43 11.1	18.6 V	691	(3547)	1997 07 11.43154	21 32 31.98	-10 55 24.3	17.5 V	691
3268 T-3	1997 06 29.16885	15 36 37.81	-12 22 28.2	19.5 V	691	(3547)	1997 07 11.44984	21 32 31.34	-10 55 24.7	17.5 V	691
3268 T-3	1997 06 29.19041	15 36 37.44	-12 22 27.4	19.5 V	691	(4675)	1997 06 29.38452	21 39 36.44	-12 45 33.6	16.6 V	691
3268 T-3	1997 06 29.21194	15 36 37.07	-12 22 27.1	20.3 V	691	(4675)	1997 06 29.40577	21 39 36.03	-12 45 32.2	16.7 V	691
4046 T-3	1997 07 03.20889	15 28 15.03	-13 25 42.6	17.5 V	691	(4675)	1997 06 29.42709	21 39 35.62	-12 45 30.1	16.7 V	691
4046 T-3	1997 07 03.23070	15 28 15.02	-13 25 49.5	17.7 V	691	(4675)	1997 07 06.31993	21 36 55.25	-12 39 33.1	16.5 V	691
4046 T-3	1997 07 03.25410	15 28 15.00	-13 25 57.2	17.9 V	691	(4675)	1997 07 06.35351	21 36 54.19	-12 39 32.6	16.4 V	691
4046 T-3	1997 07 08.17370	15 28 50.30	-13 52 59.8	17.7 V	691	(4675)	1997 07 06.38901	21 36 53.05	-12 39 31.9	16.4 V	691
4046 T-3	1997 07 08.19540	15 28 50.51	-13 53 06.7	17.7 V	691	(4675)	1997 07 10.36466	21 34 40.89	-12 39 07.7	16.5 V	691

(4675)	1997 07 10.39179	21 34 39.82	-12 39 07.8	16.5 V	691
(4675)	1997 07 10.41356	21 34 38.97	-12 39 08.4	16.4 V	691
(4843)	1997 07 07.19176	16 10 15.80	-06 15 23.7	17.2 V	691
(4843)	1997 07 07.22394	16 10 15.04	-06 15 28.1	17.2 V	691
(4843)	1997 07 07.25500	16 10 14.30	-06 15 32.5	17.2 V	691
(4843)	1997 07 12.28555	16 08 37.26	-06 28 20.6	16.4 V	691
(4843)	1997 07 12.30727	16 08 36.84	-06 28 22.6	17.1 V	691
(4843)	1997 07 12.32976	16 08 36.34	-06 28 27.3	17.2 V	691
(5016)	1997 06 27.16902	15 36 11.45	-13 15 17.7	16.5 V	691
(5016)	1997 06 27.19036	15 36 11.09	-13 15 17.9	16.7 V	691
(5016)	1997 06 27.22037	15 36 10.60	-13 15 18.4	16.5 V	691
(5016)	1997 07 03.21385	15 35 24.76	-13 19 56.6	16.5 V	691
(5016)	1997 07 03.25906	15 35 24.60	-13 19 59.8	16.6 V	691
(5260)	1997 07 09.35383	21 20 58.40	-00 36 17.7	17.3 V	691
(5260)	1997 07 09.37506	21 20 57.74	-00 36 19.6	17.3 V	691
(5260)	1997 07 09.39606	21 20 57.07	-00 36 22.0	17.4 V	691
(5272)	1997 06 29.16898	15 36 48.99	-11 58 29.2	18.0 V	691
(5272)	1997 06 29.19053	15 36 48.39	-11 58 30.5	18.0 V	691
(5272)	1997 06 29.21207	15 36 47.76	-11 58 31.9	17.7 V	691
(5272)	1997 07 06.18236	15 34 34.09	-12 09 54.0	18.1 V	691
(5272)	1997 07 06.20378	15 34 33.80	-12 09 56.8	18.0 V	691
(5272)	1997 07 06.22518	15 34 33.48	-12 09 59.5	18.3 V	691
(5374)	1997 06 29.37536	21 26 23.49	-12 48 43.9	16.7 V	691
(5374)	1997 06 29.39662	21 26 22.95	-12 48 42.1	16.6 V	691
(5374)	1997 06 29.41793	21 26 22.40	-12 48 40.4	16.6 V	691
(5374)	1997 07 06.31035	21 23 05.86	-12 40 50.0	16.5 V	691
(5374)	1997 07 06.34394	21 23 04.73	-12 40 48.1	16.8 V	691
(5374)	1997 07 06.37943	21 23 03.55	-12 40 46.1	17.0 V	691
(5374)	1997 07 10.35503	21 20 46.65	-12 37 52.8	16.6 V	691
(5374)	1997 07 10.38216	21 20 45.63	-12 37 52.0	16.4 V	691
(5374)	1997 07 10.40393	21 20 44.82	-12 37 51.3	16.4 V	691
(5541)	1997 07 07.23205	16 21 57.54	-06 22 01.6	18.4 V	691
(5541)	1997 07 07.26311	16 21 56.73	-06 22 03.4	18.3 V	691
(5734)	1997 06 27.21543	15 29 03.05	-13 11 29.2	18.0 V	691
(5734)	1997 07 03.20822	15 27 17.05	-13 31 28.0	17.7 V	691
(5734)	1997 07 03.23003	15 27 16.73	-13 31 32.9	17.7 V	691
(5734)	1997 07 03.25342	15 27 16.43	-13 31 37.7	18.0 V	691
(5866)	1997 07 06.31964	21 36 30.14	-12 31 38.1	18.1 V	691
(5866)	1997 07 06.35323	21 36 29.43	-12 31 44.3	17.9 V	691
(5866)	1997 07 06.38873	21 36 28.66	-12 31 50.7	18.0 V	691
(5866)	1997 07 10.36486	21 34 58.43	-12 44 43.0	18.3 V	691
(5866)	1997 07 10.39199	21 34 57.69	-12 44 48.6	18.1 V	691
(5866)	1997 07 10.41377	21 34 57.09	-12 44 53.6	18.0 V	691
(5902)	1997 07 12.35598	21 38 30.34	-11 36 06.5	16.4 V	691
(5902)	1997 07 12.38002	21 38 29.78	-11 36 14.1	16.3 V	691
(5902)	1997 07 12.40161	21 38 29.25	-11 36 20.7	16.4 V	691
(6069)	1997 06 27.16231	15 26 30.10	-13 05 18.8	17.3 V	691
(6069)	1997 06 27.18365	15 26 29.75	-13 05 18.7	17.4 V	691
(6069)	1997 06 27.21365	15 26 29.25	-13 05 18.3	17.5 V	691
(6069)	1997 07 03.20708	15 25 38.59	-13 08 05.3	17.8 V	691
(6069)	1997 07 03.22890	15 25 38.49	-13 08 06.7	17.8 V	691
(6069)	1997 07 03.25229	15 25 38.36	-13 08 08.1	17.8 V	691

(6182)	1997 06 30.34697	21 29 27.92	-12 23 28.4	16.7 V	691
(6182)	1997 06 30.37509	21 29 27.88	-12 23 19.7	16.7 V	691
(6182)	1997 06 30.39661	21 29 27.87	-12 23 13.5	16.6 V	691
(6182)	1997 07 07.40061	21 28 50.15	-11 50 50.0	16.6 V	691
(6182)	1997 07 07.42169	21 28 49.77	-11 50 44.9	16.6 V	691
(6182)	1997 07 07.44618	21 28 49.40	-11 50 38.3	16.6 V	691
(6182)	1997 07 12.34826	21 27 21.77	-11 31 33.5	16.4 V	691
(6182)	1997 07 12.37230	21 27 21.13	-11 31 28.4	16.4 V	691
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(6844)	1997 06 29.17094	15 39 38.78	-12 07 07.9	18.0 V	691
(6844)	1997 06 29.19249	15 39 38.18	-12 07 10.8	17.9 V	691
(6844)	1997 06 29.21403	15 39 37.58	-12 07 13.3	17.9 V	691
(6844)	1997 07 06.18429	15 37 21.77	-12 22 53.5	18.0 V	691
(6844)	1997 07 06.20571	15 37 21.45	-12 22 56.5	18.0 V	691
(6844)	1997 07 06.22711	15 37 21.13	-12 23 00.0	18.1 V	691
(6923)	1997 06 26.23544	15 51 04.56	-07 51 16.8	18.6 V	691
(6923)	1997 06 26.25683	15 51 03.97	-07 51 16.6	18.6 V	691
(6923)	1997 06 26.27790	15 51 03.38	-07 51 15.8	18.7 V	691
(6923)	1997 07 01.23169	15 49 06.82	-07 50 31.4	19.3 V	691
(6923)	1997 07 01.25396	15 49 06.33	-07 50 31.3	18.8 V	691
(6923)	1997 07 01.27644	15 49 05.83	-07 50 31.7	18.6 V	691
(6928)	1997 06 26.17159	15 30 52.99	-13 56 29.5	19.3 V	691
(6928)	1997 06 26.19303	15 30 52.36	-13 56 27.5	19.3 V	691
(6928)	1997 06 26.21474	15 30 51.75	-13 56 25.8	19.3 V	691
(6928)	1997 07 02.16481	15 28 30.59	-13 48 12.8	19.1 V	691
(6928)	1997 07 02.19729	15 28 29.89	-13 48 10.1	19.1 V	691
(6928)	1997 07 02.24417	15 28 28.89	-13 48 07.8	19.3 V	691
(6928)	1997 07 08.17235	15 26 53.33	-13 43 27.4	19.1 V	691
(6928)	1997 07 08.19405	15 26 53.03	-13 43 25.9	19.2 V	691
(6928)	1997 07 08.21571	15 26 52.74	-13 43 25.1	19.2 V	691
(7342)	1997 07 02.28325	16 25 14.06	-01 12 57.8	17.6 V	691
(7342)	1997 07 02.30134	16 25 13.50	-01 13 02.1	17.6 V	691
(7342)	1997 07 02.31904	16 25 12.97	-01 13 06.8	17.6 V	691

693 University of Arizona, Catalina Station

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

Observer T. B. Spahr

0.41-m $f/3$ Schmidt

GSC

1993 MC	1993 06 26.32104	19 29 46.76	+00 57 28.1	p 693
1993 MC	1993 06 26.34843	19 29 45.49	+00 57 38.8	693

695 Kitt Peak

T. J. Balonek, Dept. of Physics and Astronomy, Colgate University, Hamilton, NY
13346, U.S.A. [tbalonek@colgate.edu]

Observers T. J. Balonek, L. M. Lee, A. F. Schirmer, M. T. Pickard

Measurers L. W. Breneman, T. J. Balonek

0.61-m $f/3.6$ Burrell Schmidt + CCD

GSC

1993 BN ₃	1996 01 10.20944	06 04 13.27	+33 38 09.7	18.6 R	695
1993 BN ₃	1996 01 10.21543	06 04 12.84	+33 38 09.8		695
1993 BN ₃	1996 01 10.22442	06 04 12.32	+33 38 10.0		695

1993 BN ₃	1996 01 10.24538	06 04 10.78	+33 38 09.5	695	1996 TO ₆₆	1996 11 17.09565	23 48 22.35	+00 42 41.2	21.4 R	696
1993 BN ₃	1996 01 10.25553	06 04 10.11	+33 38 09.2	695	1996 TO ₆₆	1996 11 17.18707	23 48 22.23	+00 42 39.6		696
1993 BN ₃	1996 01 10.27549	06 04 08.73	+33 38 08.6	695	1996 TO ₆₆	1996 12 15.08267	23 47 56.33	+00 41 16.8		696
1993 BN ₃	1996 01 10.28193	06 04 08.36	+33 38 09.6	695	1996 TO ₆₆	1997 02 01.08987	23 49 38.33	+00 54 43.8		696
1993 BN ₃	1996 01 11.33200	06 02 58.12	+33 37 18.5	695	1996 TO ₆₆	1997 02 01.10486	23 49 38.37	+00 54 44.3		696
1993 BN ₃	1996 01 11.33944	06 02 58.13	+33 37 17.4	695	1996 TO ₆₆	1997 02 01.11226	23 49 38.47	+00 54 44.5		696
1993 BN ₃	1996 01 11.35553	06 02 58.12	+33 37 17.4	695	1996 TO ₆₆	1997 06 11.41315	23 58 28.32	+02 05 34.6	20.8 R	696
1993 BN ₃	1996 01 11.36243	06 02 58.13	+33 37 17.3	695	1996 TP ₆₆	1996 11 15.13257	01 06 10.45	+12 46 51.3		696
1993 BN ₃	1996 01 12.36514	06 01 52.91	+33 36 42.3	18.7 R 695	1996 TP ₆₆	1996 11 15.32258	01 06 09.46	+12 46 44.9		696
1993 BN ₃	1996 01 12.37214	06 01 51.45	+33 36 42.9	695	1996 TP ₆₆	1996 11 17.20259	01 05 59.81	+12 45 35.0		696
1993 BN ₃	1996 01 12.37734	06 01 51.45	+33 36 42.6	695	1996 TP ₆₆	1996 11 17.26354	01 05 59.43	+12 45 31.7	20.9 R	696
1993 BN ₃	1996 01 13.36845	06 00 49.75	+33 35 52.5	695	1996 TP ₆₆	1996 12 15.09951	01 04 23.68	+12 31 39.4		696
1993 BN ₃	1996 01 13.37372	06 00 49.56	+33 35 53.4	695	1996 TP ₆₆	1996 12 15.18711	01 04 23.54	+12 31 37.6		696
1993 BN ₃	1996 01 13.37862	06 00 49.39	+33 35 53.5	695	1996 TP ₆₆	1997 02 01.12366	01 05 53.93	+12 31 37.2		696
1993 BN ₃	1996 01 13.38355	06 00 48.96	+33 35 50.4	695	1996 TP ₆₆	1997 02 01.17218	01 05 54.16	+12 31 38.1		696
1996 AK ₂₀	* 1996 01 11.31365	06 03 17.01	+33 41 11.0	695	1996 TQ ₆₆	1996 11 17.22662	01 26 49.12	+13 25 40.4		I 696
1996 AK ₂₀	1996 01 11.32034	06 03 16.76	+33 41 08.5	695	1996 TQ ₆₆	1996 11 17.33679	01 26 48.59	+13 25 37.7		I 696
1996 AK ₂₀	1996 01 11.33200	06 03 14.83	+33 41 04.9	695	1996 TQ ₆₆	1996 11 18.21788	01 26 44.53	+13 25 14.6	21.6 R	696
1996 AK ₂₀	1996 01 11.33944	06 03 14.80	+33 41 03.6	695	1996 TQ ₆₆	1996 11 18.32149	01 26 44.02	+13 25 11.5		696
1996 AK ₂₀	1996 01 11.35553	06 03 14.68	+33 41 09.0	D 695	1996 TQ ₆₆	1997 07 11.42666	01 40 35.77	+14 55 51.6		F 696
1996 AK ₂₀	1996 01 11.36243	06 03 14.79	+33 41 03.6	18 R P 695	1996 TQ ₆₆	1997 07 12.41263	01 40 37.64	+14 56 14.3	21.2 R	696
1996 AK ₂₀	1996 01 12.36514	06 02 21.02	+33 38 03.4	695	1996 TQ ₆₆	1997 07 12.46436	01 40 37.77	+14 56 15.4	21.3 R	696
1996 AK ₂₀	1996 01 12.37214	06 02 20.76	+33 38 02.3	695	1996 TQ ₆₆	1997 07 13.41230	01 40 39.44	+14 56 36.0	21.5 R	696
1996 AK ₂₀	1996 01 12.37734	06 02 20.42	+33 38 01.9	695	1996 TS ₆₆	1996 11 17.14756	02 02 14.86	+19 58 03.6		696
1996 AK ₂₀	1996 01 12.38269	06 02 19.63	+33 38 01.7	695	1996 TS ₆₆	1996 11 17.24620	02 02 14.33	+19 58 00.2		696
696 F. L. Whipple Observatory, Mount Hopkins					1996 TS ₆₆	1996 11 18.28156	02 02 09.45	+19 57 30.3	21.1 R	696
B. G. Marsden, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. [bmarsden@cfa.harvard.edu]					1996 TS ₆₆	1996 11 18.35764	02 02 09.11	+19 57 28.2		696
Observers C. W. Hergenrother, W. R. Brown					1996 TS ₆₆	1996 11 18.40425	02 02 08.90	+19 57 26.6		696
Measurers C. W. Hergenrother, T. B. Spahr, W. R. Brown					1996 TS ₆₆	1996 12 15.23772	02 00 25.75	+19 45 00.9		696
1.2-m $f/8$ reflector + CCD					1996 TS ₆₆	1996 12 15.31381	02 00 25.49	+19 44 58.8		696
USNO-A1.0					1996 TS ₆₆	1997 02 01.20987	02 00 04.27	+19 33 40.0		696
1988 UT	1997 07 11.27666	16 43 40.86	-19 31 08.4	696	1996 TS ₆₆	1997 07 11.41135	02 14 20.62	+20 42 12.2		696
1988 UT	1997 07 11.27984	16 43 40.70	-19 31 08.6	18.4 R I 696	1996 TS ₆₆	1997 07 11.45336	02 14 20.70	+20 42 13.4		696
1988 UT	1997 07 12.28954	16 43 05.03	-19 31 22.5	696	1996 TS ₆₆	1997 07 12.43955	02 14 23.35	+20 42 36.1	21.8 R	696
1988 UT	1997 07 12.29274	16 43 04.92	-19 31 22.6	696	1996 XW ₁	1997 07 12.28164	15 17 45.37	-03 24 09.7		696
1988 UT	1997 07 12.29591	16 43 04.80	-19 31 22.5	18.7 R 696	1996 XW ₁	1997 07 12.28414	15 17 45.51	-03 24 08.1		696
1992 LR	1997 07 12.48712	00 35 09.77	+12 19 26.3	696	1997 CS ₂₉	1997 07 12.28666	15 17 45.70	-03 24 06.8		696
1992 LR	1997 07 12.48787	00 35 09.93	+12 19 27.5	696	1997 CS ₂₉	1997 03 03.13463	07 40 23.19	+21 50 41.5		696
1992 LR	1997 07 12.48865	00 35 10.08	+12 19 28.7	696	1997 CS ₂₉	1997 03 03.20233	07 40 22.98	+21 50 42.1		696
1994 TB	1997 07 11.39279	23 44 12.71	+06 57 48.1	F 696	1997 CS ₂₉	1997 03 03.26935	07 40 22.78	+21 50 42.5		696
1994 TB	1997 07 12.39326	23 44 11.06	+06 57 57.3	I 696	1997 CS ₂₉	1997 03 06.30047	07 40 13.97	+21 50 59.8		696
1996 SK	1997 07 11.27666	16 43 44.47	-19 27 22.5	696	1997 CS ₂₉	1997 03 06.32867	07 40 13.93	+21 51 00.4		696
1996 SK	1997 07 11.27984	16 43 44.37	-19 27 22.6	20.1 R 696	1997 CS ₂₉	1997 03 29.15926	07 39 34.02	+21 52 12.2	21.2 R	696
1996 SK	1997 07 12.28954	16 42 58.50	-19 26 58.8	696	1997 CS ₂₉	1997 03 29.27222	07 39 33.96	+21 52 11.8	20.7 R S	696
1996 SK	1997 07 12.29274	16 42 58.36	-19 26 58.7	696	1997 CS ₂₉	1997 03 30.17466	07 39 33.34	+21 52 13.1	21.1 R	696
1996 SK	1997 07 12.29591	16 42 58.24	-19 26 58.2	20.0 R 696	1997 CS ₂₉	1997 04 01.17838	07 39 32.38	+21 52 12.8		696
1996 TL ₆₆	1997 07 11.40019	02 11 33.78	+14 56 01.7	696	1997 CS ₂₉	1997 05 02.16405	07 40 07.27	+21 50 17.8	21.2 R	696
1996 TL ₆₆	1997 07 11.43752	02 11 33.93	+14 56 01.9	696	1997 CS ₂₉	1997 05 02.22146	07 40 07.45	+21 50 17.2	21.6 R	696
1996 TL ₆₆	1997 07 12.42513	02 11 37.05	+14 56 12.3	696	1997 CT ₂₉	1997 05 03.16907	07 40 09.99	+21 50 10.8	21.7 R	696
1996 TL ₆₆	1997 07 12.47661	02 11 37.21	+14 56 12.8	20.9 R 696	1997 CT ₂₉	1997 03 04.19008	09 02 54.35	+17 45 49.0		696
1996 TO ₆₆	1996 11 15.09487	23 48 26.60	+00 43 02.8	696	1997 CT ₂₉	1997 03 04.31560	09 02 53.90	+17 45 51.1		696
						1997 03 04.40192	09 02 53.64	+17 45 52.1		696

1997 CU ₂₉	1997 03 03.17494	07 34 10.91	+22 56 20.7	696	1978 VT ₈	1997 06 28.26047	18 44 32.77	-17 41 03.5	704
1997 CU ₂₉	1997 03 03.25022	07 34 10.67	+22 56 21.2	696	1978 VT ₈	1997 06 28.28397	18 44 31.67	-17 41 02.4	704
1997 CU ₂₉	1997 03 03.30720	07 34 10.52	+22 56 21.2	696	1978 VT ₈	1997 07 02.27658	18 41 08.07	-17 40 29.9	18.2 704
1997 CU ₂₉	1997 03 07.25625	07 33 59.77	+22 56 39.0	696	1978 VT ₈	1997 07 02.29996	18 41 06.81	-17 40 30.3	704
1997 CW ₂₉	1997 03 03.22184	08 00 49.54	+23 19 08.3	696	1978 VT ₈	1997 07 02.32324	18 41 05.58	-17 40 29.7	18.0 704
1997 CW ₂₉	1997 03 03.28507	08 00 49.26	+23 19 09.1	696	1978 VT ₈	1997 07 02.34656	18 41 04.35	-17 40 30.0	18.6 704
1997 CW ₂₉	1997 03 07.27905	08 00 36.08	+23 19 50.9	696	1978 VT ₈	1997 07 02.36984	18 41 03.18	-17 40 29.1	18.3 704
1997 CW ₂₉	1997 03 07.36241	08 00 35.80	+23 19 51.7	696	1981 EY ₁₀	1997 06 28.23651	18 45 50.76	-18 04 31.6	18.3 704
1997 GO ₂₇	1997 07 12.27448	14 32 17.47	+16 56 51.5	696	1981 EY ₁₀	1997 06 28.26021	18 45 49.30	-18 04 32.1	18.3 704
1997 GO ₂₇	1997 07 12.27713	14 32 17.73	+16 56 49.2	696	1981 EY ₁₀	1997 06 28.28371	18 45 47.82	-18 04 32.6	18.1 704
1997 GO ₂₇	1997 07 12.27947	14 32 17.93	+16 56 47.1	20.0 R 696	1981 EY ₁₀	1997 07 02.27645	18 41 44.89	-18 06 10.6	19.3 704
1997 MS	1997 07 12.15852	15 21 29.22	-32 44 43.5	696	1981 EY ₁₀	1997 07 02.29983	18 41 43.32	-18 06 12.3	704
1997 MS	1997 07 12.16046	15 21 29.14	-32 44 48.1	696	1981 EY ₁₀	1997 07 02.32311	18 41 41.88	-18 06 12.1	19.1 704
1997 MS	1997 07 12.16409	15 21 29.06	-32 44 54.4	20.1 R 696	1981 EY ₁₀	1997 07 02.34643	18 41 40.35	-18 06 12.3	19.1 704
1997 MW ₁	1997 07 11.28571	17 39 47.83	+00 44 23.7	696	1981 EY ₁₀	1997 07 02.36971	18 41 38.94	-18 06 13.4	704
1997 MW ₁	1997 07 11.28646	17 39 47.66	+00 44 24.0	696	1983 AC ₁	1997 06 26.22532	13 34 22.22	+27 05 39.2	18.3 704
1997 MW ₁	1997 07 11.28723	17 39 47.51	+00 44 24.7	17.5 R 696	1983 AC ₁	1997 06 26.23295	13 34 22.58	+27 05 31.2	18.7 704
1997 MD ₁₀	1997 07 11.34183	18 27 00.01	-21 48 14.8	696	1983 AC ₁	1997 06 26.23703	13 34 22.72	+27 05 25.6	18.6 704
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1997 MD ₁₀	1997 07 12.31503	18 24 48.05	-21 17 12.8	696	1983 AC ₁	1997 06 26.31208	13 34 26.03	+27 04 06.0	18.9 704
1997 MD ₁₀	1997 07 12.31613	18 24 47.88	-21 17 10.6	696	1983 AC ₁	1997 06 26.31690	13 34 26.35	+27 03 59.7	18.8 704
1997 MD ₁₀	1997 07 14.20597	18 20 33.19	-20 15 58.4	696	1983 AC ₁	1997 06 29.22049	13 36 42.81	+26 12 15.0	704
1997 MD ₁₀	1997 07 14.20816	18 20 32.90	-20 15 53.8	696	1983 AC ₁	1997 06 29.24405	13 36 43.92	+26 11 49.9	704
1997 MD ₁₀	1997 07 14.21036	18 20 32.59	-20 15 49.6	696	1983 AC ₁	1997 06 29.26761	13 36 45.04	+26 11 23.9	704
1997 NC ₁	1997 07 11.17781	13 16 19.84	-19 49 44.0	696	1983 AC ₁	1997 06 29.29120	13 36 46.15	+26 10 59.0	704
1997 NC ₁	1997 07 11.17914	13 16 19.92	-19 49 52.6	696	1983 AC ₁	1997 06 29.31476	13 36 47.26	+26 10 33.1	704
1997 NC ₁	1997 07 11.18061	13 16 20.00	-19 50 01.9	15.6 R 696	1983 RG ₂	1997 07 02.38255	01 04 14.91	-01 00 34.1	18.7 704
1997 NC ₁	1997 07 13.15493	13 18 45.00	-23 08 26.8	696	1983 RG ₂	1997 07 02.38668	01 04 15.36	-01 00 30.9	18.8 704
1997 NC ₁	1997 07 13.15616	13 18 45.06	-23 08 33.8	696	1983 RG ₂	1997 07 02.39077	01 04 15.79	-01 00 29.4	18.6 704
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1997 NJ ₆	1997 07 11.19858	16 22 09.28	-07 28 31.9	696	1983 RG ₂	1997 07 02.39915	01 04 16.65	-01 00 25.6	18.5 704
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1997 NJ ₆	1997 07 14.19852	16 20 15.68	-06 39 27.2	696	1987 YA	1997 06 28.27827	18 52 43.81	-19 25 26.4	18.8 704
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704 Lincoln Laboratory Experimental Test System, New Mexico					1987 YA	1997 07 02.31341	18 48 11.50	-19 27 21.4	18.4 704
H. Viggh, MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02173,					1987 YA	1997 07 02.33672	18 48 09.91	-19 27 21.9	18.5 704
U.S.A. [viggh@ll.mit.edu]					1987 YA	1997 07 02.36000	18 48 08.24	-19 27 21.5	18.8 704
Observers M. Blythe, F. Shelly, M. Bezpalko					1988 DJ ₂	1997 07 02.26262	18 55 49.10	-24 29 05.0	704
Measurers J. Stuart, H. Viggh, J. Sharma, G. Stokes					1988 DJ ₂	1997 07 02.28598	18 55 47.47	-24 29 06.6	704
1.0-m <i>f</i> /2.15 reflector + CCD					1988 DJ ₂	1997 07 02.30927	18 55 45.85	-24 29 08.6	704
GSC, USNO-SA1.0					1988 DJ ₂	1997 07 02.33258	18 55 44.30	-24 29 09.4	704
1978 SB ₃	1997 06 28.24955	18 32 54.14	-29 05 06.2	17.9 704	1988 DJ ₂	1997 07 02.35586	18 55 42.62	-24 29 11.7	704
1978 SB ₃	1997 06 28.27326	18 32 52.51	-29 05 06.3	17.7 704	1988 XV ₂	1997 06 28.23535	18 47 07.83	-23 45 38.4	18.7 704
1978 SB ₃	1997 06 28.29676	18 32 50.75	-29 05 06.9	704	1988 XV ₂	1997 06 28.25905	18 47 06.16	-23 45 38.0	704
1978 VT ₈	1997 06 28.23677	18 44 34.11	-17 41 02.5	704	1988 XV ₂	1997 06 28.28254	18 47 04.42	-23 45 37.8	18.9 704

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1989 AF ₃	1997 06 28.25057	18 54 00.84	-20 49 54.1		704	1990 FR ₁	1997 07 02.35896	18 51 21.46	-20 11 09.8		704
1989 AF ₃	1997 06 28.27428	18 53 59.24	-20 49 59.6	18.3	704	1990 QJ ₅	1997 06 28.22850	18 54 54.91	-27 35 15.1	18.0	704
1989 AF ₃	1997 07 02.26715	18 49 42.36	-21 04 57.3	18.5	704	1990 QJ ₅	1997 06 28.25199	18 54 53.37	-27 35 18.3	18.0	704
1989 AF ₃	1997 07 02.29051	18 49 40.79	-21 05 03.0	18.3	704	1990 QJ ₅	1997 06 28.27569	18 54 51.68	-27 35 21.5	18.4	704
1989 AF ₃	1997 07 02.31380	18 49 39.27	-21 05 08.2		704	1990 QJ ₅	1997 06 29.22270	18 53 49.36	-27 37 18.2		704
1989 AF ₃	1997 07 02.33711	18 49 37.72	-21 05 13.8		704	1990 QJ ₅	1997 06 29.24626	18 53 47.78	-27 37 20.8		704
1989 AC ₇	1997 06 28.23238	18 49 39.40	-21 11 11.4	18.2	704	1990 QJ ₅	1997 06 29.26982	18 53 46.11	-27 37 24.1		704
1989 AC ₇	1997 06 28.25607	18 49 38.22	-21 11 12.7	18.6	704	1990 QJ ₅	1997 06 29.29341	18 53 44.57	-27 37 26.4		704
1989 AC ₇	1997 06 28.27957	18 49 37.01	-21 11 15.5	18.6	704	1990 QJ ₅	1997 06 29.31697	18 53 42.91	-27 37 29.2		704
1989 AC ₇	1997 07 02.19447	18 46 20.31	-21 16 27.4	18.4	704	1990 QJ ₅	1997 07 02.28740	18 50 23.32	-27 43 08.8		704
1989 AC ₇	1997 07 02.19931	18 46 20.08	-21 16 28.0	18.9	704	1990 QJ ₅	1997 07 02.28753	18 50 23.39	-27 43 09.3		704
1989 AC ₇	1997 07 02.20415	18 46 19.81	-21 16 28.0	18.8	704	1990 QJ ₅	1997 07 02.29180	18 50 23.09	-27 43 09.7		704
1989 AC ₇	1997 07 02.20910	18 46 19.64	-21 16 29.9	18.9	704	1990 QJ ₅	1997 07 02.29193	18 50 23.12	-27 43 09.7		704
1989 AC ₇	1997 07 02.21394	18 46 19.32	-21 16 29.5	18.6	704	1990 QJ ₅	1997 07 02.31070	18 50 21.76	-27 43 10.1		704
1989 AC ₇	1997 07 02.27064	18 46 16.38	-21 16 33.6	19.2	704	1990 QJ ₅	1997 07 02.31083	18 50 21.84	-27 43 11.1		704
1989 AC ₇	1997 07 02.29400	18 46 15.23	-21 16 35.5	19.1	704	1990 QJ ₅	1997 07 02.31510	18 50 21.43	-27 43 12.6		704
1989 AC ₇	1997 07 02.31730	18 46 13.78	-21 16 37.9	19.3	704	1990 QJ ₅	1997 07 02.31522	18 50 21.40	-27 43 11.9		704
1989 AC ₇	1997 07 02.34060	18 46 12.64	-21 16 39.6	19.4	704	1990 QJ ₅	1997 07 02.33400	18 50 20.11	-27 43 12.7		704
1989 AC ₇	1997 07 02.36388	18 46 11.53	-21 16 41.0		704	1990 QJ ₅	1997 07 02.33413	18 50 20.16	-27 43 13.2		704
1989 BW ₁	1997 06 28.22746	18 53 46.59	-22 44 48.0	18.4	704	1990 QJ ₅	1997 07 02.33840	18 50 19.87	-27 43 15.5		704
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1989 BW ₁	1997 06 28.27466	18 53 43.44	-22 44 55.3	18.8	704	1990 QJ ₅	1997 07 02.35728	18 50 18.50	-27 43 14.3		704
1989 BW ₁	1997 07 02.26754	18 49 25.39	-22 54 43.6	18.8	704	1990 QJ ₅	1997 07 02.35741	18 50 18.54	-27 43 15.0		704
1989 BW ₁	1997 07 02.29090	18 49 23.77	-22 54 47.4	18.6	704	1990 QJ ₅	1997 07 02.36168	18 50 18.19	-27 43 15.4		704
1989 BW ₁	1997 07 02.31419	18 49 22.12	-22 54 50.4	19.0	704	1990 QJ ₅	1997 07 02.36181	18 50 18.24	-27 43 15.0		704
1989 BW ₁	1997 07 02.33749	18 49 20.72	-22 54 52.4	18.9	704	1990 WU ₅	1997 06 29.22102	18 54 42.45	-19 15 39.2	18.6	704
1989 BW ₁	1997 07 02.36078	18 49 19.11	-22 54 56.7	18.3	704	1990 WU ₅	1997 06 29.24457	18 54 41.04	-19 15 41.9	18.9	704
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1989 CJ ₈	1997 07 06.17278	13 43 39.69	+01 06 19.0		704	1990 WU ₅	1997 06 29.29173	18 54 38.31	-19 15 48.7		704
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1989 CJ ₈	1997 07 06.18714	13 43 40.65	+01 06 09.2		704	1990 WU ₅	1997 07 02.28922	18 51 47.87	-19 22 56.6		704
1989 CJ ₈	1997 07 06.19225	13 43 40.98	+01 06 05.5		704	1990 WU ₅	1997 07 02.31251	18 51 46.46	-19 23 00.6	18.9	704
1989 TB ₁₁	1997 06 28.23392	18 49 52.60	-28 29 32.6		704	1990 WU ₅	1997 07 02.33581	18 51 45.13	-19 23 03.1		704
1989 TB ₁₁	1997 06 28.25762	18 49 51.13	-28 29 33.8		704	1990 WU ₅	1997 07 02.35909	18 51 43.74	-19 23 07.2		704
1989 TB ₁₁	1997 06 28.28112	18 49 49.64	-28 29 34.9		704	1993 FZ ₇	1997 07 02.26340	18 54 01.53	-28 20 41.2	18.8	704
1989 TB ₁₁	1997 07 02.26909	18 45 45.82	-28 31 22.1	18.3	704	1993 FZ ₇	1997 07 02.28675	18 53 59.81	-28 20 45.3	18.5	704
1989 TB ₁₁	1997 07 02.29245	18 45 44.38	-28 31 22.0		704	1993 FZ ₇	1997 07 02.31005	18 53 58.11	-28 20 49.5		704
1989 TB ₁₁	1997 07 02.31574	18 45 42.91	-28 31 23.1		704	1993 FZ ₇	1997 07 02.33335	18 53 56.39	-28 20 53.6	19.2	704
1989 TB ₁₁	1997 07 02.33905	18 45 41.40	-28 31 22.7		704	1993 FL ₃₉	1997 06 28.24413	18 37 48.27	-28 16 10.9	18.0	704
1989 TB ₁₁	1997 07 02.36233	18 45 39.89	-28 31 23.3		704	1993 FL ₃₉	1997 06 28.26783	18 37 46.78	-28 16 13.5	17.7	704
1990 FR ₁	1997 06 28.22695	18 54 48.15	-19 48 33.7		704	1993 FL ₃₉	1997 06 28.29132	18 37 45.45	-28 16 17.3		704
1990 FR ₁	1997 06 28.25044	18 54 46.97	-19 48 42.0		704	1993 FL ₃₉	1997 07 02.27942	18 34 02.45	-28 24 26.6	18.8	704
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1990 FR ₁	1997 06 29.22115	18 53 58.90	-19 53 58.4		704	1993 FL ₃₉	1997 07 02.32609	18 33 59.64	-28 24 30.6		704
1990 FR ₁	1997 06 29.24470	18 53 57.66	-19 54 05.4		704	1993 FL ₃₉	1997 07 02.34939	18 33 58.35	-28 24 32.6		704
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1990 FR ₁	1997 07 02.28909	18 51 25.16	-20 10 46.8		704	1994 JD	1997 06 28.27698	18 52 22.27	-25 24 48.4		704
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1997 JULY 20

1994 JD	1997 06 29.24755	18 51 00.17	-25 40 57.1	704	1995 BJ ₁	1997 07 02.31419	18 49 19.79	-23 09 53.0	704
1994 JD	1997 06 29.27111	18 50 58.06	-25 41 20.3	704	1995 BJ ₁	1997 07 02.33749	18 49 18.63	-23 09 55.2	704
1994 JD	1997 06 29.29470	18 50 55.98	-25 41 44.2	704	1995 BJ ₁	1997 07 02.36078	18 49 17.50	-23 09 56.9	704
1994 JD	1997 06 29.31826	18 50 53.90	-25 42 06.4	704	1995 DD ₂	1997 07 02.38556	01 04 25.64	+04 28 26.3	18.4 704
1994 JD	1997 07 02.19339	18 46 46.75	-26 29 31.9	704	1995 DD ₂	1997 07 02.38966	01 04 25.93	+04 28 27.6	18.7 704
1994 JD	1997 07 02.19823	18 46 46.32	-26 29 36.8	704	1995 DD ₂	1997 07 02.39390	01 04 26.23	+04 28 25.4	18.7 704
1994 JD	1997 07 02.20307	18 46 45.90	-26 29 41.4	704	1995 DD ₂	1997 07 02.39803	01 04 26.38	+04 28 27.4	704
1994 JD	1997 07 02.20802	18 46 45.46	-26 29 46.0	704	1995 DD ₂	1997 07 02.40216	01 04 26.68	+04 28 28.5	18.5 704
1994 JD	1997 07 02.21286	18 46 44.97	-26 29 51.5	704	1995 YV ₂₂	1997 04 08.35772	14 56 55.68	-14 36 54.1	704
1994 JD	1997 07 02.26120	18 46 40.66	-26 30 39.4	704	1995 YV ₂₂	1997 04 08.41868	14 56 53.52	-14 36 41.4	704
1994 JD	1997 07 02.26131	18 46 40.67	-26 30 39.7	704	1996 CH ₁	1997 06 28.24128	18 41 30.24	-19 56 25.9	19.3 704
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1994 JD	1997 07 02.28447	18 46 38.60	-26 31 01.8	704	1996 CH ₁	1997 06 28.28849	18 41 27.12	-19 56 34.3	704
1994 JD	1997 07 02.28459	18 46 38.59	-26 31 01.8	704	1996 CH ₁	1997 07 02.30461	18 37 17.14	-20 08 06.8	704
1994 JD	1997 07 02.29284	18 46 37.81	-26 31 10.5	704	1996 CH ₁	1997 07 02.32790	18 37 15.62	-20 08 11.4	704
1994 JD	1997 07 02.30785	18 46 36.49	-26 31 25.0	704	1996 CH ₁	1997 07 02.35121	18 37 14.14	-20 08 15.8	704
1994 JD	1997 07 02.30797	18 46 36.48	-26 31 25.0	704	1996 CH ₁	1997 07 02.37450	18 37 12.63	-20 08 20.5	704
1994 JD	1997 07 02.31613	18 46 35.73	-26 31 33.3	704	1997 MS	* 1997 06 25.20820	15 42 55.01	-14 22 01.9	704
1994 JD	1997 07 02.33115	18 46 34.36	-26 31 47.4	704	1997 MS	1997 06 25.21450	15 42 53.78	-14 22 50.7	704
1994 JD	1997 07 02.33127	18 46 34.35	-26 31 47.8	704	1997 MS	1997 06 25.23626	15 42 49.72	-14 25 40.9	18.5 704
1994 JD	1997 07 02.33944	18 46 33.61	-26 31 55.7	704	1997 MS	1997 06 25.24125	15 42 48.75	-14 26 19.5	704
1994 JD	1997 07 02.35444	18 46 32.27	-26 32 10.3	704	1997 MS	1997 06 25.24617	15 42 47.85	-14 26 58.0	18.9 704
1994 JD	1997 07 02.35456	18 46 32.29	-26 32 10.3	704	1997 MS	1997 06 25.27953	15 42 41.67	-14 31 17.2	18.2 704
1994 JD	1997 07 02.36271	18 46 31.52	-26 32 18.6	704	1997 MS	1997 06 25.28343	15 42 40.87	-14 31 46.8	18.6 704
1994 JD	1997 07 03.35818	18 45 04.91	-26 48 29.4	17.1 704	1997 MS	1997 06 25.28639	15 42 40.32	-14 32 09.5	18.4 704
1994 JD	1997 07 03.36158	18 45 04.55	-26 48 33.1	17.5 704	1997 MS	1997 06 25.28964	15 42 39.79	-14 32 34.4	18.4 704
1994 JD	1997 07 03.36510	18 45 04.23	-26 48 37.1	17.4 704	1997 MS	1997 06 26.17599	15 40 11.87	-16 21 41.5	18.9 704
1994 JD	1997 07 03.36861	18 45 03.90	-26 48 39.3	17.4 704	1997 MS	1997 06 26.17812	15 40 11.49	-16 21 56.7	18.8 704
1994 JD	1997 07 03.37200	18 45 03.56	-26 48 43.8	16.7 704	1997 MS	1997 06 26.18016	15 40 11.16	-16 22 11.0	18.5 704
1994 PR ₂₀	1997 06 28.23121	18 52 57.31	-18 41 23.4	18.1 704	1997 MS	1997 06 26.18229	15 40 10.83	-16 22 25.9	18.6 704
1994 PR ₂₀	1997 06 28.25490	18 52 55.79	-18 41 26.4	18.4 704	1997 MS	1997 06 26.18433	15 40 10.43	-16 22 40.7	18.6 704
1994 PR ₂₀	1997 06 28.27840	18 52 54.27	-18 41 29.8	18.1 704	1997 MS	1997 06 26.27262	15 39 55.61	-16 32 58.4	18.4 704
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1994 PQ ₃₁	1997 07 02.29478	18 45 48.34	-17 18 14.5	704	1997 MS	1997 06 29.26780	15 33 11.87	-21 32 43.8	704
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1994 PQ ₃₁	1997 07 02.34138	18 45 45.29	-17 18 16.5	19.7 704	1997 MS	1997 06 29.31496	15 33 06.10	-21 36 43.2	704
1994 PQ ₃₁	1997 07 03.35963	18 44 40.43	-17 19 09.3	19.1 704	* 1997 MP ₂	1997 06 28.22682	18 55 52.62	-19 34 34.9	19.5 704
1994 PQ ₃₁	1997 07 03.36315	18 44 40.19	-17 19 10.3	19.2 704	1997 MP ₂	1997 06 28.25031	18 55 51.25	-19 34 33.6	704
1994 PQ ₃₁	1997 07 03.36655	18 44 39.96	-17 19 10.3	19.0 704	1997 MP ₂	1997 06 28.27402	18 55 49.89	-19 34 31.8	704
1994 PQ ₃₁	1997 07 03.37006	18 44 39.70	-17 19 10.5	19.3 704	1997 MP ₂	1997 06 29.24457	18 54 55.09	-19 33 13.5	704
1994 YF	1997 04 06.33157	15 06 42.27	-14 17 46.8	18.3 704	1997 MP ₂	1997 06 29.26814	18 54 53.73	-19 33 11.3	704
1994 YF	1997 04 06.42617	15 06 39.24	-14 17 32.4	704	1997 MP ₂	1997 06 29.29173	18 54 52.33	-19 33 08.5	704
1995 BJ ₁	1997 06 28.23031	18 52 36.76	-23 04 03.4	18.1 704	1997 MP ₂	1997 06 29.31529	18 54 50.98	-19 33 07.6	704
1995 BJ ₁	1997 06 28.25400	18 52 35.69	-23 04 06.2	704	1997 MP ₂	1997 07 02.26586	18 52 03.44	-19 29 15.1	18.5 704
1995 BJ ₁	1997 06 28.27750	18 52 34.46	-23 04 08.0	18.5 704	1997 MP ₂	1997 07 02.28922	18 52 02.06	-19 29 12.6	18.7 704
1995 BJ ₁	1997 07 02.26754	18 49 22.05	-23 09 49.4	704	1997 MP ₂	1997 07 02.33581	18 51 59.33	-19 29 09.4	18.3 704
1995 BJ ₁	1997 07 02.29090	18 49 20.98	-23 09 51.7	704	1997 MP ₂	1997 07 02.35909	18 51 57.94	-19 29 06.6	704

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1997 MQ ₂	* 1997 06 28.22695	18 53 22.55	-20 11 36.8	19.1	704	1997 MV ₂	1997 06 28.25121	18 54 15.20	-23 51 46.7	19.2	704
1997 MQ ₂	1997 06 28.25044	18 53 21.22	-20 11 38.8	19.0	704	1997 MV ₂	1997 06 28.27492	18 54 13.96	-23 51 53.3	19.4	704
1997 MQ ₂	1997 06 28.27415	18 53 19.80	-20 11 40.7	19.0	704	1997 MV ₂	1997 07 02.26482	18 50 33.19	-24 07 21.4	18.9	704
1997 MQ ₂	1997 07 02.26689	18 49 29.32	-20 17 09.3	19.4	704	1997 MV ₂	1997 07 02.26779	18 50 33.04	-24 07 21.7	18.8	704
1997 MQ ₂	1997 07 02.29026	18 49 27.99	-20 17 11.9		704	1997 MV ₂	1997 07 02.28818	18 50 31.85	-24 07 26.9	19.2	704
1997 MQ ₂	1997 07 02.31354	18 49 26.30	-20 17 14.1	19.4	704	1997 MV ₂	1997 07 02.29116	18 50 31.64	-24 07 27.9		704
1997 MQ ₂	1997 07 02.33685	18 49 24.97	-20 17 14.3	19.3	704	1997 MV ₂	1997 07 02.31148	18 50 30.48	-24 07 31.2	19.2	704
1997 MQ ₂	1997 07 02.36013	18 49 23.51	-20 17 17.2	19.0	704	1997 MV ₂	1997 07 02.31445	18 50 30.29	-24 07 34.3		704
1997 MR ₂	* 1997 06 28.22695	18 54 40.75	-20 19 32.1	18.3	704	1997 MV ₂	1997 07 02.33478	18 50 29.06	-24 07 37.6	18.7	704
1997 MR ₂	1997 06 28.25044	18 54 39.45	-20 19 47.1	18.6	704	1997 MV ₂	1997 07 02.33775	18 50 28.84	-24 07 38.7		704
1997 MR ₂	1997 06 28.27415	18 54 38.13	-20 20 02.8		704	1997 MV ₂	1997 07 02.36104	18 50 27.50	-24 07 43.7		704
1997 MR ₂	1997 06 29.22128	18 53 47.59	-20 30 03.4	18.7	704	1997 MW ₂	* 1997 06 28.22785	18 53 27.95	-24 05 08.1	18.4	704
1997 MR ₂	1997 06 29.24483	18 53 46.27	-20 30 18.3	18.7	704	1997 MW ₂	1997 06 28.25134	18 53 26.71	-24 05 10.6	18.9	704
1997 MR ₂	1997 06 29.26840	18 53 44.91	-20 30 33.3		704	1997 MW ₂	1997 06 28.27505	18 53 25.32	-24 05 14.7	18.7	704
1997 MR ₂	1997 06 29.29198	18 53 43.59	-20 30 47.0	18.7	704	1997 MW ₂	1997 06 29.22425	18 52 35.17	-24 07 20.9	19.0	704
1997 MR ₂	1997 06 29.31555	18 53 42.26	-20 31 02.9	18.4	704	1997 MW ₂	1997 06 29.24781	18 52 33.90	-24 07 24.6	18.9	704
1997 MR ₂	1997 07 02.26547	18 51 01.80	-21 02 28.7	18.9	704	1997 MW ₂	1997 06 29.27137	18 52 32.63	-24 07 27.9	19.0	704
1997 MR ₂	1997 07 02.28883	18 51 00.44	-21 02 45.2	18.6	704	1997 MW ₂	1997 06 29.29496	18 52 31.34	-24 07 32.5		704
1997 MR ₂	1997 07 02.31212	18 50 59.19	-21 02 59.8	19.1	704	1997 MW ₂	1997 06 29.31853	18 52 30.08	-24 07 33.8	19.1	704
1997 MR ₂	1997 07 02.33542	18 50 57.74	-21 03 14.1	18.5	704	1997 MW ₂	1997 07 02.26779	18 49 51.96	-24 13 59.8		704
1997 MR ₂	1997 07 02.35871	18 50 56.42	-21 03 28.5	18.9	704	1997 MW ₂	1997 07 02.29116	18 49 50.56	-24 14 02.5		704
1997 MS ₂	* 1997 06 28.22733	18 54 18.83	-21 43 48.4		704	1997 MW ₂	1997 07 02.31445	18 49 49.34	-24 14 05.8		704
1997 MS ₂	1997 06 28.25083	18 54 17.40	-21 43 59.5		704	1997 MW ₂	1997 07 02.33775	18 49 48.00	-24 14 08.3		704
1997 MS ₂	1997 06 28.27453	18 54 15.93	-21 44 09.2		704	1997 MW ₂	1997 07 02.36104	18 49 46.72	-24 14 11.4		704
1997 MS ₂	1997 06 29.22154	18 53 19.97	-21 50 56.6	18.0	704	1997 MX ₂	* 1997 06 28.22837	18 55 36.05	-26 54 44.8		704
1997 MS ₂	1997 06 29.24509	18 53 18.51	-21 51 07.1	18.4	704	1997 MX ₂	1997 06 28.25186	18 55 34.46	-26 54 38.0		704
1997 MS ₂	1997 06 29.26866	18 53 16.95	-21 51 16.5		704	1997 MX ₂	1997 06 28.27556	18 55 32.87	-26 54 31.1		704
1997 MS ₂	1997 06 29.29224	18 53 15.58	-21 51 26.8	18.3	704	1997 MX ₂	1997 06 29.22257	18 54 31.02	-26 49 35.5		704
1997 MS ₂	1997 06 29.31581	18 53 14.10	-21 51 33.6	18.1	704	1997 MX ₂	1997 06 29.24613	18 54 29.43	-26 49 28.4		704
1997 MT ₂	* 1997 06 28.22759	18 55 07.73	-23 21 04.1	18.4	704	1997 MX ₂	1997 06 29.26969	18 54 27.84	-26 49 20.9		704
1997 MT ₂	1997 06 28.25109	18 55 06.38	-23 21 01.5		704	1997 MX ₂	1997 06 29.29328	18 54 26.21	-26 49 13.7		704
1997 MT ₂	1997 06 28.27479	18 55 04.84	-23 20 58.5	18.7	704	1997 MX ₂	1997 06 29.31684	18 54 24.60	-26 49 06.3		704
1997 MT ₂	1997 06 29.22179	18 54 09.50	-23 18 38.0	18.4	704	1997 MX ₂	1997 07 02.26430	18 51 09.36	-26 33 13.8	18.3	704
1997 MT ₂	1997 06 29.24535	18 54 08.09	-23 18 34.7		704	1997 MX ₂	1997 07 02.28766	18 51 07.65	-26 33 05.3		704
1997 MT ₂	1997 06 29.26892	18 54 06.61	-23 18 31.7		704	1997 MX ₂	1997 07 02.31096	18 51 06.03	-26 32 58.2		704
1997 MT ₂	1997 06 29.29250	18 54 05.15	-23 18 27.4		704	1997 MX ₂	1997 07 02.33426	18 51 04.44	-26 32 49.5		704
1997 MT ₂	1997 07 02.26508	18 51 09.73	-23 11 03.2	17.9	704	1997 MX ₂	1997 07 02.35754	18 51 02.79	-26 32 41.9		704
1997 MT ₂	1997 07 02.31173	18 51 06.78	-23 10 56.1		704	1997 MY ₂	* 1997 06 28.22850	18 53 31.49	-27 39 41.6	19.3	704
1997 MT ₂	1997 07 02.33503	18 51 05.36	-23 10 52.5		704	1997 MY ₂	1997 06 28.25199	18 53 30.13	-27 39 43.6	19.2	704
1997 MT ₂	1997 07 02.35832	18 51 03.93	-23 10 48.4	18.1	704	1997 MY ₂	1997 06 28.27569	18 53 28.82	-27 39 45.6	18.9	704
1997 MU ₂	* 1997 06 28.22772	18 53 23.48	-23 36 13.5	18.8	704	1997 MY ₂	1997 06 29.22360	18 52 38.65	-27 40 48.3	19.2	704
1997 MU ₂	1997 06 28.25121	18 53 22.28	-23 36 23.4		704	1997 MY ₂	1997 06 29.24716	18 52 37.42	-27 40 48.5		704
1997 MU ₂	1997 06 28.27492	18 53 20.83	-23 36 35.5		704	1997 MY ₂	1997 06 29.27072	18 52 35.99	-27 40 50.6	19.3	704
1997 MU ₂	1997 06 29.22438	18 52 30.34	-23 44 22.8	19.2	704	1997 MY ₂	1997 06 29.29432	18 52 34.86	-27 40 53.7	19.6	704
1997 MU ₂	1997 06 29.24794	18 52 29.10	-23 44 33.5	19.5	704	1997 MZ ₂	* 1997 06 28.22850	18 55 08.15	-27 32 01.9		704
1997 MU ₂	1997 06 29.27150	18 52 27.78	-23 44 46.3	19.5	704	1997 MZ ₂	1997 06 28.25199	18 55 06.81	-27 32 04.6		704
1997 MU ₂	1997 06 29.31865	18 52 25.11	-23 45 09.3	19.4	704	1997 MZ ₂	1997 06 28.27569	18 55 05.32	-27 32 05.8		704
1997 MU ₂	1997 07 02.26779	18 49 45.64	-24 09 14.4	19.4	704	1997 MZ ₂	1997 06 29.22270	18 54 09.97	-27 32 57.9		704
1997 MU ₂	1997 07 02.29116	18 49 44.47	-24 09 25.4	19.7	704	1997 MZ ₂	1997 06 29.24626	18 54 08.45	-27 32 59.1		704
1997 MU ₂	1997 07 02.31445	18 49 43.14	-24 09 36.5	19.9	704	1997 MZ ₂	1997 06 29.26982	18 54 06.97	-27 33 00.7		704
1997 MU ₂	1997 07 02.33775	18 49 41.80	-24 09 47.6		704	1997 MZ ₂	1997 06 29.29341	18 54 05.77	-27 33 02.7		704
1997 MV ₂	* 1997 06 28.22772	18 54 16.53	-23 51 41.5	19.1	704	1997 MZ ₂	1997 06 29.31697	18 54 04.16	-27 33 02.6		704

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1997 MZ ₂	1997 07 02.26417	18 51 09.53	-27 35 19.1	704	1997 ME ₃	1997 07 02.26974	18 46 35.05	-25 42 27.5	18.3	704
1997 MZ ₂	1997 07 02.28753	18 51 08.06	-27 35 19.9	704	1997 ME ₃	1997 07 02.29310	18 46 33.42	-25 42 29.6		704
1997 MZ ₂	1997 07 02.31083	18 51 06.60	-27 35 21.0	704	1997 ME ₃	1997 07 02.31639	18 46 31.79	-25 42 33.0		704
1997 MZ ₂	1997 07 02.33413	18 51 05.18	-27 35 21.6	704	1997 ME ₃	1997 07 02.33969	18 46 30.12	-25 42 35.1		704
1997 MZ ₂	1997 07 02.35741	18 51 03.71	-27 35 23.0	704	1997 ME ₃	1997 07 02.36297	18 46 28.51	-25 42 37.2		704
1997 MA ₃	* 1997 06 28.22863	18 54 51.55	-27 55 46.6	704	1997 ME ₃	1997 07 03.35673	18 45 21.75	-25 44 24.0	17.8	704
1997 MA ₃	1997 06 28.25212	18 54 49.98	-27 55 53.6	704	1997 ME ₃	1997 07 03.35866	18 45 21.57	-25 44 23.2	17.9	704
1997 MA ₃	1997 06 28.27582	18 54 48.35	-27 56 01.3	704	1997 ME ₃	1997 07 03.36012	18 45 21.54	-25 44 23.6		704
1997 MA ₃	1997 06 29.22283	18 53 47.29	-28 00 42.9	704	1997 ME ₃	1997 07 03.36206	18 45 21.36	-25 44 23.5		704
1997 MA ₃	1997 06 29.24639	18 53 45.58	-28 00 49.7	704	1997 ME ₃	1997 07 03.36364	18 45 21.17	-25 44 24.4		704
1997 MA ₃	1997 06 29.26995	18 53 43.96	-28 00 56.5	704	1997 ME ₃	1997 07 03.36557	18 45 21.08	-25 44 24.0		704
1997 MA ₃	1997 06 29.29354	18 53 42.36	-28 01 03.4	704	1997 ME ₃	1997 07 03.36704	18 45 20.75	-25 44 25.0		704
1997 MA ₃	1997 06 29.31710	18 53 40.76	-28 01 10.4	704	1997 ME ₃	1997 07 03.36909	18 45 20.81	-25 44 23.9		704
1997 MA ₃	1997 07 02.26405	18 50 25.86	-28 15 21.2	704	1997 ME ₃	1997 07 03.37055	18 45 20.54	-25 44 24.1		704
1997 MA ₃	1997 07 02.28740	18 50 24.20	-28 15 27.8	704	1997 MF ₃	* 1997 06 28.22992	18 50 56.49	-25 12 30.5	18.3	704
1997 MA ₃	1997 07 02.31070	18 50 22.57	-28 15 34.3	704	1997 MF ₃	1997 06 28.25361	18 50 55.09	-25 12 20.0		704
1997 MA ₃	1997 07 02.33400	18 50 20.99	-28 15 39.4	704	1997 MF ₃	1997 06 28.27711	18 50 53.58	-25 12 09.9		704
1997 MA ₃	1997 07 02.35728	18 50 19.29	-28 15 46.6	704	1997 MF ₃	1997 07 02.26987	18 46 48.14	-24 42 31.1		704
1997 MB ₃	* 1997 06 28.22901	18 50 18.20	-29 04 58.0	18.6	1997 MF ₃	1997 07 02.29323	18 46 46.61	-24 42 20.2		704
1997 MB ₃	1997 06 28.23405	18 50 18.01	-29 04 58.2	18.4	1997 MF ₃	1997 07 02.31652	18 46 45.09	-24 42 09.8		704
1997 MB ₃	1997 06 28.25251	18 50 16.77	-29 04 54.5	19.1	1997 MF ₃	1997 07 02.33982	18 46 43.58	-24 41 59.3		704
1997 MB ₃	1997 06 28.25775	18 50 16.51	-29 04 55.8	704	1997 MF ₃	1997 07 02.36310	18 46 42.13	-24 41 48.7		704
1997 MB ₃	1997 06 28.27621	18 50 15.22	-29 04 52.2	18.8	1997 MG ₃	* 1997 06 28.23018	18 52 42.08	-23 52 54.1		704
1997 MB ₃	1997 06 28.28125	18 50 15.04	-29 04 52.7	18.4	1997 MG ₃	1997 06 28.25387	18 52 40.72	-23 52 58.8		704
1997 MB ₃	1997 07 02.26909	18 46 10.42	-28 56 50.2	18.8	1997 MG ₃	1997 06 28.27737	18 52 39.51	-23 53 01.6		704
1997 MB ₃	1997 07 02.29232	18 46 08.94	-28 56 46.6	704	1997 MG ₃	1997 06 29.22438	18 51 47.56	-23 55 32.0		704
1997 MB ₃	1997 07 02.29245	18 46 08.94	-28 56 45.8	18.4	1997 MG ₃	1997 06 29.24794	18 51 46.23	-23 55 35.8		704
1997 MB ₃	1997 07 02.31561	18 46 07.34	-28 56 44.4	704	1997 MG ₃	1997 06 29.27150	18 51 44.87	-23 55 40.3		704
1997 MB ₃	1997 07 02.31574	18 46 07.36	-28 56 43.5	18.7	1997 MG ₃	1997 06 29.29509	18 51 43.56	-23 55 43.6		704
1997 MB ₃	1997 07 02.33892	18 46 05.95	-28 56 40.1	704	1997 MG ₃	1997 06 29.31865	18 51 42.25	-23 55 46.8		704
1997 MB ₃	1997 07 02.33905	18 46 05.98	-28 56 40.9	18.5	1997 MH ₃	* 1997 06 28.23031	18 51 09.10	-22 49 59.8	18.8	704
1997 MB ₃	1997 07 02.36220	18 46 04.35	-28 56 37.2	704	1997 MH ₃	1997 06 28.25400	18 51 07.57	-22 50 09.5		704
1997 MB ₃	1997 07 02.36233	18 46 04.39	-28 56 36.5	19.2	1997 MH ₃	1997 06 28.27750	18 51 05.96	-22 50 17.0	19.3	704
1997 MC ₃	* 1997 06 28.22914	18 52 13.84	-28 55 42.0	704	1997 MH ₃	1997 07 02.27025	18 46 58.12	-23 16 08.8	18.7	704
1997 MC ₃	1997 06 28.25264	18 52 12.37	-28 55 42.8	704	1997 MH ₃	1997 07 02.29362	18 46 56.54	-23 16 17.4	19.0	704
1997 MC ₃	1997 06 28.27634	18 52 10.85	-28 55 43.2	704	1997 MH ₃	1997 07 02.31691	18 46 55.00	-23 16 26.6	18.8	704
1997 MC ₃	1997 06 29.22335	18 51 12.10	-28 56 01.0	704	1997 MH ₃	1997 07 02.34021	18 46 53.50	-23 16 35.1	19.0	704
1997 MC ₃	1997 06 29.24690	18 51 10.59	-28 56 01.4	704	1997 MH ₃	1997 07 02.36349	18 46 51.98	-23 16 44.3	18.7	704
1997 MC ₃	1997 06 29.27047	18 51 09.09	-28 56 03.2	704	1997 MJ ₃	* 1997 06 28.23044	18 52 32.79	-22 40 45.9	18.8	704
1997 MC ₃	1997 06 29.29406	18 51 07.67	-28 56 02.0	704	1997 MJ ₃	1997 06 28.25413	18 52 31.42	-22 40 51.5		704
1997 MC ₃	1997 06 29.31762	18 51 06.06	-28 56 03.2	704	1997 MJ ₃	1997 06 28.27763	18 52 30.06	-22 40 54.8	19.0	704
1997 MD ₃	* 1997 06 28.22940	18 51 28.90	-27 37 44.5	704	1997 MJ ₃	1997 07 02.26754	18 48 42.69	-22 52 37.4	18.6	704
1997 MD ₃	1997 06 28.25290	18 51 27.43	-27 37 37.2	704	1997 MJ ₃	1997 07 02.31419	18 48 39.94	-22 52 45.8	18.4	704
1997 MD ₃	1997 06 28.27660	18 51 25.94	-27 37 29.1	704	1997 MJ ₃	1997 07 02.33749	18 48 38.55	-22 52 50.1	18.5	704
1997 MD ₃	1997 06 29.22360	18 50 29.91	-27 31 55.2	704	1997 MJ ₃	1997 07 02.36078	18 48 37.19	-22 52 53.6	18.3	704
1997 MD ₃	1997 06 29.24716	18 50 28.52	-27 31 47.0	704	1997 MK ₃	* 1997 06 28.23069	18 51 05.33	-20 59 12.4	19.3	704
1997 MD ₃	1997 06 29.27072	18 50 26.98	-27 31 39.0	704	1997 MK ₃	1997 06 28.23082	18 51 05.31	-20 59 12.9	19.4	704
1997 MD ₃	1997 06 29.29432	18 50 25.50	-27 31 29.7	704	1997 MK ₃	1997 06 28.25438	18 51 03.72	-20 59 14.3		704
1997 MD ₃	1997 06 29.31787	18 50 23.97	-27 31 21.6	704	1997 MK ₃	1997 06 28.25451	18 51 03.70	-20 59 14.8	19.1	704
1997 ME ₃	* 1997 06 28.22979	18 51 02.24	-25 34 35.3	704	1997 MK ₃	1997 06 28.27789	18 51 02.22	-20 59 14.0	19.3	704
1997 ME ₃	1997 06 28.25328	18 51 00.59	-25 34 38.4	704	1997 MK ₃	1997 06 28.27802	18 51 02.23	-20 59 16.8		704
1997 ME ₃	1997 06 28.27698	18 50 59.00	-25 34 41.5	704	1997 MK ₃	1997 07 02.27064	18 46 49.86	-21 02 25.6	18.4	704

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1997 MK ₃	1997 07 02.29400	18 46 48.31	-21 02 26.8	18.9	704	1997 MQ ₃	* 1997 06 28.23160	18 48 25.73	-17 20 29.8	18.1	704
1997 MK ₃	1997 07 02.31730	18 46 46.82	-21 02 27.9	18.9	704	1997 MQ ₃	1997 06 28.25530	18 48 24.29	-17 20 36.4	18.3	704
1997 MK ₃	1997 07 02.34060	18 46 45.27	-21 02 29.0	18.6	704	1997 MQ ₃	1997 06 28.27879	18 48 22.81	-17 20 42.0	18.2	704
1997 MK ₃	1997 07 02.36388	18 46 43.75	-21 02 30.0		704	1997 MQ ₃	1997 07 02.27155	18 44 26.65	-17 39 09.9	19.4	704
1997 ML ₃	* 1997 06 28.23082	18 51 35.82	-20 43 23.3	18.3	704	1997 MQ ₃	1997 07 02.29491	18 44 25.31	-17 39 18.6	19.2	704
1997 ML ₃	1997 06 28.25451	18 51 34.54	-20 43 26.0		704	1997 MQ ₃	1997 07 02.31820	18 44 23.85	-17 39 24.4	18.9	704
1997 ML ₃	1997 06 28.27802	18 51 33.35	-20 43 28.4	18.3	704	1997 MQ ₃	1997 07 02.34151	18 44 22.32	-17 39 30.8	19.2	704
1997 ML ₃	1997 07 02.26702	18 48 14.03	-20 51 03.8	18.0	704	1997 MQ ₃	1997 07 02.36479	18 44 20.91	-17 39 37.2		704
1997 ML ₃	1997 07 02.29038	18 48 12.81	-20 51 06.0	17.8	704	1997 MQ ₃	1997 07 03.35963	18 43 21.24	-17 44 23.8	18.9	704
1997 ML ₃	1997 07 02.31367	18 48 11.61	-20 51 08.8	18.0	704	1997 MQ ₃	1997 07 03.36315	18 43 20.99	-17 44 24.8	19.1	704
1997 ML ₃	1997 07 02.33698	18 48 10.40	-20 51 11.0		704	1997 MQ ₃	1997 07 03.36655	18 43 20.71	-17 44 26.2	19.3	704
1997 ML ₃	1997 07 02.36026	18 48 09.20	-20 51 13.7		704	1997 MQ ₃	1997 07 03.37006	18 43 20.52	-17 44 27.1	18.9	704
1997 MM ₃	* 1997 06 28.23095	18 51 19.77	-20 15 58.7		704	1997 MQ ₃	1997 07 03.37357	18 43 20.25	-17 44 28.1		704
1997 MM ₃	1997 06 28.25465	18 51 17.76	-20 16 27.4		704	1997 MR ₃	* 1997 06 28.23160	18 49 25.99	-17 28 56.2	18.5	704
1997 MM ₃	1997 06 28.27814	18 51 15.78	-20 16 55.7		704	1997 MR ₃	1997 06 28.25530	18 49 24.73	-17 28 53.7		704
1997 MM ₃	1997 07 02.19447	18 45 47.22	-21 35 39.9	18.9	704	1997 MR ₃	1997 06 28.27879	18 49 23.39	-17 28 51.1		704
1997 MM ₃	1997 07 02.19931	18 45 46.82	-21 35 44.6	18.5	704	1997 MR ₃	1997 07 02.27142	18 45 58.17	-17 21 12.8	18.8	704
1997 MM ₃	1997 07 02.20415	18 45 46.35	-21 35 51.3	18.9	704	1997 MR ₃	1997 07 02.29478	18 45 56.92	-17 21 10.1	19.0	704
1997 MM ₃	1997 07 02.20910	18 45 45.91	-21 35 59.7	19.2	704	1997 MR ₃	1997 07 02.31808	18 45 55.66	-17 21 07.1		704
1997 MM ₃	1997 07 02.21394	18 45 45.53	-21 36 04.3		704	1997 MR ₃	1997 07 02.34138	18 45 54.44	-17 21 04.6	19.1	704
1997 MM ₃	1997 07 02.27051	18 45 40.49	-21 37 12.2	18.1	704	1997 MR ₃	1997 07 02.36466	18 45 53.18	-17 21 02.2	19.0	704
1997 MM ₃	1997 07 02.29387	18 45 38.39	-21 37 41.9		704	1997 MS ₃	* 1997 06 28.23160	18 50 30.07	-17 27 00.5	19.2	704
1997 MM ₃	1997 07 02.31717	18 45 36.29	-21 38 08.4		704	1997 MS ₃	1997 06 28.25530	18 50 28.72	-17 27 02.5	19.5	704
1997 MM ₃	1997 07 02.34047	18 45 34.26	-21 38 36.9	18.0	704	1997 MS ₃	1997 06 28.27879	18 50 27.36	-17 27 07.9	19.2	704
1997 MM ₃	1997 07 02.36375	18 45 32.02	-21 39 04.1		704	1997 MS ₃	1997 07 02.27142	18 46 54.15	-17 37 57.3	18.9	704
1997 MM ₃	1997 07 03.35914	18 44 06.53	-21 59 15.8	17.4	704	1997 MS ₃	1997 07 02.29478	18 46 52.87	-17 37 59.9	19.2	704
1997 MM ₃	1997 07 03.36266	18 44 06.20	-21 59 20.0	17.9	704	1997 MS ₃	1997 07 02.34138	18 46 50.20	-17 38 08.4		704
1997 MM ₃	1997 07 03.36606	18 44 05.93	-21 59 23.9	17.6	704	1997 MS ₃	1997 07 02.36466	18 46 48.92	-17 38 12.7	19.3	704
1997 MM ₃	1997 07 03.36957	18 44 05.64	-21 59 28.0		704	1997 MT ₃	* 1997 06 28.23212	18 49 06.60	-19 57 29.8	18.8	704
1997 MN ₃	* 1997 06 28.23121	18 51 38.50	-18 45 45.1	18.4	704	1997 MT ₃	1997 06 28.25581	18 49 05.18	-19 57 32.9	18.7	704
1997 MN ₃	1997 06 28.25490	18 51 36.47	-18 45 22.6	18.9	704	1997 MT ₃	1997 06 28.27931	18 49 03.71	-19 57 37.0	19.2	704
1997 MN ₃	1997 06 28.27840	18 51 34.42	-18 45 03.9		704	1997 MT ₃	1997 07 02.27207	18 45 11.28	-20 08 34.5	19.1	704
1997 MN ₃	1997 07 02.27142	18 46 01.90	-17 46 58.7	19.0	704	1997 MT ₃	1997 07 02.29542	18 45 09.86	-20 08 38.8	19.6	704
1997 MN ₃	1997 07 02.29478	18 45 59.80	-17 46 39.2	19.2	704	1997 MT ₃	1997 07 02.31872	18 45 08.38	-20 08 43.1		704
1997 MN ₃	1997 07 02.31808	18 45 57.78	-17 46 18.1	19.1	704	1997 MT ₃	1997 07 02.34203	18 45 07.00	-20 08 47.1	18.9	704
1997 MN ₃	1997 07 02.34138	18 45 55.63	-17 45 58.2	18.6	704	1997 MT ₃	1997 07 02.36531	18 45 05.58	-20 08 50.2	19.1	704
1997 MO ₃	* 1997 06 28.23134	18 51 09.11	-18 29 26.4	19.0	704	1997 MU ₃	* 1997 06 28.23238	18 48 37.59	-21 20 59.4	18.8	704
1997 MO ₃	1997 06 28.25504	18 51 07.77	-18 29 26.1		704	1997 MU ₃	1997 06 28.25607	18 48 36.39	-21 21 00.9	19.1	704
1997 MO ₃	1997 06 28.27853	18 51 06.34	-18 29 24.9	18.9	704	1997 MU ₃	1997 06 28.27957	18 48 35.15	-21 21 03.2	18.7	704
1997 MO ₃	1997 07 02.27129	18 47 15.09	-18 27 23.0	19.0	704	1997 MU ₃	1997 07 02.27232	18 45 12.10	-21 27 35.5	19.0	704
1997 MO ₃	1997 07 02.29465	18 47 13.67	-18 27 21.8	19.1	704	1997 MU ₃	1997 07 02.29568	18 45 10.85	-21 27 37.8	19.5	704
1997 MO ₃	1997 07 02.31795	18 47 12.23	-18 27 21.7	19.1	704	1997 MU ₃	1997 07 02.31897	18 45 09.67	-21 27 41.1		704
1997 MO ₃	1997 07 02.34125	18 47 10.72	-18 27 21.4		704	1997 MU ₃	1997 07 02.34229	18 45 08.31	-21 27 43.8	19.4	704
1997 MO ₃	1997 07 02.36453	18 47 09.36	-18 27 18.9	19.0	704	1997 MU ₃	1997 07 02.36557	18 45 07.14	-21 27 45.0	18.9	704
1997 MP ₃	* 1997 06 28.23134	18 51 46.47	-18 14 52.5	18.2	704	1997 MV ₃	* 1997 06 28.23238	18 49 11.43	-21 09 12.4	18.6	704
1997 MP ₃	1997 06 28.25504	18 51 45.05	-18 15 00.2	18.1	704	1997 MV ₃	1997 06 28.25607	18 49 09.99	-21 09 18.1	19.0	704
1997 MP ₃	1997 06 28.27853	18 51 43.65	-18 15 07.7	18.1	704	1997 MV ₃	1997 06 28.27957	18 49 08.67	-21 09 24.6	18.2	704
1997 MP ₃	1997 07 02.27116	18 47 56.56	-18 37 10.8		704	1997 MV ₃	1997 07 02.27232	18 45 19.02	-21 26 27.1		704
1997 MP ₃	1997 07 02.29452	18 47 55.11	-18 37 17.3		704	1997 MV ₃	1997 07 02.29568	18 45 17.66	-21 26 34.1		704
1997 MP ₃	1997 07 02.31782	18 47 53.67	-18 37 26.0		704	1997 MV ₃	1997 07 02.31897	18 45 16.16	-21 26 39.3		704
1997 MP ₃	1997 07 02.34112	18 47 52.25	-18 37 34.9		704	1997 MV ₃	1997 07 02.34229	18 45 14.73	-21 26 45.7		704
1997 MP ₃	1997 07 02.36440	18 47 50.80	-18 37 43.9		704	1997 MV ₃	1997 07 02.36557	18 45 13.35	-21 26 51.4		704

1997 MW ₃	* 1997 06 28.23251	18 49 48.20	-21 41 52.1	18.6	704	1997 MC ₄	1997 07 02.36284	18 45 50.61	-25 57 58.6		704
1997 MW ₃	1997 06 28.25620	18 49 46.96	-21 41 53.4		704	1997 MD ₄	* 1997 06 28.23354	18 49 56.64	-26 41 24.5	18.1	704
1997 MW ₃	1997 06 28.27970	18 49 45.71	-21 41 54.7	18.3	704	1997 MD ₄	1997 06 28.25723	18 49 55.11	-26 41 30.5		704
1997 MW ₃	1997 07 02.27051	18 46 14.95	-21 45 13.0	18.4	704	1997 MD ₄	1997 06 28.28073	18 49 53.89	-26 41 34.8		704
1997 MW ₃	1997 07 02.29387	18 46 13.67	-21 45 14.4		704	1997 MD ₄	1997 07 02.26948	18 46 02.67	-26 56 46.8	18.2	704
1997 MW ₃	1997 07 02.31717	18 46 12.35	-21 45 15.4	18.8	704	1997 MD ₄	1997 07 02.29284	18 46 01.21	-26 56 51.2	18.5	704
1997 MW ₃	1997 07 02.36375	18 46 09.83	-21 45 17.8	18.8	704	1997 MD ₄	1997 07 02.31613	18 45 59.81	-26 56 57.0		704
1997 MX ₃	* 1997 06 28.23289	18 48 18.00	-23 41 01.1	18.4	704	1997 MD ₄	1997 07 02.33944	18 45 58.29	-26 57 01.7	18.7	704
1997 MX ₃	1997 06 28.25659	18 48 16.71	-23 41 07.0	18.8	704	1997 ME ₄	* 1997 06 28.23354	18 49 57.71	-27 07 01.8	18.8	704
1997 MX ₃	1997 06 28.28008	18 48 15.20	-23 41 13.1		704	1997 ME ₄	1997 06 28.25723	18 49 56.40	-27 07 11.3		704
1997 MX ₃	1997 07 02.27284	18 44 42.33	-23 59 05.9	18.4	704	1997 ME ₄	1997 06 28.28073	18 49 54.95	-27 07 21.3		704
1997 MX ₃	1997 07 02.29620	18 44 40.97	-23 59 12.4	18.8	704	1997 ME ₄	1997 07 02.26935	18 46 21.05	-27 31 30.4	19.4	704
1997 MX ₃	1997 07 02.31949	18 44 39.76	-23 59 19.1	18.6	704	1997 ME ₄	1997 07 02.29271	18 46 19.78	-27 31 38.9	19.6	704
1997 MX ₃	1997 07 02.36608	18 44 37.18	-23 59 30.9	18.2	704	1997 ME ₄	1997 07 02.31600	18 46 18.47	-27 31 48.0	19.6	704
1997 MY ₃	* 1997 06 28.23289	18 49 15.52	-23 35 50.1	19.4	704	1997 ME ₄	1997 07 02.33931	18 46 17.10	-27 31 54.5		704
1997 MY ₃	1997 06 28.25659	18 49 14.33	-23 35 48.5		704	1997 MF ₄	* 1997 06 28.23405	18 47 40.44	-29 21 00.6	18.2	704
1997 MY ₃	1997 06 28.28008	18 49 12.82	-23 35 46.6	19.8	704	1997 MF ₄	1997 06 28.25775	18 47 38.90	-29 21 04.2	17.9	704
1997 MY ₃	1997 07 02.27012	18 45 41.33	-23 31 37.1	18.4	704	1997 MF ₄	1997 06 28.28125	18 47 37.39	-29 21 07.2		704
1997 MY ₃	1997 07 02.29349	18 45 40.16	-23 31 36.1		704	1997 MF ₄	1997 07 02.27400	18 43 27.66	-29 29 21.7	17.7	704
1997 MY ₃	1997 07 02.31678	18 45 38.71	-23 31 32.8		704	1997 MF ₄	1997 07 02.29737	18 43 26.12	-29 29 24.0	18.0	704
1997 MY ₃	1997 07 02.34008	18 45 37.49	-23 31 31.9	18.5	704	1997 MF ₄	1997 07 02.32066	18 43 24.58	-29 29 26.4		704
1997 MY ₃	1997 07 02.36336	18 45 36.17	-23 31 31.1		704	1997 MF ₄	1997 07 02.34396	18 43 22.96	-29 29 28.7		704
1997 MZ ₃	* 1997 06 28.23289	18 50 07.23	-23 42 59.3	19.8	704	1997 MF ₄	1997 07 02.36725	18 43 21.40	-29 29 31.4		704
1997 MZ ₃	1997 06 28.25659	18 50 05.76	-23 43 01.7	19.9	704	1997 MG ₄	* 1997 06 28.23470	18 47 15.50	-26 49 35.1	17.9	704
1997 MZ ₃	1997 06 28.28008	18 50 04.16	-23 43 02.5	19.5	704	1997 MG ₄	1997 06 28.25840	18 47 13.84	-26 49 41.9		704
1997 MZ ₃	1997 07 02.27012	18 45 49.49	-23 45 42.3	19.6	704	1997 MG ₄	1997 06 28.28189	18 47 12.20	-26 49 47.2	18.2	704
1997 MZ ₃	1997 07 02.29349	18 45 47.88	-23 45 43.4	19.4	704	1997 MG ₄	1997 07 02.27348	18 42 35.21	-27 05 29.7	18.1	704
1997 MZ ₃	1997 07 02.31678	18 45 46.35	-23 45 44.2	19.2	704	1997 MG ₄	1997 07 02.29685	18 42 33.46	-27 05 34.9	18.5	704
1997 MZ ₃	1997 07 02.34008	18 45 44.77	-23 45 46.1	19.9	704	1997 MG ₄	1997 07 02.32014	18 42 31.79	-27 05 40.7	18.3	704
1997 MZ ₃	1997 07 02.36336	18 45 43.25	-23 45 45.7		704	1997 MG ₄	1997 07 02.34344	18 42 30.10	-27 05 44.7	18.0	704
1997 MA ₄	* 1997 06 28.23315	18 48 24.49	-24 57 32.7	19.2	704	1997 MG ₄	1997 07 02.36673	18 42 28.40	-27 05 50.0	18.2	704
1997 MA ₄	1997 06 28.25685	18 48 23.15	-24 57 34.8	19.1	704	1997 MH ₄	* 1997 06 28.23573	18 47 01.75	-22 02 37.6	19.5	704
1997 MA ₄	1997 06 28.28034	18 48 21.85	-24 57 36.2		704	1997 MH ₄	1997 06 28.25943	18 47 00.32	-22 02 41.5	19.4	704
1997 MA ₄	1997 07 02.27310	18 44 40.95	-25 01 03.3	18.5	704	1997 MH ₄	1997 06 28.28293	18 46 58.88	-22 02 44.4	19.2	704
1997 MA ₄	1997 07 02.29646	18 44 39.64	-25 01 04.1	18.8	704	1997 MH ₄	1997 07 02.27245	18 43 04.04	-22 11 51.1	19.9	704
1997 MA ₄	1997 07 02.31975	18 44 38.29	-25 01 06.1	18.8	704	1997 MH ₄	1997 07 02.27258	18 43 04.04	-22 11 50.2	19.4	704
1997 MA ₄	1997 07 02.34306	18 44 36.94	-25 01 06.9	18.1	704	1997 MH ₄	1997 07 02.29581	18 43 02.64	-22 11 53.3	19.8	704
1997 MA ₄	1997 07 02.36634	18 44 35.65	-25 01 07.4	19.0	704	1997 MH ₄	1997 07 02.29594	18 43 02.56	-22 11 54.3	19.5	704
1997 MB ₄	* 1997 06 28.23315	18 50 17.16	-24 47 50.9	18.6	704	1997 MH ₄	1997 07 02.31910	18 43 01.19	-22 11 57.6	19.5	704
1997 MB ₄	1997 06 28.25685	18 50 15.77	-24 47 55.2		704	1997 MH ₄	1997 07 02.31923	18 43 01.18	-22 11 58.6		704
1997 MB ₄	1997 06 28.28034	18 50 14.32	-24 48 00.0	18.6	704	1997 MH ₄	1997 07 02.34241	18 42 59.80	-22 12 00.3	19.7	704
1997 MB ₄	1997 07 02.29323	18 46 22.25	-25 02 40.7		704	1997 MH ₄	1997 07 02.34254	18 42 59.74	-22 12 00.1	19.7	704
1997 MB ₄	1997 07 02.31652	18 46 20.73	-25 02 46.6		704	1997 MH ₄	1997 07 02.36570	18 42 58.25	-22 12 04.4		704
1997 MB ₄	1997 07 02.33982	18 46 19.40	-25 02 49.7		704	1997 MH ₄	1997 07 02.36583	18 42 58.16	-22 12 03.6		704
1997 MB ₄	1997 07 02.36310	18 46 18.04	-25 02 55.1		704	1997 MJ ₄	* 1997 06 28.23599	18 46 09.05	-20 23 48.1	18.0	704
1997 MC ₄	* 1997 06 28.23341	18 50 20.13	-26 08 33.0		704	1997 MJ ₄	1997 06 28.25969	18 46 07.75	-20 23 51.7		704
1997 MC ₄	1997 06 28.25710	18 50 18.54	-26 08 30.3		704	1997 MJ ₄	1997 06 28.28319	18 46 06.23	-20 23 56.4	18.4	704
1997 MC ₄	1997 06 28.28060	18 50 16.99	-26 08 26.9		704	1997 MJ ₄	1997 07 02.27594	18 42 12.90	-20 37 01.7	18.4	704
1997 MC ₄	1997 07 02.26961	18 45 57.22	-25 58 13.3		704	1997 MJ ₄	1997 07 02.29931	18 42 11.46	-20 37 06.0	18.4	704
1997 MC ₄	1997 07 02.29297	18 45 55.60	-25 58 09.5		704	1997 MJ ₄	1997 07 02.34591	18 42 08.55	-20 37 15.4	18.4	704
1997 MC ₄	1997 07 02.31626	18 45 53.97	-25 58 06.2		704	1997 MJ ₄	1997 07 02.36920	18 42 07.10	-20 37 20.0	18.3	704
1997 MC ₄	1997 07 02.33956	18 45 52.36	-25 58 01.6		704	1997 MK ₄	* 1997 06 28.23728	18 43 38.58	-19 55 10.5	18.5	704

1997 MK ₄	1997 06 28.26099	18 43 36.94	-19 55 16.2	18.1	704	1997 MQ ₄	1997 06 28.26370	18 40 24.29	-26 18 00.7	704
1997 MK ₄	1997 06 28.28448	18 43 35.14	-19 55 22.7		704	1997 MQ ₄	1997 06 28.28719	18 40 22.75	-26 18 09.7	704
1997 MK ₄	1997 07 02.27722	18 39 15.26	-20 11 41.0	18.6	704	1997 MQ ₄	1997 07 02.27981	18 36 06.46	-26 43 40.5	17.9 704
1997 MK ₄	1997 07 02.30061	18 39 13.56	-20 11 46.0	18.4	704	1997 MQ ₄	1997 07 02.30319	18 36 04.83	-26 43 48.3	704
1997 MK ₄	1997 07 02.32389	18 39 11.98	-20 11 51.7	18.3	704	1997 MQ ₄	1997 07 02.32648	18 36 03.38	-26 43 57.7	17.7 704
1997 MK ₄	1997 07 02.34720	18 39 10.42	-20 11 57.6		704	1997 MQ ₄	1997 07 02.34978	18 36 01.82	-26 44 07.1	17.9 704
1997 MK ₄	1997 07 02.37049	18 39 08.83	-20 12 02.8	18.3	704	1997 MQ ₄	1997 07 02.37307	18 36 00.24	-26 44 15.8	18.4 704
1997 ML ₄	* 1997 06 28.23780	18 43 09.05	-22 30 41.3	18.0	704	1997 MR ₄	* 1997 06 28.24012	18 39 53.24	-25 43 28.3	18.7 704
1997 ML ₄	1997 06 28.26150	18 43 07.52	-22 30 35.7		704	1997 MR ₄	1997 06 28.26383	18 39 51.81	-25 43 26.0	18.6 704
1997 ML ₄	1997 06 28.28500	18 43 05.96	-22 30 30.3		704	1997 MR ₄	1997 06 28.28732	18 39 50.41	-25 43 23.1	18.8 704
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1997 ML ₄	1997 07 02.30112	18 38 47.82	-22 14 03.0		704	1997 MR ₄	1997 07 02.30345	18 35 57.66	-25 36 10.2	19.1 704
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1997 ML ₄	1997 07 02.34772	18 38 44.66	-22 13 50.7		704	1997 MR ₄	1997 07 02.35004	18 35 54.88	-25 36 05.4	19.4 704
1997 MM ₄	* 1997 06 28.23780	18 43 16.75	-22 18 09.4	18.2	704	1997 MS ₄	* 1997 06 28.24012	18 41 07.46	-25 22 57.5	17.7 704
1997 MM ₄	1997 06 28.26150	18 43 15.32	-22 18 15.7		704	1997 MS ₄	1997 06 28.26383	18 41 06.19	-25 23 03.9	18.1 704
1997 MM ₄	1997 06 28.28500	18 43 13.80	-22 18 25.4		704	1997 MS ₄	1997 06 28.28732	18 41 04.85	-25 23 09.1	704
1997 MM ₄	1997 07 02.27774	18 39 24.69	-22 39 11.7	18.6	704	1997 MS ₄	1997 07 02.27838	18 37 30.30	-25 39 15.1	704
1997 MM ₄	1997 07 02.30112	18 39 23.21	-22 39 20.5	18.7	704	1997 MS ₄	1997 07 02.30177	18 37 28.96	-25 39 21.0	704
1997 MM ₄	1997 07 02.32441	18 39 21.82	-22 39 27.0		704	1997 MS ₄	1997 07 02.32506	18 37 27.66	-25 39 26.5	704
1997 MM ₄	1997 07 02.34772	18 39 20.38	-22 39 33.8		704	1997 MS ₄	1997 07 02.34836	18 37 26.35	-25 39 31.5	704
1997 MM ₄	1997 07 02.37100	18 39 18.96	-22 39 41.4		704	1997 MS ₄	1997 07 02.37165	18 37 25.06	-25 39 37.0	704
1997 MN ₄	* 1997 06 28.23780	18 43 58.32	-22 25 14.7		704	1997 MT ₄	* 1997 06 28.24077	18 42 19.10	-22 22 56.1	18.7 704
1997 MN ₄	1997 06 28.26150	18 43 56.74	-22 25 10.4		704	1997 MT ₄	1997 06 28.26447	18 42 17.77	-22 23 07.4	18.9 704
1997 MN ₄	1997 06 28.28500	18 43 55.34	-22 25 05.3		704	1997 MT ₄	1997 06 28.28797	18 42 16.52	-22 23 16.5	18.3 704
1997 MN ₄	1997 07 02.27761	18 39 58.80	-22 12 37.2		704	1997 MT ₄	1997 07 02.27787	18 38 40.24	-22 51 07.4	18.3 704
1997 MN ₄	1997 07 02.27774	18 39 58.78	-22 12 36.9		704	1997 MT ₄	1997 07 02.30125	18 38 38.86	-22 51 16.2	18.5 704
1997 MN ₄	1997 07 02.30099	18 39 57.33	-22 12 33.2		704	1997 MT ₄	1997 07 02.32454	18 38 37.55	-22 51 27.2	18.6 704
1997 MN ₄	1997 07 02.30112	18 39 57.31	-22 12 33.1		704	1997 MT ₄	1997 07 02.37113	18 38 34.98	-22 51 44.8	18.6 704
1997 MN ₄	1997 07 02.32428	18 39 55.77	-22 12 27.6		704	1997 MU ₄	* 1997 06 28.24090	18 41 14.54	-21 47 16.9	18.3 704
1997 MN ₄	1997 07 02.32441	18 39 55.75	-22 12 28.0		704	1997 MU ₄	1997 06 28.26460	18 41 13.13	-21 47 30.1	18.3 704
1997 MN ₄	1997 07 02.34759	18 39 54.38	-22 12 23.8		704	1997 MU ₄	1997 06 28.28810	18 41 11.74	-21 47 43.1	18.1 704
1997 MN ₄	1997 07 02.34772	18 39 54.36	-22 12 23.6		704	1997 MU ₄	1997 07 02.27774	18 37 27.09	-22 24 41.8	18.0 704
1997 MN ₄	1997 07 02.37087	18 39 52.89	-22 12 20.0		704	1997 MU ₄	1997 07 02.30112	18 37 25.62	-22 24 54.9	18.2 704
1997 MN ₄	1997 07 02.37100	18 39 52.85	-22 12 20.0		704	1997 MU ₄	1997 07 02.32441	18 37 24.14	-22 25 08.0	18.5 704
1997 MO ₄	* 1997 06 28.23870	18 44 01.58	-26 33 00.6	18.6	704	1997 MU ₄	1997 07 02.34772	18 37 22.65	-22 25 21.3	704
1997 MO ₄	1997 06 28.26241	18 44 00.08	-26 33 12.6	18.9	704	1997 MU ₄	1997 07 02.37100	18 37 21.16	-22 25 33.8	18.2 704
1997 MO ₄	1997 06 28.28590	18 43 58.57	-26 33 25.0	18.7	704	1997 MV ₄	* 1997 06 28.24141	18 42 20.14	-19 35 54.4	18.2 704
1997 MO ₄	1997 07 02.27452	18 40 02.72	-27 08 09.8	18.5	704	1997 MV ₄	1997 06 28.26512	18 42 18.88	-19 35 59.5	18.3 704
1997 MO ₄	1997 07 02.29789	18 40 01.21	-27 08 21.1		704	1997 MV ₄	1997 06 28.28862	18 42 17.63	-19 36 05.0	18.3 704
1997 MO ₄	1997 07 02.32117	18 39 59.81	-27 08 33.4	18.6	704	1997 MV ₄	1997 07 02.27722	18 38 53.32	-19 50 58.9	18.2 704
1997 MO ₄	1997 07 02.34448	18 39 58.30	-27 08 44.5	18.9	704	1997 MV ₄	1997 07 02.30061	18 38 52.04	-19 51 04.7	18.3 704
1997 MO ₄	1997 07 02.36777	18 39 56.85	-27 08 56.5	18.9	704	1997 MV ₄	1997 07 02.32389	18 38 50.82	-19 51 09.2	18.1 704
1997 MP ₄	* 1997 06 28.23922	18 43 56.13	-29 08 28.3	18.0	704	1997 MV ₄	1997 07 02.34720	18 38 49.55	-19 51 14.3	18.4 704
1997 MP ₄	1997 06 28.26292	18 43 54.77	-29 08 25.2	18.3	704	1997 MV ₄	1997 07 02.37049	18 38 48.35	-19 51 19.8	18.3 704
1997 MP ₄	1997 06 28.28642	18 43 53.50	-29 08 22.8	17.8	704	1997 MW ₄	* 1997 06 28.24154	18 42 14.75	-18 58 42.7	19.0 704
1997 MP ₄	1997 07 02.27413	18 40 14.76	-28 59 37.8	18.0	704	1997 MW ₄	1997 06 28.26525	18 42 13.20	-18 58 56.6	18.8 704
1997 MP ₄	1997 07 02.29750	18 40 13.46	-28 59 35.7		704	1997 MW ₄	1997 06 28.28875	18 42 11.71	-18 59 11.5	18.8 704
1997 MP ₄	1997 07 02.32079	18 40 12.26	-28 59 31.0		704	1997 MW ₄	1997 07 02.27710	18 37 56.78	-19 39 35.8	18.6 704
1997 MP ₄	1997 07 02.34409	18 40 10.78	-28 59 27.5	18.3	704	1997 MW ₄	1997 07 02.30048	18 37 55.25	-19 39 49.7	18.7 704
1997 MP ₄	1997 07 02.36738	18 40 09.48	-28 59 24.6		704	1997 MW ₄	1997 07 02.32376	18 37 53.72	-19 40 04.2	18.4 704
1997 MQ ₄	* 1997 06 28.23999	18 40 25.95	-26 17 52.7	18.8	704	1997 MW ₄	1997 07 02.34707	18 37 52.16	-19 40 17.4	704

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1997 MX ₄	*	1997 06 28.24180	18 41 58.03	−17 52 53.1	18.8	704	1997 MD ₅	1997 07 02.33672	18 49 58.72	−19 40 32.8		704
1997 MX ₄		1997 06 28.26551	18 41 56.47	−17 52 45.3	18.5	704	1997 MD ₅	1997 07 02.36000	18 49 57.14	−19 40 38.3		704
1997 MX ₄		1997 06 28.28900	18 41 54.94	−17 52 38.2	18.7	704	1997 ME ₅	* 1997 06 29.22141	18 53 34.21	−21 31 04.0	18.3	704
1997 MX ₄		1997 07 02.28175	18 37 49.28	−17 32 06.0	18.8	704	1997 ME ₅	1997 06 29.24496	18 53 32.75	−21 31 07.8		704
1997 MX ₄		1997 07 02.30513	18 37 47.83	−17 31 59.9	19.0	704	1997 ME ₅	1997 06 29.26853	18 53 31.19	−21 31 11.6		704
1997 MX ₄		1997 07 02.32842	18 37 46.29	−17 31 52.5	18.6	704	1997 ME ₅	1997 06 29.29211	18 53 29.68	−21 31 15.6		704
1997 MX ₄		1997 07 02.35172	18 37 44.72	−17 31 44.6		704	1997 ME ₅	1997 07 02.26728	18 50 23.95	−21 39 00.1	18.1	704
1997 MY ₄	*	1997 06 28.24219	18 39 37.28	−18 42 22.1	18.5	704	1997 ME ₅	1997 07 02.29064	18 50 22.45	−21 39 02.9	18.6	704
1997 MY ₄		1997 06 28.26590	18 39 35.91	−18 42 25.0	18.8	704	1997 ME ₅	1997 07 02.31393	18 50 20.97	−21 39 07.0	18.6	704
1997 MY ₄		1997 06 28.28939	18 39 34.39	−18 42 27.9	18.5	704	1997 ME ₅	1997 07 02.33724	18 50 19.41	−21 39 10.6	18.2	704
1997 MY ₄		1997 07 02.28149	18 35 41.77	−18 50 51.1	18.5	704	1997 ME ₅	1997 07 02.36052	18 50 17.92	−21 39 14.3		704
1997 MY ₄		1997 07 02.30487	18 35 40.33	−18 50 54.3	18.9	704	1997 MF ₅	* 1997 06 29.22141	18 53 41.02	−21 30 58.5	18.9	704
1997 MY ₄		1997 07 02.32816	18 35 38.95	−18 50 57.1	18.6	704	1997 MF ₅	1997 06 29.24496	18 53 39.56	−21 30 54.2		704
1997 MY ₄		1997 07 02.35146	18 35 37.53	−18 51 00.2	18.4	704	1997 MF ₅	1997 06 29.26853	18 53 38.04	−21 30 50.3		704
1997 MY ₄		1997 07 02.37476	18 35 36.05	−18 51 02.3		704	1997 MF ₅	1997 06 29.29211	18 53 36.61	−21 30 43.8		704
1997 MZ ₄	*	1997 06 28.24296	18 39 41.20	−22 17 20.5	17.8	704	1997 MF ₅	1997 06 29.31568	18 53 35.01	−21 30 38.9	19.3	704
1997 MZ ₄		1997 06 28.26667	18 39 39.70	−22 17 29.5	17.6	704	1997 MF ₅	1997 07 02.26715	18 50 32.42	−21 20 37.0	18.8	704
1997 MZ ₄		1997 06 28.29016	18 39 38.26	−22 17 38.1		704	1997 MF ₅	1997 07 02.29051	18 50 30.95	−21 20 32.2	18.9	704
1997 MZ ₄		1997 07 02.28072	18 35 43.36	−22 42 54.9	17.5	704	1997 MF ₅	1997 07 02.31380	18 50 29.44	−21 20 27.7	19.0	704
1997 MZ ₄		1997 07 02.32739	18 35 40.44	−22 43 11.8	17.8	704	1997 MF ₅	1997 07 02.33711	18 50 27.86	−21 20 23.1		704
1997 MZ ₄		1997 07 02.35069	18 35 39.04	−22 43 20.5		704	1997 MF ₅	1997 07 02.36039	18 50 26.33	−21 20 17.8		704
1997 MZ ₄		1997 07 02.37398	18 35 37.39	−22 43 28.3		704	1997 MG ₅	* 1997 06 29.22154	18 55 14.05	−22 09 18.4	18.5	704
1997 MA ₅	*	1997 06 28.24309	18 38 29.23	−22 55 13.3	18.8	704	1997 MG ₅	1997 06 29.24509	18 55 12.91	−22 09 21.0		704
1997 MA ₅		1997 06 28.26680	18 38 27.77	−22 55 08.8	18.9	704	1997 MG ₅	1997 06 29.26866	18 55 11.62	−22 09 24.4		704
1997 MA ₅		1997 06 28.29029	18 38 26.12	−22 55 05.7	18.7	704	1997 MG ₅	1997 06 29.29224	18 55 10.63	−22 09 27.1		704
1997 MA ₅		1997 07 02.28291	18 34 17.44	−22 42 56.1	18.9	704	1997 MG ₅	1997 06 29.31581	18 55 09.32	−22 09 31.3		704
1997 MA ₅		1997 07 02.30629	18 34 15.94	−22 42 52.4	19.3	704	1997 MG ₅	1997 07 02.26521	18 52 42.65	−22 15 27.5		704
1997 MA ₅		1997 07 02.32959	18 34 14.42	−22 42 48.0		704	1997 MG ₅	1997 07 02.28857	18 52 41.43	−22 15 30.0		704
1997 MA ₅		1997 07 02.35288	18 34 12.76	−22 42 42.8	19.1	704	1997 MG ₅	1997 07 02.31186	18 52 40.24	−22 15 33.4		704
1997 MB ₅	*	1997 06 28.24322	18 37 38.64	−23 45 56.4	17.9	704	1997 MG ₅	1997 07 02.33517	18 52 39.03	−22 15 36.3		704
1997 MB ₅		1997 06 28.26693	18 37 37.40	−23 45 57.1	17.6	704	1997 MG ₅	1997 07 02.35845	18 52 37.69	−22 15 38.8		704
1997 MB ₅		1997 06 28.29042	18 37 36.11	−23 45 57.6	17.7	704	1997 MH ₅	* 1997 06 29.22192	18 53 28.44	−23 45 25.6	19.0	704
1997 MB ₅		1997 07 02.28317	18 34 05.91	−23 48 32.0		704	1997 MH ₅	1997 06 29.24548	18 53 27.16	−23 45 27.5	19.2	704
1997 MB ₅		1997 07 02.32985	18 34 03.37	−23 48 33.7		704	1997 MH ₅	1997 06 29.26905	18 53 25.95	−23 45 30.2		704
1997 MB ₅		1997 07 02.35314	18 34 02.00	−23 48 36.1		704	1997 MH ₅	1997 06 29.29263	18 53 24.66	−23 45 30.4		704
1997 MB ₅		1997 07 02.37644	18 34 00.78	−23 48 34.9		704	1997 MH ₅	1997 07 02.26495	18 50 50.66	−23 48 53.9	18.7	704
1997 MC ₅	*	1997 06 29.22089	18 53 18.50	−18 50 35.7	19.0	704	1997 MH ₅	1997 07 02.28831	18 50 49.36	−23 48 55.1	18.9	704
1997 MC ₅		1997 06 29.24444	18 53 17.07	−18 50 33.1	19.3	704	1997 MH ₅	1997 07 02.31160	18 50 48.09	−23 48 58.2	19.1	704
1997 MC ₅		1997 06 29.26801	18 53 15.48	−18 50 32.7	19.1	704	1997 MH ₅	1997 07 02.33491	18 50 46.87	−23 48 57.4		704
1997 MC ₅		1997 06 29.29160	18 53 14.05	−18 50 29.2	19.1	704	1997 MH ₅	1997 07 02.35819	18 50 45.46	−23 48 59.8		704
1997 MC ₅		1997 07 02.29000	18 50 16.65	−18 46 39.6		704	1997 MJ ₅	* 1997 06 29.22205	18 55 15.53	−24 21 09.7	19.1	704
1997 MC ₅		1997 07 02.31329	18 50 15.16	−18 46 37.9		704	1997 MJ ₅	1997 06 29.24561	18 55 14.02	−24 21 02.9		704
1997 MC ₅		1997 07 02.33659	18 50 13.66	−18 46 36.1		704	1997 MJ ₅	1997 06 29.26917	18 55 12.57	−24 20 56.3	19.0	704
1997 MC ₅		1997 07 02.35987	18 50 12.18	−18 46 35.1		704	1997 MJ ₅	1997 06 29.29276	18 55 11.05	−24 20 49.4	19.0	704
1997 MD ₅	*	1997 06 29.22102	18 53 20.19	−19 27 33.5	18.5	704	1997 MJ ₅	1997 06 29.31632	18 55 09.58	−24 20 42.3	18.9	704
1997 MD ₅		1997 06 29.24457	18 53 18.68	−19 27 39.3		704	1997 MJ ₅	1997 07 02.26482	18 52 06.25	−24 06 20.1	18.4	704
1997 MD ₅		1997 06 29.26814	18 53 17.09	−19 27 45.2	18.8	704	1997 MJ ₅	1997 07 02.28818	18 52 04.74	−24 06 13.2	18.4	704
1997 MD ₅		1997 06 29.29173	18 53 15.45	−19 27 51.1	18.7	704	1997 MJ ₅	1997 07 02.31148	18 52 03.23	−24 06 05.8	18.7	704
1997 MD ₅		1997 06 29.31529	18 53 13.85	−19 27 56.6	18.8	704	1997 MJ ₅	1997 07 02.33478	18 52 01.74	−24 05 58.9	18.5	704
1997 MD ₅		1997 07 02.26676	18 50 03.53	−19 40 15.2	18.3	704	1997 MJ ₅	1997 07 02.35806	18 52 00.13	−24 05 52.7	18.6	704
1997 MD ₅		1997 07 02.29013	18 50 01.92	−19 40 21.0	18.5	704	1997 MK ₅	* 1997 06 29.22218	18 55 42.43	−24 51 54.7	18.6	704
1997 MD ₅		1997 07 02.31341	18 50 00.20	−19 40 27.5		704	1997 MK ₅	1997 06 29.24574	18 55 40.99	−24 51 57.7		704

1997 MK ₅	1997 06 29.26930	18 55 39.55	-24 52 00.2	19.0	704	1997 MP ₅	1997 07 02.31070	18 52 03.20	-28 10 06.2	704
1997 MK ₅	1997 06 29.29289	18 55 38.06	-24 52 02.3	19.1	704	1997 MP ₅	1997 07 02.33400	18 52 01.62	-28 10 05.1	704
1997 MK ₅	1997 07 02.26469	18 52 43.57	-24 56 24.2	18.5	704	1997 MP ₅	1997 07 02.35728	18 52 00.05	-28 10 03.8	704
1997 MK ₅	1997 07 02.28805	18 52 42.10	-24 56 26.2	18.6	704	1997 MQ ₅	* 1997 06 29.22335	18 52 32.40	-28 44 43.6	19.0 704
1997 MK ₅	1997 07 02.31135	18 52 40.65	-24 56 28.7	18.5	704	1997 MQ ₅	1997 06 29.24690	18 52 30.92	-28 44 53.2	704
1997 MK ₅	1997 07 02.33465	18 52 39.17	-24 56 29.9		704	1997 MQ ₅	1997 06 29.27047	18 52 29.58	-28 45 02.7	704
1997 MK ₅	1997 07 02.35793	18 52 37.70	-24 56 32.5		704	1997 MQ ₅	1997 06 29.29406	18 52 28.22	-28 45 11.6	19.1 704
1997 ML ₅	* 1997 06 29.22231	18 55 02.37	-25 51 55.8	18.9	704	1997 MQ ₅	1997 06 29.31762	18 52 26.68	-28 45 19.2	704
1997 ML ₅	1997 06 29.24587	18 55 00.80	-25 52 02.5	19.1	704	1997 MQ ₅	1997 07 02.26883	18 49 38.36	-29 03 06.6	18.3 704
1997 ML ₅	1997 06 29.26943	18 54 59.29	-25 52 09.1	19.2	704	1997 MQ ₅	1997 07 02.29219	18 49 36.88	-29 03 14.8	704
1997 ML ₅	1997 06 29.29302	18 54 57.65	-25 52 16.4	18.7	704	1997 MQ ₅	1997 07 02.31548	18 49 35.57	-29 03 23.3	18.4 704
1997 ML ₅	1997 06 29.31658	18 54 56.06	-25 52 22.2		704	1997 MQ ₅	1997 07 02.33879	18 49 34.14	-29 03 31.1	18.3 704
1997 ML ₅	1997 07 02.26443	18 51 44.33	-26 06 10.4	18.6	704	1997 MQ ₅	1997 07 02.36207	18 49 32.77	-29 03 39.5	704
1997 ML ₅	1997 07 02.28779	18 51 42.73	-26 06 16.4	18.5	704	1997 MR ₅	* 1997 06 29.22438	18 51 43.06	-23 55 16.6	18.9 704
1997 ML ₅	1997 07 02.31109	18 51 41.07	-26 06 23.0	18.5	704	1997 MR ₅	1997 06 29.24794	18 51 41.45	-23 55 13.6	704
1997 ML ₅	1997 07 02.33439	18 51 39.45	-26 06 29.4	18.5	704	1997 MR ₅	1997 06 29.27150	18 51 39.93	-23 55 10.4	704
1997 ML ₅	1997 07 02.35767	18 51 37.78	-26 06 35.5	18.6	704	1997 MR ₅	1997 06 29.31865	18 51 36.79	-23 55 04.9	19.0 704
1997 MM ₅	* 1997 06 29.22257	18 53 30.65	-26 31 25.0	19.2	704	1997 MR ₅	1997 07 02.26766	18 48 27.57	-23 48 56.1	18.6 704
1997 MM ₅	1997 06 29.26969	18 53 28.12	-26 31 37.4		704	1997 MR ₅	1997 07 02.29103	18 48 25.97	-23 48 53.2	19.0 704
1997 MM ₅	1997 06 29.29328	18 53 26.71	-26 31 44.5		704	1997 MR ₅	1997 07 02.31432	18 48 24.42	-23 48 50.7	704
1997 MM ₅	1997 06 29.31684	18 53 25.26	-26 31 51.0		704	1997 MR ₅	1997 07 02.33762	18 48 22.79	-23 48 46.8	704
1997 MM ₅	1997 07 02.28766	18 50 45.15	-26 45 30.5		704	1997 MR ₅	1997 07 02.36091	18 48 21.13	-23 48 44.1	704
1997 MM ₅	1997 07 02.31096	18 50 43.79	-26 45 36.6		704	1997 MS ₅	* 1997 06 29.24639	18 55 09.64	-28 11 22.3	704
1997 MM ₅	1997 07 02.33426	18 50 42.35	-26 45 43.0		704	1997 MS ₅	1997 06 29.26995	18 55 08.26	-28 11 34.3	704
1997 MM ₅	1997 07 02.35754	18 50 40.99	-26 45 49.5		704	1997 MS ₅	1997 06 29.29354	18 55 06.95	-28 11 44.4	704
1997 MN ₅	* 1997 06 29.22257	18 55 40.36	-26 47 12.9	18.4	704	1997 MS ₅	1997 06 29.31710	18 55 05.56	-28 11 55.8	704
1997 MN ₅	1997 06 29.24613	18 55 38.76	-26 47 18.4	18.9	704	1997 MS ₅	1997 07 02.26392	18 52 17.18	-28 34 26.5	19.3 704
1997 MN ₅	1997 06 29.26969	18 55 37.20	-26 47 23.4	18.7	704	1997 MS ₅	1997 07 02.28727	18 52 15.82	-28 34 37.5	704
1997 MN ₅	1997 06 29.29328	18 55 35.63	-26 47 28.0	18.6	704	1997 MS ₅	1997 07 02.31057	18 52 14.52	-28 34 48.6	19.6 704
1997 MN ₅	1997 06 29.31684	18 55 34.03	-26 47 33.9	18.6	704	1997 MS ₅	1997 07 02.33387	18 52 13.13	-28 34 58.0	19.3 704
1997 MN ₅	1997 07 02.26430	18 52 19.08	-26 57 27.1	17.9	704	1997 MS ₅	1997 07 02.35715	18 52 11.54	-28 35 09.3	19.4 704
1997 MN ₅	1997 07 02.28766	18 52 17.51	-26 57 31.6		704	1997 MT ₅	* 1997 06 29.24768	18 52 35.86	-25 13 03.3	704
1997 MN ₅	1997 07 02.31096	18 52 15.93	-26 57 36.5	18.3	704	1997 MT ₅	1997 06 29.27124	18 52 34.08	-25 13 09.8	704
1997 MN ₅	1997 07 02.33426	18 52 14.25	-26 57 40.3		704	1997 MT ₅	1997 06 29.29483	18 52 32.34	-25 13 15.6	704
1997 MN ₅	1997 07 02.35754	18 52 12.68	-26 57 45.1		704	1997 MT ₅	1997 06 29.31840	18 52 30.77	-25 13 20.7	704
1997 MO ₅	* 1997 06 29.22283	18 55 11.38	-28 06 05.0	18.3	704	1997 MT ₅	1997 07 02.26805	18 49 05.85	-25 24 17.3	18.8 704
1997 MO ₅	1997 06 29.24639	18 55 09.71	-28 06 02.9	18.7	704	1997 MT ₅	1997 07 02.29142	18 49 04.07	-25 24 21.3	704
1997 MO ₅	1997 06 29.26995	18 55 07.98	-28 06 02.5	18.8	704	1997 MT ₅	1997 07 02.31471	18 49 02.50	-25 24 25.8	704
1997 MO ₅	1997 06 29.29354	18 55 06.16	-28 06 00.0		704	1997 MT ₅	1997 07 02.33801	18 49 00.64	-25 24 31.4	704
1997 MO ₅	1997 06 29.31710	18 55 04.49	-28 05 59.4		704	1997 MT ₅	1997 07 02.36129	18 48 59.01	-25 24 36.4	19.1 704
1997 MO ₅	1997 07 02.26405	18 51 32.31	-28 02 00.9	18.7	704	1997 MU ₅	* 1997 06 28.24219	18 39 19.02	-18 50 30.9	18.7 704
1997 MO ₅	1997 07 02.28740	18 51 30.54	-28 01 58.7		704	1997 MU ₅	1997 06 28.26590	18 39 17.86	-18 50 52.8	18.8 704
1997 MO ₅	1997 07 02.31070	18 51 28.75	-28 01 56.7	19.0	704	1997 MU ₅	1997 06 28.28939	18 39 16.57	-18 51 14.8	18.7 704
1997 MO ₅	1997 07 02.33400	18 51 27.03	-28 01 54.6	18.7	704	1997 MU ₅	1997 07 02.19556	18 36 05.72	-19 52 00.7	18.7 704
1997 MO ₅	1997 07 02.35728	18 51 25.28	-28 01 51.3		704	1997 MU ₅	1997 07 02.20040	18 36 05.42	-19 52 05.3	19.1 704
1997 MP ₅	* 1997 06 29.22283	18 55 27.58	-28 11 39.0	18.0	704	1997 MU ₅	1997 07 02.20524	18 36 05.23	-19 52 09.2	19.2 704
1997 MP ₅	1997 06 29.24639	18 55 26.06	-28 11 39.5		704	1997 MU ₅	1997 07 02.21019	18 36 04.93	-19 52 14.8	19.1 704
1997 MP ₅	1997 06 29.26995	18 55 24.41	-28 11 39.2	18.1	704	1997 MU ₅	1997 07 02.21503	18 36 04.75	-19 52 19.9	19.2 704
1997 MP ₅	1997 06 29.29354	18 55 22.86	-28 11 38.7	18.3	704	1997 MD ₁₀	* 1997 06 29.22270	18 54 19.72	-27 37 05.8	18.8 704
1997 MP ₅	1997 06 29.31710	18 55 21.24	-28 11 38.0	18.4	704	1997 MD ₁₀	1997 06 29.24626	18 54 16.58	-27 36 29.4	704
1997 MP ₅	1997 07 02.26405	18 52 06.42	-28 10 07.3	18.1	704	1997 MD ₁₀	1997 06 29.26982	18 54 13.42	-27 35 54.2	704
1997 MP ₅	1997 07 02.28740	18 52 04.85	-28 10 08.1		704	1997 MD ₁₀	1997 06 29.29341	18 54 10.22	-27 35 18.5	704

1997 MD ₁₀	1997 06 29.31697	18 54 07.19	-27 34 41.9		704	1997 NC ₁	1997 07 06.17129	13 10 04.11	-09 44 38.1		704
1997 MD ₁₀	1997 07 02.19339	18 47 46.38	-26 18 51.0	18.4	704	1997 NC ₁	1997 07 06.17631	13 10 04.40	-09 45 19.1		704
1997 MD ₁₀	1997 07 02.19823	18 47 45.78	-26 18 43.9		704	1997 NC ₁	1997 07 06.19811	13 10 05.84	-09 48 16.1		704
1997 MD ₁₀	1997 07 02.20307	18 47 45.05	-26 18 37.1		704	1997 NC ₁	1997 07 06.20334	13 10 06.06	-09 49 00.3		704
1997 MD ₁₀	1997 07 02.20802	18 47 44.41	-26 18 27.6		704	1997 NC ₁	1997 07 06.20856	13 10 06.35	-09 49 42.8		704
1997 MD ₁₀	1997 07 02.29297	18 47 32.77	-26 16 10.1		704	4084 P-L	1997 06 28.23199	18 48 50.21	-19 18 24.5	18.0	704
1997 MD ₁₀	1997 07 02.31626	18 47 29.60	-26 15 32.5		704	4084 P-L	1997 06 28.25568	18 48 48.89	-19 18 24.3		704
1997 MD ₁₀	1997 07 02.33956	18 47 26.46	-26 14 52.4		704	4084 P-L	1997 06 28.27918	18 48 47.63	-19 18 23.8	17.8	704
1997 MD ₁₀	1997 07 02.36284	18 47 23.20	-26 14 15.5		704	1296 T-2	1997 07 02.26573	18 53 04.02	-19 47 43.3	18.4	704
1997 MD ₁₀	1997 07 03.35673	18 45 09.48	-25 46 52.1		704	1296 T-2	1997 07 02.28909	18 53 02.62	-19 47 44.7		704
1997 MD ₁₀	1997 07 03.36364	18 45 08.52	-25 46 39.9		704	1296 T-2	1997 07 02.31238	18 53 01.28	-19 47 48.1		704
1997 MD ₁₀	1997 07 03.37055	18 45 07.40	-25 46 28.1		704	1296 T-2	1997 07 02.33568	18 52 59.81	-19 47 51.0	18.5	704
1997 NR	* 1997 07 02.26120	18 46 35.42	-26 33 29.9	17.7	704	(44)	1997 07 02.27090	18 46 09.91	-20 00 00.3		704
1997 NR	1997 07 02.26131	18 46 35.42	-26 33 30.0	17.8	704	(44)	1997 07 02.29426	18 46 08.47	-20 00 05.2		704
1997 NR	1997 07 02.26948	18 46 34.81	-26 33 29.9		704	(44)	1997 07 02.31756	18 46 07.08	-20 00 06.1		704
1997 NR	1997 07 02.28447	18 46 33.82	-26 33 30.8		704	(44)	1997 07 02.34086	18 46 05.60	-20 00 09.7		704
1997 NR	1997 07 02.28459	18 46 33.82	-26 33 30.6		704	(44)	1997 07 02.36414	18 46 04.09	-20 00 07.8		704
1997 NR	1997 07 02.29284	18 46 33.26	-26 33 31.4		704	(62)	1997 07 02.26728	18 49 07.38	-21 36 45.4		704
1997 NR	1997 07 02.30785	18 46 32.34	-26 33 31.1		704	(62)	1997 07 02.29064	18 49 06.19	-21 36 48.9		704
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1997 NR	1997 07 02.33115	18 46 30.65	-26 33 32.1		704	(62)	1997 07 02.33724	18 49 03.62	-21 36 53.6		704
1997 NR	1997 07 02.33127	18 46 30.64	-26 33 32.3		704	(62)	1997 07 02.36052	18 49 02.56	-21 36 53.5		704
1997 NR	1997 07 02.33944	18 46 30.10	-26 33 32.4		704	(126)	1997 06 28.23444	18 46 46.52	-28 00 59.5		704
1997 NR	1997 07 02.35444	18 46 29.12	-26 33 32.5		704	(126)	1997 06 28.25814	18 46 45.05	-28 01 06.2		704
1997 NR	1997 07 02.35456	18 46 29.13	-26 33 32.4		704	(126)	1997 06 28.28163	18 46 43.52	-28 01 09.5		704
1997 NR	1997 07 02.36271	18 46 28.60	-26 33 33.9		704	(126)	1997 07 02.27374	18 42 27.87	-28 07 43.1		704
1997 NR	1997 07 03.35818	18 45 25.32	-26 33 53.8	17.1	704	(126)	1997 07 02.29711	18 42 26.25	-28 07 47.1		704
1997 NR	1997 07 03.36158	18 45 25.04	-26 33 55.5		704	(126)	1997 07 02.32040	18 42 24.66	-28 07 49.0		704
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1997 NS	1997 07 02.28675	18 55 22.30	-27 44 50.1		704	(147)	1997 06 29.26853	18 54 07.44	-21 21 01.9		704
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1997 NS	1997 07 02.33335	18 55 18.73	-27 45 59.2		704	(147)	1997 06 29.31568	18 54 05.15	-21 21 04.0		704
1997 NS	1997 07 02.35664	18 55 16.97	-27 46 33.2		704	(147)	1997 07 02.26547	18 51 37.72	-21 22 45.4		704
1997 NS	1997 07 03.35721	18 54 03.70	-28 11 12.3	18.2	704	(147)	1997 07 02.28883	18 51 36.47	-21 22 45.4		704
1997 NS	1997 07 03.36060	18 54 03.37	-28 11 18.4	18.5	704	(147)	1997 07 02.31212	18 51 35.27	-21 22 48.0		704
1997 NS	1997 07 03.36412	18 54 03.01	-28 11 23.2		704	(147)	1997 07 02.33542	18 51 34.11	-21 22 48.5		704
1997 NS	1997 07 03.36752	18 54 02.81	-28 11 28.3	17.9	704	(147)	1997 07 02.35871	18 51 32.88	-21 22 45.3		704
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1997 NT	1997 07 02.28818	18 53 07.23	-24 23 08.4	18.5	704	(307)	1997 07 02.30902	18 55 32.83	-22 55 34.2		704
1997 NT	1997 07 02.31148	18 53 05.24	-24 23 36.2		704	(307)	1997 07 02.33232	18 55 31.65	-22 55 36.4		704
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1997 NT	1997 07 02.35806	18 53 01.02	-24 24 23.8		704	(414)	1997 06 28.22708	18 55 24.76	-20 28 42.7		704
1997 NT	1997 07 03.35770	18 51 35.35	-24 42 15.2	18.8	704	(414)	1997 06 28.25057	18 55 23.81	-20 28 46.9		704
1997 NT	1997 07 03.36109	18 51 35.09	-24 42 17.5	18.9	704	(414)	1997 06 29.22128	18 54 41.03	-20 31 21.4		704
1997 NT	1997 07 03.36461	18 51 34.76	-24 42 21.9	19.0	704	(414)	1997 06 29.24483	18 54 39.96	-20 31 24.9		704
1997 NT	1997 07 03.36812	18 51 34.39	-24 42 25.6	19.0	704	(414)	1997 06 29.26840	18 54 38.94	-20 31 28.9		704
1997 NT	1997 07 03.37152	18 51 34.08	-24 42 29.9		704	(414)	1997 06 29.29198	18 54 37.68	-20 31 33.1		704
1997 NC ₁	1997 07 06.16629	13 10 03.85	-09 43 57.3		704	(414)	1997 06 29.31555	18 54 36.81	-20 31 36.8		704

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(414)	1997 07 02.26560	18 52 25.65	-20 39 31.5	18.2	704	(1481)	1997 06 28.22863	18 54 19.64	-28 05 02.9	704
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(555)	1997 07 02.26198	18 55 20.28	-21 04 02.4		704	(1481)	1997 07 02.26405	18 50 40.17	-28 08 42.2	704
(555)	1997 07 02.28533	18 55 19.21	-21 04 05.4		704	(1481)	1997 07 02.28740	18 50 38.96	-28 08 41.7	704
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(1389)	1997 07 02.30061	18 39 47.15	-20 05 37.8		704	(2634)	1997 06 28.23134	18 52 41.65	-17 56 43.2	704
(1389)	1997 07 02.32389	18 39 45.89	-20 05 39.8		704	(2634)	1997 06 28.25504	18 52 40.56	-17 56 46.0	704
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(1394)	1997 06 28.29443	18 34 40.59	-18 24 00.2		704	(2634)	1997 07 02.33646	18 49 39.68	-18 04 28.6	704

(2634)	1997 07 02.35974	18 49 38.62	-18 04 30.9		704	(3967)	1997 07 02.36893	18 41 48.13	-22 10 59.2		704
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(3003)	1997 07 02.34241	18 43 52.26	-21 49 34.9		704	(4151)	1997 07 02.30914	18 54 22.15	-23 40 34.7	18.4	704
(3003)	1997 07 02.36570	18 43 51.03	-21 49 40.4		704	(4151)	1997 07 02.33245	18 54 20.94	-23 40 36.1		704
(3003)	1997 07 03.35914	18 42 59.14	-21 53 45.5		704	(4151)	1997 07 02.35573	18 54 19.75	-23 40 37.9		704
(3003)	1997 07 03.36266	18 42 59.00	-21 53 48.6		704	(4643)	1997 06 28.24594	18 35 35.79	-22 33 24.8	17.5	704
(3003)	1997 07 03.36957	18 42 58.29	-21 53 49.6		704	(4643)	1997 06 28.26964	18 35 34.32	-22 33 28.9		704
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(3082)	1997 07 02.30513	18 35 32.47	-17 34 05.1		704	(4697)	1997 06 28.24998	15 36 35.39	-19 51 02.9		704
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(3335)	1997 06 28.25930	18 45 46.63	-22 48 51.7		704	(5058)	1997 07 02.29038	18 49 39.74	-20 51 29.3		704
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(3335)	1997 07 02.27555	18 41 40.02	-22 37 40.4	18.0	704	(5058)	1997 07 02.36026	18 49 35.07	-20 51 56.8		704
(3335)	1997 07 02.29893	18 41 38.51	-22 37 35.7		704	(5180)	1997 06 28.23341	18 48 36.32	-26 18 51.8		704
(3335)	1997 07 02.32221	18 41 37.07	-22 37 31.8		704	(5180)	1997 06 28.25710	18 48 34.78	-26 18 57.6		704
(3335)	1997 07 02.34552	18 41 35.53	-22 37 28.1		704	(5180)	1997 06 28.28060	18 48 33.20	-26 19 02.4		704
(3335)	1997 07 02.36880	18 41 34.16	-22 37 24.4		704	(5180)	1997 07 02.27348	18 44 15.54	-26 33 33.5		704
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(3962)	1997 06 28.26202	18 44 58.33	-25 10 27.3	18.1	704	(5180)	1997 07 02.34344	18 44 10.80	-26 33 48.1		704
(3962)	1997 06 28.28551	18 44 57.11	-25 10 29.7	18.0	704	(5180)	1997 07 02.36673	18 44 09.26	-26 33 53.4		704
(3962)	1997 07 02.27504	18 41 37.16	-25 15 01.8		704	(5231)	1997 06 28.24012	18 40 17.80	-25 52 25.7		704
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(3967)	1997 07 02.27568	18 41 52.88	-22 10 33.3		704	(5231)	1997 07 02.32661	18 36 05.15	-26 15 18.7		704
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(5340)	1997 07 02.36880	18 41 40.67	-22 26 27.4		704
(5688)	1997 07 02.26146	18 54 20.27	-18 39 06.8		704
(5688)	1997 07 02.28473	18 54 18.72	-18 39 08.6		704
(5688)	1997 07 02.30811	18 54 17.47	-18 39 13.9		704
(5688)	1997 07 02.33142	18 54 16.13	-18 39 16.3		704
(5688)	1997 07 02.35470	18 54 14.73	-18 39 20.0		704
(5755)	1997 07 02.26366	18 53 22.99	-29 25 19.7		704
(5755)	1997 07 02.28701	18 53 21.66	-29 25 16.6		704
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(5755)	1997 07 02.33361	18 53 18.84	-29 25 15.7		704
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(6140)	1997 07 02.32907	18 34 22.28	-19 56 17.9		704
(6140)	1997 07 02.35236	18 34 20.72	-19 56 23.5		704
(6140)	1997 07 02.37567	18 34 19.16	-19 56 26.9		704
(6262)	1997 06 28.24103	18 40 42.49	-21 14 09.8		704
(6262)	1997 06 28.26473	18 40 41.19	-21 14 12.1		704
(6262)	1997 06 28.28823	18 40 39.89	-21 14 14.7		704
(6262)	1997 07 02.28097	18 37 07.16	-21 21 02.7	17.9	704
(6262)	1997 07 02.30435	18 37 06.05	-21 21 04.9		704
(6262)	1997 07 02.32764	18 37 04.56	-21 21 09.9		704
(6262)	1997 07 02.35095	18 37 03.32	-21 21 09.9	18.2	704
(6262)	1997 07 02.37424	18 37 02.04	-21 21 11.5	18.2	704
(6728)	1997 07 02.27465	18 39 50.46	-26 40 27.6	18.2	704
(6728)	1997 07 02.29802	18 39 48.75	-26 40 29.7	18.4	704
(6728)	1997 07 02.32130	18 39 46.98	-26 40 31.4	18.2	704
(6728)	1997 07 02.34461	18 39 45.35	-26 40 31.8	18.3	704
(6728)	1997 07 02.36790	18 39 43.69	-26 40 33.4	18.3	704
(6897)	1997 06 28.23599	18 46 12.25	-20 28 55.8	19.2	704
(6897)	1997 06 28.25969	18 46 10.75	-20 28 57.1	18.8	704
(6897)	1997 06 28.28319	18 46 09.20	-20 28 58.9	18.7	704
(6897)	1997 07 02.29931	18 41 59.60	-20 33 11.6		704
(6897)	1997 07 02.32260	18 41 58.14	-20 33 12.4		704
(6897)	1997 07 02.34591	18 41 56.54	-20 33 14.7		704
(6897)	1997 07 02.36920	18 41 55.06	-20 33 16.4		704
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(6955)	1997 06 28.26925	18 35 33.59	-24 32 26.5	17.8	704
(6955)	1997 06 28.29275	18 35 32.28	-24 32 28.4	17.9	704
(6955)	1997 07 02.28330	18 32 00.36	-24 35 53.0	18.1	704
(6955)	1997 07 02.30667	18 31 59.05	-24 35 54.2		704
(6955)	1997 07 02.32997	18 31 57.79	-24 35 54.8		704
(6955)	1997 07 02.35327	18 31 56.54	-24 35 55.9		704
(6955)	1997 07 02.37657	18 31 55.27	-24 35 56.8		704
(7024)	1997 06 28.24309	18 37 20.37	-22 58 51.1		704
(7024)	1997 06 28.26680	18 37 19.01	-22 58 52.7		704

(7024)	1997 06 28.29029	18 37 17.71	-22 58 54.6		704
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(7024)	1997 07 02.30642	18 33 46.96	-23 01 30.8	18.7	704
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(7024)	1997 07 02.35301	18 33 44.41	-23 01 32.8		704
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(7222)	1997 07 02.28546	18 55 27.43	-22 03 04.1		704
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(7222)	1997 07 02.33206	18 55 25.00	-22 03 08.9		704
(7222)	1997 07 02.35535	18 55 23.80	-22 03 11.6		704

709 W & B Observatory, Cloudcroft

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

[offutt@galileo.apo.nmsu.edu]

0.60-m *f*/7 Ritchey-Chrétien + CCD

USNO-SA1.0

1992 GA ₄	1997 06 29.15066	10 38 05.61	+09 00 22.1	19.3 R	709
1992 GA ₄	1997 06 29.15389	10 38 05.86	+09 00 21.4	18.7 R	709
1992 GA ₄	1997 06 29.15685	10 38 05.99	+09 00 19.8	18.4 R	I 709
1996 CZ	1997 06 29.17833	18 24 28.37	-15 47 10.7	18.8 V	709
1996 CZ	1997 06 29.18205	18 24 28.15	-15 47 10.9	18.9 V	709
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1996 CZ	1997 06 29.18928	18 24 27.75	-15 47 11.7	18.4 V	I 709
1996 CZ	1997 07 01.30060	18 22 29.61	-15 47 51.3	18.9 V	709
1996 CZ	1997 07 01.30483	18 22 29.38	-15 47 51.0	18.8 V	709
1996 CZ	1997 07 01.30853	18 22 29.13	-15 47 50.9	19.0 V	709
1996 CZ	1997 07 01.31207	18 22 28.92	-15 47 50.8	18.1 V	709
1996 CZ	1997 07 01.31564	18 22 28.79	-15 47 51.4	18.4 V	I 709
1996 TL ₆₆	1997 07 11.42031	02 11 33.88	+14 56 02.1	20.2 V	709
1996 TL ₆₆	1997 07 11.43642	02 11 33.94	+14 56 02.1	20.9 V	F 709
1996 TL ₆₆	1997 07 12.39424	02 11 36.96	+14 56 11.6	20.4 V	F 709
1996 TL ₆₆	1997 07 12.41037	02 11 37.02	+14 56 11.4	20.2 V	709
1996 TL ₆₆	1997 07 12.42648	02 11 37.03	+14 56 11.7	20.4 V	709
1996 TL ₆₆	1997 07 12.44259	02 11 37.07	+14 56 11.5	20.3 V	709
1996 TO ₆₆	1997 01 11.14332	23 48 32.41	+00 46 28.7		709
1996 TO ₆₆	1997 01 11.15477	23 48 32.43	+00 46 30.0		709
1996 TO ₆₆	1997 01 11.16759	23 48 32.42	+00 46 27.9		709
1996 TO ₆₆	1997 01 16.08628	23 48 45.32	+00 48 08.2		709
1996 TO ₆₆	1997 01 16.10269	23 48 45.35	+00 48 08.7	20.9 V	709
1996 TO ₆₆	1997 01 16.11901	23 48 45.43	+00 48 08.9	21.0 V	F 709
1996 TO ₆₆	1997 01 18.08873	23 48 51.03	+00 48 51.9		F 709
1996 TO ₆₆	1997 01 18.10505	23 48 51.11	+00 48 51.6		709
1996 TO ₆₆	1997 02 01.08984	23 49 38.19	+00 54 44.0	20.8 V	F 709
1996 TO ₆₆	1997 02 04.09047	23 49 49.89	+00 56 10.4	20.9 V	F 709
1996 TO ₆₆	1997 02 04.10685	23 49 49.94	+00 56 09.5	20.8 V	F 709
1996 TO ₆₆	1997 06 17.42340	23 58 34.26	+02 07 05.1	20.7 V	709
1996 TO ₆₆	1997 06 18.42277	23 58 35.04	+02 07 18.4	20.4 V	709
1996 TO ₆₆	1997 07 02.38238	23 58 36.87	+02 09 30.0	21.1 V	F 709
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1996 TO ₆₆	1997 07 03.40109	23 58 36.38	+02 09 35.5	20.4 V	709
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1996 TP ₆₆	1997 07 03.42345	01 26 18.22	+14 37 50.7	19.8 V	709
1996 TP ₆₆	1997 07 03.43963	01 26 18.27	+14 37 51.0	20.3 V	709
1997 CS ₂₉	1997 03 06.11108	07 40 14.56	+21 50 59.1	21.5 V	709
1997 CS ₂₉	1997 03 06.12740	07 40 14.54	+21 50 59.3	21.1 V	709
1997 CS ₂₉	1997 03 06.14373	07 40 14.44	+21 50 59.5	21.1 V	709
1997 CS ₂₉	1997 03 06.16005	07 40 14.41	+21 50 59.6	21.3 V	709
1997 CS ₂₉	1997 03 06.17697	07 40 14.40	+21 50 59.7	20.9 V	709
1997 CS ₂₉	1997 03 06.19330	07 40 14.31	+21 50 59.7	21.0 V	709
1997 LV ₅	1997 06 18.31498	20 37 31.84	-18 30 19.3	19.1 V	709
1997 LV ₅	1997 06 18.32183	20 37 31.82	-18 30 19.0	19.4 V	709
1997 LV ₅	1997 06 18.32933	20 37 31.80	-18 30 19.1	19.5 V	709
1997 LV ₅	1997 06 18.33625	20 37 31.70	-18 30 18.8	19.4 V	709
1997 LV ₅	1997 06 18.34332	20 37 31.70	-18 30 19.1	19.5 V	709
1997 LV ₅	1997 06 18.35097	20 37 31.66	-18 30 19.1	19.4 V	F 709
1997 LV ₅	1997 06 18.35778	20 37 31.62	-18 30 19.1	19.4 V	709
1997 LV ₅	1997 06 28.29377	20 35 20.55	-18 34 51.1	19.3 V	709
1997 LV ₅	1997 06 28.30028	20 35 20.41	-18 34 51.6	19.6 V	709
1997 LV ₅	1997 06 28.30339	20 35 20.33	-18 34 51.8	19.0 V	709
1997 LV ₅	1997 06 28.30854	20 35 20.19	-18 34 52.1	19.2 V	709
1997 LV ₅	1997 06 28.31420	20 35 20.02	-18 34 52.4	19.0 V	I 709
1997 LV ₅	1997 07 01.32905	20 34 02.22	-18 38 28.0	18.9 V	709
1997 LV ₅	1997 07 01.33296	20 34 02.09	-18 38 28.3	18.9 V	709
1997 LV ₅	1997 07 01.33652	20 34 01.99	-18 38 28.6	18.8 V	709
1997 LV ₅	1997 07 01.34031	20 34 01.86	-18 38 29.1	19.2 V	709
1997 LV ₅	1997 07 01.34390	20 34 01.75	-18 38 29.2	19.1 V	709
1997 MD ₁₀	1997 07 12.19205	18 25 04.93	-21 21 11.1	17.3 V	I 709
1997 MD ₁₀	1997 07 12.19632	18 25 04.33	-21 21 02.9	17.7 V	I 709
1997 MD ₁₀	1997 07 12.20340	18 25 03.33	-21 20 48.7	17.8 V	I 709

711 McDonald Observatory

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Observers P. J. Shelus, J. G. Riesn

0.76-m refector + prime focus corrector + CCD

GSC 1.1

1982 UC ₁₁	1997 07 07.18336	15 47 26.03	-19 02 20.0		711
1982 UC ₁₁	1997 07 07.19591	15 47 25.75	-19 02 18.4		711
1994 QC	1997 07 07.25176	17 13 56.10	+35 09 14.2		711
1994 QC	1997 07 07.25724	17 13 56.17	+35 09 03.0		711
1994 TB ₁₅	1997 07 07.20595	15 55 23.06	-26 48 27.2		711
1994 TB ₁₅	1997 07 07.21331	15 55 22.85	-26 48 25.8		711
1995 GO	1997 07 05.15728	13 04 50.23	-13 28 12.4		711
1995 GO	1997 07 05.17061	13 04 50.27	-13 28 12.7		711
1995 GO	1997 07 06.15575	13 04 53.63	-13 28 27.6		711
1995 GO	1997 07 06.16900	13 04 53.72	-13 28 28.2		711
1995 GO	1997 07 07.15095	13 04 57.34	-13 28 45.0		711
1995 GO	1997 07 07.16399	13 04 57.37	-13 28 45.2		711
(46)	1997 06 12.25354	15 49 29.93	-16 34 51.7		711
(46)	1997 06 12.25635	15 49 29.78	-16 34 51.3		711
(46)	1997 06 13.28404	15 48 39.75	-16 32 24.6		711

(46)	1997 06 13.28680	15 48 39.62	-16 32 24.0		711
(433)	1997 07 04.44556	02 25 46.56	+23 19 08.6		711
(433)	1997 07 04.44824	02 25 46.99	+23 19 11.2		711
(433)	1997 07 05.44690	02 28 29.15	+23 36 08.9		711
(433)	1997 07 05.44961	02 28 29.58	+23 36 11.9		711
(2060)	1997 06 12.22921	13 36 10.37	-09 44 04.5		711
(2060)	1997 06 12.23246	13 36 10.34	-09 44 04.3		711
(2060)	1997 06 13.27001	13 36 06.20	-09 43 18.8		711
(2060)	1997 06 13.27335	13 36 06.19	-09 43 18.6		711
(2060)	1997 07 05.18177	13 36 21.76	-09 37 33.0		711
(2060)	1997 07 05.18506	13 36 21.77	-09 37 33.1		711
(4168)	1997 07 04.42499	21 50 00.02	-18 24 59.9		711
(4168)	1997 07 05.41346	21 49 30.71	-18 26 03.5		711
(4168)	1997 07 05.42667	21 49 30.29	-18 26 04.3		711
(5145)	1997 06 13.23105	13 01 52.70	+19 40 50.0		711
(5145)	1997 06 13.26132	13 01 52.64	+19 40 46.8		711
(5145)	1997 07 05.13906	13 02 27.43	+18 56 39.1		711
(5145)	1997 07 05.14666	13 02 27.46	+18 56 37.9		711
(5145)	1997 07 06.13784	13 02 32.44	+18 54 19.4		711
(5145)	1997 07 06.14536	13 02 32.48	+18 54 18.2		711
(5145)	1997 07 07.13311	13 02 37.72	+18 51 58.8		711
(5145)	1997 07 07.14062	13 02 37.75	+18 51 57.7		711
(7482)	1997 07 07.26256	19 01 19.93	+04 17 45.7		711
(7482)	1997 07 07.26670	19 01 19.26	+04 17 28.8		711

712 USAF Academy Observatory, Colorado Springs

C. Wetterer, Department of Physics, USAF Academy, CO 80840

[WettererCJ.dfp@usafa.af.mil]

Observers C. Wetterer, T. Hacker, C. Csoboth, G. Anderson, F. Roper

Measurers C. Wetterer, G. Anderson, F. Roper

0.41-m $f/8.0$ reflector + CCD

GSC

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(46)	1997 06 11.24098	15 50 20.32	-16 37 21.8	12.8 V	712
(46)	1997 06 11.31419	15 50 16.52	-16 37 10.7	12.9 V	712
(46)	1997 07 03.15785	15 37 14.06	-16 04 02.5	13.5 V	712
(46)	1997 07 03.17578	15 37 13.68	-16 04 01.9	13.5 V	712
(46)	1997 07 03.17898	15 37 13.60	-16 04 01.8	13.5 V	712
(57)	1997 06 11.20381	14 17 37.27	-04 23 51.5	13.0 V	712
(57)	1997 06 11.22860	14 17 36.85	-04 23 48.6	13.0 V	712
(57)	1997 07 03.15038	14 16 00.63	-04 12 01.2	13.3 V	712
(57)	1997 07 03.16447	14 16 00.72	-04 12 01.7	13.2 V	712
(57)	1997 07 03.16738	14 16 00.76	-04 12 01.7	13.2 V	712
(107)	1996 06 14.26032	17 45 51.93	-09 50 24.8	12.9 V	712
(107)	1996 06 14.28553	17 45 50.82	-09 50 23.3	12.8 V	712
(107)	1996 06 19.18617	17 42 22.68	-09 49 14.2	12.9 V	712
(107)	1996 06 19.24505	17 42 20.14	-09 49 13.9	12.6 V	712
(107)	1996 06 19.30935	17 42 17.39	-09 49 13.7	12.7 V	712
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(183)	1997 07 02.25704	18 19 59.91	+04 34 54.3	14.6 V	712
(183)	1997 07 02.26095	18 19 59.66	+04 34 53.3	14.4 V	712
(183)	1997 07 03.23795	18 19 07.36	+04 30 12.3	14.6 V	712
(183)	1997 07 03.27676	18 19 05.30	+04 30 01.0	14.7 V	712

1997 JULY 20

M.P.C. 30211

(183)	1997 07 03.27906	18 19 05.08	+04 30 00.1	14.7 V	712
(218)	1997 07 02.23734	18 09 16.45	+01 20 01.9	12.6 V	712
(218)	1997 07 02.25366	18 09 15.62	+01 19 58.1	12.6 V	712
(218)	1997 07 03.23454	18 08 28.01	+01 16 00.0	12.5 V	712
(218)	1997 07 03.26806	18 08 26.37	+01 15 51.7	12.6 V	712
(218)	1997 07 03.27347	18 08 26.12	+01 15 50.5	12.6 V	712
(234)	1997 07 02.27201	17 03 21.84	+01 12 07.7	12.7 V	712
(234)	1997 07 02.28014	17 03 21.43	+01 12 03.8	12.8 V	712
(234)	1997 07 02.30315	17 03 20.28	+01 11 52.5	12.8 V	712
(234)	1997 07 03.20434	17 02 38.03	+01 04 22.1	12.4 V	712
(234)	1997 07 03.22321	17 02 37.11	+01 04 12.5	12.4 V	712
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(251)	1997 06 11.22340	12 47 36.89	+05 10 14.5	15.6 V	712
(251)	1997 06 11.25863	12 47 37.38	+05 10 08.3	15.6 V	712
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(251)	1997 07 03.15951	12 56 36.37	+03 40 18.7	15.6 V	712
(251)	1997 07 03.16214	12 56 36.43	+03 40 18.9	15.6 V	712
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(259)	1997 06 11.23332	14 54 44.84	-08 03 13.5	12.7 V	712
(259)	1997 06 11.30880	14 54 42.61	-08 03 27.6	12.6 V	712
(259)	1997 07 03.15433	14 49 49.23	-09 36 14.4	13.5 V	712
(259)	1997 07 03.17042	14 49 49.21	-09 36 19.3	13.5 V	712
(259)	1997 07 03.17387	14 49 49.22	-09 36 20.5	13.5 V	712
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(286)	1997 07 03.28126	19 15 41.97	-04 21 50.6	14.8 V	712
(286)	1997 07 03.28347	19 15 41.77	-04 21 53.2	14.9 V	712
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(354)	1997 07 02.30711	16 27 24.50	+02 21 52.6	11.5 V	712
(354)	1997 07 03.18309	16 26 58.30	+02 16 00.6	11.6 V	712
(354)	1997 07 03.21083	16 26 57.44	+02 15 49.4	11.5 V	712
(354)	1997 07 03.21311	16 26 57.37	+02 15 48.4	11.5 V	712
(444)	1997 07 02.29870	20 43 12.18	-01 32 39.4	12.4 V	712
(444)	1997 07 02.32419	20 43 11.45	-01 32 37.0	12.4 V	712
(444)	1997 07 03.26506	20 42 46.01	-01 31 19.1	12.4 V	712
(444)	1997 07 03.29258	20 42 45.21	-01 31 16.9	12.4 V	712
(444)	1997 07 03.29387	20 42 45.19	-01 31 17.0	12.3 V	712
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(458)	1997 07 02.24417	16 28 12.79	-07 08 06.6	16.1 V	712
(458)	1997 07 03.18828	16 27 41.21	-07 10 17.0	16.4 V	712
(458)	1997 07 03.21529	16 27 40.28	-07 10 21.0	16.4 V	712
(458)	1997 07 03.21733	16 27 40.22	-07 10 21.2	16.4 V	712
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(504)	1996 06 19.17204	16 49 55.28	-13 05 26.1	15.0 V	712
(504)	1996 06 19.20385	16 49 53.43	-13 05 33.1	15.1 V	712
(504)	1996 06 19.26409	16 49 49.95	-13 05 46.3	15.0 V	712
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(681)	1997 07 02.24906	16 39 00.07	-03 48 56.7	16.1 V	712
(681)	1997 07 03.20122	16 38 31.45	-03 50 51.5	16.1 V	712
(681)	1997 07 03.21922	16 38 30.89	-03 50 53.8	16.3 V	712
(681)	1997 07 03.22138	16 38 30.82	-03 50 54.1	16.3 V	712
(2649)	1996 06 14.26600	18 19 34.88	-15 21 12.7	16.1 V	712
(2649)	1996 06 14.29012	18 19 33.47	-15 21 06.1	15.7 V	712
(2649)	1996 06 19.24969	18 14 57.63	-15 03 52.2	16.0 V	712
(2649)	1996 06 19.31286	18 14 53.97	-15 03 39.6	16.2 V	712
(3420)	1996 06 14.25278	16 29 45.41	-01 32 47.0	17.7 V	712
(3420)	1996 06 14.28032	16 29 44.21	-01 32 49.6	17.5 V	712
(3420)	1996 06 19.16718	16 26 25.15	-01 42 44.3	17.7 V	712
(3420)	1996 06 19.19627	16 26 23.94	-01 42 48.6	18.0 V	712
(3420)	1996 06 19.25657	16 26 21.52	-01 42 57.6	17.6 V	712
(4284)	1996 06 14.25786	17 39 54.08	-02 38 42.3	16.1 V	712
(4284)	1996 06 14.28301	17 39 52.72	-02 38 48.5	16.3 V	712
(4284)	1996 06 19.18382	17 35 41.19	-03 02 58.0	16.8 V	712
(4284)	1996 06 19.23688	17 35 38.25	-03 03 16.0	16.5 V	712
(4284)	1996 06 19.24108	17 35 38.06	-03 03 18.0	16.7 V	712
(4284)	1996 06 19.30251	17 35 34.63	-03 03 38.5	16.4 V	712
(4284)	1996 06 19.30642	17 35 34.44	-03 03 41.1	16.5 V	712

721 Lime Creek

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[lindh@csb.cambridge.ne.us]

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

GSC

(6943)	1997 07 10.34279	23 01 29.40	-00 02 09.8	19.0 V	721
(6943)	1997 07 10.41685	23 01 29.79	-00 01 57.8	18.8 V	721
(6943)	1997 07 11.26205	23 01 34.95	+00 00 22.3	18.9 V	721
(6943)	1997 07 11.33542	23 01 35.29	+00 00 33.8	18.5 V	721

735 George Observatory, Needville

W. G. Dillon, Fort Bend Astronomy Club, P.O. Box 942, Stafford, TX 77497-0942,

U.S.A. [bdillon@houston.geoquest.slb.com]

Observers W. G. Dillon, R. Pepper, F. Smith, P. Comba, J. Sutton

Measurers W. G. Dillon, K. Rivich, P. Comba

0.46-m reflector + CCD

GSC

1981 WC	1997 07 04.37639	01 02 22.67	-05 00 22.5	17.7 R	735
1981 WC	1997 07 04.38437	01 02 23.39	-05 00 19.5	17.7 R	735
1981 WC	1997 07 04.39583	01 02 24.39	-05 00 15.6	17.7 R	735
1997 LD ₄	1997 06 12.12917	15 59 21.66	-23 59 43.6	18.9 R	735
1997 LD ₄	1997 06 12.14201	15 59 20.77	-23 59 51.9	19.1 R	735
1997 LD ₄	1997 06 12.16215	15 59 19.32	-24 00 04.3	19.0 R	735
(1776)	1997 07 04.32569	17 54 10.73	-09 45 49.5	16.8 R	735

M.P.C. 30212
1997 JULY 20

(1776)	1997 07 04.33403	17 54 10.36	-09 45 50.3	16.9 R	735
(1776)	1997 07 04.34271	17 54 09.96	-09 45 50.9	16.9 R	735

748 Van Allen Observatory

R. DeMartino, 138 Harding Ave., West Haven, CT 06516, U.S.A.

[astro1@sprynet.com]

Observer J. Sippel

Measurer R. DeMartino

0.18-m $f/7$ refractor + CCD

GSC

(688)	1997 06 10.14233	16 31 37.51	-04 47 59.5		748
(732)	1997 06 10.13896	16 23 50.55	-02 57 47.0	14.9	748
(732)	1997 06 10.22791	16 23 45.92	-02 57 41.6	15.1	748
(747)	1997 06 10.12999	14 17 53.93	+09 39 15.7	13.9	748
(747)	1997 06 10.22208	14 17 51.81	+09 38 59.7	13.8	748
(749)	1997 05 05.25451	12 49 50.36	+05 48 59.9	13.9	748
(781)	1997 06 10.13559	15 18 24.72	+09 18 23.8	14.7	748
(781)	1997 06 10.21756	15 18 21.95	+09 18 05.2	14.7	748

762 Four Winds Observatory, Lake Leelanau

R. Elliott, 1422 South Manitou Trail, Lake Leelanau, MI 49653, U.S.A.

[elliottb@uwec.edu]

0.3-m $f/3.3$ reflector + CCD

GSC

(679)	1997 06 27.22183	12 41 47.50	+22 39 16.8		762
(679)	1997 06 27.22744	12 41 47.67	+22 39 14.0		762
(679)	1997 06 27.23235	12 41 47.77	+22 39 11.2		762
(1796)	1997 06 29.18209	16 32 10.36	+07 34 09.7		762
(1796)	1997 06 29.20809	16 32 09.56	+07 34 06.7		762
(1980)	1997 06 29.11128	18 38 59.61	+24 34 54.7		762
(1980)	1997 06 29.15227	18 38 55.24	+24 37 09.3	14.6 V	762
(3451)	1997 06 29.16875	16 26 30.38	+07 06 50.8		762
(3451)	1997 06 29.19066	16 26 29.88	+07 06 48.5		762

776 Foggy Bottom Observatory

T. J. Balonek, Dept. of Physics and Astronomy, Colgate University, Hamilton, NY

13346, U.S.A. [tbalonek@colgate.edu]

Observer T. J. Balonek

Measurers E. Beckerman, K. Whitman, C. Finn, T. J. Balonek

0.40-m $f/13$ Cassegrain reflector + CCD

(6452)	1996 08 10.23303	00 39 15.05	+05 17 02.4	17.6 R	776
(6452)	1996 08 10.23620	00 39 15.05	+05 17 02.2	17.5 R	776
(6452)	1996 08 10.24558	00 39 15.02	+05 17 02.0	17.5 R	776
(6452)	1996 08 10.25984	00 39 14.96	+05 17 01.7	17.7 R	776
(6452)	1996 08 10.32147	00 39 14.64	+05 17 00.0		P 776
(6452)	1996 08 10.32396	00 39 14.69	+05 16 58.7		P 776
(6452)	1996 08 10.33476	00 39 14.61	+05 16 59.0	18.1 R	776
(6452)	1996 08 10.35009	00 39 14.59	+05 16 58.6	17.5 R	776
(6452)	1996 08 10.35704	00 39 14.55	+05 16 58.4		776
(6452)	1996 08 11.21083	00 39 11.40	+05 16 24.7	18.0 R	776
(6452)	1996 08 11.22572	00 39 11.36	+05 16 24.3	17.9 R	776
(6452)	1996 08 11.23772	00 39 11.28	+05 16 23.6	18.2 R	776

(6452)	1996 08 11.29906	00 39 10.88	+05 16 21.2	17.4 R	776
(6452)	1996 08 11.30137	00 39 10.89	+05 16 20.8	17.8 R	776

784 Alfred University Observatory

D. R. DeGraff, Physics and Astronomy, Alfred University, Alfred, NY 14803,

U.S.A. [david@merlin.alfred.edu]

Observers D. R. DeGraff, J. S. Weaver, J. S. Weavers

Measurer D. R. DeGraff

0.81-m $f/4$ reflector + CCD

GSC, USNO A1.0

1994 QC	1997 06 06.23021	17 13 08.50	+44 10 58.8	18.2 R	784
1994 QC	1997 06 06.23559	17 13 08.39	+44 10 58.1	18.3 R	784
1995 GO	1997 04 30.12376	13 12 37.23	-14 09 56.8	18.7	784
1995 GO	1997 04 30.21795	13 12 35.80	-14 09 51.0	19.1	784
1997 GH ₃	1997 04 30.06633	10 25 39.24	+13 11 27.3	16.7	784
1997 GH ₃	1997 04 30.07582	10 25 42.52	+13 11 12.9	16.7	784
1997 GH ₃	1997 06 06.18403	12 59 34.11	-01 06 06.1	18.3 R	784
1997 GH ₃	1997 06 06.18940	12 59 35.00	-01 06 12.0	18.1 R	784
1997 NC ₁	1997 07 07.09738	13 11 15.28	-11 48 45.6	15.5 R	784
1997 NC ₁	1997 07 07.11752	13 11 16.47	-11 51 21.8	15.2 R	784
1997 NC ₁	1997 07 07.12233	13 11 16.77	-11 51 59.3	15.2 R	784
1997 NC ₁	1997 07 07.12481	13 11 16.91	-11 52 18.4	15.3 R	784
1997 NC ₁	1997 07 07.12674	13 11 17.04	-11 52 33.9	15.3 R	784
1997 NJ ₆	1997 07 11.12830	16 22 12.33	-07 29 45.7	20.2	784
1997 NJ ₆	1997 07 11.13646	16 22 12.00	-07 29 40.4	19.9	784
1997 NJ ₆	1997 07 11.17535	16 22 10.11	-07 28 57.0	19.5	784
1997 NJ ₆	1997 07 11.18021	16 22 09.92	-07 28 52.2	19.9	784
1997 NJ ₆	1997 07 11.18403	16 22 09.63	-07 28 48.0	20.0	784
1997 NJ ₆	1997 07 11.23645	16 22 07.28	-07 27 54.5	19.7	784
1997 NJ ₆	1997 07 11.24427	16 22 06.94	-07 27 46.5	19.8	784
(3116)	1997 07 07.10260	13 16 49.28	-04 06 09.8	16.9	784
(3116)	1997 07 07.13442	13 16 50.53	-04 06 22.9	16.8	784
(3116)	1997 07 08.08383	13 17 29.29	-04 12 55.9	16.3	784
(3116)	1997 07 08.09054	13 17 29.56	-04 12 58.7	16.4	784
(3116)	1997 07 08.13956	13 17 31.54	-04 13 19.2	16.5	784
(5145)	1997 06 06.08909	13 02 12.45	+19 51 48.8	17.8 R	784
(5145)	1997 06 06.09684	13 02 12.42	+19 51 47.9	17.8 R	784
(5145)	1997 06 06.10603	13 02 12.38	+19 51 47.0	18.5 R	784
(5145)	1997 06 06.21370	13 02 11.98	+19 51 38.2	18.3 R	784
(5145)	1997 06 10.12104	13 01 59.47	+19 45 50.5	18.1 R	784
(5145)	1997 06 10.12760	13 01 59.43	+19 45 50.0	17.7 R	784
(5145)	1997 06 10.18519	13 01 59.28	+19 45 44.6	18.0 R	784

801 Oak Ridge

J. Zajac, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street,
Cambridge, MA 02138, U.S.A. [jjajac@cfa.harvard.edu]

Observers J. Degnan, J. Zajac

1.5-m reflector + CCD

GSC

1975 EA ₃	1997 06 07.08124	14 57 25.18	-20 30 48.8		801
1975 EA ₃	1997 06 07.10710	14 57 24.35	-20 30 47.4		801
1986 JA	1997 06 05.11237	15 32 30.75	+04 23 55.9		801
1986 JA	1997 06 05.14038	15 32 29.53	+04 23 53.5		801

1987 RG	1997 06 06.17296	17 10 02.29	-19 07 14.4	801
1987 RG	1997 06 06.19854	17 10 00.91	-19 07 11.9	801
1987 RG	1997 06 07.17152	17 09 10.95	-19 06 54.7	801
1987 RG	1997 06 07.20226	17 09 09.28	-19 06 53.6	801
1988 GF	1997 06 05.27308	20 47 17.46	+00 18 09.5	801
1988 GF	1997 06 05.29494	20 47 17.76	+00 18 24.4	801
1992 AN	1997 06 05.10299	14 52 17.14	+16 55 36.3	801
1992 AN	1997 06 05.12192	14 52 16.24	+16 55 28.9	801
1993 GO	1997 06 05.09058	13 56 25.05	-08 22 56.3	801
1993 GO	1997 06 06.11882	13 56 11.08	-08 31 48.4	801
1993 GO	1997 06 06.15347	13 56 10.52	-08 32 06.7	801
1993 HK ₁	1997 06 05.21249	18 49 59.81	+05 25 30.6	801
1993 HK ₁	1997 06 05.23318	18 49 59.39	+05 26 00.6	801
1993 HK ₁	1997 06 06.21969	18 49 41.62	+05 49 51.3	801
1993 HK ₁	1997 06 06.23230	18 49 41.34	+05 50 09.5	801
1993 MC	1997 06 05.20766	18 14 15.58	-05 38 18.6	801
1993 MC	1997 06 05.22731	18 14 14.79	-05 38 06.0	801
1994 CS ₈	1997 06 06.12818	15 20 58.71	-10 33 41.9	801
1994 CS ₈	1997 06 06.15767	15 20 57.84	-10 33 39.8	801
1995 XN ₁	1997 06 06.08501	12 35 12.60	+10 08 36.1	801
1995 XN ₁	1997 06 06.11419	12 35 13.13	+10 08 15.4	801
1996 DE	1997 06 05.21824	17 54 22.49	+00 38 00.2	801
1996 DE	1997 06 05.23708	17 54 21.54	+00 38 00.4	801
(7667)	1997 06 06.22812	17 47 19.34	-08 07 45.4	801
(7715)	1997 06 06.16498	16 40 06.40	+02 31 18.8	801
(7715)	1997 06 06.18341	16 40 05.38	+02 31 18.2	801
(7715)	1997 06 07.16498	16 39 12.92	+02 30 46.6	801
(7715)	1997 06 07.18317	16 39 11.90	+02 30 45.0	801

807 Cerro Tololo

S. Hughes Pack, 206 Main Street, Northfield, MA 01360-1050, U.S.A.

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Observers A. Kim, R. Knop, S. Deustua, P. Nugent

Measurers J. Lee, B. Underwood, S. Deustua, C. Pennypacker, T. Llosa-Sandor,

W. E. Dane, S. H. Pack, D. R. Trainor

Blanco 4-m at Prime Focus + CCD

APM

1997 LD ₁₀	* 1997 06 06.08640	13 46 23.19	+02 18 47.6	807
1997 LD ₁₀	1997 06 06.10369	13 46 23.09	+02 18 46.5	807
1997 LD ₁₀	1997 06 06.12006	13 46 22.93	+02 18 46.0	807
1997 LD ₁₀	1997 06 07.09810	13 46 11.61	+02 17 51.2	807

809 European Southern Observatory

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

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

Observers U. Carsenty, E. Elst, G. Hahn, C.-I. Lagerkvist, S. Mottola, G. Pizarro, O. Pizarro, M. Lindgren

Measurers E. W. Elst, O. Hernius, C.-I. Lagerkvist, G. Hahn

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

1979 KQ	1997 06 08.14097	15 38 22.01	-11 35 32.4	18.3	4	809
1979 KQ	1997 06 08.15417	15 38 21.38	-11 35 30.6		4	809

1979 KQ	1997 06 08.16736	15 38 20.77	-11 35 29.0		4	809
1979 KQ	1997 06 09.07083	15 37 41.23	-11 33 35.1		4	809
1979 KQ	1997 06 09.08403	15 37 40.63	-11 33 34.0		4	809
1979 KQ	1997 06 09.09722	15 37 40.02	-11 33 32.2		4	809
1979 MH ₄	1997 06 08.14097	15 44 31.03	-13 50 21.2	18.5	4	809
1979 MH ₄	1997 06 08.15417	15 44 30.31	-13 50 19.4		4	809
1979 MH ₄	1997 06 08.16736	15 44 29.69	-13 50 17.2		4	809
1979 MH ₄	1997 06 09.07083	15 43 48.38	-13 47 27.6		4	809
1979 MH ₄	1997 06 09.08403	15 43 47.70	-13 47 26.3		4	809
1979 MH ₄	1997 06 09.09722	15 43 47.07	-13 47 22.8		4	809
1981 ES ₁₂	1997 03 11.24167	13 05 04.89	-11 56 51.9	18.5	4	809
1981 ES ₁₂	1997 03 11.25486	13 05 04.49	-11 56 47.6		4	809
1981 ES ₁₂	1997 03 11.26806	13 05 04.04	-11 56 41.7		4	809
1981 ES ₁₂	1997 03 12.18542	13 04 35.68	-11 50 45.6		4	809
1981 ES ₁₂	1997 03 12.19861	13 04 35.21	-11 50 40.8		4	809
1981 ES ₁₂	1997 03 12.21181	13 04 34.75	-11 50 34.9		4	809
1981 EY ₁₇	1997 06 07.04931	14 58 02.20	-13 44 16.6	18.5	4	809
1981 EY ₁₇	1997 06 07.06250	14 58 01.64	-13 44 15.2		4	809
1981 EY ₁₇	1997 06 07.07569	14 58 01.09	-13 44 13.2		4	809
1981 EY ₁₇	1997 06 08.05417	14 57 23.26	-13 41 54.3		4	809
1981 EY ₁₇	1997 06 08.06736	14 57 22.70	-13 41 51.6		4	809
1981 EY ₁₇	1997 06 08.08056	14 57 22.19	-13 41 50.5		4	809
1981 WS ₁	1997 06 07.04931	14 58 30.80	-15 56 53.2	18.2	4	809
1981 WS ₁	1997 06 07.06250	14 58 30.18	-15 56 55.3		4	809
1981 WS ₁	1997 06 07.07569	14 58 29.59	-15 56 57.1		4	809
1981 WS ₁	1997 06 08.05417	14 57 49.93	-15 59 14.7		4	809
1981 WS ₁	1997 06 08.06736	14 57 49.36	-15 59 16.4		4	809
1981 WS ₁	1997 06 08.08056	14 57 48.78	-15 59 17.9		4	809
1983 TE ₁	1997 03 11.24167	13 00 24.19	-09 55 07.1	18.4	4	809
1983 TE ₁	1997 03 11.25486	13 00 23.65	-09 55 03.2		4	809
1983 TE ₁	1997 03 11.26806	13 00 23.06	-09 55 00.0		4	809
1983 TE ₁	1997 03 12.18542	12 59 46.28	-09 50 15.1		4	809
1983 TE ₁	1997 03 12.19861	12 59 45.71	-09 50 11.6		4	809
1983 TE ₁	1997 03 12.21181	12 59 45.16	-09 50 06.3		4	809
1984 MP	1997 06 07.11528	15 24 03.84	-12 03 40.0	16.5	4	809
1984 MP	1997 06 07.12847	15 24 03.31	-12 03 33.4		4	809
1984 MP	1997 06 07.14167	15 24 02.81	-12 03 27.5		4	809
1984 MP	1997 06 08.09722	15 23 30.56	-11 56 15.6		4	809
1984 MP	1997 06 08.11042	15 23 30.06	-11 56 09.6		4	809
1984 MP	1997 06 08.12361	15 23 29.60	-11 56 03.7		4	809
1985 US	1997 06 08.14097	15 40 33.81	-13 59 17.3	18.4	4	809
1985 US	1997 06 08.15417	15 40 33.17	-13 59 16.3		4	809
1985 US	1997 06 08.16736	15 40 32.54	-13 59 15.7		4	809
1985 US	1997 06 09.07083	15 39 52.09	-13 58 13.6		4	809
1985 US	1997 06 09.08403	15 39 51.51	-13 58 12.9		4	809
1985 US	1997 06 09.09722	15 39 50.85	-13 58 12.6		4	809
1987 QF ₆	1992 04 06.06285	10 00 13.01	+10 58 12.0	18.8	8	809
1987 SU ₁₇	1997 06 07.11528	15 29 41.50	-13 33 45.7	18.1	4	809
1987 SU ₁₇	1997 06 07.12847	15 29 40.85	-13 33 42.2		4	809
1987 SU ₁₇	1997 06 07.14167	15 29 40.20	-13 33 38.4		4	809
1987 SU ₁₇	1997 06 08.09722	15 28 55.47	-13 29 05.8		4	809
1987 SU ₁₇	1997 06 08.11042	15 28 54.85	-13 29 01.8		4	809

1987 SU ₁₇	1997 06 08.12361	15 28 54.20	-13 28 58.1		4 809	1991 RB ₅	1997 03 11.24167	13 08 39.85	-10 47 27.0	18.4	4 809
1987 WF ₁	1997 06 07.11528	15 14 10.66	-13 38 05.1	18.0	4 809	1991 RB ₅	1997 03 11.25486	13 08 39.24	-10 47 25.8		4 809
1987 WF ₁	1997 06 07.12847	15 14 10.00	-13 37 57.5		4 809	1991 RB ₅	1997 03 11.26806	13 08 38.63	-10 47 25.2		4 809
1987 WF ₁	1997 06 07.14167	15 14 09.32	-13 37 49.6		4 809	1991 RB ₅	1997 03 12.18542	13 07 58.35	-10 45 53.6		4 809
1987 WF ₁	1997 06 08.09722	15 13 23.37	-13 27 41.4		4 809	1991 RB ₅	1997 03 12.19861	13 07 57.71	-10 45 52.9		4 809
1987 WF ₁	1997 06 08.11042	15 13 22.71	-13 27 34.5		4 809	1991 RB ₅	1997 03 12.21181	13 07 57.10	-10 45 51.3		4 809
1987 WF ₁	1997 06 08.12361	15 13 22.06	-13 27 26.3		4 809	1991 RD ₁₆	1997 06 08.14097	15 46 31.29	-11 45 00.8	18.6	4 809
1988 RN ₁₁	1997 06 07.04931	15 03 33.90	-15 40 43.7	18.5	4 809	1991 RD ₁₆	1997 06 08.15417	15 46 30.52	-11 44 59.8		4 809
1988 RN ₁₁	1997 06 07.06250	15 03 33.56	-15 40 43.6		4 809	1991 RD ₁₆	1997 06 08.16736	15 46 29.75	-11 44 58.8		4 809
1988 RN ₁₁	1997 06 07.07569	15 03 33.23	-15 40 41.9		4 809	1991 RD ₁₆	1997 06 09.07083	15 45 38.58	-11 43 14.2		4 809
1988 RN ₁₁	1997 06 08.05417	15 03 09.86	-15 39 09.2		4 809	1991 RD ₁₆	1997 06 09.08403	15 45 37.71	-11 43 13.1		4 809
1988 RN ₁₁	1997 06 08.06736	15 03 09.55	-15 39 07.7		4 809	1991 RD ₁₆	1997 06 09.09722	15 45 36.95	-11 43 11.1		4 809
1988 RN ₁₁	1997 06 08.08056	15 03 09.18	-15 39 06.8		4 809	1991 RU ₁₇	1997 06 07.11528	15 15 13.01	-13 33 01.8	18.1	4 809
1988 TL ₁	1997 03 11.24167	13 07 20.06	-10 42 51.9	18.5	4 809	1991 RU ₁₇	1997 06 07.12847	15 15 12.42	-13 32 59.8		4 809
1988 TL ₁	1997 03 11.25486	13 07 19.49	-10 42 47.9		4 809	1991 RU ₁₇	1997 06 07.14167	15 15 11.76	-13 32 57.7		4 809
1988 TL ₁	1997 03 11.26806	13 07 18.91	-10 42 44.3		4 809	1991 RU ₁₇	1997 06 08.09722	15 14 31.12	-13 30 11.4		4 809
1989 CV ₁	1997 06 08.14097	15 44 38.04	-14 42 52.2	18.5	4 809	1991 RU ₁₇	1997 06 08.11042	15 14 30.51	-13 30 08.9		4 809
1989 CV ₁	1997 06 08.15417	15 44 37.32	-14 42 53.0		4 809	1991 RU ₁₇	1997 06 08.12361	15 14 29.87	-13 30 06.6		4 809
1989 CV ₁	1997 06 08.16736	15 44 36.59	-14 42 52.8		4 809	1991 UO ₂	1997 06 08.14097	15 39 02.50	-13 45 43.7	18.3	4 809
1989 CV ₁	1997 06 09.07083	15 43 49.85	-14 42 31.5		4 809	1991 UO ₂	1997 06 08.15417	15 39 01.74	-13 45 43.0		4 809
1989 CV ₁	1997 06 09.08403	15 43 49.21	-14 42 31.7		4 809	1991 UO ₂	1997 06 08.16736	15 39 01.05	-13 45 42.5		4 809
1989 CV ₁	1997 06 09.09722	15 43 48.47	-14 42 31.3		4 809	1991 UO ₂	1997 06 09.07083	15 38 13.55	-13 44 42.5		4 809
1990 QT ₁	1997 06 08.14097	15 31 36.37	-14 09 11.0	18.5	4 809	1991 UO ₂	1997 06 09.08403	15 38 12.79	-13 44 42.0		4 809
1990 QT ₁	1997 06 08.15417	15 31 35.65	-14 09 08.9		4 809	1991 UO ₂	1997 06 09.09722	15 38 12.03	-13 44 41.6		4 809
1990 QT ₁	1997 06 08.16736	15 31 34.94	-14 09 08.0		4 809	1991 VJ ₂	1997 06 07.11528	15 22 38.35	-13 24 53.9	18.2	4 809
1990 QT ₁	1997 06 09.07083	15 30 49.21	-14 07 38.7		4 809	1991 VJ ₂	1997 06 07.12847	15 22 37.61	-13 24 50.9		4 809
1990 QT ₁	1997 06 09.08403	15 30 48.50	-14 07 37.6		4 809	1991 VJ ₂	1997 06 07.14167	15 22 36.89	-13 24 47.5		4 809
1990 QT ₁	1997 06 09.09722	15 30 47.80	-14 07 36.9		4 809	1991 VJ ₂	1997 06 08.09722	15 21 47.49	-13 20 48.7		4 809
1990 QJ ₄	1997 06 07.04931	14 51 36.02	-11 44 20.9	18.3	4 809	1991 VJ ₂	1997 06 08.11042	15 21 46.75	-13 20 44.4		4 809
1990 QJ ₄	1997 06 07.06250	14 51 35.56	-11 44 20.6		4 809	1991 VJ ₂	1997 06 08.12361	15 21 46.08	-13 20 41.1		4 809
1990 QJ ₄	1997 06 07.07569	14 51 35.08	-11 44 19.0		4 809	1993 BQ ₄	1997 06 07.11528	15 26 43.51	-15 19 30.7	18.3	4 809
1990 QJ ₄	1997 06 08.05417	14 51 07.45	-11 43 15.3		4 809	1993 BQ ₄	1997 06 07.12847	15 26 42.91	-15 19 30.0		4 809
1990 QJ ₄	1997 06 08.06736	14 51 07.00	-11 43 14.7		4 809	1993 BQ ₄	1997 06 07.14167	15 26 42.27	-15 19 29.3		4 809
1990 QJ ₄	1997 06 08.08056	14 51 06.59	-11 43 14.0		4 809	1993 BQ ₄	1997 06 08.09722	15 26 01.83	-15 18 31.5		4 809
1990 UO ₁	1997 06 08.14097	15 40 40.08	-12 24 08.5	18.4	4 809	1993 BQ ₄	1997 06 08.11042	15 26 01.26	-15 18 30.9		4 809
1990 UO ₁	1997 06 08.15417	15 40 39.36	-12 24 08.7		4 809	1993 BQ ₄	1997 06 08.12361	15 26 00.67	-15 18 30.2		4 809
1990 UO ₁	1997 06 08.16736	15 40 38.75	-12 24 07.3		4 809	1993 CO ₁	1997 06 07.04931	14 55 06.47	-14 07 57.4	18.4	4 809
1990 UO ₁	1997 06 09.07083	15 39 55.41	-12 23 14.2		4 809	1993 CO ₁	1997 06 07.06250	14 55 05.96	-14 07 54.2		4 809
1990 UO ₁	1997 06 09.08403	15 39 54.77	-12 23 13.5		4 809	1993 CO ₁	1997 06 07.07569	14 55 05.51	-14 07 52.3		4 809
1990 UO ₁	1997 06 09.09722	15 39 54.10	-12 23 12.2		4 809	1993 CO ₁	1997 06 08.05417	14 54 33.24	-14 04 30.8		4 809
1991 EN ₂	1997 06 07.04931	14 56 08.90	-15 46 54.8	18.5	4 809	1993 CO ₁	1997 06 08.06736	14 54 32.77	-14 04 28.6		4 809
1991 EN ₂	1997 06 07.06250	14 56 08.42	-15 46 52.4		4 809	1993 CO ₁	1997 06 08.08056	14 54 32.31	-14 04 26.0		4 809
1991 EN ₂	1997 06 07.07569	14 56 07.88	-15 46 50.3		4 809	1993 DC ₁	1997 06 07.04931	14 59 46.38	-11 36 31.0	18.3	4 809
1991 EN ₂	1997 06 08.05417	14 55 34.92	-15 44 20.9		4 809	1993 DC ₁	1997 06 07.06250	14 59 45.92	-11 36 30.1		4 809
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1991 RS ₂	1997 06 07.11528	15 20 56.37	-12 42 39.1	18.3	4 809	1993 DC ₁	1997 06 08.06736	14 59 16.64	-11 36 48.1		4 809
1991 RS ₂	1997 06 07.12847	15 20 55.74	-12 42 35.6		4 809	1993 DC ₁	1997 06 08.08056	14 59 16.19	-11 36 49.1		4 809
1991 RS ₂	1997 06 07.14167	15 20 55.15	-12 42 32.5		4 809	1993 TK ₃	1997 06 07.04931	14 55 46.62	-13 37 29.2	18.7	4 809
1991 RS ₂	1997 06 08.09722	15 20 14.57	-12 38 44.0		4 809	1993 TK ₃	1997 06 07.06250	14 55 46.15	-13 37 28.8		4 809
1991 RS ₂	1997 06 08.11042	15 20 13.95	-12 38 40.7		4 809	1993 TK ₃	1997 06 07.07569	14 55 45.59	-13 37 27.7		4 809
1991 RS ₂	1997 06 08.12361	15 20 13.40	-12 38 38.0		4 809	1993 TK ₃	1997 06 08.05417	14 55 08.43	-13 35 50.8		4 809

1993 TK ₃	1997 06 08.06736	14 55 08.00	-13 35 48.6		4 809	1997 EC ₄₈	1997 03 12.21181	12 51 04.24	-08 19 32.5		4 809
1993 TK ₃	1997 06 08.08056	14 55 07.42	-13 35 48.7		4 809	1997 ED ₄₈	* 1997 03 11.24167	12 52 04.83	-10 57 00.3	18.5	4 809
1994 PJ ₁₀	1997 03 11.24167	12 53 41.38	-08 02 37.1	18.5	4 809	1997 ED ₄₈	1997 03 11.25486	12 52 04.35	-10 56 57.5		4 809
1994 PJ ₁₀	1997 03 11.25486	12 53 40.94	-08 02 34.4		4 809	1997 ED ₄₈	1997 03 11.26806	12 52 03.85	-10 56 54.0		4 809
1994 PJ ₁₀	1997 03 11.26806	12 53 40.33	-08 02 31.4		4 809	1997 ED ₄₈	1997 03 12.18542	12 51 32.47	-10 52 52.7		4 809
1994 PJ ₁₀	1997 03 12.18542	12 53 03.73	-07 59 07.1		4 809	1997 ED ₄₈	1997 03 12.19861	12 51 31.99	-10 52 49.3		4 809
1994 PJ ₁₀	1997 03 12.19861	12 53 03.11	-07 59 04.5		4 809	1997 ED ₄₈	1997 03 12.21181	12 51 31.44	-10 52 45.5		4 809
1994 PJ ₁₀	1997 03 12.21181	12 53 02.59	-07 59 01.3		4 809	1997 EE ₄₈	* 1997 03 11.24167	12 52 18.10	-11 55 37.0	18.7	4 809
1994 PB ₃₀	1997 03 11.24167	13 05 55.55	-11 37 36.2	18.5	4 809	1997 EE ₄₈	1997 03 11.25486	12 52 17.60	-11 55 33.1		4 809
1994 PB ₃₀	1997 03 11.25486	13 05 55.03	-11 37 32.6		4 809	1997 EE ₄₈	1997 03 11.26806	12 52 17.06	-11 55 28.3		4 809
1994 PB ₃₀	1997 03 11.26806	13 05 54.49	-11 37 30.0		4 809	1997 EE ₄₈	1997 03 12.18542	12 51 44.55	-11 50 16.5		4 809
1994 PB ₃₀	1997 03 12.18542	13 05 23.31	-11 33 44.9		4 809	1997 EE ₄₈	1997 03 12.19861	12 51 44.00	-11 50 10.7		4 809
1994 PB ₃₀	1997 03 12.19861	13 05 22.84	-11 33 41.6		4 809	1997 EE ₄₈	1997 03 12.21181	12 51 43.52	-11 50 07.1		4 809
1994 PB ₃₀	1997 03 12.21181	13 05 22.32	-11 33 38.6		4 809	1997 EF ₄₈	* 1997 03 11.24167	12 52 38.46	-10 26 06.3	18.6	4 809
1994 TZ ₁₄	1997 05 04.25278	16 10 40.29	-14 52 09.4	18.6	4 809	1997 EF ₄₈	1997 03 11.25486	12 52 37.80	-10 26 07.8		4 809
1994 TZ ₁₄	1997 05 04.26597	16 10 39.60	-14 52 05.8		4 809	1997 EF ₄₈	1997 03 11.26806	12 52 37.12	-10 26 08.9		4 809
1994 TZ ₁₄	1997 05 04.27917	16 10 38.94	-14 52 02.5		4 809	1997 EF ₄₈	1997 03 12.18542	12 51 57.90	-10 26 46.0		4 809
1994 TZ ₁₄	1997 06 09.07083	15 39 10.20	-12 45 01.3		4 809	1997 EF ₄₈	1997 03 12.19861	12 51 57.39	-10 26 46.9		4 809
1994 TZ ₁₄	1997 06 09.08403	15 39 09.56	-12 45 00.1		4 809	1997 EF ₄₈	1997 03 12.21181	12 51 56.67	-10 26 47.9		4 809
1994 TZ ₁₄	1997 06 09.09722	15 39 08.98	-12 44 57.7		4 809	1997 EG ₄₈	* 1997 03 11.24167	12 54 12.77	-09 10 07.7	18.5	4 809
1995 XP ₄	1997 06 08.14097	15 36 50.70	-12 53 31.1	18.2	4 809	1997 EG ₄₈	1997 03 11.25486	12 54 12.13	-09 10 03.4		4 809
1995 XP ₄	1997 06 08.15417	15 36 50.11	-12 53 28.5		4 809	1997 EG ₄₈	1997 03 11.26806	12 54 11.55	-09 09 59.6		4 809
1995 XP ₄	1997 06 08.16736	15 36 49.46	-12 53 25.7		4 809	1997 EG ₄₈	1997 03 12.18542	12 53 30.82	-09 04 55.7		4 809
1995 XP ₄	1997 06 09.07083	15 36 10.41	-12 50 46.6		4 809	1997 EG ₄₈	1997 03 12.19861	12 53 30.20	-09 04 51.1		4 809
1995 XP ₄	1997 06 09.08403	15 36 09.78	-12 50 44.0		4 809	1997 EG ₄₈	1997 03 12.21181	12 53 29.52	-09 04 46.9		4 809
1995 XP ₄	1997 06 09.09722	15 36 09.19	-12 50 41.4		4 809	1997 EH ₄₈	* 1997 03 11.24167	12 54 21.38	-07 46 12.9	18.5	4 809
1996 PW ₉	1996 09 08.09236	21 16 26.02	-17 48 38.9	18.5	4 809	1997 EH ₄₈	1997 03 11.25486	12 54 20.68	-07 46 14.9		4 809
1996 PW ₉	1996 09 08.10556	21 16 25.49	-17 48 42.6		4 809	1997 EH ₄₈	1997 03 11.26806	12 54 20.07	-07 46 16.7		4 809
1996 PW ₉	1996 09 08.11875	21 16 25.02	-17 48 43.6		4 809	1997 EH ₄₈	1997 03 12.18542	12 53 35.25	-07 48 28.5		4 809
1997 BA ₁	1997 03 11.24167	12 56 53.02	-11 25 10.8	18.5	4 809	1997 EH ₄₈	1997 03 12.19861	12 53 34.56	-07 48 30.9		4 809
1997 BA ₁	1997 03 11.25486	12 56 52.38	-11 25 12.0		4 809	1997 EH ₄₈	1997 03 12.21181	12 53 33.82	-07 48 32.5		4 809
1997 BA ₁	1997 03 11.26806	12 56 51.70	-11 25 13.7		4 809	1997 EJ ₄₈	* 1997 03 11.24167	12 55 23.67	-11 02 15.3	18.5	4 809
1997 BA ₁	1997 03 12.18542	12 56 06.94	-11 26 38.8		4 809	1997 EJ ₄₈	1997 03 11.25486	12 55 23.11	-11 02 11.9		4 809
1997 BA ₁	1997 03 12.19861	12 56 06.28	-11 26 39.9		4 809	1997 EJ ₄₈	1997 03 11.26806	12 55 22.61	-11 02 09.9		4 809
1997 BA ₁	1997 03 12.21181	12 56 05.56	-11 26 41.2		4 809	1997 EJ ₄₈	1997 03 12.18542	12 54 48.12	-10 58 41.2		4 809
1997 EA ₄₈	* 1997 03 11.24167	12 51 13.21	-09 20 37.4	18.5	4 809	1997 EJ ₄₈	1997 03 12.19861	12 54 47.55	-10 58 37.5		4 809
1997 EA ₄₈	1997 03 11.25486	12 51 12.68	-09 20 36.7		4 809	1997 EJ ₄₈	1997 03 12.21181	12 54 47.04	-10 58 34.6		4 809
1997 EA ₄₈	1997 03 11.26806	12 51 12.21	-09 20 35.7		4 809	1997 EK ₄₈	* 1997 03 11.24167	12 55 29.65	-11 01 17.7	18.0	4 809
1997 EA ₄₈	1997 03 12.18542	12 50 37.96	-09 19 37.1		4 809	1997 EK ₄₈	1997 03 11.25486	12 55 29.27	-11 01 06.8		4 809
1997 EA ₄₈	1997 03 12.19861	12 50 37.41	-09 19 36.4		4 809	1997 EK ₄₈	1997 03 11.26806	12 55 28.88	-11 00 55.4		4 809
1997 EA ₄₈	1997 03 12.21181	12 50 36.88	-09 19 35.7		4 809	1997 EK ₄₈	1997 03 12.18542	12 55 03.88	-10 47 28.1		4 809
1997 EB ₄₈	* 1997 03 11.24167	12 51 13.36	-10 05 23.1	18.3	4 809	1997 EK ₄₈	1997 03 12.19861	12 55 03.49	-10 47 18.0		4 809
1997 EB ₄₈	1997 03 11.25486	12 51 12.65	-10 05 23.6		4 809	1997 EK ₄₈	1997 03 12.21181	12 55 03.06	-10 47 06.5		4 809
1997 EB ₄₈	1997 03 11.26806	12 51 11.92	-10 05 24.3		4 809	1997 EL ₄₈	* 1997 03 11.24167	12 55 32.24	-12 33 28.2	18.5	4 809
1997 EB ₄₈	1997 03 12.18542	12 50 23.04	-10 06 09.1		4 809	1997 EL ₄₈	1997 03 11.25486	12 55 31.81	-12 33 25.2		4 809
1997 EB ₄₈	1997 03 12.19861	12 50 22.29	-10 06 10.0		4 809	1997 EL ₄₈	1997 03 11.26806	12 55 31.32	-12 33 21.4		4 809
1997 EB ₄₈	1997 03 12.21181	12 50 21.54	-10 06 09.9		4 809	1997 EL ₄₈	1997 03 12.18542	12 55 01.90	-12 28 42.0		4 809
1997 EC ₄₈	* 1997 03 11.24167	12 51 46.53	-08 20 00.2	18.3	4 809	1997 EL ₄₈	1997 03 12.19861	12 55 01.43	-12 28 38.3		4 809
1997 EC ₄₈	1997 03 11.25486	12 51 45.94	-08 20 00.0		4 809	1997 EL ₄₈	1997 03 12.21181	12 55 01.01	-12 28 34.5		4 809
1997 EC ₄₈	1997 03 11.26806	12 51 45.28	-08 19 59.7		4 809	1997 EM ₄₈	* 1997 03 11.24167	12 55 54.65	-10 04 36.0	18.4	4 809
1997 EC ₄₈	1997 03 12.18542	12 51 05.44	-08 19 33.3		4 809	1997 EM ₄₈	1997 03 11.25486	12 55 54.28	-10 04 32.3		4 809
1997 EC ₄₈	1997 03 12.19861	12 51 04.82	-08 19 33.2		4 809	1997 EM ₄₈	1997 03 11.26806	12 55 53.92	-10 04 28.1		4 809

1997 EM ₄₈	1997 03 12.18542	12 55 32.64	−09 59 55.8	4 809	1997 EW ₄₈	1997 03 11.25486	12 58 43.81	−08 00 21.4	4 809
1997 EM ₄₈	1997 03 12.19861	12 55 32.30	−09 59 51.6	4 809	1997 EW ₄₈	1997 03 11.26806	12 58 43.25	−08 00 18.7	4 809
1997 EM ₄₈	1997 03 12.21181	12 55 31.94	−09 59 47.2	4 809	1997 EW ₄₈	1997 03 12.18542	12 58 09.15	−07 56 43.5	4 809
1997 EN ₄₈	* 1997 03 11.24167	12 56 06.25	−09 48 47.0	18.5 4 809	1997 EW ₄₈	1997 03 12.19861	12 58 08.64	−07 56 40.6	4 809
1997 EN ₄₈	1997 03 11.25486	12 56 05.61	−09 48 47.5	4 809	1997 EW ₄₈	1997 03 12.21181	12 58 08.08	−07 56 37.1	4 809
1997 EN ₄₈	1997 03 11.26806	12 56 04.95	−09 48 47.1	4 809	1997 EX ₄₈	* 1997 03 11.24167	12 58 46.90	−09 40 11.3	18.5 4 809
1997 EN ₄₈	1997 03 12.18542	12 55 22.90	−09 48 13.8	4 809	1997 EX ₄₈	1997 03 11.25486	12 58 46.39	−09 40 10.9	4 809
1997 EN ₄₈	1997 03 12.19861	12 55 22.17	−09 48 13.6	4 809	1997 EX ₄₈	1997 03 11.26806	12 58 45.78	−09 40 11.1	4 809
1997 EN ₄₈	1997 03 12.21181	12 55 21.53	−09 48 13.2	4 809	1997 EX ₄₈	1997 03 12.18542	12 58 10.95	−09 39 05.2	4 809
1997 EO ₄₈	* 1997 03 11.24167	12 56 09.61	−10 32 32.2	18.4 4 809	1997 EX ₄₈	1997 03 12.19861	12 58 10.42	−09 39 04.7	4 809
1997 EO ₄₈	1997 03 11.25486	12 56 09.12	−10 32 28.8	4 809	1997 EX ₄₈	1997 03 12.21181	12 58 09.87	−09 39 03.0	4 809
1997 EO ₄₈	1997 03 11.26806	12 56 08.60	−10 32 24.5	4 809	1997 EY ₄₈	* 1997 03 11.24167	12 59 03.94	−10 11 49.5	18.4 4 809
1997 EO ₄₈	1997 03 12.18542	12 55 35.92	−10 27 25.0	4 809	1997 EY ₄₈	1997 03 11.25486	12 59 03.41	−10 11 43.3	4 809
1997 EO ₄₈	1997 03 12.19861	12 55 35.37	−10 27 21.0	4 809	1997 EY ₄₈	1997 03 11.26806	12 59 03.00	−10 11 38.3	4 809
1997 EO ₄₈	1997 03 12.21181	12 55 34.78	−10 27 16.3	4 809	1997 EY ₄₈	1997 03 12.18542	12 58 33.39	−10 05 28.2	4 809
1997 EP ₄₈	* 1997 03 11.24167	12 56 18.52	−09 48 16.2	18.3 4 809	1997 EY ₄₈	1997 03 12.19861	12 58 32.89	−10 05 22.9	4 809
1997 EP ₄₈	1997 03 11.25486	12 56 17.99	−09 48 10.9	4 809	1997 EY ₄₈	1997 03 12.21181	12 58 32.37	−10 05 17.4	4 809
1997 EP ₄₈	1997 03 11.26806	12 56 18.00	−09 48 10.5	4 809	1997 EZ ₄₈	* 1997 03 11.24167	12 59 06.35	−07 49 54.6	18.7 4 809
1997 EP ₄₈	1997 03 12.18542	12 55 44.43	−09 41 52.7	4 809	1997 EZ ₄₈	1997 03 11.25486	12 59 05.71	−07 49 56.1	4 809
1997 EP ₄₈	1997 03 12.19861	12 55 43.93	−09 41 46.9	4 809	1997 EZ ₄₈	1997 03 11.26806	12 59 05.12	−07 49 55.6	4 809
1997 EP ₄₈	1997 03 12.21181	12 55 43.36	−09 41 41.4	4 809	1997 EZ ₄₈	1997 03 12.18542	12 58 21.77	−07 51 19.7	4 809
1997 EQ ₄₈	* 1997 03 11.24167	12 56 20.18	−08 59 36.4	18.4 4 809	1997 EZ ₄₈	1997 03 12.19861	12 58 21.14	−07 51 20.1	4 809
1997 EQ ₄₈	1997 03 11.25486	12 56 19.56	−08 59 35.4	4 809	1997 EZ ₄₈	1997 03 12.21181	12 58 20.39	−07 51 22.2	4 809
1997 EQ ₄₈	1997 03 11.26806	12 56 18.93	−08 59 33.9	4 809	1997 EA ₄₉	* 1997 03 11.24167	12 59 24.90	−11 45 37.7	18.7 4 809
1997 EQ ₄₈	1997 03 12.18542	12 55 37.29	−08 58 28.4	4 809	1997 EA ₄₉	1997 03 11.25486	12 59 24.38	−11 45 35.1	4 809
1997 EQ ₄₈	1997 03 12.19861	12 55 36.66	−08 58 27.6	4 809	1997 EA ₄₉	1997 03 11.26806	12 59 23.84	−11 45 32.1	4 809
1997 EQ ₄₈	1997 03 12.21181	12 55 36.03	−08 58 25.9	4 809	1997 EA ₄₉	1997 03 12.18542	12 58 47.23	−11 42 37.9	4 809
1997 ER ₄₈	* 1997 03 11.24167	12 56 29.95	−11 35 35.9	18.5 4 809	1997 EA ₄₉	1997 03 12.19861	12 58 46.59	−11 42 35.6	4 809
1997 ER ₄₈	1997 03 11.25486	12 56 29.41	−11 35 33.6	4 809	1997 EA ₄₉	1997 03 12.21181	12 58 46.01	−11 42 33.1	4 809
1997 ER ₄₈	1997 03 11.26806	12 56 28.91	−11 35 30.6	4 809	1997 EB ₄₉	* 1997 03 11.24167	12 59 34.14	−08 02 27.4	18.5 4 809
1997 ER ₄₈	1997 03 12.18542	12 55 56.17	−11 31 58.0	4 809	1997 EB ₄₉	1997 03 11.25486	12 59 33.70	−08 02 21.7	4 809
1997 ER ₄₈	1997 03 12.19861	12 55 55.65	−11 31 54.4	4 809	1997 EB ₄₉	1997 03 11.26806	12 59 33.27	−08 02 17.6	4 809
1997 ER ₄₈	1997 03 12.21181	12 55 55.06	−11 31 52.3	4 809	1997 EB ₄₉	1997 03 12.18542	12 59 05.53	−07 56 31.7	4 809
1997 ET ₄₈	* 1997 03 11.24167	12 57 23.75	−09 06 21.2	18.5 4 809	1997 EB ₄₉	1997 03 12.19861	12 59 05.14	−07 56 25.7	4 809
1997 ET ₄₈	1997 03 11.25486	12 57 23.06	−09 06 22.0	4 809	1997 EB ₄₉	1997 03 12.21181	12 59 04.72	−07 56 20.4	4 809
1997 ET ₄₈	1997 03 11.26806	12 57 22.40	−09 06 22.7	4 809	1997 EC ₄₉	* 1997 03 11.24167	12 59 56.44	−09 27 28.0	18.5 4 809
1997 ET ₄₈	1997 03 12.18542	12 56 41.49	−09 06 09.3	4 809	1997 EC ₄₉	1997 03 11.25486	12 59 55.91	−09 27 28.3	4 809
1997 ET ₄₈	1997 03 12.19861	12 56 40.89	−09 06 09.0	4 809	1997 EC ₄₉	1997 03 11.26806	12 59 55.39	−09 27 27.1	4 809
1997 ET ₄₈	1997 03 12.21181	12 56 40.20	−09 06 08.3	4 809	1997 EC ₄₉	1997 03 12.18542	12 59 22.83	−09 26 45.5	4 809
1997 EU ₄₈	* 1997 03 11.24167	12 57 26.24	−08 16 14.7	18.5 4 809	1997 EC ₄₉	1997 03 12.19861	12 59 22.32	−09 26 45.2	4 809
1997 EU ₄₈	1997 03 11.25486	12 57 25.74	−08 16 13.9	4 809	1997 EC ₄₉	1997 03 12.21181	12 59 21.67	−09 26 44.4	4 809
1997 EU ₄₈	1997 03 11.26806	12 57 25.18	−08 16 12.7	4 809	1997 ED ₄₉	* 1997 03 11.24167	13 01 03.39	−09 27 35.8	18.5 4 809
1997 EU ₄₈	1997 03 12.18542	12 56 47.81	−08 15 24.5	4 809	1997 ED ₄₉	1997 03 11.25486	13 01 02.93	−09 27 35.4	4 809
1997 EU ₄₈	1997 03 12.19861	12 56 47.24	−08 15 23.4	4 809	1997 ED ₄₉	1997 03 11.26806	13 01 02.43	−09 27 33.1	4 809
1997 EU ₄₈	1997 03 12.21181	12 56 46.69	−08 15 22.4	4 809	1997 ED ₄₉	1997 03 12.18542	13 00 31.38	−09 25 26.9	4 809
1997 EV ₄₈	* 1997 03 11.24167	12 58 44.11	−12 09 14.7	18.4 4 809	1997 ED ₄₉	1997 03 12.19861	13 00 30.88	−09 25 23.9	4 809
1997 EV ₄₈	1997 03 11.25486	12 58 43.56	−12 09 13.8	4 809	1997 ED ₄₉	1997 03 12.21181	13 00 30.40	−09 25 22.8	4 809
1997 EV ₄₈	1997 03 11.26806	12 58 43.07	−12 09 11.8	4 809	1997 EE ₄₉	* 1997 03 11.24167	13 01 46.54	−12 12 10.2	18.5 4 809
1997 EV ₄₈	1997 03 12.18542	12 58 08.82	−12 07 16.8	4 809	1997 EE ₄₉	1997 03 11.25486	13 01 45.99	−12 12 11.2	4 809
1997 EV ₄₈	1997 03 12.19861	12 58 08.26	−12 07 15.3	4 809	1997 EE ₄₉	1997 03 11.26806	13 01 45.43	−12 12 11.3	4 809
1997 EV ₄₈	1997 03 12.21181	12 58 07.69	−12 07 13.8	4 809	1997 EE ₄₉	1997 03 12.18542	13 01 11.45	−12 12 40.2	4 809
1997 EW ₄₈	* 1997 03 11.24167	12 58 44.30	−08 00 25.0	18.4 4 809	1997 EE ₄₉	1997 03 12.19861	13 01 10.91	−12 12 40.8	4 809

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1997 EE ₄₉	1997 03 12.21181	13 01 10.39	-12 12 40.8		4 809	1997 EO ₄₉	1997 03 12.18542	13 08 08.20	-10 38 08.7		4 809
1997 EF ₄₉	* 1997 03 11.24167	13 01 55.55	-08 30 00.9	18.4	4 809	1997 EO ₄₉	1997 03 12.19861	13 08 07.64	-10 38 04.3		4 809
1997 EF ₄₉	1997 03 11.25486	13 01 54.93	-08 30 02.0		4 809	1997 EO ₄₉	1997 03 12.21181	13 08 07.03	-10 38 00.9		4 809
1997 EF ₄₉	1997 03 11.26806	13 01 54.24	-08 30 04.2		4 809	1997 EP ₄₉	* 1997 03 11.24167	13 09 49.45	-11 22 04.1	18.5	4 809
1997 EF ₄₉	1997 03 12.18542	13 01 11.38	-08 31 57.6		4 809	1997 EP ₄₉	1997 03 11.25486	13 09 49.09	-11 22 01.2		4 809
1997 EF ₄₉	1997 03 12.19861	13 01 10.72	-08 31 59.4		4 809	1997 EP ₄₉	1997 03 11.26806	13 09 48.71	-11 21 57.9		4 809
1997 EF ₄₉	1997 03 12.21181	13 01 10.04	-08 32 01.0		4 809	1997 EP ₄₉	1997 03 12.18542	13 09 26.02	-11 19 02.5		4 809
1997 EG ₄₉	* 1997 03 11.24167	13 02 23.97	-09 24 08.1	18.7	4 809	1997 EP ₄₉	1997 03 12.19861	13 09 25.62	-11 18 59.7		4 809
1997 EG ₄₉	1997 03 11.25486	13 02 23.48	-09 24 06.3		4 809	1997 EP ₄₉	1997 03 12.21181	13 09 25.25	-11 18 57.2		4 809
1997 EG ₄₉	1997 03 11.26806	13 02 22.92	-09 24 02.4		4 809	1997 EQ ₄₉	* 1997 03 11.24167	13 11 19.06	-11 19 45.3	18.5	4 809
1997 EG ₄₉	1997 03 12.18542	13 01 47.42	-09 20 43.8		4 809	1997 EQ ₄₉	1997 03 11.25486	13 11 18.57	-11 19 43.3		4 809
1997 EG ₄₉	1997 03 12.19861	13 01 46.85	-09 20 40.0		4 809	1997 EQ ₄₉	1997 03 11.26806	13 11 18.09	-11 19 40.7		4 809
1997 EG ₄₉	1997 03 12.21181	13 01 46.40	-09 20 36.7		4 809	1997 EQ ₄₉	1997 03 12.18542	13 10 49.47	-11 16 27.8		4 809
1997 EH ₄₉	* 1997 03 11.24167	13 03 13.26	-08 39 59.4	18.6	4 809	1997 EQ ₄₉	1997 03 12.19861	13 10 49.06	-11 16 25.1		4 809
1997 EH ₄₉	1997 03 11.25486	13 03 12.86	-08 39 57.3		4 809	1997 EQ ₄₉	1997 03 12.21181	13 10 48.57	-11 16 21.7		4 809
1997 EH ₄₉	1997 03 11.26806	13 03 12.31	-08 39 55.7		4 809	1997 FU ₃	1997 03 11.24167	13 08 23.92	-11 18 39.1	18.6	4 809
1997 EH ₄₉	1997 03 12.18542	13 02 37.61	-08 37 35.9		4 809	1997 FU ₃	1997 03 11.25486	13 08 23.47	-11 18 37.9		4 809
1997 EH ₄₉	1997 03 12.19861	13 02 37.04	-08 37 34.3		4 809	1997 FU ₃	1997 03 11.26806	13 08 22.98	-11 18 36.0		4 809
1997 EH ₄₉	1997 03 12.21181	13 02 36.47	-08 37 31.7		4 809	1997 FU ₃	1997 03 12.18542	13 07 51.76	-11 16 13.1		4 809
1997 EJ ₄₉	* 1997 03 11.24167	13 04 54.42	-08 59 54.5	18.5	4 809	1997 FU ₃	1997 03 12.19861	13 07 51.27	-11 16 11.7		4 809
1997 EJ ₄₉	1997 03 11.25486	13 04 53.95	-08 59 49.9		4 809	1997 FU ₃	1997 03 12.21181	13 07 50.79	-11 16 08.9		4 809
1997 EJ ₄₉	1997 03 11.26806	13 04 53.26	-08 59 46.8		4 809	1997 FQ ₄	1997 03 11.24167	13 06 12.40	-12 23 06.4	18.4	4 809
1997 EJ ₄₉	1997 03 12.18542	13 04 18.14	-08 55 31.5		4 809	1997 FQ ₄	1997 03 11.25486	13 06 11.90	-12 23 04.5		4 809
1997 EJ ₄₉	1997 03 12.19861	13 04 17.67	-08 55 28.4		4 809	1997 FQ ₄	1997 03 11.26806	13 06 11.45	-12 23 02.6		4 809
1997 EJ ₄₉	1997 03 12.21181	13 04 17.14	-08 55 25.2		4 809	1997 FQ ₄	1997 03 12.18542	13 05 42.91	-12 20 37.2		4 809
1997 EK ₄₉	* 1997 03 11.24167	13 05 11.50	-11 58 13.2	18.4	4 809	1997 FQ ₄	1997 03 12.19861	13 05 42.49	-12 20 35.3		4 809
1997 EK ₄₉	1997 03 11.25486	13 05 10.96	-11 58 10.5		4 809	1997 FQ ₄	1997 03 12.21181	13 05 42.05	-12 20 32.7		4 809
1997 EK ₄₉	1997 03 11.26806	13 05 10.40	-11 58 08.9		4 809	1997 GY ₈	1997 03 11.24167	13 08 26.44	-08 46 11.3	18.8	4 809
1997 EK ₄₉	1997 03 12.18542	13 04 34.06	-11 55 23.0		4 809	1997 GY ₈	1997 03 11.25486	13 08 25.94	-08 46 07.9		4 809
1997 EK ₄₉	1997 03 12.19861	13 04 33.50	-11 55 19.9		4 809	1997 GY ₈	1997 03 11.26806	13 08 25.41	-08 46 04.3		4 809
1997 EK ₄₉	1997 03 12.21181	13 04 32.86	-11 55 18.0		4 809	1997 GY ₈	1997 03 12.18542	13 07 54.10	-08 42 19.6		4 809
1997 EL ₄₉	* 1997 03 11.24167	13 06 09.92	-11 45 46.0	18.8	4 809	1997 GY ₈	1997 03 12.19861	13 07 53.60	-08 42 15.6		4 809
1997 EL ₄₉	1997 03 11.25486	13 06 09.42	-11 45 47.0		4 809	1997 GY ₈	1997 03 12.21181	13 07 53.07	-08 42 13.0		4 809
1997 EL ₄₉	1997 03 11.26806	13 06 08.83	-11 45 47.0		4 809	1997 HO ₂	1997 06 07.04931	14 57 05.76	-14 40 45.7	18.5	4 809
1997 EL ₄₉	1997 03 12.18542	13 05 34.00	-11 45 12.5		4 809	1997 HO ₂	1997 06 07.06250	14 57 05.46	-14 40 43.8		4 809
1997 EL ₄₉	1997 03 12.19861	13 05 33.44	-11 45 12.5		4 809	1997 HO ₂	1997 06 07.07569	14 57 04.98	-14 40 42.7		4 809
1997 EL ₄₉	1997 03 12.21181	13 05 32.88	-11 45 11.5		4 809	1997 HP ₂	1997 06 07.04931	14 54 19.79	-14 45 08.4	18.5	4 809
1997 EM ₄₉	* 1997 03 11.24167	13 06 24.01	-10 00 32.2	18.7	4 809	1997 HP ₂	1997 06 07.06250	14 54 19.26	-14 45 06.5		4 809
1997 EM ₄₉	1997 03 11.25486	13 06 23.35	-10 00 28.4		4 809	1997 HP ₂	1997 06 07.07569	14 54 18.78	-14 45 05.5		4 809
1997 EM ₄₉	1997 03 11.26806	13 06 22.81	-10 00 26.5		4 809	1997 HP ₂	1997 06 08.05417	14 53 49.29	-14 43 04.9		4 809
1997 EM ₄₉	1997 03 12.18542	13 05 43.54	-09 56 16.7		4 809	1997 HP ₂	1997 06 08.06736	14 53 48.88	-14 43 03.1		4 809
1997 EM ₄₉	1997 03 12.19861	13 05 42.97	-09 56 13.4		4 809	1997 HP ₂	1997 06 08.08056	14 53 48.41	-14 43 02.0		4 809
1997 EM ₄₉	1997 03 12.21181	13 05 42.41	-09 56 10.7		4 809	1997 HR ₂	1997 06 07.04931	15 02 11.40	-11 37 04.6	18.7	4 809
1997 EN ₄₉	* 1997 03 11.24167	13 07 38.56	-10 51 05.1	18.7	4 809	1997 HR ₂	1997 06 07.06250	15 02 10.84	-11 37 04.2		4 809
1997 EN ₄₉	1997 03 11.25486	13 07 38.04	-10 51 02.4		4 809	1997 HR ₂	1997 06 07.07569	15 02 10.32	-11 37 04.0		4 809
1997 EN ₄₉	1997 03 11.26806	13 07 37.60	-10 51 00.9		4 809	1997 HR ₂	1997 06 08.05417	15 01 32.62	-11 36 24.7		4 809
1997 EN ₄₉	1997 03 12.18542	13 07 07.81	-10 47 57.7		4 809	1997 HR ₂	1997 06 08.06736	15 01 32.07	-11 36 23.5		4 809
1997 EN ₄₉	1997 03 12.19861	13 07 07.25	-10 47 55.2		4 809	1997 HR ₂	1997 06 08.08056	15 01 31.48	-11 36 22.4		4 809
1997 EN ₄₉	1997 03 12.21181	13 07 06.69	-10 47 51.9		4 809	1997 HQ ₃	1997 06 07.04931	15 00 00.77	-14 19 47.6	18.5	4 809
1997 EO ₄₉	* 1997 03 11.24167	13 08 47.32	-10 42 28.2	18.6	4 809	1997 HQ ₃	1997 06 07.06250	15 00 00.29	-14 19 50.1		4 809
1997 EO ₄₉	1997 03 11.25486	13 08 46.76	-10 42 25.4		4 809	1997 HQ ₃	1997 06 07.07569	14 59 59.71	-14 19 51.7		4 809
1997 EO ₄₉	1997 03 11.26806	13 08 46.19	-10 42 21.5		4 809	1997 HQ ₃	1997 06 08.05417	14 59 22.06	-14 22 12.6		4 809

1997 HQ ₃	1997 06 08.06736	14 59 21.50	-14 22 14.3		4 809	1997 JA ₈	1997 06 07.07569	15 00 08.35	-14 47 10.2		4 809
1997 HQ ₃	1997 06 08.08056	14 59 20.97	-14 22 16.9		4 809	1997 JA ₈	1997 06 08.05417	14 59 28.52	-14 44 16.5		4 809
1997 HS ₃	1997 06 07.04931	15 02 49.22	-12 06 26.4	18.8	4 809	1997 JA ₈	1997 06 08.06736	14 59 28.03	-14 44 13.9		4 809
1997 HS ₃	1997 06 07.06250	15 02 48.70	-12 06 25.6		4 809	1997 JA ₈	1997 06 08.08056	14 59 27.41	-14 44 10.1		4 809
1997 HS ₃	1997 06 07.07569	15 02 48.23	-12 06 24.0		4 809	1997 JB ₈	1997 06 07.04931	15 00 02.08	-13 07 23.8	18.3	4 809
1997 HS ₃	1997 06 08.05417	15 02 16.09	-12 05 06.8		4 809	1997 JB ₈	1997 06 07.06250	15 00 01.52	-13 07 18.9		4 809
1997 HS ₃	1997 06 08.06736	15 02 15.64	-12 05 05.5		4 809	1997 JB ₈	1997 06 07.07569	15 00 00.94	-13 07 15.0		4 809
1997 HS ₃	1997 06 08.08056	15 02 15.22	-12 05 04.6		4 809	1997 JB ₈	1997 06 08.05417	14 59 23.30	-13 02 04.0		4 809
1997 HX ₃	1997 06 07.04931	15 11 09.16	-14 27 25.1	18.4	4 809	1997 JB ₈	1997 06 08.06736	14 59 22.81	-13 02 00.0		4 809
1997 HX ₃	1997 06 07.06250	15 11 08.60	-14 27 27.0		4 809	1997 JB ₈	1997 06 08.08056	14 59 22.26	-13 01 56.1		4 809
1997 HX ₃	1997 06 07.07569	15 11 08.01	-14 27 27.9		4 809	1997 JE ₁₀	1997 06 07.11528	15 21 29.28	-13 41 38.8	18.3	4 809
1997 HX ₃	1997 06 07.11528	15 11 06.46	-14 27 32.0	18.4	4 809	1997 JE ₁₀	1997 06 07.12847	15 21 28.67	-13 41 39.8		4 809
1997 HX ₃	1997 06 07.12847	15 11 05.78	-14 27 34.7		4 809	1997 JE ₁₀	1997 06 07.14167	15 21 28.13	-13 41 40.8		4 809
1997 HX ₃	1997 06 07.14167	15 11 05.11	-14 27 35.4		4 809	1997 JE ₁₀	1997 06 08.09722	15 20 47.90	-13 43 10.2		4 809
1997 HX ₃	1997 06 08.05417	15 10 24.59	-14 29 48.2		4 809	1997 JE ₁₀	1997 06 08.11042	15 20 47.37	-13 43 11.5		4 809
1997 HX ₃	1997 06 08.06736	15 10 24.05	-14 29 50.4		4 809	1997 JE ₁₀	1997 06 08.12361	15 20 46.77	-13 43 13.1		4 809
1997 HX ₃	1997 06 08.08056	15 10 23.43	-14 29 51.5		4 809	1997 JF ₁₀	1997 06 07.04931	15 04 42.58	-15 03 44.6	18.5	4 809
1997 HX ₃	1997 06 08.09722	15 10 23.11	-14 29 52.5		4 809	1997 JF ₁₀	1997 06 07.06250	15 04 42.12	-15 03 41.4		4 809
1997 HX ₃	1997 06 08.11042	15 10 22.48	-14 29 54.8		4 809	1997 JF ₁₀	1997 06 07.07569	15 04 41.63	-15 03 39.7		4 809
1997 HX ₃	1997 06 08.12361	15 10 21.86	-14 29 55.9		4 809	1997 JF ₁₀	1997 06 08.05417	15 04 06.91	-15 01 01.7		4 809
1997 HC ₁₇	1997 06 07.11528	15 16 10.59	-11 12 21.1	18.6	4 809	1997 JF ₁₀	1997 06 08.06736	15 04 06.38	-15 00 58.8		4 809
1997 HC ₁₇	1997 06 07.12847	15 16 10.05	-11 12 19.6		4 809	1997 JF ₁₀	1997 06 08.08056	15 04 05.91	-15 00 56.8		4 809
1997 HC ₁₇	1997 06 07.14167	15 16 09.55	-11 12 17.7		4 809	1997 JH ₁₀	1997 06 07.04931	15 04 06.49	-14 44 40.8	18.4	4 809
1997 HC ₁₇	1997 06 08.09722	15 15 37.84	-11 10 35.6		4 809	1997 JH ₁₀	1997 06 07.06250	15 04 05.98	-14 44 39.1		4 809
1997 HC ₁₇	1997 06 08.11042	15 15 37.39	-11 10 32.7		4 809	1997 JH ₁₀	1997 06 07.07569	15 04 05.42	-14 44 36.7		4 809
1997 HC ₁₇	1997 06 08.12361	15 15 36.84	-11 10 31.8		4 809	1997 JH ₁₀	1997 06 08.05417	15 03 31.70	-14 41 52.3		4 809
1997 JL	1997 06 07.04931	14 56 49.20	-11 26 15.2	18.5	4 809	1997 JH ₁₀	1997 06 08.06736	15 03 31.30	-14 41 51.0		4 809
1997 JL	1997 06 07.06250	14 56 48.67	-11 26 15.4		4 809	1997 JH ₁₀	1997 06 08.08056	15 03 30.78	-14 41 49.2		4 809
1997 JL	1997 06 07.07569	14 56 48.11	-11 26 14.7		4 809	1997 JM ₁₄	1997 06 07.04931	14 53 39.78	-13 04 44.4	18.3	4 809
1997 JL	1997 06 08.05417	14 56 14.39	-11 25 40.0		4 809	1997 JM ₁₄	1997 06 07.06250	14 53 39.28	-13 04 40.6		4 809
1997 JL	1997 06 08.06736	14 56 13.96	-11 25 38.9		4 809	1997 JM ₁₄	1997 06 07.07569	14 53 38.99	-13 04 39.4		4 809
1997 JL	1997 06 08.08056	14 56 13.50	-11 25 39.0		4 809	1997 JM ₁₄	1997 06 08.05417	14 53 10.63	-13 01 30.0		4 809
1997 JN	1997 06 07.04931	15 05 36.88	-11 25 38.9	18.7	4 809	1997 JM ₁₄	1997 06 08.06736	14 53 10.22	-13 01 27.3		4 809
1997 JN	1997 06 07.06250	15 05 36.23	-11 25 38.0		4 809	1997 JM ₁₄	1997 06 08.08056	14 53 09.82	-13 01 24.9		4 809
1997 JN	1997 06 07.07569	15 05 35.55	-11 25 37.4		4 809	1997 JO ₁₄	1997 06 07.04931	14 50 15.17	-12 16 32.7	18.4	4 809
1997 JN	1997 06 08.05417	15 04 52.42	-11 24 40.2		4 809	1997 JO ₁₄	1997 06 07.06250	14 50 14.61	-12 16 33.5		4 809
1997 JN	1997 06 08.06736	15 04 51.75	-11 24 41.3		4 809	1997 JO ₁₄	1997 06 07.07569	14 50 14.11	-12 16 33.2		4 809
1997 JN	1997 06 08.08056	15 04 51.13	-11 24 40.8		4 809	1997 JO ₁₄	1997 06 08.05417	14 49 40.00	-12 16 46.6		4 809
1997 JT ₃	1997 06 07.04931	14 55 08.90	-15 41 01.5	18.5	4 809	1997 JO ₁₄	1997 06 08.06736	14 49 39.57	-12 16 47.0		4 809
1997 JT ₃	1997 06 07.06250	14 55 08.25	-15 41 01.2		4 809	1997 JO ₁₄	1997 06 08.08056	14 49 39.07	-12 16 47.2		4 809
1997 JT ₃	1997 06 07.07569	14 55 07.68	-15 40 59.6		4 809	1997 JQ ₁₄	1997 06 07.04931	14 54 58.84	-12 23 30.8	18.4	4 809
1997 JT ₃	1997 06 08.05417	14 54 26.82	-15 39 58.8		4 809	1997 JQ ₁₄	1997 06 07.06250	14 54 58.47	-12 23 29.1		4 809
1997 JT ₃	1997 06 08.06736	14 54 26.28	-15 39 58.0		4 809	1997 JQ ₁₄	1997 06 07.07569	14 54 58.03	-12 23 27.0		4 809
1997 JT ₃	1997 06 08.08056	14 54 25.64	-15 39 56.6		4 809	1997 JQ ₁₄	1997 06 08.05417	14 54 33.06	-12 21 16.3		4 809
1997 JH ₆	1997 06 07.04931	15 10 45.46	-11 41 19.4	18.4	4 809	1997 JQ ₁₄	1997 06 08.06736	14 54 32.74	-12 21 14.4		4 809
1997 JH ₆	1997 06 07.06250	15 10 44.90	-11 41 19.7		4 809	1997 JQ ₁₄	1997 06 08.08056	14 54 32.33	-12 21 12.8		4 809
1997 JH ₆	1997 06 07.07569	15 10 44.36	-11 41 19.6		4 809	1997 JS ₁₄	1997 06 07.04931	14 53 20.56	-13 04 06.1	18.5	4 809
1997 JH ₆	1997 06 08.05417	15 10 06.24	-11 41 13.8		4 809	1997 JS ₁₄	1997 06 07.06250	14 53 20.09	-13 04 04.3		4 809
1997 JH ₆	1997 06 08.06736	15 10 05.75	-11 41 13.8		4 809	1997 JS ₁₄	1997 06 07.07569	14 53 19.58	-13 04 04.1		4 809
1997 JH ₆	1997 06 08.08056	15 10 05.25	-11 41 13.4		4 809	1997 JS ₁₄	1997 06 08.05417	14 52 45.25	-13 01 54.7		4 809
1997 JA ₈	1997 06 07.04931	15 00 09.53	-14 47 16.0	18.7	4 809	1997 JS ₁₄	1997 06 08.06736	14 52 44.76	-13 01 53.2		4 809
1997 JA ₈	1997 06 07.06250	15 00 08.90	-14 47 13.3		4 809	1997 JS ₁₄	1997 06 08.08056	14 52 44.26	-13 01 51.4		4 809

1997 JULY 20

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1997 JA ₁₅	1997 06 07.04931	14 53 33.59	-14 17 37.7	18.5	4 809	1997 JM ₁₅	1997 06 08.06736	15 01 22.02	-14 18 24.9	4 809
1997 JA ₁₅	1997 06 07.06250	14 53 32.91	-14 17 38.0		4 809	1997 JM ₁₅	1997 06 08.08056	15 01 21.51	-14 18 24.9	4 809
1997 JA ₁₅	1997 06 07.07569	14 53 32.31	-14 17 37.8		4 809	1997 JN ₁₅	1997 06 07.04931	14 55 41.80	-14 08 49.7	18.5 4 809
1997 JA ₁₅	1997 06 08.05417	14 52 50.54	-14 17 24.7		4 809	1997 JN ₁₅	1997 06 07.06250	14 55 41.13	-14 08 48.6	4 809
1997 JA ₁₅	1997 06 08.06736	14 52 49.96	-14 17 23.3		4 809	1997 JN ₁₅	1997 06 07.07569	14 55 40.48	-14 08 47.5	4 809
1997 JA ₁₅	1997 06 08.08056	14 52 49.38	-14 17 23.9		4 809	1997 JN ₁₅	1997 06 08.05417	14 54 57.63	-14 07 10.6	4 809
1997 JB ₁₅	1997 06 07.04931	14 54 12.43	-14 09 37.0	18.4	4 809	1997 JN ₁₅	1997 06 08.06736	14 54 57.05	-14 07 08.9	4 809
1997 JB ₁₅	1997 06 07.06250	14 54 11.92	-14 09 37.3		4 809	1997 JN ₁₅	1997 06 08.08056	14 54 56.41	-14 07 08.1	4 809
1997 JB ₁₅	1997 06 07.07569	14 54 11.41	-14 09 38.2		4 809	1997 JP ₁₅	1997 06 07.04931	14 59 26.15	-14 02 14.4	18.6 4 809
1997 JB ₁₅	1997 06 08.05417	14 53 38.78	-14 10 03.3		4 809	1997 JP ₁₅	1997 06 07.06250	14 59 25.57	-14 02 12.8	4 809
1997 JB ₁₅	1997 06 08.06736	14 53 38.35	-14 10 03.2		4 809	1997 JP ₁₅	1997 06 07.07569	14 59 24.98	-14 02 10.9	4 809
1997 JB ₁₅	1997 06 08.08056	14 53 37.84	-14 10 04.1		4 809	1997 JP ₁₅	1997 06 08.05417	14 58 45.40	-13 59 50.2	4 809
1997 JD ₁₅	1997 06 07.04931	14 54 23.29	-13 45 00.5	18.4	4 809	1997 JP ₁₅	1997 06 08.06736	14 58 44.87	-13 59 49.8	4 809
1997 JD ₁₅	1997 06 07.06250	14 54 22.67	-13 45 01.2		4 809	1997 JP ₁₅	1997 06 08.08056	14 58 44.31	-13 59 47.5	4 809
1997 JD ₁₅	1997 06 07.07569	14 54 22.19	-13 45 01.4		4 809	1997 JR ₁₅	1997 06 07.04931	15 05 50.13	-13 40 51.8	18.5 4 809
1997 JD ₁₅	1997 06 08.05417	14 53 47.96	-13 45 13.8		4 809	1997 JR ₁₅	1997 06 07.06250	15 05 49.67	-13 40 51.2	4 809
1997 JD ₁₅	1997 06 08.06736	14 53 47.58	-13 45 14.3		4 809	1997 JR ₁₅	1997 06 07.07569	15 05 49.19	-13 40 49.5	4 809
1997 JD ₁₅	1997 06 08.08056	14 53 47.02	-13 45 14.5		4 809	1997 JR ₁₅	1997 06 08.05417	15 05 15.95	-13 39 38.7	4 809
1997 JE ₁₅	1997 06 07.04931	15 01 06.83	-12 49 27.0	18.3	4 809	1997 JR ₁₅	1997 06 08.06736	15 05 15.59	-13 39 37.6	4 809
1997 JE ₁₅	1997 06 07.06250	15 01 06.36	-12 49 25.8		4 809	1997 JR ₁₅	1997 06 08.08056	15 05 15.08	-13 39 37.3	4 809
1997 JE ₁₅	1997 06 07.07569	15 01 05.86	-12 49 24.9		4 809	1997 JT ₁₅	1997 06 07.04931	15 05 36.89	-13 22 29.6	18.2 4 809
1997 JE ₁₅	1997 06 08.05417	15 00 32.68	-12 47 53.1		4 809	1997 JT ₁₅	1997 06 07.06250	15 05 36.41	-13 22 29.4	4 809
1997 JE ₁₅	1997 06 08.06736	15 00 32.25	-12 47 51.6		4 809	1997 JT ₁₅	1997 06 07.07569	15 05 35.87	-13 22 28.1	4 809
1997 JE ₁₅	1997 06 08.08056	15 00 31.76	-12 47 50.5		4 809	1997 JT ₁₅	1997 06 08.05417	15 05 01.10	-13 21 18.8	4 809
1997 JG ₁₅	1997 06 07.04931	15 11 02.60	-13 31 58.2	18.5	4 809	1997 JT ₁₅	1997 06 08.06736	15 05 00.63	-13 21 18.2	4 809
1997 JG ₁₅	1997 06 07.06250	15 11 02.26	-13 31 55.8		4 809	1997 JT ₁₅	1997 06 08.08056	15 05 00.18	-13 21 17.4	4 809
1997 JG ₁₅	1997 06 07.07569	15 11 01.90	-13 31 52.8		4 809	1997 JZ ₁₅	1997 06 07.04931	15 05 21.02	-13 17 34.8	18.4 4 809
1997 JG ₁₅	1997 06 07.11528	15 11 01.22	-13 31 42.9	18.6	4 809	1997 JZ ₁₅	1997 06 07.06250	15 05 20.50	-13 17 30.6	4 809
1997 JG ₁₅	1997 06 07.12847	15 11 00.82	-13 31 38.5		4 809	1997 JZ ₁₅	1997 06 07.07569	15 05 19.99	-13 17 27.4	4 809
1997 JG ₁₅	1997 06 07.14167	15 11 00.55	-13 31 35.2		4 809	1997 JZ ₁₅	1997 06 08.05417	15 04 44.76	-13 12 37.5	4 809
1997 JG ₁₅	1997 06 08.05417	15 10 38.45	-13 27 48.8		4 809	1997 JZ ₁₅	1997 06 08.06736	15 04 44.31	-13 12 33.8	4 809
1997 JG ₁₅	1997 06 08.06736	15 10 38.14	-13 27 45.2		4 809	1997 JZ ₁₅	1997 06 08.08056	15 04 43.82	-13 12 29.4	4 809
1997 JG ₁₅	1997 06 08.08056	15 10 37.83	-13 27 42.9		4 809	1997 JA ₁₆	1997 06 07.04931	15 03 11.92	-11 48 25.4	18.5 4 809
1997 JG ₁₅	1997 06 08.09722	15 10 37.58	-13 27 34.3		4 809	1997 JA ₁₆	1997 06 07.06250	15 03 11.38	-11 48 23.1	4 809
1997 JG ₁₅	1997 06 08.11042	15 10 37.31	-13 27 31.5		4 809	1997 JA ₁₆	1997 06 07.07569	15 03 10.83	-11 48 20.6	4 809
1997 JG ₁₅	1997 06 08.12361	15 10 36.97	-13 27 29.6		4 809	1997 JA ₁₆	1997 06 08.05417	15 02 29.35	-11 46 05.5	4 809
1997 JJ ₁₅	1997 06 07.04931	14 59 10.41	-11 59 17.4	18.2	4 809	1997 JA ₁₆	1997 06 08.06736	15 02 28.79	-11 46 03.3	4 809
1997 JJ ₁₅	1997 06 07.06250	14 59 09.92	-11 59 13.9		4 809	1997 JA ₁₆	1997 06 08.08056	15 02 28.25	-11 46 01.7	4 809
1997 JJ ₁₅	1997 06 07.07569	14 59 09.36	-11 59 10.6		4 809	1997 JB ₁₆	1997 06 07.11528	15 18 46.55	-14 14 17.6	18.4 4 809
1997 JJ ₁₅	1997 06 08.05417	14 58 37.48	-11 54 53.9		4 809	1997 JB ₁₆	1997 06 07.12847	15 18 46.15	-14 14 16.0	4 809
1997 JJ ₁₅	1997 06 08.06736	14 58 37.07	-11 54 51.2		4 809	1997 JB ₁₆	1997 06 07.14167	15 18 45.81	-14 14 15.0	4 809
1997 JJ ₁₅	1997 06 08.08056	14 58 36.61	-11 54 47.4		4 809	1997 JB ₁₆	1997 06 08.09722	15 18 22.33	-14 11 55.4	4 809
1997 JK ₁₅	1997 06 07.04931	15 02 47.29	-13 25 30.5	18.5	4 809	1997 JB ₁₆	1997 06 08.11042	15 18 21.97	-14 11 52.7	4 809
1997 JK ₁₅	1997 06 07.06250	15 02 46.82	-13 25 29.3		4 809	1997 JB ₁₆	1997 06 08.12361	15 18 21.59	-14 11 51.4	4 809
1997 JK ₁₅	1997 06 07.07569	15 02 46.20	-13 25 26.7		4 809	1997 JF ₁₆	1997 06 07.04931	15 07 05.59	-11 26 39.1	18.5 4 809
1997 JK ₁₅	1997 06 08.05417	15 02 14.72	-13 22 30.3		4 809	1997 JF ₁₆	1997 06 07.06250	15 07 05.05	-11 26 37.2	4 809
1997 JK ₁₅	1997 06 08.06736	15 02 14.21	-13 22 28.2		4 809	1997 JF ₁₆	1997 06 07.07569	15 07 04.49	-11 26 34.8	4 809
1997 JK ₁₅	1997 06 08.08056	15 02 13.74	-13 22 23.8		4 809	1997 JF ₁₆	1997 06 08.05417	15 06 26.50	-11 24 08.0	4 809
1997 JM ₁₅	1997 06 07.04931	15 01 57.92	-14 19 28.5	18.4	4 809	1997 JF ₁₆	1997 06 08.06736	15 06 25.96	-11 24 06.9	4 809
1997 JM ₁₅	1997 06 07.06250	15 01 57.42	-14 19 26.9		4 809	1997 JF ₁₆	1997 06 08.08056	15 06 25.48	-11 24 05.2	4 809
1997 JM ₁₅	1997 06 07.07569	15 01 56.92	-14 19 27.2		4 809	1997 JG ₁₆	1997 06 07.04931	15 08 53.67	-14 00 54.1	18.5 4 809
1997 JM ₁₅	1997 06 08.05417	15 01 22.53	-14 18 25.6		4 809	1997 JG ₁₆	1997 06 07.06250	15 08 53.04	-14 00 55.8	4 809

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1997 JULY 20

1997 JG ₁₆	1997 06 07.07569	15 08 52.55	-14 00 56.3	4 809	1997 KK	1997 06 07.11528	15 22 27.49	-12 29 06.8	18.4	4 809
1997 JG ₁₆	1997 06 08.05417	15 08 12.49	-14 02 24.0	4 809	1997 KK	1997 06 07.12847	15 22 26.99	-12 29 03.5		4 809
1997 JG ₁₆	1997 06 08.06736	15 08 11.93	-14 02 25.2	4 809	1997 KK	1997 06 07.14167	15 22 26.55	-12 29 00.2		4 809
1997 JG ₁₆	1997 06 08.08056	15 08 11.33	-14 02 27.8	4 809	1997 KK	1997 06 08.09722	15 21 52.79	-12 25 20.6		4 809
1997 JH ₁₆	1997 06 07.04931	15 08 42.69	-11 29 38.3	18.3 4 809	1997 KK	1997 06 08.11042	15 21 52.30	-12 25 17.2		4 809
1997 JH ₁₆	1997 06 07.06250	15 08 42.17	-11 29 34.8	4 809	1997 KK	1997 06 08.12361	15 21 51.80	-12 25 14.8		4 809
1997 JH ₁₆	1997 06 07.07569	15 08 41.64	-11 29 32.1	4 809	1997 KJ ₂	1997 06 07.11528	15 22 34.35	-13 43 00.4	18.5	4 809
1997 JH ₁₆	1997 06 08.05417	15 08 06.07	-11 25 57.6	4 809	1997 KJ ₂	1997 06 07.12847	15 22 33.59	-13 42 58.8		4 809
1997 JH ₁₆	1997 06 08.06736	15 08 05.61	-11 25 55.5	4 809	1997 KJ ₂	1997 06 07.14167	15 22 32.85	-13 42 58.7		4 809
1997 JH ₁₆	1997 06 08.08056	15 08 05.12	-11 25 52.3	4 809	1997 KJ ₂	1997 06 08.09722	15 21 43.85	-13 42 48.3		4 809
1997 JJ ₁₆	1997 06 07.04931	15 09 51.24	-13 41 57.4	18.4 4 809	1997 KJ ₂	1997 06 08.11042	15 21 43.10	-13 42 47.1		4 809
1997 JJ ₁₆	1997 06 07.06250	15 09 50.75	-13 41 55.8	4 809	1997 KJ ₂	1997 06 08.12361	15 21 42.36	-13 42 48.1		4 809
1997 JJ ₁₆	1997 06 07.07569	15 09 50.26	-13 41 54.2	4 809	1997 KO ₂	1997 06 07.11528	15 30 35.35	-13 55 24.5	18.4	4 809
1997 JJ ₁₆	1997 06 07.11528	15 09 48.92	-13 41 49.4	18.3 4 809	1997 KO ₂	1997 06 07.12847	15 30 34.63	-13 55 24.5		4 809
1997 JJ ₁₆	1997 06 07.12847	15 09 48.40	-13 41 48.0	4 809	1997 KO ₂	1997 06 07.14167	15 30 33.96	-13 55 24.5		4 809
1997 JJ ₁₆	1997 06 07.14167	15 09 47.90	-13 41 46.4	4 809	1997 KO ₂	1997 06 08.09722	15 29 43.65	-13 55 21.3		4 809
1997 JJ ₁₆	1997 06 08.05417	15 09 18.06	-13 40 19.5	4 809	1997 KO ₂	1997 06 08.11042	15 29 42.87	-13 55 21.8		4 809
1997 JJ ₁₆	1997 06 08.06736	15 09 17.63	-13 40 18.2	4 809	1997 KO ₂	1997 06 08.12361	15 29 42.20	-13 55 22.8		4 809
1997 JJ ₁₆	1997 06 08.08056	15 09 17.16	-13 40 16.8	4 809	1997 KP ₂	1997 06 08.14097	15 33 11.88	-13 16 39.8	18.4	4 809
1997 JN ₁₆	1997 06 07.04931	15 10 05.36	-13 16 02.3	18.3 4 809	1997 KP ₂	1997 06 08.15417	15 33 11.27	-13 16 38.5		4 809
1997 JN ₁₆	1997 06 07.06250	15 10 04.81	-13 16 00.1	4 809	1997 KP ₂	1997 06 08.16736	15 33 10.69	-13 16 37.0		4 809
1997 JN ₁₆	1997 06 07.07569	15 10 04.25	-13 15 58.1	4 809	1997 KP ₃	1997 06 08.14097	15 31 42.68	-12 28 10.8	18.4	4 809
1997 JN ₁₆	1997 06 07.11528	15 10 02.48	-13 15 52.5	18.4 4 809	1997 KP ₃	1997 06 08.15417	15 31 42.12	-12 28 13.1		4 809
1997 JN ₁₆	1997 06 07.12847	15 10 01.88	-13 15 49.9	4 809	1997 KP ₃	1997 06 08.16736	15 31 41.53	-12 28 15.9		4 809
1997 JN ₁₆	1997 06 07.14167	15 10 01.31	-13 15 47.8	4 809	1997 KP ₃	1997 06 09.07083	15 31 08.59	-12 31 05.1		4 809
1997 JN ₁₆	1997 06 08.05417	15 09 24.16	-13 12 56.6	4 809	1997 KP ₃	1997 06 09.08403	15 31 08.07	-12 31 08.1		4 809
1997 JN ₁₆	1997 06 08.06736	15 09 23.66	-13 12 55.2	4 809	1997 KP ₃	1997 06 09.09722	15 31 07.61	-12 31 10.3		4 809
1997 JN ₁₆	1997 06 08.08056	15 09 23.08	-13 12 51.9	4 809	1997 KQ ₃	1997 06 08.14097	15 41 04.84	-12 00 27.8	18.5	4 809
1997 JP ₁₆	1997 06 07.11528	15 13 27.18	-13 29 53.3	18.2 4 809	1997 KQ ₃	1997 06 08.15417	15 41 04.19	-12 00 26.9		4 809
1997 JP ₁₆	1997 06 07.12847	15 13 26.64	-13 29 52.9	4 809	1997 KQ ₃	1997 06 08.16736	15 41 03.60	-12 00 27.7		4 809
1997 JP ₁₆	1997 06 07.14167	15 13 26.12	-13 29 52.7	4 809	1997 KQ ₃	1997 06 09.07083	15 40 22.99	-12 00 31.2		4 809
1997 JP ₁₆	1997 06 08.09722	15 12 50.99	-13 29 02.0	4 809	1997 KQ ₃	1997 06 09.08403	15 40 22.40	-12 00 32.4		4 809
1997 JP ₁₆	1997 06 08.11042	15 12 50.47	-13 29 01.3	4 809	1997 KQ ₃	1997 06 09.09722	15 40 21.78	-12 00 32.8		4 809
1997 JP ₁₆	1997 06 08.12361	15 12 49.95	-13 29 00.7	4 809	1997 KR ₃	1997 06 08.14097	15 43 16.64	-12 13 18.0	18.4	4 809
1997 JQ ₁₆	1997 06 07.11528	15 12 02.32	-13 48 31.0	18.4 4 809	1997 KR ₃	1997 06 08.15417	15 43 16.06	-12 13 18.3		4 809
1997 JQ ₁₆	1997 06 07.12847	15 12 01.83	-13 48 31.4	4 809	1997 KR ₃	1997 06 08.16736	15 43 15.51	-12 13 18.2		4 809
1997 JQ ₁₆	1997 06 07.14167	15 12 01.33	-13 48 31.8	4 809	1997 KR ₃	1997 06 09.07083	15 42 37.92	-12 12 44.2		4 809
1997 JQ ₁₆	1997 06 08.09722	15 11 32.25	-13 48 35.1	4 809	1997 KR ₃	1997 06 09.08403	15 42 37.44	-12 12 44.6		4 809
1997 JQ ₁₆	1997 06 08.11042	15 11 31.82	-13 48 35.3	4 809	1997 KR ₃	1997 06 09.09722	15 42 36.85	-12 12 44.1		4 809
1997 JQ ₁₆	1997 06 08.12361	15 11 31.35	-13 48 35.1	4 809	1997 KZ ₃	1997 06 07.11528	15 28 26.73	-13 50 28.1	18.6	4 809
1997 JJ ₁₈	1997 06 08.14097	15 36 12.19	-12 44 44.6	18.2 4 809	1997 KZ ₃	1997 06 07.12847	15 28 26.31	-13 50 28.2		4 809
1997 JJ ₁₈	1997 06 08.15417	15 36 11.52	-12 44 45.9	4 809	1997 KZ ₃	1997 06 07.14167	15 28 25.97	-13 50 27.6		4 809
1997 JJ ₁₈	1997 06 08.16736	15 36 10.82	-12 44 46.9	4 809	1997 KZ ₃	1997 06 08.09722	15 27 59.88	-13 50 13.7		4 809
1997 JJ ₁₈	1997 06 09.07083	15 35 27.38	-12 46 12.6	4 809	1997 KZ ₃	1997 06 08.11042	15 27 59.46	-13 50 12.4		4 809
1997 JJ ₁₈	1997 06 09.08403	15 35 26.72	-12 46 14.4	4 809	1997 KZ ₃	1997 06 08.12361	15 27 59.08	-13 50 12.8		4 809
1997 JJ ₁₈	1997 06 09.09722	15 35 26.05	-12 46 15.0	4 809	1997 KH ₄	1997 06 08.14097	15 41 37.62	-12 27 05.3	18.0	4 809
1997 JO ₁₈	1997 06 07.04931	14 52 05.16	-13 44 32.9	18.1 4 809	1997 KH ₄	1997 06 08.15417	15 41 36.88	-12 27 06.4		4 809
1997 JO ₁₈	1997 06 07.06250	14 52 04.60	-13 44 36.4	4 809	1997 KH ₄	1997 06 08.16736	15 41 36.20	-12 27 08.4		4 809
1997 JO ₁₈	1997 06 07.07569	14 52 04.06	-13 44 39.8	4 809	1997 KH ₄	1997 06 09.07083	15 40 51.52	-12 28 44.0		4 809
1997 JO ₁₈	1997 06 08.05417	14 51 25.37	-13 49 31.3	4 809	1997 KH ₄	1997 06 09.08403	15 40 50.84	-12 28 45.2		4 809
1997 JO ₁₈	1997 06 08.06736	14 51 24.82	-13 49 35.8	4 809	1997 KH ₄	1997 06 09.09722	15 40 50.18	-12 28 46.1		4 809
1997 JO ₁₈	1997 06 08.08056	14 51 24.28	-13 49 39.9	4 809	1997 LJ ₂	1997 06 09.07083	15 35 12.16	-13 15 38.3		4 809

1997 LJ ₂	1997 06 09.08403	15 35 11.49	-13 15 38.2	4 809	1997 LT ₄	1997 06 09.09722	15 42 17.58	-12 08 30.1	4 809
1997 LJ ₂	1997 06 09.09722	15 35 10.79	-13 15 39.9	4 809	1997 LV ₄	1997 06 08.14097	15 42 16.97	-13 28 14.9	17.8 4 809
1997 LP ₂	1997 06 07.04931	15 03 39.26	-14 42 18.0	18.5 4 809	1997 LV ₄	1997 06 08.15417	15 42 16.42	-13 28 06.2	4 809
1997 LP ₂	1997 06 07.06250	15 03 38.76	-14 42 18.5	4 809	1997 LV ₄	1997 06 08.16736	15 42 15.88	-13 27 57.5	4 809
1997 LP ₂	1997 06 07.07569	15 03 38.30	-14 42 19.7	4 809	1997 LV ₄	1997 06 09.07083	15 41 44.50	-13 18 11.2	4 809
1997 LP ₂	1997 06 08.05417	15 03 06.79	-14 42 50.7	4 809	1997 LV ₄	1997 06 09.08403	15 41 44.01	-13 18 03.4	4 809
1997 LP ₂	1997 06 08.06736	15 03 06.42	-14 42 51.2	4 809	1997 LV ₄	1997 06 09.09722	15 41 43.49	-13 17 54.6	4 809
1997 LP ₂	1997 06 08.08056	15 03 05.95	-14 42 52.0	4 809	1997 LM ₆	1997 05 03.14931	15 21 08.55	-13 49 13.0	18.3 4 809
1997 LX ₂	1997 06 08.09722	15 28 53.68	-13 39 32.9	18.5 4 809	1997 LM ₆	1997 05 03.16250	15 21 07.78	-13 49 10.5	4 809
1997 LX ₂	1997 06 08.11042	15 28 53.10	-13 39 35.1	4 809	1997 LM ₆	1997 05 03.17569	15 21 06.98	-13 49 09.1	4 809
1997 LX ₂	1997 06 08.12361	15 28 52.47	-13 39 35.1	4 809	1997 LM ₆	* 1997 06 07.04931	14 50 16.49	-13 01 35.1	18.4 4 809
1997 LA ₃	1997 06 07.11528	15 29 43.77	-13 47 41.5	18.6 4 809	1997 LM ₆	1997 06 07.06250	14 50 15.99	-13 01 35.7	4 809
1997 LA ₃	1997 06 07.12847	15 29 43.07	-13 47 43.2	4 809	1997 LM ₆	1997 06 07.07569	14 50 15.47	-13 01 35.8	4 809
1997 LA ₃	1997 06 07.14167	15 29 42.28	-13 47 44.6	4 809	1997 LM ₆	1997 06 08.05417	14 49 42.89	-13 02 10.8	4 809
1997 LA ₃	1997 06 08.09722	15 28 51.96	-13 50 02.2	4 809	1997 LM ₆	1997 06 08.06736	14 49 42.53	-13 02 12.8	4 809
1997 LA ₃	1997 06 08.11042	15 28 51.24	-13 50 04.1	4 809	1997 LM ₆	1997 06 08.08056	14 49 42.02	-13 02 12.7	4 809
1997 LA ₃	1997 06 08.12361	15 28 50.48	-13 50 06.5	4 809	1997 LN ₆	* 1997 06 07.04931	14 50 26.75	-14 57 46.8	18.7 4 809
1997 LD ₃	1997 06 08.14097	15 33 22.97	-13 47 16.5	18.6 4 809	1997 LN ₆	1997 06 07.06250	14 50 26.22	-14 57 44.4	4 809
1997 LD ₃	1997 06 08.15417	15 33 22.36	-13 47 11.5	4 809	1997 LN ₆	1997 06 07.07569	14 50 25.74	-14 57 42.1	4 809
1997 LD ₃	1997 06 08.16736	15 33 21.91	-13 47 08.6	4 809	1997 LN ₆	1997 06 08.05417	14 49 53.54	-14 54 59.5	4 809
1997 LD ₃	1997 06 09.07083	15 32 48.93	-13 43 28.1	4 809	1997 LN ₆	1997 06 08.06736	14 49 53.01	-14 54 57.8	4 809
1997 LD ₃	1997 06 09.08403	15 32 48.42	-13 43 25.6	4 809	1997 LN ₆	1997 06 08.08056	14 49 52.55	-14 54 55.5	4 809
1997 LD ₃	1997 06 09.09722	15 32 47.99	-13 43 23.2	4 809	1997 LO ₆	* 1997 06 07.04931	14 50 43.30	-13 22 12.5	18.6 4 809
1997 LG ₃	1997 06 08.14097	15 35 44.23	-13 54 02.6	18.5 4 809	1997 LO ₆	1997 06 07.06250	14 50 42.74	-13 22 10.4	4 809
1997 LG ₃	1997 06 08.15417	15 35 43.62	-13 54 00.8	4 809	1997 LO ₆	1997 06 07.07569	14 50 42.20	-13 22 08.3	4 809
1997 LG ₃	1997 06 08.16736	15 35 43.07	-13 54 00.6	4 809	1997 LO ₆	1997 06 08.05417	14 50 08.36	-13 20 25.2	4 809
1997 LG ₃	1997 06 09.07083	15 35 07.73	-13 52 48.5	4 809	1997 LO ₆	1997 06 08.06736	14 50 07.92	-13 20 23.7	4 809
1997 LG ₃	1997 06 09.08403	15 35 07.13	-13 52 47.4	4 809	1997 LO ₆	1997 06 08.08056	14 50 07.36	-13 20 22.9	4 809
1997 LG ₃	1997 06 09.09722	15 35 06.48	-13 52 46.8	4 809	1997 LP ₆	* 1997 06 07.04931	14 50 51.30	-12 42 04.4	18.4 4 809
1997 LO ₃	1997 06 08.14097	15 33 05.34	-13 15 00.2	18.4 4 809	1997 LP ₆	1997 06 07.06250	14 50 50.80	-12 42 04.6	4 809
1997 LO ₃	1997 06 08.15417	15 33 04.85	-13 15 00.4	4 809	1997 LP ₆	1997 06 07.07569	14 50 50.33	-12 42 05.5	4 809
1997 LO ₃	1997 06 08.16736	15 33 04.35	-13 15 00.3	4 809	1997 LP ₆	1997 06 08.05417	14 50 19.56	-12 42 44.4	4 809
1997 LO ₃	1997 06 09.07083	15 32 35.19	-13 15 14.9	4 809	1997 LP ₆	1997 06 08.06736	14 50 19.08	-12 42 45.4	4 809
1997 LO ₃	1997 06 09.08403	15 32 34.69	-13 15 14.6	4 809	1997 LP ₆	1997 06 08.08056	14 50 18.63	-12 42 45.6	4 809
1997 LO ₃	1997 06 09.09722	15 32 34.13	-13 15 14.9	4 809	1997 LQ ₆	* 1997 06 07.04931	14 51 24.69	-15 19 36.6	18.5 4 809
1997 LQ ₃	1997 06 08.14097	15 44 13.28	-13 12 22.7	18.5 4 809	1997 LQ ₆	1997 06 07.06250	14 51 24.44	-15 19 31.5	4 809
1997 LQ ₃	1997 06 08.15417	15 44 12.56	-13 12 22.2	4 809	1997 LQ ₆	1997 06 07.07569	14 51 24.08	-15 19 26.0	4 809
1997 LQ ₃	1997 06 08.16736	15 44 12.04	-13 12 21.7	4 809	1997 LQ ₆	1997 06 08.05417	14 51 01.26	-15 12 58.5	4 809
1997 LQ ₃	1997 06 09.07083	15 43 31.35	-13 11 35.0	4 809	1997 LQ ₆	1997 06 08.06736	14 51 00.92	-15 12 53.9	4 809
1997 LQ ₃	1997 06 09.08403	15 43 30.70	-13 11 34.5	4 809	1997 LQ ₆	1997 06 08.08056	14 51 00.52	-15 12 48.6	4 809
1997 LQ ₃	1997 06 09.09722	15 43 30.05	-13 11 33.7	4 809	1997 LR ₆	* 1997 06 07.04931	14 51 29.60	-11 37 49.1	18.5 4 809
1997 LN ₄	1997 06 08.14097	15 33 37.76	-12 41 52.9	18.5 4 809	1997 LR ₆	1997 06 07.06250	14 51 29.19	-11 37 47.3	4 809
1997 LN ₄	1997 06 08.15417	15 33 37.19	-12 41 52.3	4 809	1997 LR ₆	1997 06 07.07569	14 51 28.69	-11 37 45.7	4 809
1997 LN ₄	1997 06 08.16736	15 33 36.58	-12 41 50.3	4 809	1997 LR ₆	1997 06 08.05417	14 50 59.30	-11 35 25.8	4 809
1997 LN ₄	1997 06 09.07083	15 33 02.49	-12 40 16.7	4 809	1997 LR ₆	1997 06 08.06736	14 50 58.87	-11 35 24.5	4 809
1997 LN ₄	1997 06 09.08403	15 33 01.90	-12 40 15.9	4 809	1997 LR ₆	1997 06 08.08056	14 50 58.42	-11 35 22.6	4 809
1997 LN ₄	1997 06 09.09722	15 33 01.42	-12 40 15.1	4 809	1997 LS ₆	* 1997 06 07.04931	14 51 34.87	-13 00 14.1	18.5 4 809
1997 LT ₄	1997 06 08.14097	15 43 01.54	-12 08 41.1	18.8 4 809	1997 LS ₆	1997 06 07.06250	14 51 34.59	-13 00 06.8	4 809
1997 LT ₄	1997 06 08.15417	15 43 00.91	-12 08 40.8	4 809	1997 LS ₆	1997 06 07.07569	14 51 34.30	-13 00 01.3	4 809
1997 LT ₄	1997 06 08.16736	15 43 00.26	-12 08 40.9	4 809	1997 LS ₆	1997 06 08.05417	14 51 14.63	-12 51 59.3	4 809
1997 LT ₄	1997 06 09.07083	15 42 18.89	-12 08 30.8	4 809	1997 LS ₆	1997 06 08.06736	14 51 14.36	-12 51 54.1	4 809
1997 LT ₄	1997 06 09.08403	15 42 18.23	-12 08 31.6	4 809	1997 LS ₆	1997 06 08.08056	14 51 14.11	-12 51 48.2	4 809

1997 LT ₆	* 1997 06 07.04931	14 51 50.03	-12 23 53.5	18.5	4 809	1997 LB ₇	1997 06 07.06250	14 53 49.55	-11 08 32.9	4 809
1997 LT ₆	1997 06 07.06250	14 51 49.49	-12 23 52.0		4 809	1997 LB ₇	1997 06 07.07569	14 53 49.02	-11 08 29.6	4 809
1997 LT ₆	1997 06 07.07569	14 51 49.06	-12 23 50.6		4 809	1997 LB ₇	1997 06 08.05417	14 53 07.45	-11 04 47.3	4 809
1997 LT ₆	1997 06 08.05417	14 51 17.36	-12 22 12.8		4 809	1997 LB ₇	1997 06 08.06736	14 53 06.86	-11 04 44.6	4 809
1997 LT ₆	1997 06 08.06736	14 51 16.93	-12 22 12.6		4 809	1997 LB ₇	1997 06 08.08056	14 53 06.20	-11 04 41.4	4 809
1997 LT ₆	1997 06 08.08056	14 51 16.45	-12 22 11.6		4 809	1997 LC ₇	* 1997 06 07.04931	14 53 58.11	-15 25 37.7	18.6 4 809
1997 LU ₆	* 1997 06 07.04931	14 52 02.53	-14 15 36.3	18.7	4 809	1997 LC ₇	1997 06 07.06250	14 53 57.71	-15 25 35.9	4 809
1997 LU ₆	1997 06 07.06250	14 52 01.96	-14 15 33.5		4 809	1997 LC ₇	1997 06 07.07569	14 53 57.28	-15 25 34.5	4 809
1997 LU ₆	1997 06 07.07569	14 52 01.47	-14 15 31.3		4 809	1997 LC ₇	1997 06 08.05417	14 53 29.82	-15 23 29.0	4 809
1997 LU ₆	1997 06 08.05417	14 51 27.67	-14 12 54.4		4 809	1997 LC ₇	1997 06 08.06736	14 53 29.46	-15 23 27.9	4 809
1997 LU ₆	1997 06 08.06736	14 51 27.16	-14 12 51.5		4 809	1997 LC ₇	1997 06 08.08056	14 53 29.02	-15 23 26.3	4 809
1997 LU ₆	1997 06 08.08056	14 51 26.73	-14 12 49.6		4 809	1997 LD ₇	* 1997 06 07.04931	14 53 59.02	-12 31 20.5	18.5 4 809
1997 LV ₆	* 1997 06 07.04931	14 52 19.26	-11 26 22.2	18.4	4 809	1997 LD ₇	1997 06 07.06250	14 53 58.61	-12 31 20.8	4 809
1997 LV ₆	1997 06 07.06250	14 52 18.94	-11 26 20.2		4 809	1997 LD ₇	1997 06 07.07569	14 53 58.09	-12 31 21.0	4 809
1997 LV ₆	1997 06 07.07569	14 52 18.67	-11 26 17.1		4 809	1997 LD ₇	1997 06 08.05417	14 53 25.03	-12 30 35.8	4 809
1997 LV ₆	1997 06 08.05417	14 52 00.64	-11 23 13.5		4 809	1997 LD ₇	1997 06 08.06736	14 53 24.62	-12 30 35.7	4 809
1997 LV ₆	1997 06 08.06736	14 52 00.35	-11 23 11.6		4 809	1997 LD ₇	1997 06 08.08056	14 53 24.21	-12 30 34.2	4 809
1997 LV ₆	1997 06 08.08056	14 52 00.08	-11 23 09.1		4 809	1997 LE ₇	* 1997 06 07.04931	14 54 00.21	-11 28 10.2	18.7 4 809
1997 LW ₆	* 1997 06 07.04931	14 52 46.90	-11 14 58.4	18.5	4 809	1997 LE ₇	1997 06 07.06250	14 53 59.78	-11 28 07.2	4 809
1997 LW ₆	1997 06 07.06250	14 52 46.09	-11 15 06.0		4 809	1997 LE ₇	1997 06 07.07569	14 53 59.36	-11 28 06.1	4 809
1997 LW ₆	1997 06 07.07569	14 52 45.40	-11 15 13.3		4 809	1997 LE ₇	1997 06 08.05417	14 53 28.67	-11 26 08.8	4 809
1997 LW ₆	1997 06 08.05417	14 51 55.07	-11 23 52.9		4 809	1997 LE ₇	1997 06 08.06736	14 53 28.26	-11 26 08.8	4 809
1997 LW ₆	1997 06 08.06736	14 51 54.44	-11 23 59.7		4 809	1997 LE ₇	1997 06 08.08056	14 53 27.83	-11 26 07.3	4 809
1997 LW ₆	1997 06 08.08056	14 51 53.72	-11 24 06.8		4 809	1997 LF ₇	* 1997 06 07.04931	14 54 15.85	-11 49 20.0	18.6 4 809
1997 LX ₆	* 1997 06 07.04931	14 53 22.57	-12 48 58.8	18.7	4 809	1997 LF ₇	1997 06 07.06250	14 54 15.26	-11 49 19.2	4 809
1997 LX ₆	1997 06 07.06250	14 53 22.09	-12 48 57.8		4 809	1997 LF ₇	1997 06 07.07569	14 54 14.70	-11 49 17.9	4 809
1997 LX ₆	1997 06 07.07569	14 53 21.56	-12 48 58.7		4 809	1997 LF ₇	1997 06 08.05417	14 53 38.73	-11 47 48.2	4 809
1997 LX ₆	1997 06 08.05417	14 52 48.77	-12 49 01.0		4 809	1997 LF ₇	1997 06 08.06736	14 53 38.19	-11 47 47.8	4 809
1997 LX ₆	1997 06 08.06736	14 52 48.23	-12 49 00.9		4 809	1997 LF ₇	1997 06 08.08056	14 53 37.60	-11 47 47.7	4 809
1997 LX ₆	1997 06 08.08056	14 52 47.72	-12 49 01.0		4 809	1997 LG ₇	* 1997 06 07.04931	14 54 20.01	-14 46 50.0	18.4 4 809
1997 LY ₆	* 1997 06 07.04931	14 53 26.72	-13 38 23.1	18.7	4 809	1997 LG ₇	1997 06 07.06250	14 54 19.50	-14 46 47.5	4 809
1997 LY ₆	1997 06 07.06250	14 53 26.25	-13 38 22.8		4 809	1997 LG ₇	1997 06 07.07569	14 54 19.01	-14 46 44.8	4 809
1997 LY ₆	1997 06 07.07569	14 53 25.82	-13 38 22.1		4 809	1997 LG ₇	1997 06 08.05417	14 53 48.33	-14 43 02.5	4 809
1997 LY ₆	1997 06 08.05417	14 52 55.75	-13 37 46.6		4 809	1997 LG ₇	1997 06 08.06736	14 53 47.88	-14 43 00.0	4 809
1997 LY ₆	1997 06 08.06736	14 52 55.23	-13 37 47.3		4 809	1997 LG ₇	1997 06 08.08056	14 53 47.45	-14 42 57.1	4 809
1997 LY ₆	1997 06 08.08056	14 52 54.69	-13 37 47.1		4 809	1997 LH ₇	* 1997 06 07.04931	14 55 01.89	-11 41 11.2	18.4 4 809
1997 LZ ₆	* 1997 06 07.04931	14 53 44.02	-12 24 40.7	18.5	4 809	1997 LH ₇	1997 06 07.06250	14 55 01.53	-11 41 05.7	4 809
1997 LZ ₆	1997 06 07.06250	14 53 43.45	-12 24 36.6		4 809	1997 LH ₇	1997 06 07.07569	14 55 01.10	-11 41 00.0	4 809
1997 LZ ₆	1997 06 07.07569	14 53 42.91	-12 24 33.6		4 809	1997 LH ₇	1997 06 08.05417	14 54 33.57	-11 34 10.2	4 809
1997 LZ ₆	1997 06 08.05417	14 53 03.25	-12 20 26.7		4 809	1997 LH ₇	1997 06 08.06736	14 54 33.23	-11 34 05.2	4 809
1997 LZ ₆	1997 06 08.06736	14 53 02.73	-12 20 24.0		4 809	1997 LH ₇	1997 06 08.08056	14 54 32.80	-11 33 59.5	4 809
1997 LZ ₆	1997 06 08.08056	14 53 02.19	-12 20 21.3		4 809	1997 LJ ₇	* 1997 06 07.04931	14 55 13.69	-11 03 23.3	18.5 4 809
1997 LA ₇	* 1997 06 07.04931	14 53 48.98	-12 28 52.5	18.5	4 809	1997 LJ ₇	1997 06 07.06250	14 55 13.22	-11 03 22.4	4 809
1997 LA ₇	1997 06 07.06250	14 53 48.51	-12 28 50.6		4 809	1997 LJ ₇	1997 06 07.07569	14 55 12.72	-11 03 22.9	4 809
1997 LA ₇	1997 06 07.07569	14 53 48.01	-12 28 50.0		4 809	1997 LJ ₇	1997 06 08.05417	14 54 41.03	-11 02 52.0	4 809
1997 LA ₇	1997 06 08.05417	14 53 17.10	-12 27 41.1		4 809	1997 LJ ₇	1997 06 08.06736	14 54 40.62	-11 02 52.5	4 809
1997 LA ₇	1997 06 08.06736	14 53 16.68	-12 27 40.9		4 809	1997 LJ ₇	1997 06 08.08056	14 54 40.13	-11 02 51.5	4 809
1997 LA ₇	1997 06 08.08056	14 53 16.26	-12 27 40.1		4 809	1997 LK ₇	* 1997 06 07.04931	14 55 13.89	-13 48 40.9	18.5 4 809
1997 LB ₇	1997 05 03.14931	15 27 44.23	-14 24 04.9		4 809	1997 LK ₇	1997 06 07.06250	14 55 13.28	-13 48 38.2	4 809
1997 LB ₇	1997 05 03.16250	15 27 43.42	-14 23 59.5		4 809	1997 LK ₇	1997 06 07.07569	14 55 12.68	-13 48 34.9	4 809
1997 LB ₇	1997 05 03.17569	15 27 42.67	-14 23 55.1		4 809	1997 LK ₇	1997 06 08.05417	14 54 35.13	-13 45 42.9	4 809
1997 LB ₇	* 1997 06 07.04931	14 53 50.19	-11 08 36.4	18.5	4 809	1997 LK ₇	1997 06 08.06736	14 54 34.64	-13 45 41.6	4 809

1997 LK ₇	1997 06 08.08056	14 54 34.08	-13 45 39.7		4 809	1997 LT ₇	1997 06 08.05417	14 57 28.22	-12 42 42.5		4 809
1997 LL ₇	* 1997 06 07.04931	14 55 22.37	-14 01 38.0	18.7	4 809	1997 LT ₇	1997 06 08.06736	14 57 27.70	-12 42 41.4		4 809
1997 LL ₇	1997 06 07.06250	14 55 21.89	-14 01 34.4		4 809	1997 LT ₇	1997 06 08.08056	14 57 27.23	-12 42 39.1		4 809
1997 LL ₇	1997 06 07.07569	14 55 21.38	-14 01 30.2		4 809	1997 LU ₇	* 1997 06 07.04931	14 58 19.03	-12 21 50.4	18.6	4 809
1997 LL ₇	1997 06 08.05417	14 54 49.59	-13 56 21.6		4 809	1997 LU ₇	1997 06 07.06250	14 58 18.44	-12 21 48.8		4 809
1997 LL ₇	1997 06 08.06736	14 54 49.07	-13 56 16.6		4 809	1997 LU ₇	1997 06 07.07569	14 58 17.88	-12 21 48.4		4 809
1997 LL ₇	1997 06 08.08056	14 54 48.66	-13 56 13.2		4 809	1997 LU ₇	1997 06 08.05417	14 57 39.00	-12 20 02.3		4 809
1997 LM ₇	* 1997 06 07.04931	14 55 23.99	-11 10 47.7	19.0	4 809	1997 LU ₇	1997 06 08.06736	14 57 38.46	-12 20 00.9		4 809
1997 LM ₇	1997 06 07.06250	14 55 23.46	-11 10 49.1		4 809	1997 LU ₇	1997 06 08.08056	14 57 37.88	-12 19 59.4		4 809
1997 LM ₇	1997 06 07.07569	14 55 23.01	-11 10 50.6		4 809	1997 LV ₇	* 1997 06 07.04931	14 58 22.70	-11 11 24.1	18.5	4 809
1997 LM ₇	1997 06 08.05417	14 54 50.05	-11 11 04.9		4 809	1997 LV ₇	1997 06 07.06250	14 58 22.24	-11 11 23.4		4 809
1997 LM ₇	1997 06 08.06736	14 54 49.57	-11 11 05.0		4 809	1997 LV ₇	1997 06 07.07569	14 58 21.79	-11 11 23.9		4 809
1997 LM ₇	1997 06 08.08056	14 54 49.12	-11 11 04.6		4 809	1997 LV ₇	1997 06 08.05417	14 57 51.59	-11 11 14.1		4 809
1997 LN ₇	* 1997 06 07.04931	14 55 26.96	-13 20 15.1	18.8	4 809	1997 LV ₇	1997 06 08.06736	14 57 51.13	-11 11 14.8		4 809
1997 LN ₇	1997 06 07.06250	14 55 26.49	-13 20 13.0		4 809	1997 LV ₇	1997 06 08.08056	14 57 50.63	-11 11 15.2		4 809
1997 LN ₇	1997 06 07.07569	14 55 26.02	-13 20 12.2		4 809	1997 LW ₇	* 1997 06 07.04931	14 58 34.03	-13 38 33.1	18.6	4 809
1997 LN ₇	1997 06 08.05417	14 54 58.49	-13 19 11.3		4 809	1997 LW ₇	1997 06 07.06250	14 58 33.56	-13 38 28.6		4 809
1997 LN ₇	1997 06 08.06736	14 54 58.15	-13 19 09.8		4 809	1997 LW ₇	1997 06 07.07569	14 58 33.09	-13 38 26.3		4 809
1997 LN ₇	1997 06 08.08056	14 54 57.72	-13 19 09.6		4 809	1997 LW ₇	1997 06 08.05417	14 58 02.68	-13 34 00.7		4 809
1997 LO ₇	* 1997 06 07.04931	14 56 14.07	-14 48 32.8	18.2	4 809	1997 LW ₇	1997 06 08.06736	14 58 02.30	-13 33 57.6		4 809
1997 LO ₇	1997 06 07.06250	14 56 13.47	-14 48 18.4		4 809	1997 LW ₇	1997 06 08.08056	14 58 01.81	-13 33 53.9		4 809
1997 LO ₇	1997 06 07.07569	14 56 12.93	-14 48 04.9		4 809	1997 LX ₇	* 1997 06 07.04931	14 58 35.34	-11 27 55.3	18.1	4 809
1997 LO ₇	1997 06 08.05417	14 55 34.43	-14 29 57.7		4 809	1997 LX ₇	1997 06 07.06250	14 58 34.75	-11 28 00.1		4 809
1997 LO ₇	1997 06 08.06736	14 55 33.91	-14 29 45.0		4 809	1997 LX ₇	1997 06 07.07569	14 58 34.14	-11 28 05.2		4 809
1997 LO ₇	1997 06 08.08056	14 55 33.31	-14 29 30.0		4 809	1997 LX ₇	1997 06 08.05417	14 57 51.34	-11 34 25.1		4 809
1997 LP ₇	* 1997 06 07.04931	14 56 36.31	-11 06 36.4	18.5	4 809	1997 LX ₇	1997 06 08.06736	14 57 50.75	-11 34 30.6		4 809
1997 LP ₇	1997 06 07.06250	14 56 35.70	-11 06 36.4		4 809	1997 LX ₇	1997 06 08.08056	14 57 50.17	-11 34 35.8		4 809
1997 LP ₇	1997 06 07.07569	14 56 35.18	-11 06 36.4		4 809	1997 LY ₇	* 1997 06 07.04931	14 58 37.89	-13 34 11.0	18.6	4 809
1997 LP ₇	1997 06 08.05417	14 56 00.51	-11 06 38.7		4 809	1997 LY ₇	1997 06 07.06250	14 58 37.35	-13 34 10.7		4 809
1997 LP ₇	1997 06 08.06736	14 56 00.09	-11 06 38.3		4 809	1997 LY ₇	1997 06 07.07569	14 58 36.88	-13 34 13.8		4 809
1997 LP ₇	1997 06 08.08056	14 55 59.53	-11 06 38.8		4 809	1997 LY ₇	1997 06 08.05417	14 58 04.30	-13 34 42.8		4 809
1997 LQ ₇	* 1997 06 07.04931	14 56 46.25	-12 43 04.0	18.7	4 809	1997 LY ₇	1997 06 08.06736	14 58 03.88	-13 34 44.0		4 809
1997 LQ ₇	1997 06 07.06250	14 56 45.76	-12 43 03.2		4 809	1997 LY ₇	1997 06 08.08056	14 58 03.34	-13 34 44.7		4 809
1997 LQ ₇	1997 06 07.07569	14 56 45.22	-12 43 00.5		4 809	1997 LZ ₇	* 1997 06 07.04931	14 59 01.44	-14 22 54.6	18.5	4 809
1997 LQ ₇	1997 06 08.05417	14 56 09.28	-12 41 42.5		4 809	1997 LZ ₇	1997 06 07.06250	14 59 00.84	-14 22 56.1		4 809
1997 LQ ₇	1997 06 08.06736	14 56 08.81	-12 41 41.4		4 809	1997 LZ ₇	1997 06 07.07569	14 59 00.28	-14 22 55.6		4 809
1997 LQ ₇	1997 06 08.08056	14 56 08.29	-12 41 41.6		4 809	1997 LZ ₇	1997 06 08.05417	14 58 18.38	-14 23 43.7		4 809
1997 LR ₇	* 1997 06 07.04931	14 56 58.21	-13 37 41.4	18.5	4 809	1997 LZ ₇	1997 06 08.06736	14 58 17.83	-14 23 45.2		4 809
1997 LR ₇	1997 06 07.06250	14 56 57.74	-13 37 39.9		4 809	1997 LZ ₇	1997 06 08.08056	14 58 17.25	-14 23 45.3		4 809
1997 LR ₇	1997 06 07.07569	14 56 57.23	-13 37 39.0		4 809	1997 LA ₈	* 1997 06 07.04931	14 59 04.17	-15 51 26.0	18.7	4 809
1997 LR ₇	1997 06 08.05417	14 56 25.07	-13 35 49.4		4 809	1997 LA ₈	1997 06 07.06250	14 59 03.66	-15 51 26.1		4 809
1997 LR ₇	1997 06 08.06736	14 56 24.51	-13 35 48.3		4 809	1997 LA ₈	1997 06 07.07569	14 59 03.07	-15 51 27.3		4 809
1997 LR ₇	1997 06 08.08056	14 56 24.07	-13 35 48.0		4 809	1997 LA ₈	1997 06 08.05417	14 58 27.74	-15 52 14.5		4 809
1997 LS ₇	* 1997 06 07.04931	14 57 31.83	-12 16 28.0	18.4	4 809	1997 LA ₈	1997 06 08.06736	14 58 27.14	-15 52 16.4		4 809
1997 LS ₇	1997 06 07.06250	14 57 31.43	-12 16 22.1		4 809	1997 LA ₈	1997 06 08.08056	14 58 26.70	-15 52 17.4		4 809
1997 LS ₇	1997 06 07.07569	14 57 31.07	-12 16 16.7		4 809	1997 LB ₈	* 1997 06 07.04931	14 59 29.83	-14 11 34.9	18.8	4 809
1997 LS ₇	1997 06 08.05417	14 57 07.66	-12 08 52.5		4 809	1997 LB ₈	1997 06 07.06250	14 59 29.19	-14 11 34.0		4 809
1997 LS ₇	1997 06 08.06736	14 57 07.42	-12 08 48.7		4 809	1997 LB ₈	1997 06 07.07569	14 59 28.61	-14 11 33.1		4 809
1997 LS ₇	1997 06 08.08056	14 57 07.05	-12 08 40.8		4 809	1997 LB ₈	1997 06 08.05417	14 58 52.32	-14 10 13.4		4 809
1997 LT ₇	* 1997 06 07.04931	14 58 00.04	-12 45 31.1	18.7	4 809	1997 LB ₈	1997 06 08.06736	14 58 51.78	-14 10 12.7		4 809
1997 LT ₇	1997 06 07.06250	14 57 59.49	-12 45 28.3		4 809	1997 LB ₈	1997 06 08.08056	14 58 51.18	-14 10 13.0		4 809
1997 LT ₇	1997 06 07.07569	14 57 59.10	-12 45 25.0		4 809	1997 LC ₈	* 1997 06 07.04931	14 59 58.82	-14 59 57.3	18.8	4 809

1997 LC ₈	1997 06 07.06250	14 59 58.22	-14 59 57.9	4 809	1997 LL ₈	1997 06 08.08056	15 00 29.82	-12 06 49.2	4 809
1997 LC ₈	1997 06 07.07569	14 59 57.55	-14 59 57.7	4 809	1997 LM ₈	* 1997 06 07.04931	15 01 22.44	-13 44 55.8	18.8 4 809
1997 LC ₈	1997 06 08.05417	14 59 13.46	-14 59 45.8	4 809	1997 LM ₈	1997 06 07.06250	15 01 21.99	-13 44 53.4	4 809
1997 LC ₈	1997 06 08.06736	14 59 12.79	-14 59 45.3	4 809	1997 LM ₈	1997 06 07.07569	15 01 21.52	-13 44 50.6	4 809
1997 LC ₈	1997 06 08.08056	14 59 12.24	-14 59 45.9	4 809	1997 LM ₈	1997 06 08.05417	15 00 53.65	-13 41 18.9	4 809
1997 LD ₈	* 1997 06 07.04931	15 00 14.67	-13 23 21.1	18.5 4 809	1997 LM ₈	1997 06 08.06736	15 00 53.24	-13 41 15.2	4 809
1997 LD ₈	1997 06 07.06250	15 00 14.13	-13 23 19.9	4 809	1997 LM ₈	1997 06 08.08056	15 00 52.77	-13 41 11.7	4 809
1997 LD ₈	1997 06 07.07569	15 00 13.56	-13 23 18.5	4 809	1997 LN ₈	* 1997 06 07.04931	15 01 29.95	-13 00 14.3	18.6 4 809
1997 LD ₈	1997 06 08.05417	14 59 37.60	-13 21 26.3	4 809	1997 LN ₈	1997 06 07.06250	15 01 29.46	-13 00 13.0	4 809
1997 LD ₈	1997 06 08.06736	14 59 37.02	-13 21 26.0	4 809	1997 LN ₈	1997 06 07.07569	15 01 29.09	-13 00 11.9	4 809
1997 LD ₈	1997 06 08.08056	14 59 36.51	-13 21 23.6	4 809	1997 LN ₈	1997 06 08.05417	15 01 00.14	-12 58 58.4	4 809
1997 LE ₈	* 1997 06 07.04931	15 00 16.49	-12 59 49.4	18.5 4 809	1997 LN ₈	1997 06 08.06736	15 00 59.69	-12 58 57.6	4 809
1997 LE ₈	1997 06 07.06250	15 00 15.97	-12 59 49.1	4 809	1997 LN ₈	1997 06 08.08056	15 00 59.29	-12 58 57.3	4 809
1997 LE ₈	1997 06 07.07569	15 00 15.45	-12 59 48.5	4 809	1997 LO ₈	* 1997 06 07.04931	15 01 57.53	-15 34 56.3	19.2 4 809
1997 LE ₈	1997 06 08.05417	14 59 40.86	-12 59 10.0	4 809	1997 LO ₈	1997 06 07.06250	15 01 57.01	-15 34 51.4	4 809
1997 LE ₈	1997 06 08.06736	14 59 40.35	-12 59 09.6	4 809	1997 LO ₈	1997 06 07.07569	15 01 56.47	-15 34 47.1	4 809
1997 LE ₈	1997 06 08.08056	14 59 39.83	-12 59 08.3	4 809	1997 LO ₈	1997 06 08.05417	15 01 20.99	-15 28 03.1	4 809
1997 LF ₈	* 1997 06 07.04931	15 00 19.89	-11 36 12.3	18.7 4 809	1997 LO ₈	1997 06 08.06736	15 01 20.53	-15 27 56.8	4 809
1997 LF ₈	1997 06 07.06250	15 00 19.37	-11 36 13.1	4 809	1997 LO ₈	1997 06 08.08056	15 01 20.03	-15 27 52.8	4 809
1997 LF ₈	1997 06 07.07569	15 00 18.83	-11 36 15.8	4 809	1997 LP ₈	* 1997 06 07.04931	15 02 04.91	-13 50 45.7	18.7 4 809
1997 LF ₈	1997 06 08.05417	14 59 41.96	-11 38 39.3	4 809	1997 LP ₈	1997 06 07.06250	15 02 04.33	-13 50 43.8	4 809
1997 LF ₈	1997 06 08.06736	14 59 41.48	-11 38 41.5	4 809	1997 LP ₈	1997 06 07.07569	15 02 03.92	-13 50 44.0	4 809
1997 LF ₈	1997 06 08.08056	14 59 41.01	-11 38 42.9	4 809	1997 LP ₈	1997 06 08.05417	15 01 30.84	-13 49 49.3	4 809
1997 LG ₈	* 1997 06 07.04931	15 00 30.98	-11 44 08.2	18.8 4 809	1997 LP ₈	1997 06 08.06736	15 01 30.39	-13 49 48.8	4 809
1997 LG ₈	1997 06 07.06250	15 00 30.34	-11 44 06.0	4 809	1997 LP ₈	1997 06 08.08056	15 01 29.94	-13 49 48.9	4 809
1997 LG ₈	1997 06 07.07569	15 00 29.78	-11 44 03.3	4 809	1997 LQ ₈	* 1997 06 07.04931	15 02 25.89	-11 16 58.5	18.7 4 809
1997 LG ₈	1997 06 08.05417	14 59 49.33	-11 41 24.5	4 809	1997 LQ ₈	1997 06 07.06250	15 02 25.36	-11 16 55.5	4 809
1997 LG ₈	1997 06 08.06736	14 59 48.73	-11 41 21.4	4 809	1997 LQ ₈	1997 06 07.07569	15 02 24.87	-11 16 51.0	4 809
1997 LG ₈	1997 06 08.08056	14 59 48.23	-11 41 19.7	4 809	1997 LQ ₈	1997 06 08.05417	15 01 49.78	-11 13 03.8	4 809
1997 LH ₈	* 1997 06 07.04931	15 00 49.87	-14 50 21.8	18.8 4 809	1997 LQ ₈	1997 06 08.06736	15 01 49.25	-11 13 00.2	4 809
1997 LH ₈	1997 06 07.06250	15 00 49.20	-14 50 19.8	4 809	1997 LQ ₈	1997 06 08.08056	15 01 48.85	-11 12 57.8	4 809
1997 LH ₈	1997 06 07.07569	15 00 48.58	-14 50 16.9	4 809	1997 LR ₈	* 1997 06 07.04931	15 02 43.08	-12 57 54.4	18.4 4 809
1997 LH ₈	1997 06 08.05417	15 00 08.53	-14 48 04.0	4 809	1997 LR ₈	1997 06 07.06250	15 02 42.52	-12 57 52.4	4 809
1997 LH ₈	1997 06 08.06736	15 00 08.03	-14 48 02.1	4 809	1997 LR ₈	1997 06 07.07569	15 02 42.04	-12 57 51.7	4 809
1997 LH ₈	1997 06 08.08056	15 00 07.47	-14 48 00.4	4 809	1997 LR ₈	1997 06 08.05417	15 02 07.32	-12 56 24.1	4 809
1997 LJ ₈	* 1997 06 07.04931	15 00 55.80	-11 58 20.2	18.7 4 809	1997 LR ₈	1997 06 08.06736	15 02 06.83	-12 56 22.3	4 809
1997 LJ ₈	1997 06 07.06250	15 00 55.18	-11 58 23.1	4 809	1997 LR ₈	1997 06 08.08056	15 02 06.30	-12 56 21.6	4 809
1997 LJ ₈	1997 06 07.07569	15 00 54.61	-11 58 25.8	4 809	1997 LS ₈	* 1997 06 07.04931	15 03 12.20	-13 41 52.2	18.5 4 809
1997 LJ ₈	1997 06 08.05417	15 00 13.78	-12 01 33.0	4 809	1997 LS ₈	1997 06 07.06250	15 03 11.84	-13 41 51.0	4 809
1997 LJ ₈	1997 06 08.06736	15 00 13.30	-12 01 35.8	4 809	1997 LS ₈	1997 06 07.07569	15 03 11.49	-13 41 50.4	4 809
1997 LJ ₈	1997 06 08.08056	15 00 12.74	-12 01 39.1	4 809	1997 LS ₈	1997 06 08.05417	15 02 47.82	-13 40 52.9	4 809
1997 LK ₈	* 1997 06 07.04931	15 01 08.43	-13 44 54.8	18.8 4 809	1997 LS ₈	1997 06 08.06736	15 02 47.46	-13 40 52.3	4 809
1997 LK ₈	1997 06 07.06250	15 01 07.76	-13 44 52.5	4 809	1997 LS ₈	1997 06 08.08056	15 02 47.11	-13 40 52.2	4 809
1997 LK ₈	1997 06 07.07569	15 01 07.26	-13 44 50.7	4 809	1997 LT ₈	* 1997 06 07.04931	15 04 04.35	-15 02 38.9	18.6 4 809
1997 LK ₈	1997 06 08.05417	15 00 29.75	-13 42 29.6	4 809	1997 LT ₈	1997 06 07.06250	15 04 03.68	-15 02 41.6	4 809
1997 LK ₈	1997 06 08.06736	15 00 29.24	-13 42 28.1	4 809	1997 LT ₈	1997 06 07.07569	15 04 03.13	-15 02 43.0	4 809
1997 LK ₈	1997 06 08.08056	15 00 28.79	-13 42 25.4	4 809	1997 LT ₈	1997 06 08.05417	15 03 17.93	-15 04 20.8	4 809
1997 LL ₈	* 1997 06 07.04931	15 01 09.05	-12 05 10.3	18.6 4 809	1997 LT ₈	1997 06 08.06736	15 03 17.33	-15 04 21.7	4 809
1997 LL ₈	1997 06 07.06250	15 01 08.53	-12 05 11.9	4 809	1997 LT ₈	1997 06 08.08056	15 03 16.69	-15 04 23.3	4 809
1997 LL ₈	1997 06 07.07569	15 01 07.94	-12 05 13.3	4 809	1997 LU ₈	* 1997 06 07.04931	15 04 56.64	-14 01 52.8	18.7 4 809
1997 LL ₈	1997 06 08.05417	15 00 30.90	-12 06 47.1	4 809	1997 LU ₈	1997 06 07.06250	15 04 56.17	-14 01 55.2	4 809
1997 LL ₈	1997 06 08.06736	15 00 30.45	-12 06 48.5	4 809	1997 LU ₈	1997 06 07.07569	15 04 55.54	-14 01 56.7	4 809

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1997 LU ₈	1997 06 08.05417	15 04 20.28	-14 04 23.4	4 809	1997 LC ₉	1997 06 08.06736	15 05 39.09	-14 04 52.5	4 809
1997 LU ₈	1997 06 08.06736	15 04 19.72	-14 04 26.4	4 809	1997 LC ₉	1997 06 08.08056	15 05 38.42	-14 04 52.2	4 809
1997 LU ₈	1997 06 08.08056	15 04 19.27	-14 04 28.2	4 809	1997 LD ₉	* 1997 06 07.04931	15 06 31.08	-11 43 57.6	18.4 4 809
1997 LV ₈	* 1997 06 07.04931	15 04 57.07	-12 28 28.6	18.5 4 809	1997 LD ₉	1997 06 07.06250	15 06 30.58	-11 43 55.7	4 809
1997 LV ₈	1997 06 07.06250	15 04 56.72	-12 28 24.9	4 809	1997 LD ₉	1997 06 07.07569	15 06 30.09	-11 43 53.4	4 809
1997 LV ₈	1997 06 07.07569	15 04 56.16	-12 28 17.1	4 809	1997 LD ₉	1997 06 08.05417	15 05 54.19	-11 41 39.1	4 809
1997 LV ₈	1997 06 08.05417	15 04 27.58	-12 21 29.2	4 809	1997 LD ₉	1997 06 08.06736	15 05 53.74	-11 41 37.0	4 809
1997 LV ₈	1997 06 08.06736	15 04 27.14	-12 21 23.2	4 809	1997 LD ₉	1997 06 08.08056	15 05 53.22	-11 41 34.9	4 809
1997 LV ₈	1997 06 08.08056	15 04 26.75	-12 21 17.5	4 809	1997 LE ₉	* 1997 06 07.04931	15 06 45.84	-15 49 50.2	18.5 4 809
1997 LW ₈	* 1997 06 07.04931	15 05 05.93	-11 53 25.7	18.5 4 809	1997 LE ₉	1997 06 07.06250	15 06 45.37	-15 49 51.0	4 809
1997 LW ₈	1997 06 07.06250	15 05 05.41	-11 53 30.1	4 809	1997 LE ₉	1997 06 07.07569	15 06 44.75	-15 49 48.4	4 809
1997 LW ₈	1997 06 07.07569	15 05 04.93	-11 53 33.5	4 809	1997 LE ₉	1997 06 08.05417	15 06 09.36	-15 47 20.2	4 809
1997 LW ₈	1997 06 08.05417	15 04 31.59	-11 58 18.0	4 809	1997 LE ₉	1997 06 08.06736	15 06 08.92	-15 47 18.6	4 809
1997 LW ₈	1997 06 08.06736	15 04 31.22	-11 58 21.2	4 809	1997 LE ₉	1997 06 08.08056	15 06 08.41	-15 47 16.1	4 809
1997 LW ₈	1997 06 08.08056	15 04 30.77	-11 58 25.1	4 809	1997 LF ₉	* 1997 06 07.04931	15 07 00.72	-15 13 11.5	18.5 4 809
1997 LX ₈	* 1997 06 07.04931	15 05 06.61	-14 46 40.3	19.2 4 809	1997 LF ₉	1997 06 07.06250	15 06 59.98	-15 13 10.0	4 809
1997 LX ₈	1997 06 07.06250	15 05 06.15	-14 46 38.2	4 809	1997 LF ₉	1997 06 07.07569	15 06 59.34	-15 13 08.3	4 809
1997 LX ₈	1997 06 07.07569	15 05 05.66	-14 46 32.5	4 809	1997 LF ₉	1997 06 08.05417	15 06 12.65	-15 10 43.6	4 809
1997 LX ₈	1997 06 08.05417	15 04 32.07	-14 42 17.6	4 809	1997 LF ₉	1997 06 08.06736	15 06 12.03	-15 10 41.0	4 809
1997 LX ₈	1997 06 08.06736	15 04 31.62	-14 42 12.5	4 809	1997 LF ₉	1997 06 08.08056	15 06 11.36	-15 10 40.1	4 809
1997 LX ₈	1997 06 08.08056	15 04 31.09	-14 42 09.5	4 809	1997 LG ₉	* 1997 06 07.04931	15 07 01.79	-11 32 43.4	18.5 4 809
1997 LY ₈	* 1997 06 07.04931	15 05 42.68	-15 01 23.8	18.7 4 809	1997 LG ₉	1997 06 07.06250	15 07 01.30	-11 32 38.3	4 809
1997 LY ₈	1997 06 07.06250	15 05 42.14	-15 01 24.9	4 809	1997 LG ₉	1997 06 07.07569	15 07 00.80	-11 32 33.6	4 809
1997 LY ₈	1997 06 07.07569	15 05 41.45	-15 01 27.7	4 809	1997 LG ₉	1997 06 08.05417	15 06 26.40	-11 26 24.5	4 809
1997 LY ₈	1997 06 08.05417	15 05 00.01	-15 03 03.7	4 809	1997 LG ₉	1997 06 08.06736	15 06 25.99	-11 26 20.3	4 809
1997 LY ₈	1997 06 08.06736	15 04 59.41	-15 03 04.5	4 809	1997 LG ₉	1997 06 08.08056	15 06 25.49	-11 26 14.9	4 809
1997 LY ₈	1997 06 08.08056	15 04 58.78	-15 03 06.8	4 809	1997 LH ₉	* 1997 06 07.04931	15 07 35.98	-12 09 58.4	18.5 4 809
1997 LZ ₈	1997 05 04.16250	15 38 39.94	-16 41 19.8	19.6 4 809	1997 LH ₉	1997 06 07.06250	15 07 35.46	-12 09 56.5	4 809
1997 LZ ₈	1997 05 04.17569	15 38 39.06	-16 41 16.2	4 809	1997 LH ₉	1997 06 07.07569	15 07 34.92	-12 09 54.8	4 809
1997 LZ ₈	1997 05 04.18889	15 38 38.30	-16 41 12.8	4 809	1997 LH ₉	1997 06 08.05417	15 07 00.05	-12 07 40.3	4 809
1997 LZ ₈	* 1997 06 07.04931	15 05 51.71	-14 02 10.6	18.5 4 809	1997 LH ₉	1997 06 08.06736	15 06 59.65	-12 07 39.2	4 809
1997 LZ ₈	1997 06 07.06250	15 05 51.00	-14 02 08.6	4 809	1997 LH ₉	1997 06 08.08056	15 06 59.10	-12 07 36.9	4 809
1997 LZ ₈	1997 06 07.07569	15 05 50.20	-14 02 04.3	4 809	1997 LJ ₉	* 1997 06 07.04931	15 07 48.36	-14 26 54.0	18.8 4 809
1997 LZ ₈	1997 06 08.05417	15 05 04.98	-13 58 33.6	4 809	1997 LJ ₉	1997 06 07.06250	15 07 47.66	-14 26 52.4	4 809
1997 LZ ₈	1997 06 08.06736	15 05 04.27	-13 58 31.1	4 809	1997 LJ ₉	1997 06 07.07569	15 07 47.06	-14 26 52.6	4 809
1997 LZ ₈	1997 06 08.08056	15 05 03.64	-13 58 27.9	4 809	1997 LJ ₉	1997 06 08.05417	15 07 03.24	-14 25 23.2	4 809
1997 LA ₉	* 1997 06 07.04931	15 06 09.68	-14 43 37.6	18.7 4 809	1997 LJ ₉	1997 06 08.06736	15 07 02.68	-14 25 22.0	4 809
1997 LA ₉	1997 06 07.06250	15 06 09.06	-14 43 36.5	4 809	1997 LJ ₉	1997 06 08.08056	15 07 02.10	-14 25 21.3	4 809
1997 LA ₉	1997 06 07.07569	15 06 08.48	-14 43 35.8	4 809	1997 LK ₉	* 1997 06 07.04931	15 08 06.26	-15 05 13.1	18.6 4 809
1997 LA ₉	1997 06 08.05417	15 05 27.31	-14 42 05.7	4 809	1997 LK ₉	1997 06 07.06250	15 08 05.63	-15 05 14.0	4 809
1997 LA ₉	1997 06 08.06736	15 05 26.77	-14 42 03.5	4 809	1997 LK ₉	1997 06 07.07569	15 08 05.01	-15 05 13.2	4 809
1997 LA ₉	1997 06 08.08056	15 05 26.15	-14 42 03.9	4 809	1997 LK ₉	1997 06 08.05417	15 07 21.04	-15 04 44.4	4 809
1997 LB ₉	* 1997 06 07.04931	15 06 21.18	-14 25 06.4	18.4 4 809	1997 LK ₉	1997 06 08.06736	15 07 20.48	-15 04 45.1	4 809
1997 LB ₉	1997 06 07.06250	15 06 20.56	-14 25 03.1	4 809	1997 LK ₉	1997 06 08.08056	15 07 19.90	-15 04 45.5	4 809
1997 LB ₉	1997 06 07.07569	15 06 20.09	-14 25 01.3	4 809	1997 LL ₉	* 1997 06 07.04931	15 08 06.78	-11 15 49.1	18.4 4 809
1997 LB ₉	1997 06 08.05417	15 05 48.82	-14 22 10.2	4 809	1997 LL ₉	1997 06 07.06250	15 08 06.31	-11 15 49.3	4 809
1997 LB ₉	1997 06 08.06736	15 05 48.38	-14 22 07.8	4 809	1997 LL ₉	1997 06 07.07569	15 08 05.81	-11 15 48.4	4 809
1997 LB ₉	1997 06 08.08056	15 05 47.92	-14 22 06.3	4 809	1997 LL ₉	1997 06 08.05417	15 07 35.60	-11 15 17.9	4 809
1997 LC ₉	* 1997 06 07.04931	15 06 24.41	-14 05 25.4	18.5 4 809	1997 LL ₉	1997 06 08.06736	15 07 35.21	-11 15 18.2	4 809
1997 LC ₉	1997 06 07.06250	15 06 23.79	-14 05 24.6	4 809	1997 LL ₉	1997 06 08.08056	15 07 34.76	-11 15 17.9	4 809
1997 LC ₉	1997 06 07.07569	15 06 23.06	-14 05 25.1	4 809	1997 LM ₉	* 1997 06 07.04931	15 08 10.46	-12 20 39.1	18.4 4 809
1997 LC ₉	1997 06 08.05417	15 05 39.69	-14 04 52.8	4 809	1997 LM ₉	1997 06 07.06250	15 08 10.06	-12 20 36.8	4 809

1997 LM ₉	1997 06 07.07569	15 08 09.63	-12 20 35.8	4 809	1997 LU ₉	1997 06 08.05417	15 09 08.66	-13 24 07.2	4 809
1997 LM ₉	1997 06 08.05417	15 07 39.34	-12 18 27.3	4 809	1997 LU ₉	1997 06 08.06736	15 09 08.20	-13 24 03.0	4 809
1997 LM ₉	1997 06 08.06736	15 07 38.89	-12 18 25.8	4 809	1997 LU ₉	1997 06 08.08056	15 09 07.70	-13 23 57.9	4 809
1997 LM ₉	1997 06 08.08056	15 07 38.47	-12 18 24.3	4 809	1997 LV ₉	* 1997 06 07.04931	15 09 54.37	-15 30 17.6	18.5 4 809
1997 LN ₉	* 1997 06 07.04931	15 08 37.15	-12 40 29.3	18.6 4 809	1997 LV ₉	1997 06 07.06250	15 09 53.88	-15 30 10.8	4 809
1997 LN ₉	1997 06 07.06250	15 08 36.43	-12 40 32.5	4 809	1997 LV ₉	1997 06 07.07569	15 09 53.49	-15 30 03.5	4 809
1997 LN ₉	1997 06 07.07569	15 08 35.77	-12 40 34.0	4 809	1997 LV ₉	1997 06 08.05417	15 09 20.09	-15 20 35.3	4 809
1997 LN ₉	1997 06 08.05417	15 07 48.39	-12 42 41.3	4 809	1997 LV ₉	1997 06 08.06736	15 09 19.59	-15 20 28.0	4 809
1997 LN ₉	1997 06 08.06736	15 07 47.68	-12 42 43.8	4 809	1997 LV ₉	1997 06 08.08056	15 09 19.14	-15 20 21.0	4 809
1997 LN ₉	1997 06 08.08056	15 07 47.14	-12 42 46.6	4 809	1997 LW ₉	* 1997 06 07.04931	15 10 07.41	-13 43 55.4	18.6 4 809
1997 LO ₉	* 1997 06 07.04931	15 08 39.55	-13 19 03.6	18.5 4 809	1997 LW ₉	1997 06 07.06250	15 10 06.91	-13 43 54.8	4 809
1997 LO ₉	1997 06 07.06250	15 08 39.19	-13 18 59.9	4 809	1997 LW ₉	1997 06 07.07569	15 10 06.41	-13 43 55.2	4 809
1997 LO ₉	1997 06 07.07569	15 08 38.79	-13 18 57.0	4 809	1997 LW ₉	1997 06 08.05417	15 09 30.73	-13 43 18.3	4 809
1997 LO ₉	1997 06 08.05417	15 08 13.13	-13 14 55.9	4 809	1997 LW ₉	1997 06 08.06736	15 09 30.19	-13 43 17.6	4 809
1997 LO ₉	1997 06 08.06736	15 08 12.79	-13 14 52.7	4 809	1997 LW ₉	1997 06 08.08056	15 09 29.81	-13 43 17.6	4 809
1997 LO ₉	1997 06 08.08056	15 08 12.39	-13 14 48.7	4 809	1997 LX ₉	* 1997 06 07.04931	15 10 38.66	-12 18 27.0	18.6 4 809
1997 LP ₉	* 1997 06 07.04931	15 08 45.94	-12 40 23.5	18.7 4 809	1997 LX ₉	1997 06 07.06250	15 10 38.03	-12 18 25.9	4 809
1997 LP ₉	1997 06 07.06250	15 08 45.43	-12 40 21.8	4 809	1997 LX ₉	1997 06 07.07569	15 10 37.46	-12 18 24.1	4 809
1997 LP ₉	1997 06 07.07569	15 08 44.85	-12 40 20.7	4 809	1997 LX ₉	1997 06 08.05417	15 09 55.27	-12 16 43.6	4 809
1997 LP ₉	1997 06 08.05417	15 08 06.64	-12 38 33.1	4 809	1997 LX ₉	1997 06 08.06736	15 09 54.73	-12 16 42.1	4 809
1997 LP ₉	1997 06 08.06736	15 08 06.12	-12 38 31.8	4 809	1997 LX ₉	1997 06 08.08056	15 09 54.12	-12 16 40.4	4 809
1997 LP ₉	1997 06 08.08056	15 08 05.56	-12 38 30.1	4 809	1997 LY ₉	* 1997 06 07.04931	15 10 39.60	-14 10 23.6	18.3 4 809
1997 LQ ₉	* 1997 06 07.04931	15 08 55.62	-14 09 44.5	18.5 4 809	1997 LY ₉	1997 06 07.06250	15 10 38.99	-14 10 26.0	4 809
1997 LQ ₉	1997 06 07.06250	15 08 55.19	-14 09 42.6	4 809	1997 LY ₉	1997 06 07.07569	15 10 38.41	-14 10 27.8	4 809
1997 LQ ₉	1997 06 07.07569	15 08 54.68	-14 09 39.9	4 809	1997 LY ₉	1997 06 07.11528	15 10 37.01	-14 10 32.6	18.3 4 809
1997 LQ ₉	1997 06 08.05417	15 08 22.79	-14 06 31.2	4 809	1997 LY ₉	1997 06 07.12847	15 10 36.37	-14 10 33.9	4 809
1997 LQ ₉	1997 06 08.06736	15 08 22.34	-14 06 29.3	4 809	1997 LY ₉	1997 06 07.14167	15 10 35.79	-14 10 36.6	4 809
1997 LQ ₉	1997 06 08.08056	15 08 21.88	-14 06 27.7	4 809	1997 LY ₉	1997 06 08.05417	15 09 58.02	-14 13 08.9	4 809
1997 LR ₉	* 1997 06 07.04931	15 09 14.20	-13 44 16.1	18.6 4 809	1997 LY ₉	1997 06 08.06736	15 09 57.44	-14 13 11.6	4 809
1997 LR ₉	1997 06 07.06250	15 09 13.54	-13 44 14.7	4 809	1997 LY ₉	1997 06 08.08056	15 09 56.88	-14 13 13.5	4 809
1997 LR ₉	1997 06 07.07569	15 09 13.04	-13 44 13.7	4 809	1997 LY ₉	1997 06 08.09722	15 09 56.35	-14 13 14.3	4 809
1997 LR ₉	1997 06 08.05417	15 08 32.76	-13 42 54.5	4 809	1997 LY ₉	1997 06 08.11042	15 09 55.74	-14 13 16.7	4 809
1997 LR ₉	1997 06 08.06736	15 08 32.22	-13 42 53.0	4 809	1997 LY ₉	1997 06 08.12361	15 09 55.18	-14 13 19.0	4 809
1997 LR ₉	1997 06 08.08056	15 08 31.60	-13 42 52.8	4 809	1997 LZ ₉	* 1997 06 07.04931	15 10 46.91	-15 01 12.1	18.5 4 809
1997 LS ₉	* 1997 06 07.04931	15 09 18.38	-12 04 59.7	18.6 4 809	1997 LZ ₉	1997 06 07.06250	15 10 46.34	-15 01 10.4	4 809
1997 LS ₉	1997 06 07.06250	15 09 17.79	-12 05 02.7	4 809	1997 LZ ₉	1997 06 07.07569	15 10 45.91	-15 01 09.8	4 809
1997 LS ₉	1997 06 07.07569	15 09 17.15	-12 05 04.8	4 809	1997 LZ ₉	1997 06 08.05417	15 10 09.73	-14 59 42.5	4 809
1997 LS ₉	1997 06 08.05417	15 08 32.49	-12 08 53.0	4 809	1997 LZ ₉	1997 06 08.06736	15 10 09.20	-14 59 41.4	4 809
1997 LS ₉	1997 06 08.06736	15 08 31.88	-12 08 56.3	4 809	1997 LZ ₉	1997 06 08.08056	15 10 08.68	-14 59 42.2	4 809
1997 LS ₉	1997 06 08.08056	15 08 31.24	-12 08 59.1	4 809	1997 LA ₁₀	* 1997 06 07.04931	15 10 54.21	-13 34 56.7	18.4 4 809
1997 LT ₉	* 1997 06 07.04931	15 09 34.80	-15 13 04.0	17.5 4 809	1997 LA ₁₀	1997 06 07.06250	15 10 53.55	-13 34 53.9	4 809
1997 LT ₉	1997 06 07.06250	15 09 34.57	-15 12 46.4	4 809	1997 LA ₁₀	1997 06 07.07569	15 10 53.01	-13 34 52.3	4 809
1997 LT ₉	1997 06 07.07569	15 09 34.36	-15 12 29.2	4 809	1997 LA ₁₀	1997 06 07.11528	15 10 51.39	-13 34 44.7	18.5 4 809
1997 LT ₉	1997 06 08.05417	15 09 21.45	-14 51 04.0	4 809	1997 LA ₁₀	1997 06 07.12847	15 10 50.83	-13 34 42.3	4 809
1997 LT ₉	1997 06 08.06736	15 09 21.32	-14 50 46.4	4 809	1997 LA ₁₀	1997 06 07.14167	15 10 50.26	-13 34 40.5	4 809
1997 LT ₉	1997 06 08.08056	15 09 21.11	-14 50 29.8	4 809	1997 LA ₁₀	1997 06 08.05417	15 10 12.57	-13 32 19.5	4 809
1997 LU ₉	* 1997 06 07.04931	15 09 43.97	-13 30 01.0	18.2 4 809	1997 LA ₁₀	1997 06 08.06736	15 10 12.05	-13 32 18.0	4 809
1997 LU ₉	1997 06 07.06250	15 09 43.53	-13 29 56.1	4 809	1997 LA ₁₀	1997 06 08.08056	15 10 11.45	-13 32 15.7	4 809
1997 LU ₉	1997 06 07.07569	15 09 43.06	-13 29 51.8	4 809	1997 LA ₁₀	1997 06 08.09722	15 10 10.97	-13 32 10.0	4 809
1997 LU ₉	1997 06 07.11528	15 09 41.49	-13 29 37.5	18.1 4 809	1997 LA ₁₀	1997 06 08.11042	15 10 10.37	-13 32 08.8	4 809
1997 LU ₉	1997 06 07.12847	15 09 40.97	-13 29 32.8	4 809	1997 LA ₁₀	1997 06 08.12361	15 10 09.87	-13 32 06.1	4 809
1997 LU ₉	1997 06 07.14167	15 09 40.45	-13 29 28.7	4 809	1997 LB ₁₀	* 1997 06 07.04931	15 11 08.14	-14 41 32.6	18.5 4 809

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1997 LB ₁₀	1997 06 07.06250	15 11 07.74	-14 41 26.2	4 809	1997 LL ₁₀	1997 06 08.12361	15 11 26.19	-14 33 24.1	4 809
1997 LB ₁₀	1997 06 07.07569	15 11 07.35	-14 41 19.7	4 809	1997 LM ₁₀	* 1997 06 07.11528	15 12 49.27	-13 27 36.7	18.7 4 809
1997 LB ₁₀	1997 06 08.05417	15 10 42.47	-14 34 43.9	4 809	1997 LM ₁₀	1997 06 07.12847	15 12 48.52	-13 27 37.8	4 809
1997 LB ₁₀	1997 06 08.06736	15 10 42.03	-14 34 38.1	4 809	1997 LM ₁₀	1997 06 07.14167	15 12 47.80	-13 27 38.6	4 809
1997 LB ₁₀	1997 06 08.08056	15 10 41.74	-14 34 32.9	4 809	1997 LM ₁₀	1997 06 08.09722	15 11 59.88	-13 28 36.1	4 809
1997 LC ₁₀	* 1997 06 07.04931	15 11 17.45	-13 25 12.6	18.3 4 809	1997 LM ₁₀	1997 06 08.11042	15 11 59.06	-13 28 37.4	4 809
1997 LC ₁₀	1997 06 07.06250	15 11 16.94	-13 25 07.9	4 809	1997 LM ₁₀	1997 06 08.12361	15 11 58.38	-13 28 38.8	4 809
1997 LC ₁₀	1997 06 07.07569	15 11 16.47	-13 25 03.9	4 809	1997 LN ₁₀	* 1997 06 07.11528	15 12 57.49	-13 01 22.2	18.5 4 809
1997 LC ₁₀	1997 06 07.11528	15 11 15.10	-13 24 50.2	18.4 4 809	1997 LN ₁₀	1997 06 07.12847	15 12 56.73	-13 01 22.3	4 809
1997 LC ₁₀	1997 06 07.12847	15 11 14.60	-13 24 45.8	4 809	1997 LN ₁₀	1997 06 07.14167	15 12 56.03	-13 01 21.5	4 809
1997 LC ₁₀	1997 06 07.14167	15 11 14.11	-13 24 41.8	4 809	1997 LN ₁₀	1997 06 08.09722	15 12 05.83	-13 00 47.5	4 809
1997 LC ₁₀	1997 06 08.05417	15 10 43.54	-13 20 02.4	4 809	1997 LN ₁₀	1997 06 08.11042	15 12 05.12	-13 00 49.0	4 809
1997 LC ₁₀	1997 06 08.06736	15 10 43.11	-13 19 59.4	4 809	1997 LN ₁₀	1997 06 08.12361	15 12 04.33	-13 00 48.2	4 809
1997 LC ₁₀	1997 06 08.08056	15 10 42.61	-13 19 54.2	4 809	1997 LO ₁₀	* 1997 06 07.11528	15 13 09.61	-15 03 13.1	18.8 4 809
1997 LC ₁₀	1997 06 08.09722	15 10 42.22	-13 19 48.1	4 809	1997 LO ₁₀	1997 06 07.12847	15 13 09.01	-15 03 10.2	4 809
1997 LC ₁₀	1997 06 08.11042	15 10 41.72	-13 19 44.0	4 809	1997 LO ₁₀	1997 06 07.14167	15 13 08.57	-15 03 06.5	4 809
1997 LC ₁₀	1997 06 08.12361	15 10 41.25	-13 19 40.2	4 809	1997 LO ₁₀	1997 06 08.09722	15 12 32.23	-14 59 05.1	4 809
1997 LF ₁₀	* 1997 06 07.11528	15 11 29.68	-13 15 53.5	18.5 4 809	1997 LO ₁₀	1997 06 08.11042	15 12 31.79	-14 59 02.4	4 809
1997 LF ₁₀	1997 06 07.12847	15 11 29.16	-13 15 49.9	4 809	1997 LO ₁₀	1997 06 08.12361	15 12 31.27	-14 58 59.1	4 809
1997 LF ₁₀	1997 06 07.14167	15 11 28.55	-13 15 45.3	4 809	1997 LP ₁₀	* 1997 06 07.11528	15 13 11.30	-14 41 33.7	18.7 4 809
1997 LF ₁₀	1997 06 08.09722	15 10 51.82	-13 11 36.9	4 809	1997 LP ₁₀	1997 06 07.12847	15 13 10.57	-14 41 32.0	4 809
1997 LF ₁₀	1997 06 08.11042	15 10 51.26	-13 11 32.3	4 809	1997 LP ₁₀	1997 06 07.14167	15 13 09.98	-14 41 31.1	4 809
1997 LF ₁₀	1997 06 08.12361	15 10 50.69	-13 11 30.2	4 809	1997 LP ₁₀	1997 06 08.09722	15 12 26.45	-14 39 43.7	4 809
1997 LG ₁₀	* 1997 06 07.11528	15 11 36.71	-14 42 10.1	19.6 4 809	1997 LP ₁₀	1997 06 08.11042	15 12 25.80	-14 39 45.0	4 809
1997 LG ₁₀	1997 06 07.12847	15 11 36.17	-14 42 09.4	4 809	1997 LP ₁₀	1997 06 08.12361	15 12 25.10	-14 39 44.6	4 809
1997 LG ₁₀	1997 06 07.14167	15 11 35.57	-14 42 02.9	4 809	1997 LQ ₁₀	* 1997 06 07.11528	15 13 17.87	-13 41 20.8	18.9 4 809
1997 LG ₁₀	1997 06 08.09722	15 10 56.45	-14 37 57.4	4 809	1997 LQ ₁₀	1997 06 07.12847	15 13 17.25	-13 41 21.3	4 809
1997 LG ₁₀	1997 06 08.11042	15 10 55.89	-14 37 54.2	4 809	1997 LQ ₁₀	1997 06 07.14167	15 13 16.79	-13 41 20.9	4 809
1997 LG ₁₀	1997 06 08.12361	15 10 55.37	-14 37 53.2	4 809	1997 LQ ₁₀	1997 06 08.09722	15 12 44.73	-13 41 58.1	4 809
1997 LH ₁₀	* 1997 06 07.11528	15 12 15.68	-14 24 42.1	18.4 4 809	1997 LQ ₁₀	1997 06 08.11042	15 12 44.21	-13 41 59.5	4 809
1997 LH ₁₀	1997 06 07.12847	15 12 14.96	-14 24 39.1	4 809	1997 LQ ₁₀	1997 06 08.12361	15 12 43.68	-13 41 59.2	4 809
1997 LH ₁₀	1997 06 07.14167	15 12 14.32	-14 24 36.2	4 809	1997 LR ₁₀	* 1997 06 07.11528	15 13 22.81	-15 42 07.8	18.4 4 809
1997 LH ₁₀	1997 06 08.09722	15 11 29.50	-14 21 20.2	4 809	1997 LR ₁₀	1997 06 07.12847	15 13 22.16	-15 42 08.3	4 809
1997 LH ₁₀	1997 06 08.11042	15 11 28.78	-14 21 16.7	4 809	1997 LR ₁₀	1997 06 07.14167	15 13 21.54	-15 42 09.2	4 809
1997 LH ₁₀	1997 06 08.12361	15 11 28.11	-14 21 14.1	4 809	1997 LR ₁₀	1997 06 08.09722	15 12 36.22	-15 43 00.9	4 809
1997 LJ ₁₀	* 1997 06 07.11528	15 12 17.33	-14 10 32.0	18.5 4 809	1997 LR ₁₀	1997 06 08.11042	15 12 35.54	-15 43 01.4	4 809
1997 LJ ₁₀	1997 06 07.12847	15 12 16.72	-14 10 29.5	4 809	1997 LR ₁₀	1997 06 08.12361	15 12 34.87	-15 43 01.8	4 809
1997 LJ ₁₀	1997 06 07.14167	15 12 16.23	-14 10 28.0	4 809	1997 LS ₁₀	* 1997 06 07.11528	15 13 35.73	-14 31 38.4	18.7 4 809
1997 LJ ₁₀	1997 06 08.09722	15 11 40.72	-14 08 35.9	4 809	1997 LS ₁₀	1997 06 07.12847	15 13 35.21	-14 31 36.6	4 809
1997 LJ ₁₀	1997 06 08.11042	15 11 40.22	-14 08 34.6	4 809	1997 LS ₁₀	1997 06 07.14167	15 13 34.76	-14 31 36.0	4 809
1997 LJ ₁₀	1997 06 08.12361	15 11 39.66	-14 08 32.7	4 809	1997 LS ₁₀	1997 06 08.09722	15 13 00.87	-14 30 00.5	4 809
1997 LK ₁₀	* 1997 06 07.11528	15 12 40.72	-13 46 18.4	18.5 4 809	1997 LS ₁₀	1997 06 08.11042	15 13 00.37	-14 29 59.1	4 809
1997 LK ₁₀	1997 06 07.12847	15 12 40.11	-13 46 21.8	4 809	1997 LS ₁₀	1997 06 08.12361	15 12 59.93	-14 29 57.8	4 809
1997 LK ₁₀	1997 06 07.14167	15 12 39.51	-13 46 25.0	4 809	1997 LT ₁₀	* 1997 06 07.11528	15 14 05.53	-14 07 06.4	18.8 4 809
1997 LK ₁₀	1997 06 08.09722	15 11 58.31	-13 50 19.8	4 809	1997 LT ₁₀	1997 06 07.12847	15 14 05.02	-14 07 00.1	4 809
1997 LK ₁₀	1997 06 08.11042	15 11 57.64	-13 50 23.1	4 809	1997 LT ₁₀	1997 06 07.14167	15 14 04.61	-14 06 55.0	4 809
1997 LK ₁₀	1997 06 08.12361	15 11 57.08	-13 50 26.8	4 809	1997 LT ₁₀	1997 06 08.09722	15 13 36.01	-13 59 34.4	4 809
1997 LL ₁₀	* 1997 06 07.11528	15 12 44.16	-14 21 29.1	18.0 4 809	1997 LT ₁₀	1997 06 08.11042	15 13 35.45	-13 59 27.1	4 809
1997 LL ₁₀	1997 06 07.12847	15 12 43.06	-14 21 38.9	4 809	1997 LT ₁₀	1997 06 08.12361	15 13 35.09	-13 59 22.2	4 809
1997 LL ₁₀	1997 06 07.14167	15 12 42.02	-14 21 47.9	4 809	1997 LU ₁₀	* 1997 06 07.11528	15 14 09.21	-13 33 25.3	18.8 4 809
1997 LL ₁₀	1997 06 08.09722	15 11 28.22	-14 33 05.8	4 809	1997 LU ₁₀	1997 06 07.12847	15 14 08.60	-13 33 22.2	4 809
1997 LL ₁₀	1997 06 08.11042	15 11 27.22	-14 33 15.6	4 809	1997 LU ₁₀	1997 06 07.14167	15 14 08.11	-13 33 21.8	4 809

1997 LU ₁₀	1997 06 08.09722	15 13 29.97	-13 31 53.3	4 809	1997 LD ₁₁	1997 06 07.12847	15 16 54.79	-14 30 27.3	4 809
1997 LU ₁₀	1997 06 08.11042	15 13 29.29	-13 31 52.0	4 809	1997 LD ₁₁	1997 06 07.14167	15 16 54.14	-14 30 25.3	4 809
1997 LU ₁₀	1997 06 08.12361	15 13 28.85	-13 31 50.9	4 809	1997 LD ₁₁	1997 06 08.09722	15 16 07.20	-14 27 18.8	4 809
1997 LV ₁₀	* 1997 06 07.11528	15 14 26.80	-14 02 12.2	18.5 4 809	1997 LD ₁₁	1997 06 08.11042	15 16 06.48	-14 27 16.0	4 809
1997 LV ₁₀	1997 06 07.12847	15 14 26.34	-14 02 11.4	4 809	1997 LD ₁₁	1997 06 08.12361	15 16 05.81	-14 27 13.7	4 809
1997 LV ₁₀	1997 06 07.14167	15 14 25.86	-14 02 08.8	4 809	1997 LE ₁₁	* 1997 06 07.11528	15 17 18.15	-13 02 57.7	18.7 4 809
1997 LV ₁₀	1997 06 08.09722	15 13 53.18	-14 00 13.2	4 809	1997 LE ₁₁	1997 06 07.12847	15 17 17.66	-13 02 58.7	4 809
1997 LV ₁₀	1997 06 08.11042	15 13 52.73	-14 00 11.5	4 809	1997 LE ₁₁	1997 06 07.14167	15 17 17.25	-13 02 57.2	4 809
1997 LV ₁₀	1997 06 08.12361	15 13 52.24	-14 00 09.2	4 809	1997 LE ₁₁	1997 06 08.09722	15 16 45.05	-13 02 06.5	4 809
1997 LW ₁₀	* 1997 06 07.11528	15 14 37.77	-12 41 42.9	18.3 4 809	1997 LE ₁₁	1997 06 08.11042	15 16 44.54	-13 02 06.4	4 809
1997 LW ₁₀	1997 06 07.12847	15 14 37.14	-12 41 44.4	4 809	1997 LE ₁₁	1997 06 08.12361	15 16 44.04	-13 02 04.8	4 809
1997 LW ₁₀	1997 06 07.14167	15 14 36.51	-12 41 47.0	4 809	1997 LF ₁₁	* 1997 06 07.11528	15 17 19.58	-13 03 11.5	18.6 4 809
1997 LW ₁₀	1997 06 08.09722	15 13 55.29	-12 43 47.7	4 809	1997 LF ₁₁	1997 06 07.12847	15 17 19.08	-13 03 11.1	4 809
1997 LW ₁₀	1997 06 08.11042	15 13 54.69	-12 43 50.2	4 809	1997 LF ₁₁	1997 06 07.14167	15 17 18.50	-13 03 09.4	4 809
1997 LW ₁₀	1997 06 08.12361	15 13 54.10	-12 43 51.6	4 809	1997 LF ₁₁	1997 06 08.09722	15 16 40.92	-13 01 29.8	4 809
1997 LX ₁₀	* 1997 06 07.11528	15 14 43.04	-15 23 57.7	18.5 4 809	1997 LF ₁₁	1997 06 08.11042	15 16 40.31	-13 01 27.7	4 809
1997 LX ₁₀	1997 06 07.12847	15 14 42.49	-15 23 52.0	4 809	1997 LF ₁₁	1997 06 08.12361	15 16 39.80	-13 01 27.8	4 809
1997 LX ₁₀	1997 06 07.14167	15 14 41.93	-15 23 46.8	4 809	1997 LG ₁₁	* 1997 06 07.11528	15 17 39.07	-13 54 02.9	18.7 4 809
1997 LX ₁₀	1997 06 08.09722	15 14 09.26	-15 16 33.0	4 809	1997 LG ₁₁	1997 06 07.12847	15 17 38.39	-13 54 01.6	4 809
1997 LX ₁₀	1997 06 08.11042	15 14 08.68	-15 16 25.8	4 809	1997 LG ₁₁	1997 06 07.14167	15 17 37.83	-13 54 00.5	4 809
1997 LX ₁₀	1997 06 08.12361	15 14 08.23	-15 16 19.8	4 809	1997 LG ₁₁	1997 06 08.09722	15 16 58.73	-13 52 54.4	4 809
1997 LY ₁₀	* 1997 06 07.11528	15 15 04.38	-13 26 10.7	18.6 4 809	1997 LG ₁₁	1997 06 08.11042	15 16 58.00	-13 52 54.3	4 809
1997 LY ₁₀	1997 06 07.12847	15 15 03.86	-13 26 10.9	4 809	1997 LG ₁₁	1997 06 08.12361	15 16 57.55	-13 52 53.2	4 809
1997 LY ₁₀	1997 06 07.14167	15 15 03.32	-13 26 10.9	4 809	1997 LH ₁₁	* 1997 06 07.11528	15 18 37.01	-12 26 40.7	18.5 4 809
1997 LY ₁₀	1997 06 08.09722	15 14 29.13	-13 25 59.9	4 809	1997 LH ₁₁	1997 06 07.12847	15 18 36.40	-12 26 38.4	4 809
1997 LY ₁₀	1997 06 08.11042	15 14 28.61	-13 25 58.7	4 809	1997 LH ₁₁	1997 06 07.14167	15 18 35.94	-12 26 37.0	4 809
1997 LY ₁₀	1997 06 08.12361	15 14 28.09	-13 25 59.0	4 809	1997 LH ₁₁	1997 06 08.09722	15 18 01.61	-12 24 29.8	4 809
1997 LZ ₁₀	* 1997 06 07.11528	15 15 16.94	-16 06 20.0	18.5 4 809	1997 LH ₁₁	1997 06 08.11042	15 18 01.11	-12 24 28.4	4 809
1997 LZ ₁₀	1997 06 07.12847	15 15 16.38	-16 06 20.1	4 809	1997 LH ₁₁	1997 06 08.12361	15 18 00.60	-12 24 25.8	4 809
1997 LZ ₁₀	1997 06 07.14167	15 15 15.85	-16 06 19.3	4 809	1997 LJ ₁₁	* 1997 06 07.11528	15 18 45.66	-15 46 02.8	18.5 4 809
1997 LZ ₁₀	1997 06 08.09722	15 14 39.68	-16 05 02.9	4 809	1997 LJ ₁₁	1997 06 07.12847	15 18 45.04	-15 46 01.5	4 809
1997 LZ ₁₀	1997 06 08.11042	15 14 39.17	-16 05 00.0	4 809	1997 LJ ₁₁	1997 06 07.14167	15 18 44.44	-15 46 01.2	4 809
1997 LZ ₁₀	1997 06 08.12361	15 14 38.66	-16 05 00.3	4 809	1997 LJ ₁₁	1997 06 08.09722	15 18 01.74	-15 45 26.7	4 809
1997 LA ₁₁	* 1997 06 07.11528	15 15 51.70	-12 26 44.3	18.5 4 809	1997 LJ ₁₁	1997 06 08.11042	15 18 01.10	-15 45 25.7	4 809
1997 LA ₁₁	1997 06 07.12847	15 15 51.07	-12 26 42.9	4 809	1997 LJ ₁₁	1997 06 08.12361	15 18 00.44	-15 45 26.6	4 809
1997 LA ₁₁	1997 06 07.14167	15 15 50.37	-12 26 41.6	4 809	1997 LK ₁₁	* 1997 06 07.11528	15 18 46.35	-15 10 57.0	18.6 4 809
1997 LA ₁₁	1997 06 08.09722	15 15 06.19	-12 24 45.1	4 809	1997 LK ₁₁	1997 06 07.12847	15 18 45.82	-15 10 56.9	4 809
1997 LA ₁₁	1997 06 08.11042	15 15 05.45	-12 24 44.0	4 809	1997 LK ₁₁	1997 06 07.14167	15 18 45.34	-15 10 56.2	4 809
1997 LA ₁₁	1997 06 08.12361	15 15 04.93	-12 24 42.9	4 809	1997 LK ₁₁	1997 06 08.09722	15 18 10.58	-15 10 01.8	4 809
1997 LB ₁₁	* 1997 06 07.11528	15 15 53.16	-14 03 33.9	18.5 4 809	1997 LK ₁₁	1997 06 08.11042	15 18 10.02	-15 10 02.7	4 809
1997 LB ₁₁	1997 06 07.12847	15 15 52.43	-14 03 37.8	4 809	1997 LK ₁₁	1997 06 08.12361	15 18 09.51	-15 10 01.3	4 809
1997 LB ₁₁	1997 06 07.14167	15 15 51.78	-14 03 41.6	4 809	1997 LL ₁₁	* 1997 06 07.11528	15 18 47.88	-13 59 39.8	18.5 4 809
1997 LB ₁₁	1997 06 08.09722	15 15 07.03	-14 08 41.1	4 809	1997 LL ₁₁	1997 06 07.12847	15 18 47.18	-13 59 34.2	4 809
1997 LB ₁₁	1997 06 08.11042	15 15 06.39	-14 08 46.1	4 809	1997 LL ₁₁	1997 06 07.14167	15 18 46.60	-13 59 28.8	4 809
1997 LB ₁₁	1997 06 08.12361	15 15 05.74	-14 08 49.7	4 809	1997 LL ₁₁	1997 06 08.09722	15 18 02.73	-13 52 47.0	4 809
1997 LC ₁₁	* 1997 06 07.11528	15 16 43.34	-13 48 13.3	18.5 4 809	1997 LL ₁₁	1997 06 08.11042	15 18 02.06	-13 52 41.1	4 809
1997 LC ₁₁	1997 06 07.12847	15 16 42.78	-13 48 11.2	4 809	1997 LL ₁₁	1997 06 08.12361	15 18 01.50	-13 52 35.7	4 809
1997 LC ₁₁	1997 06 07.14167	15 16 42.20	-13 48 10.1	4 809	1997 LM ₁₁	* 1997 06 07.11528	15 19 08.30	-13 02 41.4	18.6 4 809
1997 LC ₁₁	1997 06 08.09722	15 16 05.72	-13 45 57.8	4 809	1997 LM ₁₁	1997 06 07.12847	15 19 07.62	-13 02 42.5	4 809
1997 LC ₁₁	1997 06 08.11042	15 16 05.20	-13 45 55.7	4 809	1997 LM ₁₁	1997 06 07.14167	15 19 06.88	-13 02 43.1	4 809
1997 LC ₁₁	1997 06 08.12361	15 16 04.62	-13 45 54.2	4 809	1997 LM ₁₁	1997 06 08.09722	15 18 14.31	-13 02 19.4	4 809
1997 LD ₁₁	* 1997 06 07.11528	15 16 55.43	-14 30 30.2	18.5 4 809	1997 LM ₁₁	1997 06 08.11042	15 18 13.70	-13 02 20.4	4 809

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1997 LM ₁₁	1997 06 08.12361	15 18 12.94	-13 02 18.8		4 809	1997 LV ₁₁	1997 06 08.09722	15 20 19.37	-12 57 06.7		4 809
1997 LN ₁₁	* 1997 06 07.11528	15 19 11.70	-14 47 59.6	18.7	4 809	1997 LV ₁₁	1997 06 08.11042	15 20 18.84	-12 57 03.4		4 809
1997 LN ₁₁	1997 06 07.12847	15 19 11.28	-14 48 00.5		4 809	1997 LV ₁₁	1997 06 08.12361	15 20 18.37	-12 57 00.6		4 809
1997 LN ₁₁	1997 06 07.14167	15 19 10.90	-14 48 00.8		4 809	1997 LW ₁₁	* 1997 06 07.11528	15 21 01.99	-15 55 46.1	18.1	4 809
1997 LN ₁₁	1997 06 08.09722	15 18 42.20	-14 48 55.8		4 809	1997 LW ₁₁	1997 06 07.12847	15 21 01.30	-15 55 47.4		4 809
1997 LN ₁₁	1997 06 08.11042	15 18 41.65	-14 48 58.0		4 809	1997 LW ₁₁	1997 06 07.14167	15 21 00.64	-15 55 47.5		4 809
1997 LN ₁₁	1997 06 08.12361	15 18 41.25	-14 48 58.7		4 809	1997 LW ₁₁	1997 06 08.09722	15 20 14.14	-15 56 28.1		4 809
1997 LO ₁₁	* 1997 06 07.11528	15 19 28.60	-14 51 43.1	18.6	4 809	1997 LW ₁₁	1997 06 08.11042	15 20 13.41	-15 56 28.2		4 809
1997 LO ₁₁	1997 06 07.12847	15 19 27.85	-14 51 44.5		4 809	1997 LW ₁₁	1997 06 08.12361	15 20 12.74	-15 56 28.8		4 809
1997 LO ₁₁	1997 06 07.14167	15 19 27.22	-14 51 45.5		4 809	1997 LX ₁₁	* 1997 06 07.11528	15 21 06.43	-15 11 19.3	18.5	4 809
1997 LO ₁₁	1997 06 08.09722	15 18 42.29	-14 53 12.7		4 809	1997 LX ₁₁	1997 06 07.12847	15 21 05.68	-15 11 20.4		4 809
1997 LO ₁₁	1997 06 08.11042	15 18 41.60	-14 53 12.6		4 809	1997 LX ₁₁	1997 06 07.14167	15 21 05.01	-15 11 19.9		4 809
1997 LO ₁₁	1997 06 08.12361	15 18 40.98	-14 53 14.2		4 809	1997 LX ₁₁	1997 06 08.09722	15 20 19.40	-15 12 19.8		4 809
1997 LP ₁₁	* 1997 06 07.11528	15 19 51.64	-16 05 12.1	18.8	4 809	1997 LX ₁₁	1997 06 08.11042	15 20 18.73	-15 12 21.5		4 809
1997 LP ₁₁	1997 06 07.12847	15 19 50.93	-16 05 09.9		4 809	1997 LX ₁₁	1997 06 08.12361	15 20 18.05	-15 12 22.3		4 809
1997 LP ₁₁	1997 06 07.14167	15 19 50.31	-16 05 10.4		4 809	1997 LY ₁₁	* 1997 06 07.11528	15 21 19.81	-12 27 13.3	18.7	4 809
1997 LP ₁₁	1997 06 08.09722	15 19 02.51	-16 04 12.9		4 809	1997 LY ₁₁	1997 06 07.12847	15 21 19.20	-12 27 14.4		4 809
1997 LP ₁₁	1997 06 08.11042	15 19 01.85	-16 04 12.9		4 809	1997 LY ₁₁	1997 06 07.14167	15 21 18.55	-12 27 14.4		4 809
1997 LP ₁₁	1997 06 08.12361	15 19 01.01	-16 04 11.7		4 809	1997 LY ₁₁	1997 06 08.09722	15 20 38.88	-12 28 06.5		4 809
1997 LQ ₁₁	* 1997 06 07.11528	15 20 07.07	-13 38 15.3	19.0	4 809	1997 LY ₁₁	1997 06 08.11042	15 20 38.29	-12 28 06.5		4 809
1997 LQ ₁₁	1997 06 07.12847	15 20 06.28	-13 38 17.9		4 809	1997 LY ₁₁	1997 06 08.12361	15 20 37.73	-12 28 06.5		4 809
1997 LQ ₁₁	1997 06 07.14167	15 20 05.54	-13 38 19.6		4 809	1997 LZ ₁₁	* 1997 06 07.11528	15 21 23.00	-14 49 23.1	18.6	4 809
1997 LQ ₁₁	1997 06 08.09722	15 19 20.20	-13 42 37.6		4 809	1997 LZ ₁₁	1997 06 07.12847	15 21 22.58	-14 49 21.0		4 809
1997 LQ ₁₁	1997 06 08.11042	15 19 19.39	-13 42 39.0		4 809	1997 LZ ₁₁	1997 06 07.14167	15 21 22.24	-14 49 18.4		4 809
1997 LQ ₁₁	1997 06 08.12361	15 19 18.74	-13 42 44.6		4 809	1997 LZ ₁₁	1997 06 08.09722	15 20 58.79	-14 46 38.1		4 809
1997 LR ₁₁	* 1997 06 07.11528	15 20 12.75	-12 55 44.6	18.3	4 809	1997 LZ ₁₁	1997 06 08.11042	15 20 58.42	-14 46 36.1		4 809
1997 LR ₁₁	1997 06 07.12847	15 20 12.05	-12 55 43.0		4 809	1997 LZ ₁₁	1997 06 08.12361	15 20 58.14	-14 46 33.5		4 809
1997 LR ₁₁	1997 06 07.14167	15 20 11.38	-12 55 42.0		4 809	1997 LA ₁₂	* 1997 06 07.11528	15 22 17.58	-16 16 36.0	18.5	4 809
1997 LR ₁₁	1997 06 08.09722	15 19 25.15	-12 53 26.4		4 809	1997 LA ₁₂	1997 06 07.12847	15 22 16.84	-16 16 33.4		4 809
1997 LR ₁₁	1997 06 08.11042	15 19 24.46	-12 53 25.0		4 809	1997 LA ₁₂	1997 06 07.14167	15 22 16.04	-16 16 31.9		4 809
1997 LR ₁₁	1997 06 08.12361	15 19 23.78	-12 53 23.8		4 809	1997 LA ₁₂	1997 06 08.09722	15 21 30.42	-16 13 40.3		4 809
1997 LS ₁₁	* 1997 06 07.11528	15 20 13.03	-15 14 37.5	18.4	4 809	1997 LA ₁₂	1997 06 08.11042	15 21 29.74	-16 13 37.2		4 809
1997 LS ₁₁	1997 06 07.12847	15 20 12.45	-15 14 37.2		4 809	1997 LA ₁₂	1997 06 08.12361	15 21 29.07	-16 13 34.9		4 809
1997 LS ₁₁	1997 06 07.14167	15 20 11.92	-15 14 36.3		4 809	1997 LB ₁₂	* 1997 06 07.11528	15 22 30.57	-13 24 56.0	18.5	4 809
1997 LS ₁₁	1997 06 08.09722	15 19 36.45	-15 13 08.2		4 809	1997 LB ₁₂	1997 06 07.12847	15 22 29.89	-13 24 54.9		4 809
1997 LS ₁₁	1997 06 08.11042	15 19 35.90	-15 13 07.6		4 809	1997 LB ₁₂	1997 06 07.14167	15 22 29.27	-13 24 54.2		4 809
1997 LS ₁₁	1997 06 08.12361	15 19 35.37	-15 13 06.7		4 809	1997 LB ₁₂	1997 06 08.09722	15 21 46.74	-13 23 21.2		4 809
1997 LT ₁₁	* 1997 06 07.11528	15 20 23.50	-14 53 14.8	18.5	4 809	1997 LB ₁₂	1997 06 08.11042	15 21 46.12	-13 23 20.2		4 809
1997 LT ₁₁	1997 06 07.12847	15 20 22.73	-14 53 11.9		4 809	1997 LB ₁₂	1997 06 08.12361	15 21 45.49	-13 23 18.2		4 809
1997 LT ₁₁	1997 06 07.14167	15 20 22.08	-14 53 09.0		4 809	1997 LC ₁₂	* 1997 06 07.11528	15 22 34.70	-13 36 08.0	18.4	4 809
1997 LT ₁₁	1997 06 08.09722	15 19 36.38	-14 50 03.3		4 809	1997 LC ₁₂	1997 06 07.12847	15 22 33.91	-13 36 08.8		4 809
1997 LT ₁₁	1997 06 08.11042	15 19 35.60	-14 49 59.9		4 809	1997 LC ₁₂	1997 06 07.14167	15 22 33.16	-13 36 10.5		4 809
1997 LT ₁₁	1997 06 08.12361	15 19 35.05	-14 49 58.0		4 809	1997 LC ₁₂	1997 06 08.09722	15 21 43.21	-13 37 49.3		4 809
1997 LU ₁₁	* 1997 06 07.11528	15 20 38.30	-15 36 30.5	19.7	4 809	1997 LC ₁₂	1997 06 08.11042	15 21 42.53	-13 37 50.3		4 809
1997 LU ₁₁	1997 06 07.12847	15 20 37.66	-15 36 29.1		4 809	1997 LC ₁₂	1997 06 08.12361	15 21 41.79	-13 37 53.0		4 809
1997 LU ₁₁	1997 06 07.14167	15 20 37.06	-15 36 28.7		4 809	1997 LD ₁₂	* 1997 06 07.11528	15 23 04.93	-11 36 42.2	18.4	4 809
1997 LU ₁₁	1997 06 08.09722	15 19 52.74	-15 34 02.6		4 809	1997 LD ₁₂	1997 06 07.12847	15 23 04.23	-11 36 39.9		4 809
1997 LU ₁₁	1997 06 08.11042	15 19 52.16	-15 34 01.2		4 809	1997 LD ₁₂	1997 06 07.14167	15 23 03.56	-11 36 37.3		4 809
1997 LU ₁₁	1997 06 08.12361	15 19 51.50	-15 33 59.1		4 809	1997 LD ₁₂	1997 06 08.09722	15 22 17.96	-11 33 58.4		4 809
1997 LV ₁₁	* 1997 06 07.11528	15 20 54.09	-13 00 44.8	18.5	4 809	1997 LD ₁₂	1997 06 08.11042	15 22 17.29	-11 33 56.3		4 809
1997 LV ₁₁	1997 06 07.12847	15 20 53.61	-13 00 42.0		4 809	1997 LD ₁₂	1997 06 08.12361	15 22 16.61	-11 33 53.8		4 809
1997 LV ₁₁	1997 06 07.14167	15 20 53.13	-13 00 39.3		4 809	1997 LE ₁₂	* 1997 06 07.11528	15 23 39.75	-13 42 40.3	18.4	4 809

1997 LE ₁₂	1997 06 07.12847	15 23 39.01	-13 42 37.4	4 809	1997 LN ₁₂	1997 06 08.12361	15 24 21.15	-14 32 03.1	4 809
1997 LE ₁₂	1997 06 07.14167	15 23 38.41	-13 42 34.1	4 809	1997 LO ₁₂	* 1997 06 07.11528	15 25 05.15	-13 34 22.1	18.5 4 809
1997 LE ₁₂	1997 06 08.09722	15 22 55.67	-13 38 57.7	4 809	1997 LO ₁₂	1997 06 07.12847	15 25 04.55	-13 34 22.1	4 809
1997 LE ₁₂	1997 06 08.11042	15 22 55.09	-13 38 54.2	4 809	1997 LO ₁₂	1997 06 07.14167	15 25 03.94	-13 34 22.6	4 809
1997 LE ₁₂	1997 06 08.12361	15 22 54.51	-13 38 51.3	4 809	1997 LO ₁₂	1997 06 08.09722	15 24 18.53	-13 34 25.9	4 809
1997 LF ₁₂	* 1997 06 07.11528	15 24 07.38	-13 02 57.9	18.4 4 809	1997 LO ₁₂	1997 06 08.11042	15 24 17.92	-13 34 26.7	4 809
1997 LF ₁₂	1997 06 07.12847	15 24 06.84	-13 02 57.6	4 809	1997 LO ₁₂	1997 06 08.12361	15 24 17.27	-13 34 26.0	4 809
1997 LF ₁₂	1997 06 07.14167	15 24 06.30	-13 02 57.4	4 809	1997 LP ₁₂	* 1997 06 07.11528	15 25 06.74	-15 29 46.0	18.5 4 809
1997 LF ₁₂	1997 06 08.09722	15 23 29.51	-13 02 17.0	4 809	1997 LP ₁₂	1997 06 07.12847	15 25 06.05	-15 29 46.1	4 809
1997 LF ₁₂	1997 06 08.11042	15 23 28.99	-13 02 16.9	4 809	1997 LP ₁₂	1997 06 07.14167	15 25 05.32	-15 29 46.0	4 809
1997 LF ₁₂	1997 06 08.12361	15 23 28.48	-13 02 15.3	4 809	1997 LP ₁₂	1997 06 08.11042	15 24 13.45	-15 30 07.3	4 809
1997 LG ₁₂	* 1997 06 07.11528	15 24 28.57	-13 32 01.7	18.5 4 809	1997 LQ ₁₂	* 1997 06 07.11528	15 25 11.52	-11 02 50.8	18.7 4 809
1997 LG ₁₂	1997 06 07.12847	15 24 27.86	-13 32 00.1	4 809	1997 LQ ₁₂	1997 06 07.12847	15 25 10.91	-11 02 48.6	4 809
1997 LG ₁₂	1997 06 07.14167	15 24 27.18	-13 31 58.4	4 809	1997 LQ ₁₂	1997 06 07.14167	15 25 10.37	-11 02 48.2	4 809
1997 LG ₁₂	1997 06 08.09722	15 23 41.64	-13 30 14.8	4 809	1997 LQ ₁₂	1997 06 08.09722	15 24 31.55	-11 00 52.5	4 809
1997 LG ₁₂	1997 06 08.11042	15 23 41.01	-13 30 11.7	4 809	1997 LQ ₁₂	1997 06 08.11042	15 24 30.98	-11 00 51.4	4 809
1997 LG ₁₂	1997 06 08.12361	15 23 40.28	-13 30 10.8	4 809	1997 LQ ₁₂	1997 06 08.12361	15 24 30.47	-11 00 49.4	4 809
1997 LH ₁₂	* 1997 06 07.11528	15 24 35.52	-13 15 18.7	18.4 4 809	1997 LR ₁₂	* 1997 06 07.11528	15 25 18.37	-13 19 04.1	18.5 4 809
1997 LH ₁₂	1997 06 07.12847	15 24 34.91	-13 15 18.5	4 809	1997 LR ₁₂	1997 06 07.12847	15 25 17.69	-13 19 04.7	4 809
1997 LH ₁₂	1997 06 07.14167	15 24 34.31	-13 15 20.0	4 809	1997 LR ₁₂	1997 06 07.14167	15 25 17.11	-13 19 02.9	4 809
1997 LH ₁₂	1997 06 08.09722	15 23 56.44	-13 15 44.1	4 809	1997 LR ₁₂	1997 06 08.09722	15 24 32.95	-13 18 01.9	4 809
1997 LH ₁₂	1997 06 08.11042	15 23 55.96	-13 15 44.3	4 809	1997 LR ₁₂	1997 06 08.11042	15 24 32.28	-13 18 00.6	4 809
1997 LH ₁₂	1997 06 08.12361	15 23 55.38	-13 15 45.0	4 809	1997 LR ₁₂	1997 06 08.12361	15 24 31.69	-13 17 59.5	4 809
1997 LJ ₁₂	* 1997 06 07.11528	15 24 43.71	-14 54 40.2	18.5 4 809	1997 LS ₁₂	* 1997 06 07.11528	15 25 28.05	-11 58 56.4	18.7 4 809
1997 LJ ₁₂	1997 06 07.12847	15 24 43.03	-14 54 43.8	4 809	1997 LS ₁₂	1997 06 07.12847	15 25 27.52	-11 58 58.0	4 809
1997 LJ ₁₂	1997 06 07.14167	15 24 42.28	-14 54 47.2	4 809	1997 LS ₁₂	1997 06 07.14167	15 25 26.93	-11 58 59.6	4 809
1997 LJ ₁₂	1997 06 08.09722	15 23 52.46	-14 59 08.1	4 809	1997 LS ₁₂	1997 06 08.09722	15 24 48.98	-12 00 56.9	4 809
1997 LJ ₁₂	1997 06 08.11042	15 23 51.72	-14 59 11.8	4 809	1997 LS ₁₂	1997 06 08.11042	15 24 48.25	-12 01 00.9	4 809
1997 LJ ₁₂	1997 06 08.12361	15 23 50.97	-14 59 15.7	4 809	1997 LS ₁₂	1997 06 08.12361	15 24 47.76	-12 01 01.7	4 809
1997 LK ₁₂	* 1997 06 07.11528	15 24 47.97	-13 01 26.6	18.4 4 809	1997 LT ₁₂	* 1997 06 07.11528	15 25 43.54	-10 58 03.6	18.3 4 809
1997 LK ₁₂	1997 06 07.12847	15 24 47.48	-13 01 23.8	4 809	1997 LT ₁₂	1997 06 07.12847	15 25 42.93	-10 58 03.8	4 809
1997 LK ₁₂	1997 06 07.14167	15 24 46.97	-13 01 19.3	4 809	1997 LT ₁₂	1997 06 07.14167	15 25 42.38	-10 58 03.3	4 809
1997 LK ₁₂	1997 06 08.09722	15 24 13.09	-12 57 04.5	4 809	1997 LT ₁₂	1997 06 08.09722	15 25 03.55	-10 57 35.5	4 809
1997 LK ₁₂	1997 06 08.11042	15 24 12.60	-12 57 01.5	4 809	1997 LT ₁₂	1997 06 08.11042	15 25 02.99	-10 57 34.9	4 809
1997 LK ₁₂	1997 06 08.12361	15 24 12.11	-12 56 58.3	4 809	1997 LT ₁₂	1997 06 08.12361	15 25 02.42	-10 57 34.6	4 809
1997 LL ₁₂	* 1997 06 07.11528	15 24 59.42	-13 27 11.6	18.4 4 809	1997 LU ₁₂	* 1997 06 07.11528	15 25 44.38	-12 20 10.3	18.5 4 809
1997 LL ₁₂	1997 06 07.12847	15 24 58.77	-13 27 13.2	4 809	1997 LU ₁₂	1997 06 07.12847	15 25 43.72	-12 20 09.8	4 809
1997 LL ₁₂	1997 06 07.14167	15 24 58.07	-13 27 14.6	4 809	1997 LU ₁₂	1997 06 07.14167	15 25 43.21	-12 20 08.8	4 809
1997 LL ₁₂	1997 06 08.09722	15 24 10.90	-13 28 56.2	4 809	1997 LU ₁₂	1997 06 08.09722	15 25 04.22	-12 18 59.9	4 809
1997 LL ₁₂	1997 06 08.11042	15 24 10.20	-13 28 58.1	4 809	1997 LU ₁₂	1997 06 08.11042	15 25 03.50	-12 18 59.5	4 809
1997 LL ₁₂	1997 06 08.12361	15 24 09.57	-13 28 59.6	4 809	1997 LU ₁₂	1997 06 08.12361	15 25 03.00	-12 18 59.0	4 809
1997 LM ₁₂	* 1997 06 07.11528	15 25 02.63	-16 11 32.5	18.4 4 809	1997 LV ₁₂	* 1997 06 07.11528	15 25 52.16	-11 57 14.4	18.6 4 809
1997 LM ₁₂	1997 06 07.12847	15 25 01.88	-16 11 34.4	4 809	1997 LV ₁₂	1997 06 07.12847	15 25 51.78	-11 57 12.5	4 809
1997 LM ₁₂	1997 06 07.14167	15 25 01.22	-16 11 36.4	4 809	1997 LV ₁₂	1997 06 07.14167	15 25 51.42	-11 57 10.9	4 809
1997 LM ₁₂	1997 06 08.09722	15 24 15.96	-16 13 32.1	4 809	1997 LV ₁₂	1997 06 08.09722	15 25 26.95	-11 54 34.6	4 809
1997 LM ₁₂	1997 06 08.11042	15 24 15.32	-16 13 33.4	4 809	1997 LV ₁₂	1997 06 08.11042	15 25 26.62	-11 54 32.2	4 809
1997 LM ₁₂	1997 06 08.12361	15 24 14.68	-16 13 35.7	4 809	1997 LV ₁₂	1997 06 08.12361	15 25 26.28	-11 54 29.5	4 809
1997 LN ₁₂	* 1997 06 07.11528	15 25 04.65	-14 32 22.4	18.7 4 809	1997 LW ₁₂	* 1997 06 07.11528	15 26 11.42	-14 40 12.2	18.4 4 809
1997 LN ₁₂	1997 06 07.12847	15 25 04.08	-14 32 21.6	4 809	1997 LW ₁₂	1997 06 07.12847	15 26 10.83	-14 40 07.1	4 809
1997 LN ₁₂	1997 06 07.14167	15 25 03.52	-14 32 22.2	4 809	1997 LW ₁₂	1997 06 07.14167	15 26 10.28	-14 40 01.8	4 809
1997 LN ₁₂	1997 06 08.09722	15 24 22.24	-14 32 03.8	4 809	1997 LW ₁₂	1997 06 08.09722	15 25 31.90	-14 33 30.5	4 809
1997 LN ₁₂	1997 06 08.11042	15 24 21.73	-14 32 04.4	4 809	1997 LW ₁₂	1997 06 08.11042	15 25 31.37	-14 33 24.8	4 809

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1997 LW ₁₂	1997 06 08.12361	15 25 30.84	-14 33 19.9		4 809	1997 LF ₁₃	1997 06 08.09722	15 28 35.74	-13 39 00.1		4 809
1997 LX ₁₂	* 1997 06 07.11528	15 26 27.04	-15 03 34.5	18.4	4 809	1997 LF ₁₃	1997 06 08.11042	15 28 35.18	-13 38 56.6		4 809
1997 LX ₁₂	1997 06 07.12847	15 26 26.40	-15 03 34.4		4 809	1997 LF ₁₃	1997 06 08.12361	15 28 34.71	-13 38 53.8		4 809
1997 LX ₁₂	1997 06 07.14167	15 26 25.80	-15 03 32.9		4 809	1997 LG ₁₃	* 1997 06 07.11528	15 29 25.35	-13 30 05.7	18.8	4 809
1997 LX ₁₂	1997 06 08.09722	15 25 46.31	-15 02 17.9		4 809	1997 LG ₁₃	1997 06 07.12847	15 29 24.70	-13 30 04.6		4 809
1997 LX ₁₂	1997 06 08.11042	15 25 45.67	-15 02 17.4		4 809	1997 LG ₁₃	1997 06 07.14167	15 29 24.00	-13 30 05.2		4 809
1997 LX ₁₂	1997 06 08.12361	15 25 45.07	-15 02 16.8		4 809	1997 LG ₁₃	1997 06 08.09722	15 28 39.06	-13 29 54.0		4 809
1997 LY ₁₂	* 1997 06 07.11528	15 26 28.14	-14 58 22.6	18.6	4 809	1997 LG ₁₃	1997 06 08.11042	15 28 38.47	-13 29 53.3		4 809
1997 LY ₁₂	1997 06 07.12847	15 26 27.52	-14 58 23.6		4 809	1997 LG ₁₃	1997 06 08.12361	15 28 37.87	-13 29 52.3		4 809
1997 LY ₁₂	1997 06 07.14167	15 26 27.06	-14 58 22.7		4 809	1997 LH ₁₃	* 1997 06 07.11528	15 29 29.09	-13 36 31.3	18.6	4 809
1997 LY ₁₂	1997 06 08.09722	15 25 50.02	-14 57 58.8		4 809	1997 LH ₁₃	1997 06 07.12847	15 29 28.28	-13 36 31.6		4 809
1997 LY ₁₂	1997 06 08.11042	15 25 49.44	-14 57 58.0		4 809	1997 LH ₁₃	1997 06 07.14167	15 29 27.62	-13 36 30.5		4 809
1997 LY ₁₂	1997 06 08.12361	15 25 48.91	-14 57 56.7		4 809	1997 LH ₁₃	1997 06 08.09722	15 28 42.02	-13 35 51.9		4 809
1997 LZ ₁₂	* 1997 06 07.11528	15 27 11.81	-15 39 30.3	18.7	4 809	1997 LH ₁₃	1997 06 08.11042	15 28 41.37	-13 35 52.4		4 809
1997 LZ ₁₂	1997 06 07.12847	15 27 11.19	-15 39 31.9		4 809	1997 LH ₁₃	1997 06 08.12361	15 28 40.67	-13 35 52.0		4 809
1997 LZ ₁₂	1997 06 07.14167	15 27 10.57	-15 39 31.3		4 809	1997 LJ ₁₃	* 1997 06 07.11528	15 29 33.03	-14 08 13.6	18.5	4 809
1997 LZ ₁₂	1997 06 08.09722	15 26 29.43	-15 39 10.0		4 809	1997 LJ ₁₃	1997 06 07.12847	15 29 32.43	-14 08 11.5		4 809
1997 LZ ₁₂	1997 06 08.11042	15 26 28.87	-15 39 09.1		4 809	1997 LJ ₁₃	1997 06 07.14167	15 29 31.87	-14 08 09.5		4 809
1997 LZ ₁₂	1997 06 08.12361	15 26 28.21	-15 39 10.0		4 809	1997 LJ ₁₃	1997 06 08.09722	15 28 52.25	-14 05 46.3		4 809
1997 LA ₁₃	* 1997 06 07.11528	15 27 14.84	-14 37 40.7	18.5	4 809	1997 LJ ₁₃	1997 06 08.11042	15 28 51.67	-14 05 44.3		4 809
1997 LA ₁₃	1997 06 07.12847	15 27 14.17	-14 37 41.0		4 809	1997 LJ ₁₃	1997 06 08.12361	15 28 51.12	-14 05 42.0		4 809
1997 LA ₁₃	1997 06 07.14167	15 27 13.45	-14 37 39.1		4 809	1997 LK ₁₃	* 1997 06 07.11528	15 30 23.79	-14 32 06.5	18.6	4 809
1997 LA ₁₃	1997 06 08.09722	15 26 25.09	-14 36 36.1		4 809	1997 LK ₁₃	1997 06 07.12847	15 30 23.41	-14 32 05.5		4 809
1997 LA ₁₃	1997 06 08.11042	15 26 24.22	-14 36 35.7		4 809	1997 LK ₁₃	1997 06 07.14167	15 30 23.07	-14 32 05.4		4 809
1997 LA ₁₃	1997 06 08.12361	15 26 23.65	-14 36 34.8		4 809	1997 LK ₁₃	1997 06 08.09722	15 29 58.15	-14 30 57.5		4 809
1997 LB ₁₃	* 1997 06 07.11528	15 27 48.50	-14 55 32.0	18.3	4 809	1997 LK ₁₃	1997 06 08.11042	15 29 57.81	-14 30 56.9		4 809
1997 LB ₁₃	1997 06 07.12847	15 27 47.92	-14 55 28.6		4 809	1997 LK ₁₃	1997 06 08.12361	15 29 57.43	-14 30 54.7		4 809
1997 LB ₁₃	1997 06 07.14167	15 27 47.30	-14 55 24.5		4 809	1997 LK ₁₃	1997 06 08.14097	15 29 57.09	-14 30 55.1	18.5	4 809
1997 LB ₁₃	1997 06 08.09722	15 27 06.14	-14 51 02.8		4 809	1997 LK ₁₃	1997 06 08.15417	15 29 56.72	-14 30 54.4		4 809
1997 LB ₁₃	1997 06 08.11042	15 27 05.52	-14 50 58.2		4 809	1997 LK ₁₃	1997 06 08.16736	15 29 56.37	-14 30 53.3		4 809
1997 LB ₁₃	1997 06 08.12361	15 27 04.94	-14 50 55.2		4 809	1997 LL ₁₃	* 1997 06 07.11528	15 30 24.28	-14 56 57.9	18.5	4 809
1997 LC ₁₃	* 1997 06 07.11528	15 27 52.62	-14 15 45.9	18.4	4 809	1997 LL ₁₃	1997 06 07.12847	15 30 23.65	-14 56 56.8		4 809
1997 LC ₁₃	1997 06 07.12847	15 27 52.01	-14 15 44.5		4 809	1997 LL ₁₃	1997 06 07.14167	15 30 23.08	-14 56 55.2		4 809
1997 LC ₁₃	1997 06 07.14167	15 27 51.41	-14 15 41.6		4 809	1997 LL ₁₃	1997 06 08.09722	15 29 43.45	-14 55 07.7		4 809
1997 LC ₁₃	1997 06 08.09722	15 27 12.22	-14 13 07.2		4 809	1997 LL ₁₃	1997 06 08.11042	15 29 42.90	-14 55 05.8		4 809
1997 LC ₁₃	1997 06 08.11042	15 27 11.68	-14 13 05.0		4 809	1997 LL ₁₃	1997 06 08.12361	15 29 42.26	-14 55 05.3		4 809
1997 LC ₁₃	1997 06 08.12361	15 27 11.09	-14 13 02.3		4 809	1997 LM ₁₃	* 1997 06 07.11528	15 30 38.67	-15 13 06.1	18.4	4 809
1997 LD ₁₃	* 1997 06 07.11528	15 28 33.89	-14 55 15.0	18.3	4 809	1997 LM ₁₃	1997 06 07.12847	15 30 37.89	-15 13 04.4		4 809
1997 LD ₁₃	1997 06 07.12847	15 28 33.36	-14 55 11.0		4 809	1997 LM ₁₃	1997 06 07.14167	15 30 37.08	-15 13 02.1		4 809
1997 LD ₁₃	1997 06 07.14167	15 28 32.82	-14 55 07.6		4 809	1997 LM ₁₃	1997 06 08.09722	15 29 44.25	-15 10 24.4		4 809
1997 LD ₁₃	1997 06 08.09722	15 27 56.72	-14 50 54.7		4 809	1997 LM ₁₃	1997 06 08.11042	15 29 43.50	-15 10 22.1		4 809
1997 LD ₁₃	1997 06 08.11042	15 27 56.15	-14 50 51.5		4 809	1997 LM ₁₃	1997 06 08.12361	15 29 42.78	-15 10 19.7		4 809
1997 LD ₁₃	1997 06 08.12361	15 27 55.63	-14 50 47.5		4 809	1997 LN ₁₃	* 1997 06 07.11528	15 30 45.35	-15 16 10.7	18.6	4 809
1997 LE ₁₃	* 1997 06 07.11528	15 28 50.87	-15 10 22.6	18.8	4 809	1997 LN ₁₃	1997 06 07.12847	15 30 44.77	-15 16 09.4		4 809
1997 LE ₁₃	1997 06 07.12847	15 28 50.25	-15 10 23.3		4 809	1997 LN ₁₃	1997 06 07.14167	15 30 44.08	-15 16 08.6		4 809
1997 LE ₁₃	1997 06 07.14167	15 28 49.56	-15 10 23.7		4 809	1997 LN ₁₃	1997 06 08.09722	15 29 58.08	-15 14 51.8	18.6	4 809
1997 LE ₁₃	1997 06 08.09722	15 28 08.06	-15 09 50.3		4 809	1997 LN ₁₃	1997 06 08.11042	15 29 57.40	-15 14 49.1		4 809
1997 LE ₁₃	1997 06 08.11042	15 28 07.46	-15 09 50.2		4 809	1997 LN ₁₃	1997 06 08.12361	15 29 56.62	-15 14 48.2		4 809
1997 LE ₁₃	1997 06 08.12361	15 28 06.76	-15 09 49.4		4 809	1997 LO ₁₃	* 1997 06 07.11528	15 31 15.88	-14 56 08.4	18.4	4 809
1997 LF ₁₃	* 1997 06 07.11528	15 29 15.59	-13 42 53.8	18.5	4 809	1997 LO ₁₃	1997 06 07.12847	15 31 15.20	-14 56 08.7		4 809
1997 LF ₁₃	1997 06 07.12847	15 29 14.96	-13 42 50.4		4 809	1997 LO ₁₃	1997 06 07.14167	15 31 14.52	-14 56 09.3		4 809
1997 LF ₁₃	1997 06 07.14167	15 29 14.40	-13 42 48.0		4 809	1997 LO ₁₃	1997 06 08.09722	15 30 30.60	-14 56 44.2		4 809

1997 LO ₁₃	1997 06 08.11042	15 30 29.88	-14 56 44.5		4 809	4593 P-L	1997 06 08.08056	15 02 33.20	-14 03 59.5		4 809
1997 LO ₁₃	1997 06 08.12361	15 30 29.19	-14 56 45.7		4 809	3058 T-1	1997 03 11.24167	13 00 51.98	-09 14 32.6	18.4	4 809
1997 LO ₁₃	1997 06 08.14097	15 30 28.60	-14 56 45.8	18.3	4 809	3058 T-1	1997 03 11.25486	13 00 51.36	-09 14 31.1		4 809
1997 LO ₁₃	1997 06 08.15417	15 30 27.91	-14 56 46.6		4 809	3058 T-1	1997 03 11.26806	13 00 50.64	-09 14 29.5		4 809
1997 LO ₁₃	1997 06 08.16736	15 30 27.31	-14 56 47.8		4 809	3058 T-1	1997 03 12.18542	13 00 05.01	-09 12 32.2		4 809
1997 LP ₁₃	* 1997 06 07.11528	15 31 16.45	-14 06 26.5	18.0	4 809	3058 T-1	1997 03 12.19861	13 00 04.29	-09 12 31.6		4 809
1997 LP ₁₃	1997 06 07.12847	15 31 15.75	-14 06 28.0		4 809	3058 T-1	1997 03 12.21181	13 00 03.58	-09 12 29.6		4 809
1997 LP ₁₃	1997 06 07.14167	15 31 15.08	-14 06 29.6		4 809	1105 T-2	1997 06 07.11528	15 30 49.95	-15 23 33.9	18.5	4 809
1997 LP ₁₃	1997 06 08.09722	15 30 32.47	-14 08 30.4		4 809	1105 T-2	1997 06 07.12847	15 30 49.34	-15 23 31.6		4 809
1997 LP ₁₃	1997 06 08.11042	15 30 31.77	-14 08 32.3		4 809	1105 T-2	1997 06 07.14167	15 30 48.77	-15 23 30.3		4 809
1997 LP ₁₃	1997 06 08.12361	15 30 31.19	-14 08 34.1		4 809	1105 T-2	1997 06 08.09722	15 30 07.77	-15 21 12.8	18.5	4 809
1997 LP ₁₃	1997 06 08.14097	15 30 30.45	-14 08 33.9	18.0	4 809	1105 T-2	1997 06 08.11042	15 30 07.20	-15 21 10.3		4 809
1997 LP ₁₃	1997 06 08.15417	15 30 29.77	-14 08 35.5		4 809	1105 T-2	1997 06 08.12361	15 30 06.55	-15 21 07.7		4 809
1997 LP ₁₃	1997 06 08.16736	15 30 29.18	-14 08 36.9		4 809	1157 T-2	1997 06 07.04931	14 54 20.14	-13 45 02.6	18.4	4 809
1997 LQ ₁₃	* 1997 06 07.11528	15 31 27.15	-13 51 18.4	18.9	4 809	1157 T-2	1997 06 07.06250	14 54 19.76	-13 45 00.9		4 809
1997 LQ ₁₃	1997 06 07.12847	15 31 26.70	-13 51 17.2		4 809	1157 T-2	1997 06 07.07569	14 54 19.38	-13 44 59.1		4 809
1997 LQ ₁₃	1997 06 07.14167	15 31 26.07	-13 51 16.2		4 809	1157 T-2	1997 06 08.05417	14 53 54.95	-13 42 39.1		4 809
1997 LQ ₁₃	1997 06 08.09722	15 30 46.13	-13 49 17.7		4 809	1157 T-2	1997 06 08.06736	14 53 54.60	-13 42 37.9		4 809
1997 LQ ₁₃	1997 06 08.11042	15 30 45.40	-13 49 13.8		4 809	1157 T-2	1997 06 08.08056	14 53 54.21	-13 42 35.9		4 809
1997 LQ ₁₃	1997 06 08.12361	15 30 44.93	-13 49 13.5		4 809	3340 T-3	1997 06 07.11528	15 11 38.94	-13 16 01.6	18.5	4 809
1997 LR ₁₃	* 1997 06 07.11528	15 31 28.96	-14 58 49.0	18.5	4 809	3340 T-3	1997 06 07.12847	15 11 38.42	-13 15 59.7		4 809
1997 LR ₁₃	1997 06 07.12847	15 31 28.38	-14 58 48.7		4 809	3340 T-3	1997 06 07.14167	15 11 37.99	-13 15 58.5		4 809
1997 LR ₁₃	1997 06 07.14167	15 31 27.82	-14 58 49.3		4 809	3340 T-3	1997 06 08.05417	15 11 08.01	-13 14 35.0		4 809
1997 LR ₁₃	1997 06 08.09722	15 30 49.20	-14 58 13.0		4 809	3340 T-3	1997 06 08.06736	15 11 07.57	-13 14 33.3		4 809
1997 LR ₁₃	1997 06 08.11042	15 30 48.73	-14 58 13.7		4 809	3340 T-3	1997 06 08.08056	15 11 07.14	-13 14 32.1		4 809
1997 LR ₁₃	1997 06 08.12361	15 30 48.17	-14 58 13.1		4 809	3340 T-3	1997 06 08.09722	15 11 06.86	-13 14 28.5		4 809
1997 LR ₁₃	1997 06 08.14097	15 30 47.67	-14 58 12.5	18.5	4 809	3340 T-3	1997 06 08.11042	15 11 06.35	-13 14 27.0		4 809
1997 LR ₁₃	1997 06 08.15417	15 30 47.09	-14 58 13.1		4 809	3340 T-3	1997 06 08.12361	15 11 05.91	-13 14 25.9		4 809
1997 LR ₁₃	1997 06 08.16736	15 30 46.51	-14 58 13.0		4 809	4046 T-3	1997 06 08.14097	15 38 24.26	-11 58 28.5	18.0	4 809
1997 LS ₁₃	* 1997 06 07.11528	15 31 39.87	-14 36 07.1	17.9	4 809	4046 T-3	1997 06 08.15417	15 38 23.54	-11 58 29.4		4 809
1997 LS ₁₃	1997 06 07.12847	15 31 39.27	-14 36 00.0		4 809	4046 T-3	1997 06 08.16736	15 38 22.88	-11 58 30.7		4 809
1997 LS ₁₃	1997 06 07.14167	15 31 38.73	-14 35 54.0		4 809	4046 T-3	1997 06 09.07083	15 37 40.91	-12 00 00.3		4 809
1997 LS ₁₃	1997 06 08.09722	15 31 00.83	-14 28 00.3		4 809	4046 T-3	1997 06 09.08403	15 37 40.30	-12 00 01.2		4 809
1997 LS ₁₃	1997 06 08.11042	15 31 00.25	-14 27 53.8		4 809	4046 T-3	1997 06 09.09722	15 37 39.58	-12 00 02.7		4 809
1997 LS ₁₃	1997 06 08.12361	15 30 59.73	-14 27 47.1		4 809	(554)	1997 03 11.24167	12 54 28.59	-10 35 48.6	14.0	4 809
1997 LS ₁₃	1997 06 08.14097	15 30 59.16	-14 27 37.5	18.0	4 809	(554)	1997 03 11.25486	12 54 27.89	-10 35 46.1		4 809
1997 LS ₁₃	1997 06 08.15417	15 30 58.59	-14 27 31.1		4 809	(554)	1997 03 11.26806	12 54 27.23	-10 35 43.9		4 809
1997 LS ₁₃	1997 06 08.16736	15 30 58.01	-14 27 24.9		4 809	(554)	1997 03 12.18542	12 53 44.51	-10 32 28.3		4 809
1997 LS ₁₃	1997 06 09.07083	15 30 23.28	-14 20 08.2		4 809	(554)	1997 03 12.19861	12 53 43.80	-10 32 25.5		4 809
1997 LS ₁₃	1997 06 09.08403	15 30 22.71	-14 20 01.6		4 809	(554)	1997 03 12.21181	12 53 43.10	-10 32 22.4		4 809
1997 LS ₁₃	1997 06 09.09722	15 30 22.15	-14 19 55.3		4 809	(1274)	1997 03 11.24167	12 52 45.36	-11 02 00.9	16.0	4 809
1997 MQ ₆	1997 06 08.14097	15 40 03.27	-11 56 49.8	18.4	4 809	(1274)	1997 03 11.25486	12 52 44.72	-11 02 00.3		4 809
1997 MQ ₆	1997 06 08.15417	15 40 02.65	-11 56 51.2		4 809	(1274)	1997 03 11.26806	12 52 44.08	-11 02 01.1		4 809
1997 MQ ₆	1997 06 08.16736	15 40 01.99	-11 56 52.9		4 809	(1274)	1997 03 12.18542	12 52 05.33	-11 01 53.3		4 809
1997 MQ ₆	1997 06 09.07083	15 39 19.03	-11 59 03.6		4 809	(1274)	1997 03 12.19861	12 52 04.65	-11 01 53.5		4 809
1997 MQ ₆	1997 06 09.08403	15 39 18.44	-11 59 05.3		4 809	(1274)	1997 03 12.21181	12 52 04.02	-11 01 53.2		4 809
1997 MQ ₆	1997 06 09.09722	15 39 17.77	-11 59 07.0		4 809	(1335)	1997 06 07.04931	15 09 55.92	-13 44 36.1	18.0	4 809
4593 P-L	1997 06 07.04931	15 03 10.20	-14 06 13.6	18.4	4 809	(1335)	1997 06 07.06250	15 09 55.27	-13 44 33.0		4 809
4593 P-L	1997 06 07.06250	15 03 09.75	-14 06 11.0		4 809	(1335)	1997 06 07.07569	15 09 54.60	-13 44 31.5		4 809
4593 P-L	1997 06 07.07569	15 03 09.24	-14 06 09.9		4 809	(1335)	1997 06 07.11528	15 09 52.76	-13 44 23.6	18.0	4 809
4593 P-L	1997 06 08.05417	15 02 34.18	-14 04 02.6		4 809	(1335)	1997 06 07.12847	15 09 52.07	-13 44 21.4		4 809
4593 P-L	1997 06 08.06736	15 02 33.73	-14 04 01.8		4 809	(1335)	1997 06 07.14167	15 09 51.44	-13 44 19.5		4 809

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(1335)	1997 06 08.05417	15 09 09.31	-13 41 50.8		4 809	(2810)	1997 03 11.25486	13 09 25.63	-09 07 41.4		4 809
(1335)	1997 06 08.06736	15 09 08.72	-13 41 49.2		4 809	(2810)	1997 03 11.26806	13 09 25.11	-09 07 34.8		4 809
(1335)	1997 06 08.08056	15 09 08.07	-13 41 47.0		4 809	(2810)	1997 03 12.18542	13 08 54.32	-09 00 00.2		4 809
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(1635)	1997 06 07.12847	15 13 13.65	-15 38 01.6		4 809	(2814)	1997 06 07.14167	15 11 01.77	-14 01 29.7		4 809
(1635)	1997 06 07.14167	15 13 13.10	-15 38 00.2		4 809	(2814)	1997 06 08.05417	15 10 27.85	-13 59 46.5		4 809
(1635)	1997 06 08.09722	15 12 37.21	-15 35 39.6		4 809	(2814)	1997 06 08.06736	15 10 27.39	-13 59 44.7		4 809
(1635)	1997 06 08.11042	15 12 36.69	-15 35 38.2		4 809	(2814)	1997 06 08.08056	15 10 26.87	-13 59 43.4		4 809
(1635)	1997 06 08.12361	15 12 36.14	-15 35 35.7		4 809	(2814)	1997 06 08.09722	15 10 26.36	-13 59 40.0		4 809
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(1745)	1997 06 07.07569	14 52 43.93	-14 33 20.7		4 809	(2887)	1997 06 08.14097	15 39 17.27	-12 19 04.7	17.5	4 809
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(2158)	1997 06 07.14167	15 13 45.81	-15 57 53.4		4 809	(3165)	1997 06 07.11528	15 21 51.47	-15 18 13.8	17.8	4 809
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(2158)	1997 06 08.11042	15 13 11.00	-15 55 33.3		4 809	(3165)	1997 06 07.14167	15 21 49.95	-15 18 13.2		4 809
(2158)	1997 06 08.12361	15 13 10.45	-15 55 31.1		4 809	(3165)	1997 06 08.09722	15 20 59.91	-15 17 46.3		4 809
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(2539)	1997 06 07.04931	15 02 29.51	-12 45 01.3	18.5	4 809	(3331)	1997 06 09.08403	15 36 18.37	-13 39 36.4		4 809
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(2539)	1997 06 08.05417	15 01 47.17	-12 42 00.9		4 809	(3538)	1997 06 07.06250	15 06 17.23	-11 56 44.9		4 809
(2539)	1997 06 08.06736	15 01 46.65	-12 41 59.3		4 809	(3538)	1997 06 07.07569	15 06 16.66	-11 56 43.9		4 809
(2539)	1997 06 08.08056	15 01 46.04	-12 41 57.3		4 809	(3538)	1997 06 08.05417	15 05 39.06	-11 54 44.9		4 809
(2747)	1997 03 11.24167	12 52 37.34	-09 04 09.4	18.2	4 809	(3538)	1997 06 08.06736	15 05 38.57	-11 54 42.8		4 809
(2747)	1997 03 11.25486	12 52 36.91	-09 04 08.1		4 809	(3538)	1997 06 08.08056	15 05 38.05	-11 54 40.9		4 809
(2747)	1997 03 12.18542	12 52 36.35	-09 04 06.7		4 809	(3668)	1997 06 07.11528	15 12 39.52	-13 14 56.7	17.5	4 809
(2747)	1997 03 12.19861	12 52 01.32	-09 02 27.2		4 809	(3668)	1997 06 07.12847	15 12 38.96	-13 14 54.2		4 809
(2747)	1997 03 12.21181	12 52 00.79	-09 02 26.1		4 809	(3668)	1997 06 07.14167	15 12 38.42	-13 14 52.5		4 809
(2747)	1997 03 12.21181	12 52 00.24	-09 02 25.0		4 809	(3668)	1997 06 08.09722	15 12 06.51	-13 12 25.6		4 809
(2756)	1997 03 11.24167	12 52 13.32	-08 10 30.8	18.4	4 809	(3668)	1997 06 08.11042	15 12 05.99	-13 12 22.7		4 809
(2756)	1997 03 11.25486	12 52 12.82	-08 10 29.1		4 809	(3668)	1997 06 08.12361	15 12 05.49	-13 12 21.9		4 809
(2756)	1997 03 11.26806	12 52 12.19	-08 10 27.6		4 809	(3756)	1997 03 11.24167	12 56 12.75	-09 52 07.1	18.3	4 809
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(2756)	1997 03 12.19861	12 51 30.07	-08 08 10.0		4 809	(3756)	1997 03 11.26806	12 56 11.60	-09 51 59.6		4 809
(2756)	1997 03 12.21181	12 51 29.47	-08 08 08.8		4 809	(3756)	1997 03 12.18542	12 55 35.00	-09 47 52.2		4 809
(2810)	1997 03 11.24167	13 09 26.08	-09 07 47.4	17.9	4 809	(3756)	1997 03 12.19861	12 55 34.47	-09 47 48.5		4 809

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(4336)	1997 03 11.25486	12 50 37.33	-09 33 29.9		4 809	(4928)	1997 06 07.07569	14 56 49.96	-14 23 19.4		4 809
(4336)	1997 03 11.26806	12 50 36.64	-09 33 27.8		4 809	(4928)	1997 06 08.05417	14 56 07.40	-14 19 33.3		4 809
(4431)	1997 06 07.11528	15 21 10.08	-14 16 58.3	18.3	4 809	(4928)	1997 06 08.06736	14 56 06.85	-14 19 30.7		4 809
(4431)	1997 06 07.12847	15 21 09.57	-14 16 54.8		4 809	(4928)	1997 06 08.08056	14 56 06.26	-14 19 27.5		4 809
(4431)	1997 06 07.14167	15 21 09.06	-14 16 51.9		4 809	(5016)	1997 06 08.14097	15 46 16.20	-13 40 25.1	18.0	4 809
(4431)	1997 06 08.09722	15 20 34.75	-14 13 00.4		4 809	(5016)	1997 06 08.15417	15 46 15.54	-13 40 22.5		4 809
(4431)	1997 06 08.11042	15 20 34.21	-14 12 57.1		4 809	(5016)	1997 06 08.16736	15 46 14.90	-13 40 20.4		4 809
(4431)	1997 06 08.12361	15 20 33.70	-14 12 53.9		4 809	(5016)	1997 06 09.07083	15 45 32.88	-13 37 49.3		4 809
(4520)	1997 06 07.04931	14 52 22.72	-12 06 23.1	18.3	4 809	(5016)	1997 06 09.08403	15 45 32.22	-13 37 47.6		4 809
(4520)	1997 06 07.06250	14 52 22.08	-12 06 23.0		4 809	(5016)	1997 06 09.09722	15 45 31.56	-13 37 45.5		4 809
(4520)	1997 06 07.07569	14 52 21.45	-12 06 21.7		4 809	(5063)	1997 03 11.24167	13 03 54.45	-08 26 23.1	18.5	4 809
(4520)	1997 06 08.05417	14 51 37.82	-12 05 35.3		4 809	(5063)	1997 03 11.25486	13 03 53.88	-08 26 20.0		4 809
(4520)	1997 06 08.06736	14 51 37.24	-12 05 35.1		4 809	(5063)	1997 03 11.26806	13 03 53.26	-08 26 16.5		4 809
(4520)	1997 06 08.08056	14 51 36.60	-12 05 35.0		4 809	(5063)	1997 03 12.18542	13 03 13.14	-08 22 42.8		4 809
(4556)	1997 06 08.14097	15 48 44.83	-13 46 45.5	18.0	4 809	(5063)	1997 03 12.19861	13 03 12.54	-08 22 40.0		4 809
(4556)	1997 06 08.15417	15 48 44.00	-13 46 45.5		4 809	(5063)	1997 03 12.21181	13 03 11.86	-08 22 36.1		4 809
(4556)	1997 06 08.16736	15 48 43.26	-13 46 45.8		4 809	(5185)	1997 03 12.18542	12 55 50.14	-12 26 58.7		4 809
(4556)	1997 06 09.07083	15 47 53.91	-13 46 44.5		4 809	(5185)	1997 03 12.19861	12 55 49.60	-12 26 55.1		4 809
(4556)	1997 06 09.08403	15 47 53.17	-13 46 44.6		4 809	(5185)	1997 03 12.21181	12 55 49.05	-12 26 50.7		4 809
(4556)	1997 06 09.09722	15 47 52.39	-13 46 44.6		4 809	(5286)	1997 06 07.11528	15 22 20.25	-14 37 01.0	18.2	4 809
(4589)	1997 06 07.11528	15 14 41.65	-15 35 39.2	18.3	4 809	(5286)	1997 06 07.12847	15 22 19.65	-14 37 00.6		4 809
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(4589)	1997 06 08.09722	15 13 56.54	-15 32 24.0		4 809	(5286)	1997 06 08.11042	15 21 40.94	-14 35 36.1		4 809
(4589)	1997 06 08.11042	15 13 55.91	-15 32 22.1		4 809	(5286)	1997 06 08.12361	15 21 40.31	-14 35 34.8		4 809
(4589)	1997 06 08.12361	15 13 55.24	-15 32 19.5		4 809	(5311)	1997 03 11.24167	13 11 32.69	-10 53 43.9	18.5	4 809
(4591)	1997 06 08.14097	15 44 01.87	-15 49 04.0	18.4	4 809	(5311)	1997 03 11.25486	13 11 32.24	-10 53 41.0		4 809
(4591)	1997 06 08.15417	15 44 01.22	-15 49 02.7		4 809	(5311)	1997 03 11.26806	13 11 31.79	-10 53 38.9		4 809
(4591)	1997 06 08.16736	15 44 00.51	-15 49 00.6		4 809	(5311)	1997 03 12.18542	13 11 02.68	-10 50 28.0		4 809
(4591)	1997 06 09.07083	15 43 13.51	-15 47 03.2		4 809	(5311)	1997 03 12.19861	13 11 02.30	-10 50 25.4		4 809
(4591)	1997 06 09.08403	15 43 12.74	-15 47 00.9		4 809	(5311)	1997 03 12.21181	13 11 01.83	-10 50 22.5		4 809
(4591)	1997 06 09.09722	15 43 12.04	-15 46 59.5		4 809	(5460)	1997 06 08.14097	15 46 07.79	-14 56 33.2	18.5	4 809
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(4637)	1997 03 11.25486	12 58 35.46	-09 34 07.1		4 809	(5460)	1997 06 08.16736	15 46 06.31	-14 56 29.3		4 809
(4637)	1997 03 11.26806	12 58 34.98	-09 34 05.1		4 809	(5460)	1997 06 09.07083	15 45 19.88	-14 53 56.3		4 809
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(4637)	1997 03 12.19861	12 58 03.16	-09 31 35.3		4 809	(5460)	1997 06 09.09722	15 45 18.45	-14 53 53.1		4 809
(4637)	1997 03 12.21181	12 58 02.68	-09 31 33.1		4 809	(5490)	1997 03 11.24167	12 53 17.92	-09 28 26.5	18.3	4 809

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(5490)	1997 03 12.18542	12 52 39.67	-09 23 38.2	4 809	(6532)	1997 06 08.06736	15 04 31.29	-11 56 35.6	4 809
(5490)	1997 03 12.19861	12 52 39.05	-09 23 34.4	4 809	(6532)	1997 06 08.08056	15 04 30.79	-11 56 35.2	4 809
(5490)	1997 03 12.21181	12 52 38.43	-09 23 30.3	4 809	(6600)	1997 03 11.24167	13 02 43.76	-10 50 19.0	18.4 4 809
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(5498)	1997 03 11.26806	13 07 46.05	-08 35 20.5	4 809	(6600)	1997 03 12.18542	13 01 59.43	-10 47 04.8	4 809
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(5734)	1997 06 08.16736	15 41 07.68	-12 31 31.5	4 809	(6779)	1997 03 12.18542	13 00 31.14	-09 20 05.1	4 809
(5734)	1997 06 09.07083	15 40 21.62	-12 32 35.2	4 809	(6779)	1997 03 12.19861	13 00 30.51	-09 20 04.1	4 809
(5734)	1997 06 09.08403	15 40 20.90	-12 32 37.2	4 809	(6779)	1997 03 12.21181	13 00 29.94	-09 20 02.0	4 809
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(6045)	1997 06 07.12847	15 19 48.45	-14 15 39.6	4 809	(6928)	1997 06 09.09722	15 41 20.71	-14 38 00.9	4 809
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(6069)	1997 06 08.15417	15 36 19.13	-13 32 36.9	4 809	(6937)	1997 03 12.21181	13 07 11.23	-10 55 19.1	4 809
(6069)	1997 06 08.16736	15 36 18.51	-13 32 34.5	4 809	(6945)	1997 03 11.24167	12 58 43.21	-10 03 27.9	18.3 4 809
(6069)	1997 06 09.07083	15 35 37.51	-13 29 59.5	4 809	(6945)	1997 03 11.25486	12 58 42.51	-10 03 27.2	4 809
(6069)	1997 06 09.08403	15 35 36.86	-13 29 57.9	4 809	(6945)	1997 03 11.26806	12 58 41.76	-10 03 26.3	4 809
(6069)	1997 06 09.09722	15 35 36.21	-13 29 56.4	4 809	(6945)	1997 03 12.18542	12 57 52.31	-10 02 31.8	4 809
(6095)	1997 06 07.04931	15 02 58.02	-15 16 53.2	4 809	(6945)	1997 03 12.19861	12 57 51.54	-10 02 30.8	4 809
(6095)	1997 06 07.06250	15 02 57.50	-15 16 48.6	4 809	(6945)	1997 03 12.21181	12 57 50.79	-10 02 30.0	4 809
(6095)	1997 06 07.07569	15 02 56.98	-15 16 43.5	4 809	(7056)	1997 06 07.04931	15 10 26.44	-15 18 11.1	18.3 4 809
(6095)	1997 06 08.05417	15 02 24.35	-15 10 42.6	4 809	(7056)	1997 06 07.06250	15 10 25.89	-15 18 11.2	4 809
(6095)	1997 06 08.06736	15 02 23.96	-15 10 38.7	4 809	(7056)	1997 06 07.07569	15 10 25.33	-15 18 11.1	4 809
(6095)	1997 06 08.08056	15 02 23.44	-15 10 34.1	4 809	(7056)	1997 06 07.11528	15 10 24.55	-15 18 09.5	18.3 4 809
(6210)	1997 06 08.14097	15 35 35.71	-15 07 59.4	4 809	(7056)	1997 06 07.12847	15 10 23.93	-15 18 09.7	4 809
(6210)	1997 06 08.15417	15 35 35.13	-15 07 58.2	4 809	(7056)	1997 06 07.14167	15 10 23.38	-15 18 10.3	4 809
(6210)	1997 06 08.16736	15 35 34.53	-15 07 58.1	4 809	(7056)	1997 06 08.05417	15 09 47.88	-15 18 02.1	4 809
(6210)	1997 06 09.07083	15 34 57.03	-15 06 44.0	4 809	(7056)	1997 06 08.06736	15 09 47.35	-15 18 02.5	4 809
(6210)	1997 06 09.08403	15 34 56.43	-15 06 43.1	4 809	(7056)	1997 06 08.08056	15 09 46.80	-15 18 01.8	4 809
(6210)	1997 06 09.09722	15 34 55.87	-15 06 42.0	4 809	(7570)	1997 03 11.24167	13 07 49.46	-08 25 12.8	18.4 4 809
(6308)	1997 06 07.04931	15 03 48.06	-15 22 23.0	4 809	(7570)	1997 03 11.25486	13 07 48.87	-08 25 10.6	4 809
(6308)	1997 06 07.06250	15 03 47.59	-15 22 21.7	4 809	(7570)	1997 03 11.26806	13 07 48.30	-08 25 08.5	4 809
(6308)	1997 06 07.07569	15 03 47.11	-15 22 20.3	4 809	(7570)	1997 03 12.18542	13 07 10.10	-08 22 31.4	4 809
(6308)	1997 06 08.05417	15 03 13.72	-15 20 44.0	4 809	(7570)	1997 03 12.19861	13 07 09.53	-08 22 29.4	4 809
(6308)	1997 06 08.06736	15 03 13.28	-15 20 41.7	4 809	(7570)	1997 03 12.21181	13 07 08.91	-08 22 26.8	4 809
(6308)	1997 06 08.08056	15 03 12.80	-15 20 40.9	4 809	(7704)	1997 06 07.11528	15 31 26.01	-13 43 31.3	18.3 4 809
(6532)	1997 06 07.04931	15 05 06.92	-11 57 14.2	4 809	(7704)	1997 06 07.12847	15 31 25.33	-13 43 31.5	4 809
(6532)	1997 06 07.06250	15 05 06.42	-11 57 13.3	4 809	(7704)	1997 06 07.14167	15 31 24.70	-13 43 32.9	4 809

(7704)	1997 06 08.09722	15 30 41.29	-13 44 17.1		4 809
(7704)	1997 06 08.11042	15 30 40.70	-13 44 17.8		4 809
(7704)	1997 06 08.12361	15 30 40.07	-13 44 18.0		4 809
(7704)	1997 06 08.14097	15 30 39.21	-13 44 19.1	18.3	4 809
(7704)	1997 06 08.15417	15 30 38.57	-13 44 20.5		4 809
(7704)	1997 06 08.16736	15 30 37.97	-13 44 21.5		4 809
(7704)	1997 06 09.07083	15 29 58.02	-13 45 09.0		4 809
(7704)	1997 06 09.08403	15 29 57.43	-13 45 09.4		4 809
(7704)	1997 06 09.09722	15 29 56.80	-13 45 10.7		4 809
(7711)	1997 06 07.04931	15 02 48.12	-15 16 21.4	18.5	4 809
(7711)	1997 06 07.06250	15 02 47.65	-15 16 20.5		4 809
(7711)	1997 06 07.07569	15 02 47.10	-15 16 21.2		4 809
(7711)	1997 06 08.05417	15 02 10.52	-15 15 51.3		4 809
(7711)	1997 06 08.06736	15 02 10.05	-15 15 50.7		4 809
(7711)	1997 06 08.08056	15 02 09.52	-15 15 51.8		4 809

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0.37-m $f/6$ reflector + CCD

GSC, USNO-SA1.0

1976 GL ₈	1997 06 09.25795	19 48 12.70	-19 49 53.6	16.4 R	816
1976 GL ₈	1997 06 09.26610	19 48 12.50	-19 49 52.0	16.4 R	816
1976 GL ₈	1997 06 09.27102	19 48 12.39	-19 49 51.1	16.4 R	816
1986 SC ₂	1997 05 28.13950	14 52 05.85	-14 55 39.5	16.3 R	816
1986 SC ₂	1997 05 28.14294	14 52 05.71	-14 55 37.6	16.3 R	816
1986 SC ₂	1997 05 28.14853	14 52 05.47	-14 55 34.1	16.4 R	816
1986 SC ₂	1997 05 28.15271	14 52 05.29	-14 55 31.6	16.3 R	816
1986 SC ₂	1997 06 04.13891	14 47 59.11	-13 48 47.9	16.5 R	816
1986 SC ₂	1997 06 04.14198	14 47 59.02	-13 48 46.3	16.5 R	816
1987 DH ₆	1997 07 06.23284	21 02 26.57	-15 26 40.5	18.1 R	816
1987 DH ₆	1997 07 06.24025	21 02 26.30	-15 26 41.5	18.0 R	816
1987 DH ₆	1997 07 06.24723	21 02 26.03	-15 26 42.3	18.1 R	816
1987 DH ₆	1997 07 06.25335	21 02 25.82	-15 26 43.2	18.2 R	816
1987 DH ₆	1997 07 08.21852	21 01 13.53	-15 30 18.9	16.5 R	816
1987 DH ₆	1997 07 08.22243	21 01 13.37	-15 30 19.4	16.5 R	816
1987 DH ₆	1997 07 08.23058	21 01 13.05	-15 30 20.1	16.5 R	816
1987 DH ₆	1997 07 08.23604	21 01 12.83	-15 30 20.9	16.5 R	816
1987 DH ₆	1997 07 11.22019	20 59 13.64	-15 36 28.7	17.0 R	816
1987 DH ₆	1997 07 11.22777	20 59 13.32	-15 36 29.7	17.0 R	816
1987 DH ₆	1997 07 11.23486	20 59 13.01	-15 36 30.7	17.1 R	816
1987 DH ₆	1997 07 12.23367	20 58 30.73	-15 38 43.7	16.5 R	E 816
1987 DH ₆	1997 07 12.24152	20 58 30.39	-15 38 44.4	16.6 R	E 816
1987 DH ₆	1997 07 12.24988	20 58 30.00	-15 38 45.7	16.6 R	E 816
1987 DH ₆	1997 07 12.25363	20 58 29.84	-15 38 46.3	16.5 R	E 816
1993 FZ ₆	1997 05 28.15271	14 51 32.89	-14 50 43.3	16.8 R	816
1993 FZ ₆	1997 06 04.12197	14 46 40.86	-14 48 41.5	17.0 R	816
1993 FZ ₆	1997 06 04.12826	14 46 40.62	-14 48 41.4	17.2 R	816
1993 FZ ₆	1997 06 04.13255	14 46 40.46	-14 48 41.3	17.0 R	816
1994 QW	1997 06 11.23841	17 01 18.38	-09 51 59.2	17.7 R	816
1994 QW	1997 06 11.24580	17 01 17.93	-09 51 59.8	17.9 R	816
1994 QW	1997 06 11.25145	17 01 17.56	-09 52 00.2	18.0 R	816
1996 DE	1997 06 09.21447	17 51 04.50	+00 37 16.9	18.2 R	816

1996 DE	1997 06 11.26525	17 49 18.61	+00 35 21.9	17.6 R	816
1996 DP	1997 07 11.25634	21 16 02.49	-15 32 49.7	18.2 R	816
1996 DP	1997 07 11.26369	21 16 02.18	-15 32 51.1	17.9 R	816
1996 DP	1997 07 11.26866	21 16 02.00	-15 32 52.2	18.0 R	816
1996 DP	1997 07 12.18273	21 15 26.78	-15 36 01.7	18.1 R	816
1996 DP	1997 07 12.18678	21 15 26.63	-15 36 03.0	18.0 R	816
1996 DP	1997 07 12.19616	21 15 26.24	-15 36 04.8	18.0 R	816
1996 DP	1997 07 12.20273	21 15 25.98	-15 36 06.2	18.0 R	816
1996 HT ₁₇	1997 07 06.23284	21 01 54.92	-15 30 44.2	18.2 R	816
1996 HT ₁₇	1997 07 06.24025	21 01 54.69	-15 30 45.6	18.3 R	816
1996 HT ₁₇	1997 07 06.24723	21 01 54.44	-15 30 47.0	18.3 R	816
1996 HT ₁₇	1997 07 06.25335	21 01 54.23	-15 30 47.5	18.3 R	816
1996 HT ₁₇	1997 07 08.21852	21 00 46.45	-15 36 35.5	17.2 R	816
1996 HT ₁₇	1997 07 08.22243	21 00 46.31	-15 36 36.3	17.3 R	816
1996 HT ₁₇	1997 07 08.23058	21 00 46.01	-15 36 37.6	17.0 R	816
1996 HT ₁₇	1997 07 08.23604	21 00 45.81	-15 36 38.6	17.2 R	816
1996 HT ₁₇	1997 07 11.22019	20 58 55.03	-15 46 03.1	17.3 R	816
1996 HT ₁₇	1997 07 11.22777	20 58 54.73	-15 46 04.9	17.4 R	816
1996 HT ₁₇	1997 07 11.23486	20 58 54.44	-15 46 06.0	17.5 R	816
1996 HT ₁₇	1997 07 11.24481	20 58 54.03	-15 46 08.0	17.5 R	816
1996 HT ₁₇	1997 07 12.24152	20 58 15.00	-15 49 25.6	17.3 R	816
1996 HT ₁₇	1997 07 12.24988	20 58 14.68	-15 49 27.5	17.1 R	816
1996 HT ₁₇	1997 07 12.25363	20 58 14.52	-15 49 28.2	17.3 R	816
1997 LC ₄	1997 06 24.11861	16 23 30.22	-22 53 23.4	18.3 R	816
1997 LC ₄	1997 06 24.12247	16 23 29.96	-22 53 26.3	18.0 R	816
1997 LC ₄	1997 06 24.13405	16 23 29.01	-22 53 34.5	18.2 R	816
1997 LC ₄	1997 06 28.15080	16 18 37.32	-23 40 03.2	17.6 R	816
1997 LC ₄	1997 06 28.15516	16 18 37.01	-23 40 05.8	17.4 R	816
1997 LC ₄	1997 06 28.16148	16 18 36.59	-23 40 10.6	17.7 R	816
1997 LC ₄	1997 06 28.16958	16 18 35.99	-23 40 16.3	17.7 R	816
1997 LC ₄	1997 06 29.10913	16 17 33.10	-23 50 51.0	17.9 R	816
1997 LC ₄	1997 06 29.11451	16 17 32.73	-23 50 54.5	17.7 R	816
1997 LC ₄	1997 06 29.12043	16 17 32.29	-23 50 58.9	17.9 R	816
1997 LC ₄	1997 06 29.12551	16 17 31.97	-23 51 01.9	17.6 R	816
1997 MA ₁	* 1997 06 28.12429	15 36 09.89	-19 45 39.6	18.4 R	d 816
1997 MA ₁	1997 06 28.12847	15 36 09.69	-19 45 43.9	18.4 R	816
1997 MA ₁	1997 06 28.13513	15 36 09.34	-19 45 50.5	18.8 R	d 816
1997 NC ₁	1997 07 06.09737	13 09 58.58	-09 34 38.8	15.5 R	816
1997 NC ₁	1997 07 06.09874	13 09 58.67	-09 34 49.7	15.4 R	816
1997 NC ₁	1997 07 06.10339	13 09 58.95	-09 35 28.0	15.7 R	816
1997 NC ₁	1997 07 07.09161	13 11 14.85	-11 48 01.3	15.2 R	816
1997 NC ₁	1997 07 07.09311	13 11 14.92	-11 48 12.6	15.2 R	816
1997 NC ₁	1997 07 07.09472	13 11 15.05	-11 48 25.7	15.1 R	816
1997 NC ₁	1997 07 07.10134	13 11 15.47	-11 49 17.2	15.2 R	816
1997 NR ₂	* 1997 07 06.23284	21 02 05.85	-15 27 40.8	19.5 R	816
1997 NR ₂	1997 07 06.24025	21 02 05.44	-15 27 41.3	19.5 R	816
1997 NR ₂	1997 07 06.24723	21 02 05.35	-15 27 43.7	19.5 R	816
1997 NR ₂	1997 07 06.25335	21 02 05.10	-15 27 43.5	19.6 R	816
1997 NR ₂	1997 07 08.21852	21 00 56.70	-15 32 58.1	18.1 R	816
1997 NR ₂	1997 07 08.22243	21 00 56.57	-15 32 58.8	18.2 R	816
1997 NR ₂	1997 07 08.23058	21 00 56.22	-15 33 00.4	18.1 R	816
1997 NR ₂	1997 07 08.23604	21 00 55.99	-15 33 01.1	18.3 R	816

1997 JULY 20

M.P.C. 30237

1997 NR ₂	1997 07 11.22019	20 59 02.47	-15 41 42.1	18.0 R	816
1997 NR ₂	1997 07 11.22777	20 59 02.13	-15 41 44.0	18.0 R	816
1997 NR ₂	1997 07 11.23486	20 59 01.85	-15 41 45.2	18.0 R	816
1997 NR ₂	1997 07 11.24481	20 59 01.42	-15 41 47.2	17.8 R	816
1997 NR ₂	1997 07 12.23367	20 58 21.40	-15 44 50.5	17.7 R	d 816
1997 NR ₂	1997 07 12.24152	20 58 20.93	-15 44 52.4	18.3 R	d 816
1997 NR ₂	1997 07 12.24988	20 58 20.62	-15 44 54.3	17.6 R	816
1997 NR ₂	1997 07 12.25363	20 58 20.48	-15 44 54.3	17.8 R	816
1997 NH ₆	* 1997 07 11.25634	21 15 55.42	-15 31 32.5	18.8 R	816
1997 NH ₆	1997 07 11.26369	21 15 55.20	-15 31 34.6	18.5 R	816
1997 NH ₆	1997 07 11.26866	21 15 55.02	-15 31 36.3	18.6 R	816
1997 NH ₆	1997 07 12.18273	21 15 26.36	-15 36 14.3	18.7 R	816
1997 NH ₆	1997 07 12.19616	21 15 25.91	-15 36 18.9	18.5 R	816
1997 NH ₆	1997 07 12.20273	21 15 25.70	-15 36 21.2	18.3 R	816

817 Sudbury

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0.41-m Schmidt-Cassegrain + CCD
GSC

1990 QB ₂	1997 07 12.13437	16 41 29.50	-18 26 59.6	18.3 R	817
1990 QB ₂	1997 07 12.14648	16 41 29.19	-18 26 59.9	18.1 R	817
1990 QB ₂	1997 07 12.16196	16 41 28.82	-18 27 00.6	17.7 R	817
1993 SL ₆	1997 07 12.17882	19 29 01.95	-18 58 29.6	17.6 R	817
1995 BJ ₁	1997 07 12.14024	18 41 29.54	-23 22 40.5	16.6 R	817
1995 BJ ₁	1997 07 12.15787	18 41 28.60	-23 22 41.2	16.5 R	817
1995 BJ ₁	1997 07 12.16681	18 41 28.25	-23 22 43.2	16.3 R	817

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L. L. Amburgey, 777 Scott Road, Fitchburg, MA 01420-6680, U.S.A.

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0.28-m Schmidt-Cassegrain + CCD
GSC

1988 JP	1997 06 28.15748	16 35 49.10	-26 15 10.1	15.8 R	823
1988 JP	1997 06 28.17911	16 35 47.17	-26 15 30.7	16.3 R	823
1988 JP	1997 06 29.16051	16 34 22.42	-26 31 15.2	15.7 R	823
1988 JP	1997 06 29.19481	16 34 19.47	-26 31 47.3	15.9 R	823
(3116)	1997 05 28.08858	13 08 28.88	-01 07 17.3	17.1	823
(3116)	1997 05 28.12185	13 08 28.20	-01 07 20.0	17.5	823
(3116)	1997 05 29.08264	13 08 11.30	-01 08 52.9	17.4	823
(3116)	1997 05 29.12086	13 08 10.55	-01 08 56.1	17.3	823
(3116)	1997 06 05.11591	13 06 52.92	-01 24 53.8	17.2	823
(3116)	1997 06 06.11546	13 06 48.37	-01 27 50.0	17.1	823

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U.S.A. [kenwill@NorthNet.org]

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

1966 CM	1997 06 28.17683	17 54 24.05	-04 44 05.9	18.5 R	824
1966 CM	1997 06 28.18086	17 54 23.83	-04 44 06.9	18.4 R	824
1966 CM	1997 06 28.18509	17 54 23.55	-04 44 08.0	18.3 R	824
1991 AB	1997 07 08.18233	16 23 12.87	-08 18 10.9	18.7 R	824

1991 AB	1997 07 08.18654	16 23 12.63	-08 18 11.4	18.2 R	824
1991 AB	1997 07 08.19116	16 23 12.48	-08 18 12.7	17.9 R	824
1991 EM ₁	1997 07 08.16625	16 10 14.31	-05 39 23.9	19.2 R	824
1991 EM ₁	1997 07 08.17088	16 10 14.21	-05 39 24.5	19.4 R	824
1991 EM ₁	1997 07 08.17495	16 10 14.12	-05 39 25.4	19.5 R	824
1993 FT ₃₁	1997 07 11.13024	16 12 47.70	-12 49 39.7	18.7 R	824
1993 FT ₃₁	1997 07 11.13455	16 12 47.58	-12 49 40.5	18.7 R	824
1993 FT ₃₁	1997 07 11.13862	16 12 47.49	-12 49 41.2	18.6 R	824
1993 FT ₃₁	1997 07 12.13681	16 12 25.51	-12 52 30.1	18.6 R	824
1993 FT ₃₁	1997 07 12.14078	16 12 25.41	-12 52 31.0	18.7 R	824
1993 FT ₃₁	1997 07 12.14490	16 12 25.34	-12 52 31.9	18.7 R	824
1996 DE	1997 06 28.16162	17 34 17.68	-00 21 02.7	17.4 R	824
1996 DE	1997 06 28.16559	17 34 17.36	-00 21 02.6	17.9 R	824
1996 DE	1997 06 28.16982	17 34 17.10	-00 21 04.0	17.9 R	824
1996 GE ₁₉	1997 06 24.08226	16 28 58.97	+02 57 33.2	16.9 R	824
1996 GE ₁₉	1997 06 24.09192	16 28 58.72	+02 57 34.0	16.9 R	824
1996 GE ₁₉	1997 06 24.10134	16 28 58.47	+02 57 34.8	17.0 R	824
1996 GE ₁₉	1997 07 06.12715	16 24 23.13	+03 06 33.1	17.1 R	824
1996 GE ₁₉	1997 07 06.13147	16 24 23.04	+03 06 33.1	17.1 R	824
1996 GE ₁₉	1997 07 06.13705	16 24 22.93	+03 06 33.2	17.2 R	824
1996 GE ₁₉	1997 07 08.14558	16 23 45.31	+03 06 35.0	17.3 R	824
1996 GE ₁₉	1997 07 08.14943	16 23 45.24	+03 06 35.0	17.3 R	824
1996 GE ₁₉	1997 07 08.15358	16 23 45.16	+03 06 35.0	17.3 R	824
1997 LG ₄	1997 06 28.08662	16 23 00.83	+01 35 50.2	18.5 R	824
1997 LG ₄	1997 06 28.09384	16 23 00.51	+01 35 48.3	18.4 R	824
1997 LG ₄	1997 06 28.10219	16 23 00.23	+01 35 46.6	19.0 R	824
1997 LG ₄	1997 06 29.08793	16 22 26.53	+01 31 28.8	18.9 R	824
1997 LG ₄	1997 06 29.09653	16 22 26.25	+01 31 26.4	19.1 R	824
1997 LG ₄	1997 06 29.10209	16 22 26.04	+01 31 24.0	19.2 R	824
1997 LG ₄	1997 07 06.08990	16 19 00.39	+00 56 11.9	18.6 R	824
1997 LG ₄	1997 07 06.09469	16 19 00.19	+00 56 09.5	18.9 R	824
1997 LG ₄	1997 07 06.10029	16 19 00.06	+00 56 08.4	19.3 R	824
1997 LG ₄	1997 07 08.10574	16 18 12.53	+00 44 34.9	19.4 R	824
1997 LG ₄	1997 07 08.11064	16 18 12.43	+00 44 33.3	19.1 R	824
1997 LG ₄	1997 07 08.11509	16 18 12.30	+00 44 31.6	19.1 R	824
1997 LH ₄	1997 06 28.11030	16 38 45.60	+00 17 17.3	18.2 R	824
1997 LH ₄	1997 06 28.11429	16 38 45.45	+00 17 16.9	18.2 R	824
1997 LH ₄	1997 06 28.11843	16 38 45.30	+00 17 16.4	18.2 R	824
1997 LH ₄	1997 06 29.10912	16 38 09.13	+00 15 26.0	17.4 R	824
1997 LH ₄	1997 06 29.11472	16 38 08.85	+00 15 25.2	18.2 R	824
1997 LH ₄	1997 06 29.11912	16 38 08.72	+00 15 24.9	18.0 R	824
1997 LH ₄	1997 07 06.10911	16 34 28.63	-00 02 56.7	18.8 R	824
1997 LH ₄	1997 07 06.11348	16 34 28.49	-00 02 57.5	19.1 R	824
1997 LH ₄	1997 07 06.11866	16 34 28.37	-00 02 58.4	19.1 R	824
1997 LH ₄	1997 07 08.12317	16 33 37.56	-00 09 53.9	18.9 R	824
1997 LH ₄	1997 07 08.12773	16 33 37.45	-00 09 54.9	18.8 R	824
1997 LH ₄	1997 07 08.13703	16 33 37.21	-00 09 56.8	18.9 R	824
1997 NG ₆	* 1997 07 11.13024	16 12 57.42	-12 47 05.6	19.0 R	824
1997 NG ₆	1997 07 11.13455	16 12 57.33	-12 47 07.1	18.9 R	824
1997 NG ₆	1997 07 11.13862	16 12 57.26	-12 47 07.8	19.0 R	824
1997 NG ₆	1997 07 12.13681	16 12 38.22	-12 51 10.0	18.6 R	824
1997 NG ₆	1997 07 12.14078	16 12 38.16	-12 51 10.4	18.6 R	824

1997 NG ₆	1997 07 12.14490	16 12 38.11	−12 51 11.3	18.6 R	824
(2349)	1997 07 08.08656	15 57 06.40	+01 01 24.2	17.0 R	824
(2349)	1997 07 08.09083	15 57 06.33	+01 01 22.3	17.1 R	824
(2349)	1997 07 08.09747	15 57 06.20	+01 01 19.2	17.1 R	824
(3387)	1997 06 29.13247	16 50 30.10	−06 43 01.9	16.7 R	824
(3387)	1997 06 29.13645	16 50 29.91	−06 43 01.2	16.7 R	824
(3387)	1997 06 29.14054	16 50 29.73	−06 43 00.5	16.7 R	824
(4695)	1997 06 28.17683	17 54 45.94	−04 49 50.5	18.2 R	824
(4695)	1997 06 28.18086	17 54 45.67	−04 49 49.9	18.1 R	824
(4695)	1997 06 28.18509	17 54 45.46	−04 49 50.4	18.2 R	824

834 Buenos Aires-AAAA

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[gustavor@aaa.org.ar]

Observers R. Mackintosh

0.25-m $f/6.8$ reflector + CCD

(505)	1997 05 15.0018	11 16 05.57	+17 38 21.2		834
(505)	1997 05 15.02729	11 16 05.96	+17 38 11.5		834
(777)	1997 07 02.11412	20 14 42.35	−16 11 32.7		834
(777)	1997 07 02.16401	20 14 40.18	−16 11 28.9		834
(849)	1997 05 07.06731	11 29 59.16	−13 36 42.8		834
(849)	1997 05 07.09065	11 29 59.03	−13 36 30.8		834
(884)	1997 05 16.16622	16 42 58.95	−31 19 18.1		834
(884)	1997 05 30.09093	16 34 36.41	−30 59 22.3		834
(884)	1997 05 30.11241	16 34 35.59	−30 59 20.4		834
(1178)	1997 05 07.11649	12 48 49.63	+02 02 26.2		834
(1388)	1997 06 12.1318	19 24 49.45	−33 52 51.2		834
(1388)	1997 06 25.13621	19 15 04.5	−35 10 28.6		834
(1388)	1997 06 25.17402	19 15 02.47	−35 10 41.3		834
(1388)	1997 06 25.20915	19 15 00.54	−35 10 52.8		834
(1388)	1997 06 26.10094	19 14 13.72	−35 15 41.9		834
(1388)	1997 06 26.14456	19 14 11.32	−35 15 56.4		834
(1388)	1997 06 29.10351	19 11 30.57	−35 31 18.2		834
(1388)	1997 06 29.15048	19 11 27.86	−35 31 32.6		834
(1388)	1997 06 29.19149	19 11 25.51	−35 31 44.7		834
(3451)	1997 05 29.12497	16 41 14.94	+06 53 29.9		834
(3451)	1997 05 30.13199	16 40 43.85	+06 55 47.8		834
(3451)	1997 06 12.09127	16 34 07.10	+07 14 20.6		834
(3451)	1997 06 25.02698	16 28 09.84	+07 11 54.2		834
(3451)	1997 06 25.06343	16 28 08.87	+07 11 52		834
(3451)	1997 06 25.09547	16 28 08.06	+07 11 50.6		834
(3451)	1997 06 26.03421	16 27 44.8	+07 10 52.2		834
(3451)	1997 06 26.08386	16 27 43.55	+07 10 48.5		834

886 Susono

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0.25-m $f/6.3$ reflector + CCD

GSC

1987 RG	1997 06 07.58344	17 08 49.63	−19 06 46.5	17.5 V	886
1987 RG	1997 06 07.59162	17 08 49.22	−19 06 45.9		886
1990 QB ₂	1997 06 29.52660	16 48 39.27	−18 25 52.0	17.5 V	886
1990 QB ₂	1997 06 29.53468	16 48 38.93	−18 25 51.0		886

1990 QB ₂	1997 07 03.55743	16 45 49.00	−18 24 40.7		886
1990 QB ₂	1997 07 03.56571	16 45 48.69	−18 24 39.6		886

900 Moriyama

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0.25-m $f/6.3$ reflector + CCD

GSC

1997 LY ₄	1997 07 04.66008	19 43 34.80	−02 13 37.3	16.2 V	900
1997 LY ₄	1997 07 04.66751	19 43 34.64	−02 13 25.5		900
(568)	1997 06 23.59647	16 45 21.63	−18 31 49.8		900
(568)	1997 06 23.60551	16 45 21.20	−18 31 47.1		900

910 Caussols-ODAS

A. Maury, Observatoire de la Côte d'Azur, B.P. 229, F-06304 Nice, France
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Observers A. Maury, D. Albanese, G. Hahn, M. Hoffmann

Measurers A. Maury, G. Hahn

0.9-m Schmidt + CCD

GSC

1978 QC ₃	1997 07 13.04661	21 33 47.45	−13 40 08.9	17.4 V	910
1978 QC ₃	1997 07 13.06983	21 33 46.74	−13 40 16.8	17.4 V	910
1978 QC ₃	1997 07 13.09305	21 33 46.05	−13 40 25.3	17.5 V	910
1981 ED ₂₄	1997 07 07.90247	16 13 35.22	−08 01 55.0	20.5 V	910
1981 ED ₂₄	1997 07 07.92219	16 13 34.80	−08 01 57.7	20.6 V	910
1981 ED ₂₄	1997 07 07.94227	16 13 34.36	−08 02 00.4	20.6 V	910
1981 ED ₂₄	1997 07 08.87921	16 13 15.99	−08 04 12.3	20.7 V	910
1981 ED ₂₄	1997 07 08.89929	16 13 15.59	−08 04 15.5	20.5 V	910
1981 ED ₂₄	1997 07 08.92195	16 13 15.12	−08 04 18.5	20.5 V	910
1981 ED ₂₄	1997 07 09.89797	16 12 57.23	−08 06 41.9	20.6 V	910
1981 ED ₂₄	1997 07 09.91801	16 12 56.84	−08 06 45.1	20.7 V	910
1981 ED ₂₄	1997 07 09.93836	16 12 56.45	−08 06 47.9	20.7 V	910
1981 EK ₂₅	1997 07 13.05671	21 48 22.74	−13 18 56.7	18.2 V	910
1981 EK ₂₅	1997 07 13.07993	21 48 22.17	−13 18 57.3	18.2 V	910
1981 EK ₂₅	1997 07 13.10315	21 48 21.61	−13 18 57.9	18.2 V	910
1981 EK ₂₅	1997 07 14.04846	21 48 00.41	−13 19 24.0	18.0 V	910
1981 EK ₂₅	1997 07 14.07154	21 47 59.80	−13 19 24.8	18.0 V	910
1981 EK ₂₅	1997 07 14.09486	21 47 59.18	−13 19 25.3	18.0 V	910
1989 CV ₁	1997 06 24.92173	15 32 58.18	−14 47 03.6	19.8 V	910
1989 CV ₁	1997 06 24.94624	15 32 57.41	−14 47 05.1	20.2 V	910
1989 CV ₁	1997 06 24.97409	15 32 56.59	−14 47 06.9	20.5 V	910
1991 AB	1997 07 07.90924	16 23 21.26	−08 17 07.4	18.2 V	910
1991 AB	1997 07 07.92896	16 23 20.62	−08 17 11.9	18.1 V	910
1991 AB	1997 07 07.94904	16 23 20.00	−08 17 16.4	18.1 V	910
1991 AB	1997 07 08.88587	16 22 52.16	−08 20 54.5	19.3 V	910
1991 AB	1997 07 08.90595	16 22 51.53	−08 20 59.1	19.4 V	910
1991 AB	1997 07 08.92861	16 22 50.85	−08 21 04.3	19.5 V	910
1991 AB	1997 07 09.90451	16 22 22.99	−08 24 56.3	19.5 V	910
1991 AB	1997 07 09.92455	16 22 22.41	−08 25 01.0	19.4 V	910
1991 AB	1997 07 09.94490	16 22 21.84	−08 25 05.4	19.2 V	910
1993 TO ₁₅	1997 07 08.06492	21 13 22.09	−12 51 18.9	19.7 V	910
1993 TO ₁₅	1997 07 08.08062	21 13 21.57	−12 51 20.8	19.6 V	910

1997 JULY 20

M.P.C. 30239

1993 TO ₁₅	1997 07 08.09697	21 13 21.04	-12 51 22.6	19.7 V	910	1997 MO ₂	1997 07 01.91571	15 44 34.65	-14 03 52.3	20.3 V	910
1996 DP	1997 07 01.03211	21 21 15.99	-15 03 40.4	18.6 V	910	1997 MO ₂	1997 07 01.93923	15 44 34.35	-14 03 59.4	19.8 V	910
1996 DP	1997 07 01.05537	21 21 15.42	-15 03 43.7	18.7 V	910	1997 MO ₂	1997 07 01.96261	15 44 34.04	-14 04 05.8	20.3 V	910
1996 DP	1997 07 01.07870	21 21 14.84	-15 03 46.8	18.7 V	910	1997 MR ₈	1997 07 13.04629	21 33 20.40	-13 30 20.9	19.4 V	910
1996 GJ ₁₉	1997 07 08.06960	21 20 05.88	-13 12 17.1	19.5 V	910	1997 MR ₈	1997 07 13.06951	21 33 19.60	-13 30 32.8	19.2 V	910
1996 GJ ₁₉	1997 07 08.08530	21 20 05.41	-13 12 18.7	19.5 V	910	1997 MR ₈	1997 07 13.09273	21 33 18.78	-13 30 44.0	19.1 V	910
1996 GJ ₁₉	1997 07 08.10165	21 20 04.95	-13 12 20.9	19.6 V	910	1997 MR ₈	1997 07 14.03791	21 32 46.80	-13 38 41.8	19.2 V	910
1997 LJ ₃	1997 06 30.86979	15 31 18.85	-13 48 40.1	19.9 V	910	1997 MR ₈	1997 07 14.06099	21 32 45.95	-13 38 53.5	19.1 V	910
1997 LJ ₃	1997 06 30.89259	15 31 18.45	-13 48 41.3	19.6 V	910	1997 MR ₈	1997 07 14.08431	21 32 45.11	-13 39 05.4	19.1 V	910
1997 LJ ₃	1997 06 30.91682	15 31 18.01	-13 48 42.5	19.5 V	910	1997 MP ₉	1997 07 09.89332	16 06 14.70	-07 57 25.0	20.9 V	910
1997 LJ ₃	1997 07 01.90634	15 31 02.75	-13 49 31.9	18.1 V	910	1997 MP ₉	1997 07 09.91336	16 06 14.29	-07 57 29.4	20.9 V	910
1997 LJ ₃	1997 07 01.92986	15 31 02.39	-13 49 33.1	18.2 V	910	1997 MP ₉	1997 07 09.93370	16 06 13.82	-07 57 34.6	20.8 V	910
1997 LJ ₃	1997 07 01.95324	15 31 02.01	-13 49 34.3	18.1 V	910	1997 NO ₄	* 1997 07 08.87279	16 03 59.19	-08 17 31.9	20.8 V	910
1997 MB ₂	1997 06 30.87337	15 36 29.50	-13 46 02.7	20.5 V	910	1997 NO ₄	1997 07 08.89287	16 03 58.77	-08 17 36.6	20.6 V	910
1997 MB ₂	1997 06 30.89616	15 36 28.83	-13 46 06.2	20.7 V	910	1997 NO ₄	1997 07 08.91552	16 03 58.29	-08 17 41.7	20.7 V	910
1997 MB ₂	1997 06 30.92039	15 36 28.05	-13 46 09.4	20.8 V	910	1997 NO ₄	1997 07 09.89153	16 03 39.51	-08 21 23.8	20.7 V	910
1997 MC ₂	1997 06 30.87933	15 45 06.60	-13 46 56.7	19.5 V	910	1997 NO ₄	1997 07 09.91158	16 03 39.14	-08 21 28.5	20.7 V	910
1997 MC ₂	1997 06 30.90212	15 45 06.08	-13 47 01.3	19.5 V	910	1997 NO ₄	1997 07 09.93192	16 03 38.77	-08 21 33.4	20.8 V	910
1997 MC ₂	1997 06 30.92635	15 45 05.53	-13 47 06.3	19.5 V	910	1997 NP ₄	* 1997 07 08.87804	16 11 34.52	-07 58 59.3	19.8 V	910
1997 MJ ₂	* 1997 06 30.87036	15 32 07.81	-14 11 55.6	19.8 V	910	1997 NP ₄	1997 07 08.89812	16 11 34.12	-07 59 01.3	19.9 V	910
1997 MJ ₂	1997 06 30.89316	15 32 07.31	-14 12 00.1	19.6 V	910	1997 NP ₄	1997 07 08.92078	16 11 33.68	-07 59 03.2	19.9 V	910
1997 MJ ₂	1997 06 30.91739	15 32 06.84	-14 12 04.1	19.5 V	910	1997 NP ₄	1997 07 09.89680	16 11 16.48	-08 00 39.1	19.9 V	910
1997 MJ ₂	1997 07 01.90688	15 31 48.56	-14 15 10.1	19.8 V	910	1997 NP ₄	1997 07 09.91685	16 11 16.12	-08 00 41.2	20.1 V	910
1997 MJ ₂	1997 07 01.93039	15 31 48.11	-14 15 14.6	19.7 V	910	1997 NP ₄	1997 07 09.93719	16 11 15.73	-08 00 42.9	20.1 V	910
1997 MJ ₂	1997 07 01.95377	15 31 47.67	-14 15 19.0	19.7 V	910	1997 NQ ₄	* 1997 07 08.87879	16 12 39.58	-08 01 30.0	20.0 V	910
1997 MK ₂	* 1997 06 30.87372	15 36 59.01	-14 10 14.6	20.7 V	910	1997 NQ ₄	1997 07 08.89887	16 12 39.22	-08 01 37.0	19.9 V	910
1997 MK ₂	1997 06 30.89652	15 36 58.47	-14 10 14.8	20.3 V	910	1997 NQ ₄	1997 07 08.92153	16 12 38.85	-08 01 44.9	19.8 V	910
1997 MK ₂	1997 06 30.92075	15 36 57.93	-14 10 15.6	20.6 V	910	1997 NQ ₄	1997 07 09.89758	16 12 23.76	-08 07 31.1	20.0 V	910
1997 MK ₂	1997 07 01.91021	15 36 37.34	-14 10 35.1	20.8 V	910	1997 NQ ₄	1997 07 09.91763	16 12 23.44	-08 07 38.4	20.1 V	910
1997 MK ₂	1997 07 01.93373	15 36 36.84	-14 10 35.3	20.5 V	910	1997 NQ ₄	1997 07 09.93797	16 12 23.13	-08 07 45.9	20.0 V	910
1997 MK ₂	1997 07 01.95710	15 36 36.35	-14 10 35.5	20.6 V	910	1997 NR ₄	* 1997 07 08.88007	16 14 30.34	-08 01 57.6	21.4 V	910
1997 ML ₂	* 1997 06 30.87393	15 37 16.86	-14 11 27.9	20.6 V	910	1997 NR ₄	1997 07 08.90015	16 14 29.73	-08 02 02.7	21.5 V	910
1997 ML ₂	1997 06 30.89672	15 37 16.32	-14 11 28.5	20.6 V	910	1997 NR ₄	1997 07 08.92280	16 14 29.02	-08 02 07.6	21.6 V	910
1997 ML ₂	1997 06 30.92095	15 37 15.74	-14 11 28.8	20.6 V	910	1997 NR ₄	1997 07 09.89870	16 14 01.05	-08 05 55.9	21.9 V	910
1997 ML ₂	1997 07 01.91041	15 36 54.90	-14 11 51.7	20.2 V	910	1997 NR ₄	1997 07 09.91874	16 14 00.48	-08 06 01.0	21.6 V	910
1997 ML ₂	1997 07 01.93393	15 36 54.39	-14 11 52.6	20.7 V	910	1997 NR ₄	1997 07 09.93909	16 13 59.91	-08 06 05.6	21.7 V	910
1997 ML ₂	1997 07 01.95730	15 36 53.91	-14 11 52.9	20.5 V	910	1997 NS ₄	* 1997 07 08.88039	16 14 57.56	-08 05 47.7	20.0 V	910
1997 MM ₂	* 1997 06 30.87669	15 41 16.53	-14 06 23.5	20.4 V	910	1997 NS ₄	1997 07 08.90047	16 14 57.39	-08 05 49.2	20.1 V	910
1997 MM ₂	1997 06 30.89949	15 41 16.06	-14 06 26.5	20.1 V	910	1997 NS ₄	1997 07 08.92313	16 14 57.20	-08 05 51.1	20.2 V	910
1997 MM ₂	1997 06 30.92372	15 41 15.58	-14 06 29.5	19.9 V	910	1997 NS ₄	1997 07 09.89930	16 14 52.23	-08 07 14.0	20.0 V	910
1997 MM ₂	1997 07 01.91323	15 40 58.81	-14 08 30.2	20.5 V	910	1997 NS ₄	1997 07 09.91934	16 14 52.11	-08 07 15.8	20.1 V	910
1997 MM ₂	1997 07 01.93674	15 40 58.40	-14 08 33.2	20.3 V	910	1997 NS ₄	1997 07 09.93969	16 14 51.99	-08 07 17.8	20.1 V	910
1997 MM ₂	1997 07 01.96012	15 40 57.98	-14 08 36.0	20.1 V	910	1997 NT ₄	* 1997 07 08.88110	16 15 59.42	-07 59 04.8	21.1 V	910
1997 MN ₂	* 1997 06 30.87845	15 43 48.74	-14 06 54.6	19.3 V	910	1997 NT ₄	1997 07 08.90118	16 15 58.90	-07 59 12.2	20.8 V	910
1997 MN ₂	1997 06 30.90125	15 43 48.52	-14 07 01.2	19.2 V	910	1997 NT ₄	1997 07 08.92383	16 15 58.33	-07 59 20.6	20.4 V	910
1997 MN ₂	1997 06 30.92548	15 43 48.28	-14 07 08.3	19.5 V	910	1997 NT ₄	1997 07 09.89979	16 15 35.00	-08 05 25.3	20.4 V	910
1997 MN ₂	1997 07 01.91512	15 43 42.44	-14 12 07.7	19.6 V	910	1997 NT ₄	1997 07 09.91983	16 15 34.52	-08 05 32.8	20.2 V	910
1997 MN ₂	1997 07 01.93864	15 43 42.27	-14 12 14.9	19.5 V	910	1997 NT ₄	1997 07 09.94017	16 15 34.01	-08 05 40.2	20.2 V	910
1997 MN ₂	1997 07 01.96201	15 43 42.11	-14 12 21.8	19.3 V	910	1997 NT ₄	1997 07 09.94998	16 15 33.77	-08 05 43.7	19.1 V	910
1997 MO ₂	* 1997 06 30.87911	15 44 47.13	-13 58 46.9	20.5 V	910	1997 NT ₄	1997 07 09.96116	16 15 33.52	-08 05 48.1	19.0 V	910
1997 MO ₂	1997 06 30.90191	15 44 46.79	-13 58 53.8	20.2 V	910	1997 NT ₄	1997 07 09.97214	16 15 33.26	-08 05 52.0	19.5 V	910
1997 MO ₂	1997 06 30.92614	15 44 46.43	-13 59 00.0	20.4 V	910	1997 NU ₄	* 1997 07 08.88305	16 18 48.20	-08 17 09.6	20.9 V	910

1997 NU ₄	1997 07 08.90314	16 18 47.67	-08 17 10.8	21.0 V	910	1997 NC ₅	1997 07 07.94841	16 22 25.56	-08 18 43.1	20.2 V	910
1997 NU ₄	1997 07 08.92579	16 18 47.06	-08 17 12.1	21.0 V	910	1997 NC ₅	1997 07 08.88538	16 22 09.07	-08 19 59.3	20.1 V	910
1997 NU ₄	1997 07 09.90174	16 18 23.25	-08 18 14.3	21.2 V	910	1997 NC ₅	1997 07 08.90546	16 22 08.71	-08 20 00.7	20.1 V	910
1997 NU ₄	1997 07 09.92178	16 18 22.76	-08 18 15.6	21.0 V	910	1997 NC ₅	1997 07 08.92811	16 22 08.30	-08 20 02.9	20.4 V	910
1997 NU ₄	1997 07 09.94212	16 18 22.24	-08 18 17.3	20.9 V	910	1997 ND ₅	* 1997 07 07.90927	16 23 23.15	-08 19 52.4	20.1 V	910
1997 NV ₄	* 1997 07 08.88484	16 21 22.93	-08 11 24.5	20.1 V	910	1997 ND ₅	1997 07 07.92898	16 23 22.58	-08 19 59.5	20.0 V	910
1997 NV ₄	1997 07 08.90492	16 21 22.63	-08 11 34.1	20.4 V	910	1997 ND ₅	1997 07 07.94906	16 23 22.00	-08 20 06.3	19.6 V	910
1997 NV ₄	1997 07 08.92758	16 21 22.28	-08 11 45.1	20.4 V	910	1997 ND ₅	1997 07 08.88594	16 22 57.33	-08 25 38.3	21.2 V	910
1997 NV ₄	1997 07 09.90366	16 21 09.33	-08 19 55.4	20.8 V	910	1997 ND ₅	1997 07 08.90602	16 22 56.78	-08 25 45.5	21.0 V	910
1997 NV ₄	1997 07 09.92370	16 21 09.05	-08 20 05.2	20.7 V	910	1997 ND ₅	1997 07 08.92867	16 22 56.17	-08 25 53.3	21.0 V	910
1997 NV ₄	1997 07 09.94405	16 21 08.76	-08 20 16.1	20.8 V	910	1997 NJ ₆	* 1997 07 08.88662	16 23 57.77	-08 09 28.3	20.7 V	910
1997 NW ₄	* 1997 07 08.88564	16 22 33.20	-07 58 32.8	20.0 V	910	1997 NJ ₆	1997 07 08.90670	16 23 56.68	-08 09 06.5	19.9 V	910
1997 NW ₄	1997 07 08.90572	16 22 32.71	-07 58 36.5	20.0 V	910	1997 NJ ₆	1997 07 08.92934	16 23 55.46	-08 08 41.7	20.4 V	910
1997 NW ₄	1997 07 08.92837	16 22 32.17	-07 58 40.6	19.9 V	910	1997 NO ₈	* 1997 07 13.04477	21 31 08.24	-13 31 20.9	17.9 V	910
1997 NW ₄	1997 07 09.90435	16 22 10.13	-08 01 40.6	20.0 V	910	1997 NO ₈	1997 07 13.06798	21 31 07.19	-13 31 19.0	17.9 V	910
1997 NW ₄	1997 07 09.92439	16 22 09.68	-08 01 44.4	20.1 V	910	1997 NO ₈	1997 07 13.09120	21 31 06.12	-13 31 16.8	17.8 V	910
1997 NW ₄	1997 07 09.94473	16 22 09.17	-08 01 48.0	19.9 V	910	1997 NO ₈	1997 07 14.03626	21 30 24.11	-13 29 56.4	18.3 V	910
1997 NW ₄	1997 07 09.95455	16 22 08.99	-08 01 49.8	20.1 V	910	1997 NO ₈	1997 07 14.05934	21 30 23.03	-13 29 54.6	18.3 V	910
1997 NW ₄	1997 07 09.96573	16 22 08.74	-08 01 52.1	20.1 V	910	1997 NO ₈	1997 07 14.08266	21 30 21.94	-13 29 52.6	18.3 V	910
1997 NW ₄	1997 07 09.97671	16 22 08.49	-08 01 54.1	20.1 V	910	1997 NP ₈	* 1997 07 13.04501	21 31 29.44	-13 38 33.4	18.9 V	910
1997 NX ₄	* 1997 07 08.88669	16 24 04.02	-08 06 30.7	19.0 V	910	1997 NP ₈	1997 07 13.06823	21 31 28.76	-13 38 36.6	18.8 V	910
1997 NX ₄	1997 07 08.90677	16 24 03.48	-08 06 39.9	19.2 V	910	1997 NP ₈	1997 07 13.09145	21 31 28.06	-13 38 39.7	19.0 V	910
1997 NX ₄	1997 07 08.92943	16 24 02.86	-08 06 50.7	19.1 V	910	1997 NP ₈	1997 07 14.03669	21 31 00.87	-13 40 53.1	17.4 V	910
1997 NX ₄	1997 07 09.90538	16 23 39.12	-08 14 26.8	19.1 V	910	1997 NP ₈	1997 07 14.05977	21 31 00.15	-13 40 56.5	17.6 V	910
1997 NX ₄	1997 07 09.92542	16 23 38.62	-08 14 36.2	18.9 V	910	1997 NP ₈	1997 07 14.08309	21 30 59.45	-13 40 59.8	17.6 V	910
1997 NX ₄	1997 07 09.94577	16 23 38.13	-08 14 46.2	19.6 V	910	1997 NQ ₈	* 1997 07 13.04622	21 33 13.90	-13 38 54.2	20.9 V	910
1997 NY ₄	* 1997 07 08.88686	16 24 17.17	-08 20 51.0	19.6 V	910	1997 NQ ₈	1997 07 13.06944	21 33 13.17	-13 38 56.8	20.7 V	910
1997 NY ₄	1997 07 08.90694	16 24 16.64	-08 20 47.3	19.8 V	910	1997 NQ ₈	1997 07 13.09266	21 33 12.48	-13 38 59.8	20.9 V	910
1997 NY ₄	1997 07 08.92959	16 24 16.03	-08 20 43.6	19.6 V	910	1997 NQ ₈	1997 07 14.03789	21 32 44.18	-13 40 52.9	21.3 V	910
1997 NY ₄	1997 07 09.90553	16 23 51.91	-08 18 08.2	19.5 V	910	1997 NQ ₈	1997 07 14.06097	21 32 43.42	-13 40 55.9	21.2 V	910
1997 NY ₄	1997 07 09.92558	16 23 51.41	-08 18 05.1	19.4 V	910	1997 NQ ₈	1997 07 14.08428	21 32 42.66	-13 40 58.3	21.2 V	910
1997 NY ₄	1997 07 09.94592	16 23 50.94	-08 18 01.9	20.4 V	910	1997 NR ₈	* 1997 07 13.05013	21 38 53.36	-13 17 08.2	21.0 V	910
1997 NZ ₄	* 1997 07 07.89912	16 08 44.95	-07 57 43.6	21.2 V	910	1997 NR ₈	1997 07 13.07335	21 38 52.94	-13 17 07.4	21.2 V	910
1997 NZ ₄	1997 07 07.91883	16 08 44.49	-07 57 50.1	21.2 V	910	1997 NR ₈	1997 07 13.09658	21 38 52.58	-13 17 08.0	21.5 V	910
1997 NZ ₄	1997 07 07.93891	16 08 44.01	-07 57 56.5	21.0 V	910	1997 NR ₈	1997 07 14.04196	21 38 38.05	-13 17 00.7	21.1 V	910
1997 NZ ₄	1997 07 08.87584	16 08 23.74	-08 03 02.8	21.2 V	910	1997 NR ₈	1997 07 14.06505	21 38 37.61	-13 17 00.2	21.5 V	910
1997 NZ ₄	1997 07 08.89592	16 08 23.29	-08 03 09.5	20.7 V	910	1997 NR ₈	1997 07 14.08837	21 38 37.15	-13 17 00.5	21.4 V	910
1997 NZ ₄	1997 07 08.91857	16 08 22.79	-08 03 17.0	20.9 V	910	1997 NS ₈	* 1997 07 13.05109	21 40 14.94	-13 38 53.6	19.6 V	910
1997 NA ₅	* 1997 07 07.90266	16 13 51.16	-08 23 05.5	20.7 V	910	1997 NS ₈	1997 07 13.07430	21 40 14.04	-13 38 54.1	19.6 V	910
1997 NA ₅	1997 07 07.92238	16 13 50.80	-08 23 07.8	20.7 V	910	1997 NS ₈	1997 07 13.09752	21 40 13.08	-13 38 55.1	19.6 V	910
1997 NA ₅	1997 07 07.94246	16 13 50.44	-08 23 10.1	20.5 V	910	1997 NS ₈	1997 07 14.04266	21 39 37.45	-13 39 29.0	19.8 V	910
1997 NA ₅	1997 07 08.87943	16 13 34.08	-08 24 59.1	20.2 V	910	1997 NS ₈	1997 07 14.06574	21 39 36.51	-13 39 30.1	19.6 V	910
1997 NA ₅	1997 07 08.89951	16 13 33.70	-08 25 02.3	20.7 V	910	1997 NS ₈	1997 07 14.08906	21 39 35.57	-13 39 30.9	19.6 V	910
1997 NA ₅	1997 07 08.92217	16 13 33.30	-08 25 05.1	21.0 V	910	1997 NT ₈	* 1997 07 13.05142	21 40 43.96	-13 30 39.6	20.6 V	910
1997 NB ₅	* 1997 07 07.90283	16 14 06.36	-08 11 42.0	18.9 V	910	1997 NT ₈	1997 07 13.07464	21 40 43.21	-13 30 42.1	20.9 V	910
1997 NB ₅	1997 07 07.92255	16 14 06.37	-08 11 57.0	19.0 V	910	1997 NT ₈	1997 07 13.09786	21 40 42.46	-13 30 44.6	21.1 V	910
1997 NB ₅	1997 07 07.94264	16 14 06.38	-08 12 12.4	19.1 V	910	1997 NT ₈	1997 07 14.04306	21 40 12.42	-13 32 23.3	20.6 V	910
1997 NB ₅	1997 07 08.87986	16 14 11.55	-08 24 15.3	19.0 V	910	1997 NT ₈	1997 07 14.06614	21 40 11.64	-13 32 26.0	21.0 V	910
1997 NB ₅	1997 07 08.89995	16 14 11.60	-08 24 30.9	18.9 V	910	1997 NT ₈	1997 07 14.08946	21 40 10.85	-13 32 28.4	21.1 V	910
1997 NB ₅	1997 07 08.92261	16 14 11.67	-08 24 48.4	19.1 V	910	1997 NU ₈	* 1997 07 13.05245	21 42 13.33	-13 35 46.7	20.8 V	910
1997 NC ₅	* 1997 07 07.90861	16 22 26.32	-08 18 39.9	20.2 V	910	1997 NU ₈	1997 07 13.07567	21 42 12.68	-13 35 48.7	21.2 V	910
1997 NC ₅	1997 07 07.92833	16 22 25.94	-08 18 41.5	20.2 V	910	1997 NU ₈	1997 07 13.09889	21 42 12.07	-13 35 49.9	21.4 V	910

1997 NU ₈	1997 07 14.04418	21 41 49.00	-13 37 00.1	20.8 V	910	1997 ND ₉	1997 07 13.08118	21 50 09.04	-13 36 59.2	19.3 V	910
1997 NU ₈	1997 07 14.06726	21 41 48.37	-13 37 02.2	20.7 V	910	1997 ND ₉	1997 07 13.10440	21 50 08.47	-13 37 08.7	19.3 V	910
1997 NU ₈	1997 07 14.09058	21 41 47.74	-13 37 03.7	20.9 V	910	1997 ND ₉	1997 07 14.04970	21 49 45.75	-13 43 43.3	19.4 V	910
1997 NV ₈	* 1997 07 13.05344	21 43 38.20	-13 38 08.6	19.5 V	910	1997 ND ₉	1997 07 14.07278	21 49 45.14	-13 43 52.8	19.4 V	910
1997 NV ₈	1997 07 13.07666	21 43 37.87	-13 38 09.6	19.5 V	910	1997 ND ₉	1997 07 14.09610	21 49 44.53	-13 44 02.8	19.3 V	910
1997 NV ₈	1997 07 13.09988	21 43 37.55	-13 38 11.0	19.5 V	910	1997 NE ₉	* 1997 07 13.05800	21 50 13.54	-13 35 32.1	20.4 V	910
1997 NV ₈	1997 07 14.04531	21 43 26.19	-13 39 00.6	19.5 V	910	1997 NE ₉	1997 07 13.08122	21 50 13.06	-13 35 32.1	20.3 V	910
1997 NV ₈	1997 07 14.06839	21 43 25.83	-13 39 02.0	19.6 V	910	1997 NE ₉	1997 07 13.10445	21 50 12.63	-13 35 32.6	20.5 V	910
1997 NV ₈	1997 07 14.09171	21 43 25.45	-13 39 03.3	19.4 V	910	1997 NE ₉	1997 07 14.04979	21 49 54.70	-13 35 49.4	20.7 V	910
1997 NW ₈	* 1997 07 13.05345	21 43 40.41	-13 27 17.2	20.7 V	910	1997 NE ₉	1997 07 14.07288	21 49 54.17	-13 35 49.8	20.4 V	910
1997 NW ₈	1997 07 13.07667	21 43 39.66	-13 27 20.3	20.6 V	910	1997 NE ₉	1997 07 14.09620	21 49 53.66	-13 35 50.5	20.2 V	910
1997 NW ₈	1997 07 13.09989	21 43 38.90	-13 27 23.4	20.7 V	910	1997 NF ₉	* 1997 07 13.05921	21 51 59.49	-13 25 47.6	20.8 V	910
1997 NW ₈	1997 07 14.04509	21 43 08.46	-13 29 31.4	20.3 V	910	1997 NF ₉	1997 07 13.08243	21 51 58.80	-13 25 49.9	20.5 V	910
1997 NW ₈	1997 07 14.06817	21 43 07.70	-13 29 34.9	20.9 V	910	1997 NF ₉	1997 07 13.10566	21 51 58.17	-13 25 52.7	20.0 V	910
1997 NW ₈	1997 07 14.09149	21 43 06.89	-13 29 37.8	20.8 V	910	1997 NF ₉	1997 07 14.05091	21 51 32.26	-13 27 44.2	20.9 V	910
1997 NX ₈	* 1997 07 13.05410	21 44 36.77	-13 27 06.3	19.0 V	910	1997 NF ₉	1997 07 14.07399	21 51 31.58	-13 27 46.9	20.5 V	910
1997 NX ₈	1997 07 13.07732	21 44 35.90	-13 27 10.6	19.0 V	910	1997 NF ₉	1997 07 14.09731	21 51 30.89	-13 27 50.0	21.3 V	910
1997 NX ₈	1997 07 13.10054	21 44 35.04	-13 27 14.7	18.8 V	910	1997 NG ₉	* 1997 07 13.05934	21 52 09.14	-13 37 35.7	20.4 V	910
1997 NX ₈	1997 07 14.04570	21 44 01.15	-13 30 08.7	18.9 V	910	1997 NG ₉	1997 07 13.08256	21 52 08.25	-13 37 36.2	20.6 V	910
1997 NX ₈	1997 07 14.06878	21 44 00.25	-13 30 13.0	18.8 V	910	1997 NG ₉	1997 07 13.10578	21 52 07.40	-13 37 37.1	20.1 V	910
1997 NX ₈	1997 07 14.09210	21 43 59.33	-13 30 17.5	18.9 V	910	1997 NG ₉	1997 07 14.05092	21 51 32.23	-13 38 02.8	20.5 V	910
1997 NY ₈	* 1997 07 13.05411	21 44 37.66	-13 20 04.9	20.5 V	910	1997 NG ₉	1997 07 14.07400	21 51 31.35	-13 38 03.1	20.3 V	910
1997 NY ₈	1997 07 13.07733	21 44 36.84	-13 20 06.0	20.6 V	910	1997 NG ₉	1997 07 14.09732	21 51 30.43	-13 38 04.8	20.7 V	910
1997 NY ₈	1997 07 13.10055	21 44 36.10	-13 20 07.4	20.7 V	910	1997 NH ₉	* 1997 07 13.05984	21 52 52.22	-13 41 34.3	19.6 V	910
1997 NY ₈	1997 07 14.04576	21 44 06.70	-13 21 00.7	20.6 V	910	1997 NH ₉	1997 07 13.08306	21 52 51.67	-13 41 38.7	19.5 V	910
1997 NY ₈	1997 07 14.06884	21 44 05.90	-13 21 01.8	20.6 V	910	1997 NH ₉	1997 07 13.10629	21 52 51.10	-13 41 43.3	19.5 V	910
1997 NY ₈	1997 07 14.09216	21 44 05.10	-13 21 03.4	20.4 V	910	1997 NH ₉	1997 07 14.05159	21 52 29.20	-13 44 57.7	19.6 V	910
1997 NZ ₈	* 1997 07 13.05517	21 46 07.93	-13 38 12.8	20.6 V	910	1997 NH ₉	1997 07 14.07467	21 52 28.63	-13 45 02.6	19.5 V	910
1997 NZ ₈	1997 07 13.07838	21 46 07.15	-13 38 18.1	20.8 V	910	1997 NH ₉	1997 07 14.09799	21 52 28.04	-13 45 07.5	19.5 V	910
1997 NZ ₈	1997 07 13.10161	21 46 06.41	-13 38 23.8	20.9 V	910	1997 NJ ₉	* 1997 07 13.05998	21 53 04.20	-13 40 09.8	19.9 V	910
1997 NZ ₈	1997 07 14.04682	21 45 36.76	-13 42 07.6	21.0 V	910	1997 NJ ₉	1997 07 13.08321	21 53 04.05	-13 40 17.0	19.9 V	910
1997 NZ ₈	1997 07 14.06990	21 45 36.02	-13 42 13.1	21.1 V	910	1997 NJ ₉	1997 07 13.10643	21 53 03.86	-13 40 24.0	19.9 V	910
1997 NZ ₈	1997 07 14.09322	21 45 35.19	-13 42 19.0	20.7 V	910	1997 NJ ₉	1997 07 14.05193	21 52 58.82	-13 45 18.4	19.7 V	910
1997 NA ₉	* 1997 07 13.05529	21 46 18.83	-13 33 56.7	20.6 V	910	1997 NJ ₉	1997 07 14.07502	21 52 58.64	-13 45 25.8	19.8 V	910
1997 NA ₉	1997 07 13.07851	21 46 18.14	-13 34 04.9	19.8 V	910	1997 NJ ₉	1997 07 14.09835	21 52 58.40	-13 45 33.4	20.0 V	910
1997 NA ₉	1997 07 13.10173	21 46 17.50	-13 34 13.8	20.4 V	910	1997 NK ₉	* 1997 07 13.06329	21 57 52.19	-13 24 22.6	21.0 V	910
1997 NA ₉	1997 07 14.04699	21 45 51.60	-13 39 56.7	20.2 V	910	1997 NK ₉	1997 07 13.08650	21 57 51.42	-13 24 24.1	21.0 V	910
1997 NA ₉	1997 07 14.07007	21 45 50.90	-13 40 04.8	20.4 V	910	1997 NK ₉	1997 07 13.10973	21 57 50.67	-13 24 25.0	21.2 V	910
1997 NA ₉	1997 07 14.09339	21 45 50.19	-13 40 13.6	20.4 V	910	1997 NK ₉	1997 07 14.05493	21 57 20.84	-13 25 10.8	20.8 V	910
1997 NB ₉	* 1997 07 13.05667	21 48 18.05	-13 34 48.5	21.5 V	910	1997 NK ₉	1997 07 14.07801	21 57 20.06	-13 25 12.0	21.0 V	910
1997 NB ₉	1997 07 13.07988	21 48 17.14	-13 34 46.9	21.0 V	910	1997 NK ₉	1997 07 14.10133	21 57 19.27	-13 25 13.3	20.9 V	910
1997 NB ₉	1997 07 13.10310	21 48 16.22	-13 34 45.4	21.3 V	910	1997 NL ₉	* 1997 07 13.06351	21 58 09.10	-13 41 05.3	19.6 V	910
1997 NB ₉	1997 07 14.04823	21 47 39.64	-13 33 54.6	21.0 V	910	1997 NL ₉	1997 07 13.08672	21 58 08.30	-13 41 02.9	19.4 V	910
1997 NB ₉	1997 07 14.07131	21 47 38.70	-13 33 53.6	20.9 V	910	1997 NL ₉	1997 07 13.10994	21 58 07.51	-13 41 00.5	19.3 V	910
1997 NB ₉	1997 07 14.09463	21 47 37.75	-13 33 52.5	20.5 V	910	1997 NL ₉	1997 07 14.05514	21 57 36.83	-13 39 32.2	19.4 V	910
1997 NC ₉	* 1997 07 13.05785	21 49 59.86	-13 40 42.3	20.8 V	910	1997 NL ₉	1997 07 14.07822	21 57 35.98	-13 39 30.0	19.6 V	910
1997 NC ₉	1997 07 13.08107	21 49 59.19	-13 40 47.2	20.6 V	910	1997 NL ₉	1997 07 14.10154	21 57 35.16	-13 39 27.8	19.6 V	910
1997 NC ₉	1997 07 13.10429	21 49 58.62	-13 40 52.1	20.7 V	910	1997 NM ₉	* 1997 07 13.06375	21 58 31.53	-13 28 30.4	19.9 V	910
1997 NC ₉	1997 07 14.04956	21 49 33.26	-13 44 03.4	21.0 V	910	1997 NM ₉	1997 07 13.08697	21 58 30.86	-13 28 33.9	20.0 V	910
1997 NC ₉	1997 07 14.07264	21 49 32.53	-13 44 08.3	21.0 V	910	1997 NM ₉	1997 07 13.11019	21 58 30.17	-13 28 37.8	19.7 V	910
1997 NC ₉	1997 07 14.09596	21 49 31.87	-13 44 13.6	20.8 V	910	1997 NM ₉	1997 07 14.05544	21 58 03.76	-13 31 23.7	20.9 V	910
1997 ND ₉	* 1997 07 13.05796	21 50 09.62	-13 36 49.5	19.1 V	910	1997 NM ₉	1997 07 14.07852	21 58 03.02	-13 31 28.1	20.7 V	910

1997 NM ₉	1997 07 14.10184	21 58 02.31	-13 31 32.5	20.6 V	910
1997 NN ₉	* 1997 07 13.06468	21 59 53.61	-13 18 49.7	19.3 V	910
1997 NN ₉	1997 07 13.08790	21 59 52.63	-13 18 46.0	19.3 V	910
1997 NN ₉	1997 07 13.11111	21 59 51.65	-13 18 42.5	18.9 V	910
1997 NN ₉	1997 07 14.05621	21 59 12.22	-13 16 14.6	18.8 V	910
1997 NN ₉	1997 07 14.07928	21 59 11.21	-13 16 11.0	18.6 V	910
1997 NN ₉	1997 07 14.10260	21 59 10.17	-13 16 07.5	18.8 V	910
1997 NO ₉	* 1997 07 13.06474	21 59 56.88	-13 35 20.6	19.2 V	910
1997 NO ₉	1997 07 13.08796	21 59 56.37	-13 35 23.0	19.0 V	910
1997 NO ₉	1997 07 13.11119	21 59 55.86	-13 35 25.3	19.0 V	910
1997 NO ₉	1997 07 14.05651	21 59 36.03	-13 37 06.9	18.9 V	910
1997 NO ₉	1997 07 14.07960	21 59 35.49	-13 37 09.4	18.5 V	910
1997 NO ₉	1997 07 14.10292	21 59 34.94	-13 37 12.1	18.9 V	910
2268 T-3	1997 07 01.92559	15 58 49.16	-14 16 20.7	18.9 V	910
2268 T-3	1997 07 01.94910	15 58 48.54	-14 16 17.8	19.3 V	910
2268 T-3	1997 07 01.97248	15 58 47.94	-14 16 15.3	19.6 V	910
(561)	1997 07 01.02539	21 11 33.90	-15 01 42.3	17.4 V	910
(561)	1997 07 01.04866	21 11 33.29	-15 01 45.3	17.3 V	910
(561)	1997 07 01.07198	21 11 32.66	-15 01 47.8	17.3 V	910
(600)	1997 07 07.91003	16 24 29.91	-08 11 06.9	14.4 V	910
(600)	1997 07 07.92975	16 24 29.45	-08 11 12.9	14.2 V	910
(600)	1997 07 07.94983	16 24 28.99	-08 11 18.9	14.2 V	910
(600)	1997 07 08.88676	16 24 09.31	-08 16 06.5	13.5 V	910
(600)	1997 07 08.90684	16 24 08.87	-08 16 12.8	13.4 V	910
(600)	1997 07 08.92950	16 24 08.38	-08 16 19.6	13.3 V	910
(600)	1997 07 09.90551	16 23 49.36	-08 21 25.2	13.4 V	910
(600)	1997 07 09.92555	16 23 48.95	-08 21 31.4	13.2 V	910
(600)	1997 07 09.94590	16 23 48.57	-08 21 38.1	14.8 V	910
(791)	1997 07 07.97842	20 06 35.38	-12 59 38.8	13.2 V	910
(791)	1997 07 07.99760	20 06 34.57	-12 59 48.1	13.3 V	910
(791)	1997 07 08.01704	20 06 33.74	-12 59 57.4	13.3 V	910
(1345)	1997 07 07.89933	16 09 02.89	-08 03 20.5	17.8 V	910
(1345)	1997 07 07.91904	16 09 02.51	-08 03 22.7	17.8 V	910
(1345)	1997 07 07.93912	16 09 02.11	-08 03 25.1	17.9 V	910
(1345)	1997 07 08.87608	16 08 44.93	-08 05 15.0	17.9 V	910
(1345)	1997 07 08.89617	16 08 44.55	-08 05 17.4	17.9 V	910
(1345)	1997 07 08.91882	16 08 44.13	-08 05 20.1	18.0 V	910
(1345)	1997 07 09.89485	16 08 27.00	-08 07 18.3	18.1 V	910
(1345)	1997 07 09.91489	16 08 26.64	-08 07 20.7	18.1 V	910
(1345)	1997 07 09.93524	16 08 26.27	-08 07 23.2	17.9 V	910
(5460)	1997 06 24.92310	15 34 57.58	-14 24 47.8	19.5 V	910
(5460)	1997 06 24.94761	15 34 56.89	-14 24 46.3	19.2 V	910
(5460)	1997 06 24.97546	15 34 56.13	-14 24 45.0	19.6 V	910
(5638)	1997 07 08.88403	16 20 12.40	-08 16 17.0	19.1 V	910
(5638)	1997 07 08.90411	16 20 12.05	-08 16 18.8	19.1 V	910
(5638)	1997 07 08.92676	16 20 11.67	-08 16 20.8	19.1 V	910
(5638)	1997 07 09.90281	16 19 56.05	-08 17 49.8	19.0 V	910
(5638)	1997 07 09.92285	16 19 55.72	-08 17 51.8	19.0 V	910
(5638)	1997 07 09.94320	16 19 55.40	-08 17 53.5	19.0 V	910
(6871)	1997 06 30.87813	15 43 21.92	-13 58 52.0	19.2 V	910
(6871)	1997 06 30.90093	15 43 21.41	-13 58 52.0	19.4 V	910
(6871)	1997 06 30.92516	15 43 20.89	-13 58 52.3	19.9 V	910

(6871)	1997 07 01.91464	15 43 01.85	-13 59 02.7	19.8 V	910
(6871)	1997 07 01.93815	15 43 01.41	-13 59 02.7	19.3 V	910
(6871)	1997 07 01.96153	15 43 00.93	-13 59 02.9	19.5 V	910
(6999)	1997 07 06.98818	20 36 16.56	-12 58 58.4	18.6 V	910
(6999)	1997 07 07.01144	20 36 15.43	-12 59 03.6	18.8 V	910
(6999)	1997 07 07.03586	20 36 14.21	-12 59 09.3	18.8 V	910

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2.5-m Isaac Newton Telescope + CCD

GSC

1994 JR ₁	1997 04 07.18209	16 37 09.18	-18 17 04.4		950
1994 JR ₁	1997 04 07.21675	16 37 09.07	-18 17 04.0		950
1997 CR ₂₉	1997 04 07.87649	09 09 42.30	+19 19 35.6		950
1997 CR ₂₉	1997 04 07.91400	09 09 42.20	+19 19 36.1		950
1997 CV ₂₉	1997 04 07.89249	09 16 55.40	+18 11 04.6		950
1997 CV ₂₉	1997 04 07.93019	09 16 55.33	+18 11 04.8		950

956 Observatorio Pozuelo

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0.28-m *f*/3.3 Schmidt-Cassegrain + CCD, 0.21-m *f*/3.9 reflector + CCD

GSC

(2)	1997 07 04.95479	19 35 54.01	+20 58 32.6	9.9	956
(2)	1997 07 05.03111	19 35 50.29	+20 58 23.8	9.9	956
(2)	1997 07 05.95595	19 35 06.15	+20 56 26.2	9.2	956
(2)	1997 07 05.96875	19 35 05.52	+20 56 24.7	9.2	956
(2)	1997 07 05.97096	19 35 05.41	+20 56 24.3	9.2	956
(51)	1997 07 04.97319	19 00 26.49	-06 20 03.5	10.1	956
(51)	1997 07 05.01808	19 00 23.83	-06 20 11.1	10.1	956
(51)	1997 07 05.96306	18 59 29.60	-06 22 57.9	10.2	956
(51)	1997 07 05.97696	18 59 28.81	-06 23 00.2	10.2	956
(67)	1997 07 05.04895	21 22 10.45	-03 58 43.1	10.5	956

962 Gandia

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

GSC

1977 QY ₃	1997 06 25.95584	16 38 00.71	-19 04 26.2		962
1977 QY ₃	1997 06 25.96258	16 38 00.42	-19 04 27.9		962
1977 QY ₃	1997 06 25.99352	16 37 58.92	-19 04 35.1		962
1988 JP	1997 06 25.94552	16 39 04.64	-25 39 23.8		962
1988 JP	1997 06 25.98836	16 39 00.56	-25 40 05.0		962
1988 QD ₁	1997 06 26.01131	17 34 56.04	-11 41 28.3		962
1988 QD ₁	1997 06 26.01336	17 34 55.95	-11 41 25.9		962
1988 QD ₁	1997 06 26.04903	17 34 53.94	-11 40 56.3		962
1989 CJ ₈	1997 05 09.94675	13 18 23.61	+07 35 02.2		962
1989 CJ ₈	1997 05 09.94977	13 18 23.55	+07 35 01.8		962
1989 CJ ₈	1997 05 09.98656	13 18 22.80	+07 35 01.6		962

1991 UE ₃	1997 05 10.01807	14 48 55.88	−08 17 31.5	962
1991 UE ₃	1997 05 10.02331	14 48 55.54	−08 17 30.8	962
1993 JL	1997 05 09.95910	13 19 00.31	+11 55 11.4	962
1993 JL	1997 05 09.99731	13 18 58.65	+11 54 57.1	962
(532)	1997 06 26.03767	19 33 58.50	−20 35 53.6	962
(532)	1997 06 26.08486	19 33 56.07	−20 36 13.9	962
(3309)	1997 05 09.93330	12 59 47.33	−11 46 53.2	962
(3309)	1997 05 09.97767	12 59 43.64	−11 47 27.0	962

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C/1996 D1 (SOHO)

<i>T</i>	1996 Feb. 19.41 TT			Marsden
<i>q</i>	0.0054	(2000.0)	P	Q
	ω	111.26	+0.00268	−0.90077
	Ω	33.02	−0.90973	−0.18252
<i>e</i>	1.0	<i>i</i> 127.15	+0.41520	−0.39409

From 8 observations 1996 Feb. 18.

C/1996 F2 (SOHO)

<i>T</i>	1996 Mar. 25.66 TT			Marsden
<i>q</i>	0.0099	(2000.0)	P	Q
	ω	73.87	+0.32542	−0.94488
	Ω	3.53	−0.92141	−0.32543
<i>e</i>	1.0	<i>i</i> 144.24	+0.21240	+0.03592

From 24 observations 1996 Mar. 23–25.

C/1996 J1-B (Evans-Drinkwater)

Epoch	1996 Dec. 23.0 TT = JDT 2450440.5			
<i>T</i>	1996 Dec. 30.4193 TT		Nakano	
<i>q</i>	1.297566	(2000.0)	P	Q
<i>z</i>	−0.000705	ω 14.8406	+0.3715419	+0.8474912
	± 0.000006	Ω 278.1682	−0.8860568	+0.2017509
<i>e</i>	1.000914	<i>i</i> 22.5186	−0.2772363	+0.4909737

From 178 observations 1996 May 10–1997 July 5, mean residual 0''.6.

C/1997 G2 (Montani)

Epoch	1998 Apr. 17.0 TT = JDT 2450920.5			
<i>T</i>	1998 Apr. 16.3018 TT		Marsden	
<i>q</i>	3.084744	(2000.0)	P	Q
<i>z</i>	+0.001684	ω 239.8531	−0.0358643	+0.6291277
	± 0.000055	Ω 55.8027	−0.2118182	+0.7545353
<i>e</i>	0.994804	<i>i</i> 69.8481	−0.9766508	−0.1867480

From 141 observations 1997 Apr. 12–June 29, mean residual 0''.7.

C/1997 J1 (Mueller)

Epoch	1997 Apr. 22.0 TT = JDT 2450560.5			
<i>T</i>	1997 May 3.7997 TT		Marsden	
<i>q</i>	2.302296	(2000.0)	P	Q
<i>z</i>	+0.003770	ω 98.9565	−0.5526081	−0.0376561
	± 0.000068	Ω 277.0785	−0.2486829	+0.9609221
<i>e</i>	0.991320	<i>i</i> 122.9669	+0.7954754	+0.2742459

From 293 observations 1997 May 3–July 9, mean residual 0''.6.

C/1997 J2 (Meunier-Dupouy)

<i>T</i>	1998 Mar. 10.3496 TT			Marsden
<i>q</i>	3.052336	(2000.0)	P	Q
	ω	122.6303	+0.4711915	+0.7145525
	Ω	148.8534	−0.5760637	−0.1946470
<i>e</i>	1.0	<i>i</i> 91.2766	+0.6679291	−0.6719578

From 303 observations 1997 May 5–July 6.

C/1997 L1 (Xinglong)

<i>T</i>	1996 Nov. 21.6998 TT			Marsden
<i>q</i>	4.896691	(2000.0)	P	Q
	ω	346.1954	−0.6361934	+0.0848603
	Ω	233.3041	−0.5854167	−0.7004969
<i>e</i>	1.0	<i>i</i> 73.0162	−0.5025388	+0.7085921

From 128 observations 1997 June 3–July 9.

C/1997 L2 (SOHO)

<i>T</i>	1997 June 10.98 TT			Marsden
<i>q</i>	0.0430	(2000.0)	P	Q
	ω	66.39	−0.16952	−0.39695
	Ω	72.79	+0.08866	−0.91773
<i>e</i>	1.0	<i>i</i> 70.79	+0.98153	+0.01434

From 18 observations 1997 June 10–11.

C/1997 L3 (SOHO)*T* 1997 June 13.85 TT*q* 0.0084 (2000.0) ω 65.02 Ω 341.48*i* 138.56

From 23 observations 1997 June 12–13.

C/1997 L4 (SOHO)*T* 1997 June 15.91 TT*q* 0.0054 (2000.0) ω 84.94 Ω 6.70*i* 142.58

From 34 observations 1997 June 14–15.

C/1997 M1 (SOHO)*T* 1997 June 30.95 TT*q* 0.0058 (2000.0) ω 85.15 Ω 1.18*i* 136.57

From 15 observations 1997 June 29–30.

C/1997 N1 (Tabur)*T* 1997 Aug. 15.4779 TT*q* 0.395469 (2000.0) ω 344.2126 Ω 147.6169*i* 85.9685

From 41 observations 1997 July 3–14.

55P/Tempel-Tuttle

Epoch 1998 Mar. 8.0 TT = JDT 2450880.5

T 1998 Feb. 28.1045 TT*q* 0.976628 (2000.0)*n* 0.0296658 ω 172.4960*a* 10.334729 Ω 235.2581*e* 0.905500 *i* 162.4859*P* 33.2

From 17 observations 1965–1997, mean residual 1''3.

131P/Mueller 2

Epoch 1997 Nov. 8.0 TT = JDT 2450760.5

T 1997 Nov. 22.2015 TT*q* 2.412129 (2000.0)*n* 0.1398151 ω 179.6390*a* 3.676489 Ω 214.2849*e* 0.343904 *i* 7.3554*P* 7.05

From 65 observations 1990–1997, mean residual 0''8.

One-opposition minor planets

Planet	<i>H</i>	Epoch	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	<i>a</i>	Arc	O	N	C
1991 JD	14.0	910504	320.73	240.92	39.40	3.06	0.2020	2.3692	14	9		W
1991 JF	13.5	910504	329.44	22.34	239.55	6.13	0.1042	2.3716	14	12		W

Marsden

P**Q**

+0.18465 −0.96006

−0.95288 −0.12250

+0.24069 +0.25155

Marsden

P**Q**

+0.17988 −0.98113

−0.95220 −0.19176

+0.24691 −0.02474

Marsden

P**Q**

+0.09933 −0.99495

−0.93468 −0.09817

+0.34134 +0.02073

Marsden

P**Q**

−0.8023855 −0.2659907

+0.5956223 −0.3005524

−0.0375701 +0.9159242

Marsden

P**Q**

+0.4626616 +0.8513466

+0.7969470 −0.2772065

+0.3883551 −0.4453824

Nakano

P**Q**

+0.8297497 −0.5534570

+0.5117582 +0.8059931

+0.2227534 +0.2099057

1991 JZ	12.5	910504	283.39	90.06	229.57	28.23	0.1331	2.9658	8	6	E	W
1991 UQ ₁	13.5	911031	346.22	22.82	38.92	8.53	0.1809	2.2905	51	14		W
1991 UR ₁	14.0	911011	342.36	17.13	42.03	2.01	0.1499	2.3784	21	11		W
1991 UQ ₂	14.5	911031	23.09	319.45	38.14	13.18	0.3109	2.5642	40	12		W
1991 UR ₂	14.5	911011	344.45	24.93	37.31	8.20	0.3143	2.4420	26	10		W
1991 VG ₁	14.5	911031	347.41	32.87	30.37	5.98	0.2705	2.3828	51	17		W
1991 VO ₃	14.0	911011	311.92	35.42	59.87	4.14	0.1513	2.3784	23	10		W
1991 VP ₃	14.0	911011	290.20	61.81	50.42	7.25	0.0776	2.3427	23	10		W
1991 VN ₈	16.0	911011	56.03	178.29	145.28	1.53	0.1409	2.2427	20	10		W
1991 VZ ₈	15.0	911011	15.44	314.64	60.00	6.83	0.1533	2.6858	22	13		W
1991 VA ₉	15.5	911011	237.51	107.19	59.53	7.87	0.0769	2.3567	22	13		W
1991 VB ₉	14.0	911011	354.51	310.08	95.41	2.88	0.1190	3.2572	22	16		W
1993 QX ₄	12.5	930821	220.43	320.81	160.44	15.16	0.0467	2.5601	30	15		W
1993 RD ₂	13.0	930930	28.29	153.24	174.86	15.32	0.1243	2.6053	30	14		W
1993 SD ₁	14.5	930930	356.11	332.11	39.45	3.99	0.1956	2.3622	29	15		W
1993 SN ₁	15.0	930930	10.97	191.00	160.85	5.72	0.1903	2.2272	29	13		W
1993 SQ ₁	13.5	930930	359.25	339.64	29.93	9.64	0.1902	2.7113	29	13		W
1993 SV ₃	14.5	930930	30.07	297.67	16.09	22.73	0.2871	2.4272	33	13		W
1993 TB	13.5	930930	358.67	265.13	101.42	2.69	0.1842	3.1204	32	16		W
1993 UJ ₁	14.5	931109	321.57	244.70	207.60	20.77	0.0848	1.8538	50	16		W
1995 DP ₁	14.0	950304	358.98	166.35	2.17	12.36	0.2109	2.6735	37	15		W
1995 DX ₅	12.5	950212	272.43	260.48	358.23	12.28	0.0508	3.1354	51	12		W
1995 DN ₇	14.0	950212	270.23	257.85	7.18	5.89	0.0805	3.1845	49	13		W
1995 DW ₈	14.0	950304	78.59	305.65	140.99	2.64	0.0263	2.9139	40	13		W
1995 DY ₈	14.0	950304	260.44	153.23	133.76	2.14	0.1712	3.3357	31	10		W
1995 EK	15.0	950304	36.41	105.07	12.09	8.43	0.1619	2.3264	33	12		W
1995 EU	14.0	950304	284.95	107.45	140.62	5.33	0.0264	2.5353	28	15		W
1995 EP ₈	15.5	950304	321.37	187.99	34.62	5.03	0.1999	2.6446	22	6		W
1995 FR ₁	14.5	950324	66.93	82.68	5.17	13.49	0.1594	2.6885	12	9		W
1995 FK ₄	13.0	950304	78.19	267.00	159.48	9.53	0.2017	2.7813	39	16		W
1995 FQ ₄	14.0	950324	223.61	253.30	61.83	2.43	0.0877	2.5446	12	10		W
1995 FT ₄	15.5	950324	276.40	230.72	48.56	2.78	0.1980	2.4256	12	10		W
1995 FU ₄	14.5	950304	52.83	310.09	160.45	11.72	0.0531	2.9686	34	13		W
1995 FW ₄	15.5	950324	323.83	140.06	77.41	2.53	0.1187	3.2071	12	9		W
1995 FD ₅	16.5	950324	74.83	37.32	45.18	2.81	0.1429	2.4408	12	9		W
1995 FF ₆	15.0	950304	56.53	299.06	163.60	14.40	0.0871	3.0396	33	16	D	W
1995 FG ₆	16.5	950324	47.53	107.96	9.34	5.66	0.0972	2.3445	13	10		W
1995 FQ ₆	15.5	950304	77.07	311.43	115.47	2.71	0.2175	2.3431	34	13		W
1995 FX ₆	15.0	950304	27.93	330.89	163.74	12.14	0.1103	2.7643	28	13		W
1995 FW ₁₉	13.5	950324	252.36	276.51	11.06	5.35	0.0759	2.7634	12	9		W
1995 GZ ₆	15.5	950324	278.20	148.28	127.06	6.27	0.1631	2.2955	9	16		W
1995 GB ₇	15.5	950324	46.20	3.51	123.42	5.88	0.0222	2.2357	9	16		W
1995 GL ₇	14.0	950324	143.16	309.23	70.12	6.18	0.1581	3.0145	9	19		W
1995 GP ₇	15.0	950324	293.17	173.31	77.84	5.34	0.1024	2.7898	7	19		W
1995 GR ₇	16.5	950324	257.00	186.95	111.12	5.63	0.1988	2.1919	9	15		W
1995 GS ₇	15.5	950324	313.20	108.94	125.37	6.10	0.1372	2.4004	8	20	E	W
1996 TR₆₆	8.0	961004	359.98	19.16	343.74	12.86	0.0861	39.3412	4	6	E	W
1997 CR₂₉	6.5	970221	0.00	8.03	127.62	20.19	0.0000	41.9956	63	10	E	M
1997 CT₂₉	5.0	970201	187.37	238.16	68.69	0.96	0.0488	42.8941	30	9	E	M
1997 CU₂₉	6.5	970221	0.07	124.35	348.12	1.49	0.0000	44.5714	29	12	E	W
1997 CV₂₉	7.0	970221	0.05	16.40	120.83	7.84	0.0959	44.2269	60	11	E	M
1997 CW₂₉	6.5	970221	179.65	188.52	110.69	18.98	0.0788	39.3753	27	11	E	W
1997 FU ₃	13.0	970313	127.40	115.01	297.86	2.88	0.1481	3.1568	27	14		M
1997 GY ₈	16.0	970313	34.14	289.94	213.76	1.86	0.1337	2.5671	27	12		M
1997 HP ₂	15.0	970512	338.08	83.25	174.90	1.19	0.1084	2.5320	41	28		W
1997 HR ₂	17.0	970512	313.51	171.51	130.59	3.06	0.2359	2.3964	40	12		W
1997 HQ ₃	16.5	970512	3.89	154.68	72.47	6.91	0.0776	2.2852	40	18	D	W
1997 HX ₃	14.5	970512	71.57	74.16	72.40	9.36	0.1338	2.3728	39	18		W

1997 JULY 20

M.P.C. 30245

1997 HC ₁₇	16.0	970512	335.85	92.66	176.10	4.02	0.1909	2.5775	39	14	W	1997 LF ₄	15.5	970601	22.70	349.82	249.57	9.29	0.2015	2.3096	18	12	W
1997 JL	15.5	970512	308.32	162.18	127.86	3.32	0.0788	2.4703	37	12	W	1997 LG ₄	15.0	970621	290.50	188.08	151.87	15.97	0.1504	2.8890	34	24	W
1997 JN	15.5	970512	168.02	302.33	119.09	4.20	0.1554	2.2172	37	12	W	1997 LH ₄	15.0	970621	81.81	347.38	185.55	14.88	0.0284	2.5949	29	21	W
1997 JU ₃	15.0	970601	20.32	153.06	56.80	8.90	0.1488	2.8124	60	23	M	1997 LN ₄	15.0	970601	53.67	336.28	179.89	4.36	0.2869	2.7899	4	12 E	W
1997 JH ₆	14.0	970512	299.83	205.98	104.02	5.35	0.1579	2.8742	36	18	W	1997 LQ ₄	18.5	970601	347.06	67.27	198.45	4.19	0.2335	2.3563	12	9	W
1997 JB ₈	16.0	970601	307.92	96.37	217.97	4.98	0.2193	2.2145	63	30	M	1997 LT ₄	15.5	970621	206.46	289.44	113.45	6.40	0.0719	2.7015	28	17	W
1997 JF ₁₀	15.0	970512	85.78	288.03	203.20	2.48	0.1365	2.5897	35	16	W	1997 LV ₄	15.0	970601	337.00	54.44	232.09	10.40	0.2860	2.4688	3	12 E	W
1997 JH ₁₀	15.5	970512	57.14	323.42	203.08	2.37	0.0869	2.3076	36	25	W	1997 LZ ₄	15.0	970621	257.49	141.79	227.88	4.58	0.1671	2.6837	20	12	M
1997 JM ₁₄	14.5	970512	54.59	316.09	211.84	4.73	0.0823	2.4773	36	12	W	1997 LA ₅	15.5	970621	316.81	233.92	109.54	15.77	0.1502	2.5618	30	18	M
1997 JO ₁₄	15.5	970512	313.00	199.38	98.91	3.33	0.2108	2.3780	39	15	W	1997 LO ₅	14.0	970601	303.14	119.35	186.26	12.79	0.0602	5.1876	27	9	W
1997 JQ ₁₄	16.5	970512	332.00	80.85	191.61	2.78	0.2010	2.3545	36	15	W	1997 LT ₅	15.5	970601	133.51	262.06	198.18	11.49	0.1943	2.3927	16	9	W
1997 JA ₁₅	14.0	970512	263.81	279.96	69.12	6.61	0.2025	2.5341	36	12	W	1997 LV ₅	16.5	970621	332.56	43.34	286.97	0.47	0.2006	2.4509	19	32	M
1997 JB ₁₅	15.0	970512	49.68	92.25	80.50	3.71	0.0911	2.2481	36	12	W	1997 LX ₅	16.0	970621	25.42	107.75	140.36	1.91	0.1912	2.4624	18	11	M
1997 JD ₁₅	15.0	970512	71.35	64.77	84.61	3.69	0.0920	2.2109	36	12	W	1997 LA ₆	14.5	970621	210.66	301.71	102.56	16.77	0.1683	2.7644	15	9	W
1997 JG ₁₅	10.5	970512	277.65	91.46	227.91	28.48	0.0362	5.2682	36	18	W	1997 LB ₆	15.0	970621	67.01	23.23	152.42	9.79	0.0839	2.7998	28	12	W
1997 JJ ₁₅	15.0	970512	309.52	83.46	211.66	5.46	0.1332	2.2714	36	12	W	1997 LB ₇	15.0	970512	226.88	177.15	202.71	5.89	0.2251	2.1593	36	12	W
1997 JK ₁₅	14.0	970512	339.28	48.85	206.40	4.42	0.0598	2.7279	36	12	W	1997 LE ₁₀	13.0	970621	129.08	337.67	139.43	11.29	0.0575	3.0191	35	15	W
1997 JM ₁₅	14.0	970512	43.80	91.57	95.11	2.98	0.0168	2.7911	36	12	W	1997 LS ₁₃	13.0	970601	75.75	266.78	234.42	20.29	0.2119	2.7936	2	12 E	W
1997 JR ₁₅	13.5	970512	35.85	74.53	119.53	2.80	0.0328	3.0107	36	12	W	1997 MA	12.5	970621	313.74	204.37	137.99	5.00	0.0926	2.6414	11	13	W
1997 JT ₁₅	13.0	970512	260.13	219.60	115.92	3.11	0.0309	2.9137	36	12	W	1997 MC	14.0	970621	248.00	243.89	138.50	12.87	0.2256	2.6572	8	11	X
1997 JZ ₁₅	15.0	970512	300.78	84.07	219.66	6.41	0.1128	2.3598	36	12	W	1997 MG	15.0	970621	54.34	96.87	114.58	6.74	0.1826	2.3375	12	10	W
1997 JA ₁₆	14.5	970512	233.55	202.98	168.84	3.58	0.1605	2.3432	36	15	W	1997 MJ	15.0	970621	28.43	342.18	230.21	17.82	0.1809	2.5659	10	9	W
1997 JB ₁₆	10.5	970512	286.59	92.98	220.08	11.64	0.0506	5.2523	36	12	W	1997 MO	16.0	970621	35.58	66.69	184.89	12.08	0.1841	3.1225	8	9	W
1997 JF ₁₆	14.5	970512	255.10	157.19	185.34	4.32	0.0459	2.3244	36	12	W	1997 MQ	16.5	970621	327.22	201.90	144.74	29.05	0.1833	3.1955	13	10	W
1997 JG ₁₆	13.0	970512	123.07	29.86	64.70	17.56	0.1743	3.0520	36	12	W	1997 MS	19.0	970621	23.45	65.81	86.46	55.01	0.7272	1.9359	17	46	M
1997 JJ ₁₆	14.5	970512	10.44	50.85	168.64	2.30	0.1198	2.4776	36	15	W	1997 MX	15.0	970621	304.65	241.61	131.31	6.82	0.2722	2.5405	15	13	W
1997 JN ₁₆	13.5	970512	264.64	150.95	196.63	4.14	0.1715	2.6018	36	15	W	1997 MZ	14.5	970621	224.65	156.05	278.34	13.50	0.1190	2.5287	14	9	W
1997 JP ₁₆	13.5	970512	350.63	131.47	112.19	3.53	0.0452	2.8658	36	12	W	1997 MA ₁	17.0	970621	339.14	201.37	77.70	23.19	0.0694	1.8920	6	10	M
1997 JQ ₁₆	15.5	970512	26.33	70.12	125.60	2.22	0.1730	2.2232	36	12	W	1997 MD ₁	15.0	970621	40.53	23.19	178.92	8.99	0.0808	3.1193	19	9	W
1997 JO ₁₈	13.5	970512	349.82	182.12	61.31	18.61	0.1463	3.1283	31	19	W	1997 MG ₁	13.0	970621	219.24	207.45	189.89	10.55	0.1125	2.9990	26	12	W
1997 KC	14.0	970601	357.49	140.41	98.11	14.46	0.1997	2.4414	35	55	W	1997 MQ ₁	15.5	970621	48.20	15.07	207.24	5.79	0.1092	2.2551	5	6	W
1997 KG	14.0	970601	234.98	282.33	95.59	3.33	0.0876	2.8860	37	24	M	1997 MR ₁	15.0	970621	5.15	354.53	252.72	23.41	0.0929	2.2931	4	12	M
1997 KK	13.5	970601	89.72	284.23	216.02	9.98	0.0771	3.0243	9	12 E	W	1997 MT ₁	17.5	970621	0.55	170.28	111.94	11.58	0.2587	2.4623	2	8	M
1997 KS	14.0	970512	333.43	78.84	225.12	5.71	0.1333	2.4379	12	14	W	1997 MU ₁	15.0	970621	52.46	99.11	114.13	13.46	0.2016	2.5035	4	11	M
1997 KJ ₂	15.5	970601	269.00	258.65	91.75	5.64	0.1711	2.3566	10	12	W	1997 MV ₁	18.5	970621	348.88	118.07	194.25	6.43	0.2984	2.2250	5	9 E	W
1997 KO ₂	14.5	970512	191.27	317.24	90.51	6.55	0.1273	2.2837	36	18 D	W	1997 MW₁	20.0	970621	159.66	203.64	260.15	12.82	0.3475	0.9375	14	0	W
1997 KP ₂	15.0	970601	49.64	7.38	169.61	3.49	0.1564	2.5516	10	9	W	1997 MA ₂	17.0	970621	289.97	217.48	136.06	3.58	0.2855	2.2962	6	8 E	W
1997 KP ₃	18.0	970601	342.95	163.25	108.77	4.09	0.2348	2.1625	9	12	W	1997 MB ₂	16.5	970621	291.03	240.96	108.85	5.83	0.2608	2.3104	6	9	W
1997 KQ ₃	15.0	970601	235.14	253.78	113.95	6.21	0.0095	2.7165	29	18	W	1997 MC ₂	14.0	970621	342.00	177.70	91.63	11.59	0.0841	3.2417	6	9 E	W
1997 KZ ₃	11.5	970601	284.58	242.77	80.94	10.05	0.1011	5.3468	12	12	W	1997 MP ₂	14.5	970621	54.84	306.51	262.77	6.40	0.1437	2.7665	4	11 E	W
1997 KH ₄	14.5	970601	58.08	74.04	103.56	6.32	0.0759	2.2616	32	17	W	1997 MR ₂	15.5	970621	350.56	186.67	104.82	16.06	0.1861	2.7609	4	13	W
1997 KM ₄	14.5	970601	60.83	357.44	161.44	16.16	0.1429	3.1323	7	15	M	1997 MT ₂	13.0	970621	221.11	150.96	281.94	17.02	0.2350	2.7645	4	11 E	W
1997 LF ₁	16.0	970601	230.72	314.26	67.50	5.69	0.0484	2.3015	5	18	M	1997 MU ₂	15.5	970621	344.82	200.65	98.36	15.30	0.1557	2.9608	4	11 E	W
1997 LG ₁	15.0	970621	139.66	178.95	137.32	10.42	0.2333	2.3224	31	29	W	1997 MW ₂	17.0	970621	3.05	200.52	70.30	1.06	0.2086	2.2091	4	13 E	W
1997 LK ₁	16.5	970601	296.72	176.52	151.49	7.95	0.1711	2.6094	30	12	W	1997 MX ₂	15.0	970621	316.01	49.20	290.29	12.03	0.1923	2.5498	4	13 E	W
1997 LU ₁	13.5	970601	60.18	339.73	199.66	12.77	0.0545	2.9962	35	17	W	1997 MZ ₂		970621	342.65	311.50	349.91	2.49	0.1711	2.4251	4	13 E	W
1997 LG ₂	13.0	970601	262.09	237.24	103.66	6.84	0.0459	5.3698	59	21	W	1997 MA ₃		970621	302.86	285.47	69.62	5.27	0.1919	2.2929	4	13	W
1997 LJ ₂	16.0	970601	302.97	220.81	105.54	5.35	0.2454	2.6702	5	12 E	W	1997 ME ₃	16.0	970621	310.27	311.30	32.27	1.38	0.1753	2.1652	5	21	W
1997 LP ₂	15.5	970601	51.83	75.38	84.02	3.54	0.2554	2.4086	2	12 E	W	1997 MM ₃	16.0	970621	267.33	278.29	102.04	23.61	0.1005	1.9089	5	17	W
1997 LQ ₂	16.0	970621	307.30	89.60	249.33	22.54	0.2822	2.2925	26	38	W	1997 MQ ₃	15.5	970621	300.23	236.75	122.88	7.86	0.2053	2.4912	5	13	W
1997 LX ₂	16.0	970601	338.06	179.22	95.89	5.46	0.206																

1997 NF ₃	16.5	970711	318.36	300.98	64.56	3.87	0.2381	2.3335	4	11	W
1997 NZ ₃	15.0	970621	286.09	104.46	306.62	13.98	0.2650	2.7903	6	9	W
1997 NN ₄	21.5	970711	356.54	61.57	242.94	5.30	0.3571	2.1171	6	10	W
1997 NE ₅	15.0	970621	21.93	322.97	305.03	3.80	0.1773	2.1830	9	9	W
1997 NF ₅	17.0	970621	294.86	263.01	137.30	10.58	0.2483	3.0381	10	8	W
1997 NS ₅	17.0	970621	317.61	184.00	173.21	2.36	0.1995	2.3149	5	9	E W
1997 NT ₅	18.0	970621	20.13	348.58	271.19	3.03	0.2513	2.3016	5	9	E W
1997 NU ₅	17.0	970621	305.88	156.32	227.00	1.89	0.2609	2.6216	5	9	W
1997 NV ₅	16.5	970621	303.44	88.40	289.27	3.85	0.2003	2.2783	5	9	W
1997 NW ₅	16.5	970621	296.88	81.87	301.05	6.71	0.1358	2.6059	5	9	W
1997 NX ₅	16.0	970621	196.24	333.50	138.63	6.00	0.1011	2.2919	5	9	E W
1997 NY ₅	15.0	970621	319.01	53.53	301.89	6.48	0.1087	2.7540	5	9	W
1997 NZ ₅	16.5	970621	324.66	181.27	167.22	2.29	0.1471	2.6132	5	9	E W
1997 NE ₆	15.5	970711	295.57	245.21	139.38	10.79	0.1156	2.5445	3	9	E W
1997 NJ₆	18.5	970711	271.12	132.46	254.73	18.94	0.2270	1.4867	5	19	W
1995 FF ₆ = 1995 EM ₄ (K. Ichikawa, <i>MPC</i> 27886)											
1997 HQ ₃ = 1997 JV ₁₅ (G. V. Williams)											
1997 KO ₂ = 1997 JC ₁₈ (G. V. Williams)											
Epoch 1997 June 1.0 TT = JDT 2450600.5						Viateau					
(208) Lacrimosa				Obs.	160	<i>M</i>	224.94464	ω	130.77289		
<i>H</i>	8.96	<i>G</i>	0.15	Opp.	43	<i>n</i>	0.20040810	Ω	4.61390		
rms res.	0".42	(M-v)			1901-1995	<i>e</i>	0.0117949	<i>i</i>	1.75343		
Epoch 1997 June 1.0 TT = JDT 2450600.5						Bowell					
(672) Astarte				Obs.	30	<i>M</i>	309.62896	ω	310.04313		
<i>H</i>	11.1	<i>G</i>	0.15	<i>U</i>	1 Opp. 14	<i>n</i>	0.24123526	Ω	344.07858		
rms res.	0".69	(M-v)			1907-1997	<i>e</i>	0.1344185	<i>i</i>	11.14439		
Epoch 1997 June 1.0 TT = JDT 2450600.5						Bowell					
(968) Petunia				Obs.	53	<i>M</i>	111.45686	ω	296.19094		
<i>H</i>	10.01	<i>G</i>	0.15	<i>U</i>	1 Opp. 22	<i>n</i>	0.20313029	Ω	209.31933		
rms res.	0".90	(M-v)			1921-1997	<i>e</i>	0.1372174	<i>i</i>	11.55119		
Epoch 1997 June 1.0 TT = JDT 2450600.5						Sumzina					
(1034) Mozartia				Obs.	56	<i>M</i>	2.29076	ω	18.36134		
<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>	1 Opp. 12	<i>n</i>	0.28388042	Ω	304.81752		
rms res.	1".18	(M-v)			1924-1990	<i>e</i>	0.2632024	<i>i</i>	3.97470		
Epoch 1997 June 1.0 TT = JDT 2450600.5						Sumzina					
(1244) Deira				Obs.	86	<i>M</i>	101.84269	ω	261.43988		
<i>H</i>	11.3	<i>G</i>	0.15	<i>U</i>	1 Opp. 25	<i>n</i>	0.27460154	Ω	277.32514		
rms res.	1".25	(M-v)			1908-1996	<i>e</i>	0.0970129	<i>i</i>	8.70169		
Epoch 1997 June 1.0 TT = JDT 2450600.5						Sumzina					
(1272) Gefion				Obs.	37	<i>M</i>	86.37994	ω	2.67786		
<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2 Opp. 8	<i>n</i>	0.21223300	Ω	321.76701		
rms res.	1".14	(M-v)			1931-1994	<i>e</i>	0.1514113	<i>i</i>	8.42736		
Epoch 1997 June 1.0 TT = JDT 2450600.5						Sumzina					
(1274) Delportia				Obs.	88	<i>M</i>	2.35473	ω	244.04532		
<i>H</i>	11.82	<i>G</i>	0.15	<i>U</i>	1 Opp. 23	<i>n</i>	0.29614034	Ω	327.38472		
rms res.	1".20	(M-v)			1926-1996	<i>e</i>	0.1124937	<i>i</i>	4.40305		
Epoch 1997 June 1.0 TT = JDT 2450600.5						Sumzina					
(1371) Resi				Obs.	35	<i>M</i>	303.98070	ω	104.56200		
<i>H</i>	11.4	<i>G</i>	0.15	<i>U</i>	1 Opp. 10	<i>n</i>	0.17117138	Ω	185.57362		
rms res.	0".91	(M-v)			1935-1993	<i>e</i>	0.1015259	<i>i</i>	16.44050		

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1389) Onnie Obs. 101 *M* 168.59942 ω 289.77005
H 11.64 *G* 0.15 *U* 1 Opp. 23 *n* 0.20310944 Ω 174.87015
rms res. 1''.27 (M-v) 1935-1996 *e* 0.0144220 *i* 2.03530

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1443) Ruppina Obs. 124 *M* 58.96027 ω 157.55232
H 11.4 *G* 0.15 *U* 1 Opp. 24 *n* 0.19583588 Ω 175.22834
rms res. 1''.12 (M-v) 1931-1996 *e* 0.0608633 *i* 1.92050

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1447) Utra Obs. 70 *M* 278.35328 ω 64.24896
H 11.3 *G* 0.15 *U* 1 Opp. 18 *n* 0.24425934 Ω 35.83586
rms res. 1''.21 (M-v) 1938-1993 *e* 0.0396282 *i* 4.79190

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1600) Vyssotsky Obs. 51 *M* 178.57281 ω 50.25425
H 11.9 *G* 0.15 *U* 2 Opp. 14 *n* 0.39199265 Ω 60.72634
rms res. 0''.97 (M-v) 1947-1996 *e* 0.0373264 *i* 21.17229

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1601) Patry Obs. 60 *M* 146.62825 ω 196.06009
H 12.32 *G* 0.15 *U* 2 Opp. 14 *n* 0.29521343 Ω 74.82895
rms res. 1''.08 (M-v) 1942-1995 *e* 0.1294671 *i* 4.94307

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1615) Bardwell Obs. 101 *M* 292.76298 ω 247.78781
H 11.38 *G* 0.15 *U* 1 Opp. 19 *n* 0.17875287 Ω 153.11431
rms res. 1''.25 (M-v) 1926-1994 *e* 0.1859943 *i* 1.68115

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1659) Punkaharju Obs. 82 *M* 114.54378 ω 35.59245
H 10.1 *G* 0.15 *U* 1 Opp. 21 *n* 0.21197419 Ω 338.57298
rms res. 1''.29 (M-v) 1930-1997 *e* 0.2576714 *i* 16.47014

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1662) Hoffmann Obs. 86 *M* 54.66457 ω 63.15972
H 11.3 *G* 0.15 *U* 1 Opp. 16 *n* 0.21686600 Ω 330.92711
rms res. 1''.26 (M-v) 1923-1996 *e* 0.1708157 *i* 4.23978

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1684) Iguassú Obs. 122 *M* 220.21469 ω 148.12468
H 10.8 *G* 0.15 *U* 1 Opp. 25 *n* 0.18142841 Ω 105.79315
rms res. 1''.26 (M-v) 1922-1996 *e* 0.1329857 *i* 3.65917

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1726) Hoffmeister Obs. 61 *M* 275.39077 ω 68.26987
H 12.1 *G* 0.15 *U* 1 Opp. 18 *n* 0.21184050 Ω 231.42398
rms res. 1''.09 (M-v) 1924-1994 *e* 0.0417688 *i* 3.47483

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1731) Smuts Obs. 85 *M* 186.13079 ω 206.46367
H 10.0 *G* 0.15 *U* 1 Opp. 26 *n* 0.17424128 Ω 152.99215
rms res. 1''.27 (M-v) 1926-1994 *e* 0.1167617 *i* 5.91908

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1749) Telamon Obs. 67 *M* 273.67049 ω 109.70940
H 9.2 *G* 0.15 *U* 0 Opp. 13 *n* 0.08302520 Ω 341.14581
rms res. 1''.22 (M-v) 1949-1996 *e* 0.1115940 *i* 6.08836

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1763) Williams Obs. 55 *M* 205.49727 ω 28.34416
H 12.6 *G* 0.15 *U* 2 Opp. 14 *n* 0.30437294 Ω 304.75926
rms res. 1''.16 (M-v) 1953-1995 *e* 0.2038837 *i* 4.24301

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1786) Raahe Obs. 42 *M* 101.70449 ω 348.58672
H 11.4 *G* 0.15 *U* 1 Opp. 11 *n* 0.18746512 Ω 16.74862
rms res. 1''.22 (M-v) 1948-1993 *e* 0.1037064 *i* 10.42929

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1800) Aguilar Obs. 64 *M* 334.46610 ω 214.15588
H 12.6 *G* 0.15 *U* 2 Opp. 15 *n* 0.27222650 Ω 124.36918
rms res. 1''.28 (M-v) 1950-1996 *e* 0.1354900 *i* 5.78294

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1814) Bach Obs. 55 *M* 221.40216 ω 65.19408
H 13.1 *G* 0.15 *U* 1 Opp. 11 *n* 0.29658618 Ω 20.48510
rms res. 1''.05 (M-v) 1931-1996 *e* 0.1303660 *i* 4.35011

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1816) Liberia Obs. 58 *M* 55.30696 ω 340.06998
H 12.3 *G* 0.15 *U* 2 Opp. 10 *n* 0.27564024 Ω 153.49712
rms res. 1''.18 (M-v) 1904-1997 *e* 0.2193122 *i* 26.13145

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1831) Nicholson Obs. 43 *M* 204.18622 ω 182.99593
H 12.8 *G* 0.15 *U* 2 Opp. 13 *n* 0.29409926 Ω 72.77451
rms res. 1''.29 (M-v) 1955-1995 *e* 0.1275982 *i* 5.63545

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1849) Kresák Obs. 36 *M* 100.50803 ω 108.89613
H 11.6 *G* 0.15 *U* 1 Opp. 10 *n* 0.18473227 Ω 50.88835
rms res. 1''.27 (M-v) 1942-1996 *e* 0.0098104 *i* 10.75940

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1874) Kacivelia Obs. 80 *M* 23.31733 ω 192.37062
H 11.0 *G* 0.15 *U* 1 Opp. 17 *n* 0.17730640 Ω 159.87996
rms res. 1''.22 (M-v) 1924-1996 *e* 0.2974464 *i* 4.86290

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1940) Whipple Obs. 100 *M* 90.71799 ω 184.50633
H 11.0 *G* 0.15 *U* 1 Opp. 13 *n* 0.18431245 Ω 264.35642
rms res. 1''.15 (M-v) 1962-1995 *e* 0.0713545 *i* 6.55130

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1959) Karbyshev Obs. 28 *M* 13.39726 ω 31.37429
H 12.9 *G* 0.15 *U* 2 Opp. 9 *n* 0.27958787 Ω 285.29083
rms res. 1''.28 (M-v) 1930-1990 *e* 0.1333687 *i* 6.19689

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1972) Yi Xing Obs. 73 *M* 223.99679 ω 31.73972
H 13.38 *G* 0.21 *U* 1 Opp. 10 *n* 0.26173838 Ω 46.88727
rms res. 1''.24 (M-v) 1964-1996 *e* 0.1677668 *i* 4.13285

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1974) Caupolican Obs. 48 *M* 80.79397 ω 95.29026
H 12.7 *G* 0.15 *U* 1 Opp. 9 *n* 0.17533454 Ω 168.52734
rms res. 1''.10 (M-v) 1951-1995 *e* 0.1007549 *i* 10.23051

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(1984) Fedynskij Obs. 120 *M* 239.89307 ω 131.06303
H 11.1 *G* 0.15 *U* 1 Opp. 18 *n* 0.18843212 Ω 186.06339
rms res. 1''.29 (M-v) 1926-1996 *e* 0.0833654 *i* 4.78750

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2038) Bistro Obs. 36 *M* 246.96530 ω 182.80557
H 12.3 *G* 0.15 *U* 2 Opp. 8 *n* 0.25918298 Ω 73.72572
rms res. 1''.29 (M-v) 1973-1995 *e* 0.0883464 *i* 14.77467

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2039) Payne-Gaposchkin Obs. 75 *M* 44.16984 ω 44.22040
H 12.8 *G* 0.15 *U* 1 Opp. 10 *n* 0.17497628 Ω 96.06751
rms res. 0''.99 (M-v) 1974-1992 *e* 0.1449020 *i* 2.52496

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2069) Hubble Obs. 49 *M* 228.63197 ω 67.20006
H 11.1 *G* 0.15 *U* 1 Opp. 9 *n* 0.17440390 Ω 46.88988
rms res. 1''.22 (M-v) 1955-1994 *e* 0.1748490 *i* 9.11458

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2075) Martinez Obs. 39 *M* 340.20389 ω 355.14711
H 13.0 *G* 0.15 *U* 1 Opp. 7 *n* 0.26468351 Ω 112.36329
rms res. 0''.59 (M-v) 1974-1992 *e* 0.2493163 *i* 27.06400

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2077) Kiangsu Obs. 31 *M* 125.08480 ω 343.93148
H 14.1 *G* 0.15 *U* 2 Opp. 6 *n* 0.27778016 Ω 69.64459
rms res. 1''.08 (M-v) 1974-1994 *e* 0.2965861 *i* 28.11108

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2081) Sázava Obs. 77 *M* 81.69851 ω 222.07974
H 12.14 *G* 0.15 *U* 1 Opp. 15 *n* 0.25698245 Ω 66.56368
rms res. 1''.12 (M-v) 1950-1996 *e* 0.1626794 *i* 3.91807

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2084) Okayama Obs. 65 *M* 23.79122 ω 247.73220
H 12.2 *G* 0.15 *U* 1 Opp. 18 *n* 0.26584706 Ω 149.22583
rms res. 0''.97 (M-v) 1931-1996 *e* 0.1016988 *i* 4.83982

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2087) Kochera Obs. 97 *M* 224.61039 ω 319.55089
H 13.1 *G* 0.15 *U* 1 Opp. 15 *n* 0.30081084 Ω 95.69064
rms res. 1''.22 (M-v) 1942-1996 *e* 0.0581958 *i* 1.82941

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2097) Galle Obs. 49 *M* 317.84252 ω 29.26391
H 11.9 *G* 0.15 *U* 1 Opp. 13 *n* 0.17868234 Ω 319.70390
rms res. 1''.16 (M-v) 1942-1996 *e* 0.2644801 *i* 4.38977

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2098) Zyskin Obs. 38 *M* 205.45743 ω 354.13633
H 12.5 *G* 0.15 *U* 2 Opp. 9 *n* 0.26119416 Ω 337.92791
rms res. 1''.07 (M-v) 1957-1997 *e* 0.1278117 *i* 6.51509

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2122) Pyatiletka Obs. 42 *M* 40.16115 ω 234.67169
H 12.1 *G* 0.15 *U* 1 Opp. 13 *n* 0.26487023 Ω 105.63327
rms res. 1''.29 (M-v) 1954-1993 *e* 0.0284302 *i* 7.88990

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2124) Nissen Obs. 32 *M* 121.58381 ω 251.93528
H 11.7 *G* 0.15 *U* 1 Opp. 11 *n* 0.18756073 Ω 47.47475
rms res. 0''.80 (M-v) 1952-1996 *e* 0.0928986 *i* 10.72577

Epoch 1997 June 1.0 TT = JDT 2450600.5 Bowell
(2153) Akiyama Obs. 63 *M* 175.81011 ω 31.26572
H 11.9 *G* 0.15 *U* 1 Opp. 13 *n* 0.17965374 Ω 47.91319
rms res. 0''.75 (M-v) 1954-1996 *e* 0.1662535 *i* 1.19293

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2154) Underhill Obs. 63 *M* 110.40423 ω 120.07626
H 12.7 *G* 0.15 *U* 1 Opp. 9 *n* 0.23058524 Ω 1.08332
rms res. 1''.00 (M-v) 1958-1994 *e* 0.1263365 *i* 7.76754

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2158) Tietjen Obs. 78 *M* 321.81657 ω 104.31267
H 11.8 *G* 0.15 *U* 1 Opp. 15 *n* 0.18309733 Ω 187.48838
rms res. 1''.10 (M-v) 1933-1993 *e* 0.1782860 *i* 1.57681

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2176) Donar Obs. 43 *M* 209.78570 ω 174.40479
H 12.3 *G* 0.15 *U* 1 Opp. 10 *n* 0.19632702 Ω 90.23969
rms res. 1''.27 (M-v) 1953-1991 *e* 0.0512613 *i* 3.04836

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2180) Marjaleena Obs. 55 *M* 331.64014 ω 89.14407
H 11.0 *G* 0.15 *U* 1 Opp. 14 *n* 0.18859699 Ω 233.79097
rms res. 1''.23 (M-v) 1940-1993 *e* 0.0876413 *i* 9.22967

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2183) Neufang Obs. 48 *M* 96.97850 ω 237.84736
H 11.5 *G* 0.15 *U* 1 Opp. 8 *n* 0.19009955 Ω 88.50428
rms res. 1''.19 (M-v) 1959-1996 *e* 0.3742266 *i* 18.25291

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2184) Fujian Obs. 63 *M* 285.82106 ω 121.19582
H 11.5 *G* 0.15 *U* 1 Opp. 12 *n* 0.17425698 Ω 257.11551
rms res. 1''.24 (M-v) 1930-1996 *e* 0.1113712 *i* 5.21193

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2186) Keldysh Obs. 88 *M* 113.24852 ω 132.39212
H 12.3 *G* 0.15 *U* 1 Opp. 15 *n* 0.22454975 Ω 285.79386
rms res. 1".13 (M-v) 1966-1995 *e* 0.1025373 *i* 2.36432

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2187) La Silla Obs. 53 *M* 133.28011 ω 214.52258
H 13.0 *G* 0.15 *U* 2 Opp. 6 *n* 0.24386805 Ω 137.56350
rms res. 1".05 (M-v) 1976-1991 *e* 0.1167755 *i* 13.24511

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2188) Orlenok Obs. 68 *M* 131.63320 ω 194.86428
H 11.9 *G* 0.15 *U* 1 Opp. 16 *n* 0.19918747 Ω 140.57094
rms res. 1".18 (M-v) 1931-1995 *e* 0.0850807 *i* 2.65200

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2303) Retsina Obs. 46 *M* 183.65512 ω 331.99258
H 11.0 *G* 0.15 *U* 1 Opp. 10 *n* 0.19011118 Ω 195.51856
rms res. 1".09 (M-v) 1974-1995 *e* 0.1137033 *i* 18.93122

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2322) Kitt Peak Obs. 42 *M* 108.38407 ω 191.94257
H 12.7 *G* 0.15 *U* 1 Opp. 13 *n* 0.28392506 Ω 194.99930
rms res. 0".84 (M-v) 1954-1996 *e* 0.0416060 *i* 2.39819

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2359) Debehogne Obs. 145 *M* 210.78987 ω 76.37749
H 12.9 *G* 0.15 *U* 1 Opp. 8 *n* 0.26080628 Ω 206.26810
rms res. 0".77 (M-v) 1931-1991 *e* 0.1140703 *i* 4.33233

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2440) Educatio Obs. 22 *M* 326.34267 ω 77.40365
H 13.1 *G* 0.15 *U* 1 Opp. 8 *n* 0.29891194 Ω 227.50772
rms res. 0".71 (M-v) 1954-1995 *e* 0.1632171 *i* 4.10191

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2444) Lederle Obs. 50 *M* 61.68504 ω 141.71632
H 11.8 *G* 0.15 *U* 1 Opp. 7 *n* 0.21866594 Ω 286.35999
rms res. 1".15 (M-v) 1934-1991 *e* 0.1322389 *i* 15.11891

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2491) Tvashtri Obs. 38 *M* 359.42378 ω 357.78325
H 13.68 *G* 0.15 *U* 2 Opp. 6 *n* 0.38304602 Ω 125.42238
rms res. 1".24 (M-v) 1977-1993 *e* 0.0545438 *i* 22.86969

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2501) Lohja Obs. 106 *M* 204.80952 ω 227.59806
H 12.08 *G* 0.15 *U* 1 Opp. 20 *n* 0.26160217 Ω 11.42131
rms res. 0".97 (M-v) 1942-1995 *e* 0.1961719 *i* 3.32673

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2514) Taiyuan Obs. 35 *M* 207.33335 ω 13.10114
H 12.9 *G* 0.15 *U* 2 Opp. 6 *n* 0.22847266 Ω 358.97341
rms res. 0".95 (M-v) 1964-1994 *e* 0.1011088 *i* 2.35308

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2537) Gilmore Obs. 27 *M* 196.81338 ω 18.86481
H 12.7 *G* 0.15 *U* 2 Opp. 8 *n* 0.22758689 Ω 335.34570
rms res. 0".95 (M-v) 1951-1996 *e* 0.1714720 *i* 12.94511

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2539) Ningxia Obs. 26 *M* 191.18350 ω 214.98716
H 14.3 *G* 0.15 *U* 2 Opp. 7 *n* 0.28980003 Ω 193.53385
rms res. 1".29 (M-v) 1964-1991 *e* 0.1694671 *i* 3.97580

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(2549) Baker Obs. 33 *M* 221.69834 ω 201.26306
H 12.7 *G* 0.15 *U* 1 Opp. 8 *n* 0.17359137 Ω 198.41027
rms res. 0".87 (M-v) 1954-1996 *e* 0.1844058 *i* 0.05749

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sicoli
(2620) Santana Obs. 51 *M* 153.40897 ω 316.35201
H 12.7 *G* 0.15 *U* 1 Opp. 11 *n* 0.20396745 Ω 73.18821
rms res. 0".80 (M-v) 1954-1997 *e* 0.0735162 *i* 3.09194

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sicoli
(2796) Kron Obs. 82 *M* 322.33431 ω 53.30700
H 12.3 *G* 0.15 *U* 1 Opp. 9 *n* 0.22946618 Ω 158.87691
rms res. 0".99 (M-v) 1951-1997 *e* 0.1138859 *i* 14.01801

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(3068) Khanina Obs. 30 *M* 70.71054 ω 132.39744
H 13.2 *G* 0.15 *U* 1 Opp. 10 *n* 0.29608167 Ω 21.74638
rms res. 0".79 (M-v) 1955-1997 *e* 0.1022541 *i* 6.44703

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(3227) Hasegawa Obs. 57 *M* 63.02503 ω 331.31033
H 12.5 *G* 0.15 *U* 1 Opp. 12 *n* 0.25779383 Ω 154.54608
rms res. 0".85 (M-v) 1947-1997 *e* 0.1389224 *i* 3.91124

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(3428) Roberts Obs. 43 *M* 181.51469 ω 301.96410
H 12.0 *G* 0.15 *U* 1 Opp. 12 *n* 0.22660739 Ω 231.35224
rms res. 0".80 (M-v) 1952-1996 *e* 0.1636403 *i* 8.83766

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(3529) Dowling Obs. 29 *M* 295.09408 ω 184.27460
H 14.0 *G* 0.15 *U* 2 Opp. 6 *n* 0.26806117 Ω 194.29441
rms res. 1".07 (M-v) 1953-1997 *e* 0.1846122 *i* 2.75983

Epoch 1997 June 1.0 TT = JDT 2450600.5 Sumzina
(3801) Thrasympedes Obs. 48 *M* 339.70036 ω 203.44418
H 11.3 *G* 0.15 *U* 1 Opp. 6 *n* 0.08089737 Ω 209.45400
rms res. 0".70 (M-v) 1954-1996 *e* 0.0235343 *i* 28.54260

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(3834) Zappafrank Obs. 88 *M* 59.87344 ω 171.25583
H 13.6 *G* 0.15 *U* 2 Opp. 8 *n* 0.24124365 Ω 55.78815
rms res. 0".87 (M-v) 1980-1997 *e* 0.1896489 *i* 14.03693

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(3867) Shiretoko Obs. 27 *M* 272.19164 ω 33.70957
H 13.2 *G* 0.15 *U* 1 Opp. 9 *n* 0.27350267 Ω 80.05517
rms res. 0".72 (M-v) 1941-1996 *e* 0.1063846 *i* 6.27205

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Nakano**
(3985) Raybatson Obs. 30 *M* 124.02432 ω 150.10720
H 11.3 *G* 0.15 *U* 2 Opp. 8 *n* 0.20499422 Ω 84.25534
rms res. 0".97 (M-v) 1952-1995 *e* 0.0995926 *i* 16.27863

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Williams**
(4034) 1986 PA Obs. 46 *M* 224.61343 ω 296.51456
H 18.1 *G* 0.15 *U* 3 Opp. 4 *n* 0.90333723 Ω 158.10265
rms res. 0".77 (M-v) 1986-1997 *e* 0.4440252 *i* 11.16675

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Williams**
(4209) Briggs Obs. 63 *M* 331.62170 ω 14.59159
H 10.8 *G* 0.15 *U* 2 Opp. 4 *n* 0.17569959 Ω 330.59823
rms res. 0".63 (M-v) 1969-1997 *e* 0.0925962 *i* 21.61502

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(4293) Masumi Obs. 47 *M* 215.99880 ω 52.55802
H 12.0 *G* 0.15 *U* 1 Opp. 9 *n* 0.21891010 Ω 58.42746
rms res. 0".66 (M-v) 1950-1995 *e* 0.2216001 *i* 9.36745

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(4478) Blanco Obs. 57 *M* 265.37699 ω 4.43919
H 13.9 *G* 0.15 *U* 1 Opp. 7 *n* 0.29231530 Ω 267.30417
rms res. 0".67 (M-v) 1984-1997 *e* 0.1341584 *i* 3.27970

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(4572) Brage Obs. 28 *M* 267.23823 ω 75.56520
H 12.8 *G* 0.15 *U* 1 Opp. 9 *n* 0.23570225 Ω 192.96621
rms res. 0".87 (M-v) 1956-1994 *e* 0.1548325 *i* 12.01775

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(4628) Laplace Obs. 49 *M* 40.73011 ω 247.75155
H 11.0 *G* 0.15 *U* 1 Opp. 9 *n* 0.22940441 Ω 276.04977
rms res. 0".80 (M-v) 1956-1997 *e* 0.1194895 *i* 11.77905

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Williams**
(4663) 1984 SM₁ Obs. 27 *M* 85.05502 ω 357.70842
H 12.0 *G* 0.15 *U* 2 Opp. 6 *n* 0.17137187 Ω 353.39544
rms res. 1".18 (M-v) 1955-1995 *e* 0.0609596 *i* 14.92238

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(4709) Ennomos Obs. 35 *M* 296.17774 ω 82.22457
H 8.9 *G* 0.15 *U* 1 Opp. 8 *n* 0.08392710 Ω 253.35747
rms res. 0".71 (M-v) 1951-1997 *e* 0.0206145 *i* 25.55984

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(4877) Humboldt Obs. 38 *M* 144.18625 ω 201.73947
H 13.1 *G* 0.15 *U* 1 Opp. 6 *n* 0.23086664 Ω 229.05656
rms res. 0".75 (M-v) 1951-1997 *e* 0.1343038 *i* 12.38325

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(4923) Clarke Obs. 40 *M* 323.46063 ω 108.16151
H 14.2 *G* 0.15 *U* 1 Opp. 5 *n* 0.31383722 Ω 188.76600
rms res. 0".69 (M-v) 1981-1997 *e* 0.2022572 *i* 6.66483

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Williams**
(4965) 1981 EP₂₈ Obs. 59 *M* 314.55634 ω 66.08352
H 14.0 *G* 0.15 *U* 1 Opp. 8 *n* 0.19781039 Ω 257.01131
rms res. 0".84 (M-v) 1971-1997 *e* 0.0627562 *i* 0.89438

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Williams**
(5011) Ptah Obs. 31 *M* 142.14381 ω 105.43397
H 17.1 *G* 0.15 *U* 4 Opp. 6 *n* 0.47138344 Ω 11.02965
rms res. 0".81 (M-v) 1960-1997 *e* 0.5001141 *i* 7.40332

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(5085) 1977 NN Obs. 23 *M* 306.65797 ω 354.22478
H 13.8 *G* 0.15 *U* 1 Opp. 6 *n* 0.29092943 Ω 317.35352
rms res. 0".76 (M-v) 1977-1997 *e* 0.1795655 *i* 4.85900

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(5237) Yoshikawa Obs. 39 *M* 227.02878 ω 144.98482
H 13.2 *G* 0.15 *U* 1 Opp. 7 *n* 0.29399917 Ω 38.33368
rms res. 0".71 (M-v) 1931-1995 *e* 0.0957592 *i* 5.14234

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Sicoli**
(5261) Eureka Obs. 133 *M* 181.31063 ω 95.41940
H 16.1 *G* 0.15 *U* 1 Opp. 6 *n* 0.52409282 Ω 245.14356
rms res. 0".66 (M-v) 1979-1997 *e* 0.0646883 *i* 20.27938

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Williams**
(5879) 1992 CH₁ Obs. 53 *M* 203.74040 ω 355.52793
H 17.9 *G* 0.15 *U* 2 Opp. 3 *n* 0.47587115 Ω 145.95005
rms res. 0".67 (M-v) 1992-1996 *e* 0.2893418 *i* 21.57520

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(6613) 1994 LK Obs. 66 *M* 175.73430 ω 88.29056
H 12.3 *G* 0.15 *U* 1 Opp. 6 *n* 0.17593762 Ω 200.00931
rms res. 0".69 (M-v) 1954-1995 *e* 0.1801582 *i* 25.44266

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(7064) 1992 OC₅ Obs. 40 *M* 33.10155 ω 15.41017
H 12.7 *G* 0.15 *U* 1 Opp. 8 *n* 0.17543801 Ω 206.00415
rms res. 0".82 (M-v) 1973-1996 *e* 0.1300903 *i* 0.52067

Epoch 1997 June 1.0 TT = JDT 2450600.5 **Bowell**
(7409) 1990 BS Obs. 28 *M* 67.35711 ω 341.43609
H 13.0 *G* 0.15 *U* 1 Opp. 5 *n* 0.26819639 Ω 58.32660
rms res. 0".74 (M-v) 1990-1996 *e* 0.2122565 *i* 3.31784

(7723)* 1952 QW = 1952 SL = 1989 GO₅

Discovered 1952 Aug. 28 at the Goethe Link Observatory, Indiana University.
Id. S. Nakano (d, *MPC* 10817), T. Kobayashi (*MPC* 16020)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 293.41312		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.28350132	ω	266.94263	+0.94447809	−0.31350409				
<i>a</i>	2.2949117	Ω	111.31114	+0.32745908	+0.87345371				
<i>e</i>	0.3024171	<i>i</i>	6.06106	+0.02704977	+0.37255039				
<i>P</i>	3.48	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

520828	760	0.1−	0.5−	920306	809	0.2−	1.0+	960318	684	1.5+	0.2−
520828	760	(3.2+	1.1−)	920404	809	0.2−	0.2+	960318	684	1.4+	0.4−
520924	760	0.3+	0.1+	930520	691	(3.6−	0.2−)	960319	684	0.2−	0.7−
520924	760	(1.1+	4.0+)	930520	691	1.4−	0.4−	960319	684	1.2−	1.4−
520926	760	(2.3+	6.5−)	941107	801	0.7+	0.6+	960325	658	0.4+	0.7−
520926	760	(1.7+	7.4−)	941107	801	0.9+	0.9+	960325	658	0.3+	0.7−
890401	474	0.8−	0.0	941226	104	0.4−	0.3−	960411	684	0.4+	0.2+
890401	474	0.6+	0.7+	941226	104	0.8−	0.5−	960411	684	0.3+	0.2+
890403	474	0.5+	0.5+	941226	104	0.2−	0.8+	970610	689	0.8−	0.6+
890403	474	1.2−	0.0	941226	104	0.6+	0.3−	970611	689	0.4−	0.1−
890404	474	0.4−	0.6+	941226	104	0.1+	0.0	970712	046	0.0	0.3+
890404	474	2.0+	0.5+	950228	658	0.3−	0.0	970712	046	0.0	0.2+
920226	691	0.8−	0.3−	950228	658	0.1−	0.0	970712	046	0.0	0.1+
920226	691	0.5−	0.2−	950228	658	0.2−	0.1−	970713	046	0.1+	0.2+
920226	691	0.7−	0.3−	950421	658	0.3+	0.1−	970713	046	0.1+	0.3+
920301	809	(1.1+	2.2+)	950421	658	0.5−	0.2−	970713	046	0.2+	0.4+
920304	809	0.3+	1.5+	950421	658	0.0	0.1−				

(7724)* 1970 OB = 1987 ND

Discovered 1970 July 24 at El Leoncito.

Id. W. Landgraf (*MPC* 12456)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 329.10992		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.29061490	ω	211.90714	+0.42032269	+0.90363065				
<i>a</i>	2.2573079	Ω	83.06205	−0.81408775	+0.41563232				
<i>e</i>	0.2198677	<i>i</i>	4.75821	−0.40073680	+0.10344767				
<i>P</i>	3.39	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

560316	675	1.8+	1.7−	870625	809	0.0	0.9+	970525	423	0.2−	0.5+
560316	675	0.8−	0.2−	870701	809	0.9−	0.1−	970525	423	0.5−	0.2−
700724	808	0.4−	1.2−	870701	809	0.6−	0.1+	970530	610	1.1+	1.3+
700724	808	0.1−	0.4−	870701	809	0.5−	0.0	970530	610	(3.0+	0.2+)
700726	808	0.4+	0.0	900401	675	(2.5−	1.1−)	970530	610	(5.9+	1.1−)
700726	808	0.6−	1.2−	900401	675	0.2−	0.5−	970614	610	0.1+	0.1−
700728	808	1.0−	0.9−	911201	675	0.9−	0.4−	970614	610	0.2+	0.3−
700728	808	0.0	0.1−	911201	675	1.1+	0.1+	970614	610	0.1+	0.6−
870623	809	0.3+	1.1+	930123	675	0.6+	1.9+	970627	610	0.0	0.3−
870623	809	0.3+	1.0+	930123	675	0.9−	0.9+	970627	610	0.2−	0.4−
870623	809	0.2+	1.5+	930324	675	0.2+	0.5+	970627	610	0.3−	0.5−
870624	809	0.5+	1.1+	960111	411	0.2−	0.6+	970703	610	0.3−	0.2+
870624	809	0.7+	0.9+	960111	411	0.5+	1.3+	970703	610	0.1−	0.1+
870624	809	0.9+	0.9+	970517	423	0.5−	0.8−	970703	610	0.0	0.1+
870625	809	0.0	0.5+	970525	423	0.1−	0.4−				
870625	809	0.1+	0.3+	970525	423	0.6−	0.1−				

(7725)* 1972 RX₁ = 1972 TO₃ = 1991 RT₁

Discovered 1972 Sept. 11 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. H. Kaneda (*MPC* 19010), C. M. Bardwell (d, *MPC* 4637), E. Bowell

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 150.16385		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.25875541	ω	221.81142	+0.76564829	−0.64325577				
<i>a</i>	2.4389885	Ω	178.21938	+0.60713797	+0.72153653				
<i>e</i>	0.1804284	<i>i</i>	4.00120	+0.21252336	+0.25613871				
<i>P</i>	3.81	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

720911	095	1.3−	0.1−	910915	691	1.0−	0.0	951118	801	0.3−	0.7−
721005	095	(0.7+	4.9−)	910915	691	1.5−	0.0	951123	801	0.0	0.1−
721013	095	1.7+	1.1−	910917	675	0.6+	0.5−	951123	801	0.2+	0.3−
721028	095	0.9−	2.2+	910917	675	0.3+	0.8−	951225	801	0.6+	0.0
910907	400	1.1+	0.1+	911004	033	0.2−	0.3+	951225	801	0.7+	0.1−
910907	400	0.4+	0.0	911004	033	0.2+	0.4+	970407	691	0.5−	0.7−
910910	675	0.9+	0.8−	911005	033	0.4+	0.2−	970407	691	0.0	0.3−
910910	675	0.1+	0.9−	911107	675	1.3−	1.5+	970407	691	0.5−	0.3−
910911	095	0.6+	1.8−	911107	675	1.4+	1.4−	970704	691	0.3−	1.4−
910911	095	(7.2−	11.1+)	911109	675	1.2+	0.4−	970704	691	0.2−	1.6−
910913	400	0.3+	1.4+	911231	801	0.6−	0.0	970704	691	0.1−	1.3−
910913	400	0.1+	0.4+	920105	801	0.8−	0.2−				
910915	691	1.6−	0.1+	951118	801	0.3−	0.8−				

(7726)* 1974 QM₂ = 1974 RT = 1957 QL = 1984 QH

Discovered 1974 Aug. 27 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. H. Oishi (d, *JAM* 735), T. Kobayashi (*MPC* 10773), F. N. Bowman (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 319.52647		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.29266164	ω	297.43644	+0.16258276	+0.98618092				
<i>a</i>	2.2467712	Ω	341.83637	−0.86538209	+0.12701517				
<i>e</i>	0.1803684	<i>i</i>	5.86308	−0.47400494	+0.10636886				
<i>P</i>	3.37	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

530415	675	1.2−	0.0	840822	046	(3.3+	1.6−)	910914	675	1.7+	0.4−
530415	675	0.0	0.5−	840823	046	(8.2−	4.2−)	940713	675	1.5+	1.6+
541123	675	1.2+	0.8+	840823	046	1.7−	0.3−	940713	675	1.2+	1.4+
541123	675	0.5−	0.6+	840901	046	0.5−	0.6−	970426	689	1.4−	0.3+
570821	839	1.4+	0.1−	840901	046	2.1−	0.3−	970427	689	1.6+	0.7+
740827	095	1.2+	0.4−	881103	033	0.0	0.5+	970512	689	0.6+	0.3−
740911	095	(1.3+	5.5+)	881104	033	0.3+	0.4+	970513	689	0.8−	0.0
740914	095	0.3+	1.1−	881104	033	0.2−	0.0	970525	689	0.6+	0.1−
840821	046	(6.2−	0.6−)	881109	675	0.2+	0.4−	970527	689	0.7−	0.6−
840821	046	1.5−	0.8−	881109	675	1.0−	1.1+				
840822	046	1.0−	0.5−	910914	675	0.7+	0.1+				

(7727)* 1975 EA₃ = 1982 BQ₆ = 1986 GV₂ = 1993 CM

Discovered 1975 Mar. 8 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. K. Ichikawa (*MPC* 22222)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	25.89743	(2000.0)	Williams	
<i>n</i>	0.27201612	ω	175.69398	P
<i>a</i>	2.3590634	Ω	29.16406	Q
<i>e</i>	0.1444705	i	3.54761	
<i>P</i>	3.62	H	13.5	

Residuals in seconds of arc

540630 675	0.6−	0.3−	930215 399	1.4−	0.4+	951117 327	0.0	0.4+
540630 675	0.3−	0.6+	930217 372	0.4+	0.5−	951117 327	0.1+	0.7+
750308 095	0.8−	2.1+	930217 372	1.7+	1.3−	951117 327	0.8−	0.6+
750314 095	1.4+	1.0+	930219 372	(3.4−	0.4+)	970526 689	1.9−	0.2+
750316 095	(5.9+	0.8−)	930219 372	1.5−	0.6+	970527 689	1.1+	0.3+
820126 381	1.0+	1.3+	930221 399	0.9−	0.7+	970606 610	1.0+	0.2−
820126 381	1.6+	0.3+	930221 399	0.5−	0.3−	970606 610	0.8+	0.1−
860404 095	0.8+	2.0−	930225 399	0.6−	0.0	970606 610	0.6+	0.0
911007 675	0.7+	0.4−	930225 399	0.4−	1.0−	970607 801	0.3+	0.1−
911007 675	0.1−	0.2−	930324 675	0.0	0.1+	970607 801	1.2+	0.5−
930213 885	1.0+	0.0	930324 675	0.1−	0.3+	970701 610	1.5−	0.8+
930213 885	(2.2+	1.5−)	940807 801	0.1+	0.5+	970701 610	1.1−	0.8+
930214 885	0.0	1.1−	940807 801	0.2−	0.5−	970701 610	0.6−	0.8+
930214 885	0.6+	1.2−	940909 675	0.2+	0.5+			
930215 399	1.3−	1.2+	940909 675	0.0	0.4+			

(7728)* 1977 AW₂ = 1970 PB₁ = 1980 VK₃

Discovered 1977 Jan. 12 by E. Bowell at Palomar.

Id. A. Lowe (*MPC* 18413), G. V. Williams (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	234.95975	(2000.0)	Williams	
<i>n</i>	0.21100432	ω	6.04890	P
<i>a</i>	2.7943137	Ω	346.50375	Q
<i>e</i>	0.1089298	i	3.41106	
<i>P</i>	4.67	H	12.5	

Residuals in seconds of arc

700811 095	(1.5+	3.7−)	920227 675	0.9−	0.6+	960125 596	0.2+	0.3−
770112 675	0.3−	0.1−	941001 868	0.2+	0.0	960125 596	0.5+	0.2−
770113 675	0.1−	0.2+	941001 868	0.0	0.3−	960125 596	0.4+	0.3−
801101 675	0.1−	0.4+	941002 868	1.5−	0.4+	960126 596	0.3+	0.1−
801102 675	0.2−	0.0	941002 868	0.7−	0.1−	960126 596	0.1+	0.6−
890904 675	0.0	0.3−	941003 675	0.7−	0.0	960126 596	0.0	0.2−
890904 675	0.3−	0.8−	941003 675	1.2−	0.4+	970408 689	0.9+	0.5−
890929 675	0.2−	0.1−	960111 689	0.4−	1.0+	970512 689	0.3−	0.8+
890929 675	0.3+	0.4+	960112 689	0.5+	0.1+	970513 689	0.6+	0.5+
891101 675	1.6+	1.1+	960113 411	0.9+	0.4−	970525 689	0.0	1.3+
891101 675	1.5+	1.2+	960113 411	0.4+	0.4−	970526 689	1.0−	0.1−
920227 675	1.5−	0.8+	960125 596	0.5+	0.0	970527 689	0.8+	0.0

(7729)* 1977 QY₃ = 1963 KC = 1990 KW₁

Discovered 1977 Aug. 24 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. H. Oishi (*MPC* 18414)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	328.93671	(2000.0)	Williams	
<i>n</i>	0.29056254	ω	200.99482	P
<i>a</i>	2.2575791	Ω	96.30714	Q
<i>e</i>	0.1807565	i	6.37831	
<i>P</i>	3.39	H	13.2	

Residuals in seconds of arc

630519 760	1.3+	1.0−	911111 399	0.2+	0.4+	960111 411	0.7−	0.7−
630519 760	0.4−	0.2+	911111 399	0.3−	0.4−	960111 411	0.2+	0.2+
770824 095	(0.2−	2.6+)	911205 399	1.2−	0.9+	960215 560	0.6+	0.6−
770907 095	1.0−	1.3−	911205 399	(2.9−	0.7+)	960215 560	0.0	0.8−
771006 095	0.7−	0.4−	911207 399	1.8−	0.6−	960215 560	0.4+	0.3−
900518 095	(3.3+	2.7+)	911207 399	(3.1−	0.8+)	970528 886	0.5+	0.1+
900518 095	(2.1+	6.6+)	940713 801	2.0+	0.1+	970528 886	0.9+	0.1−
900520 095	(3.7−	3.6+)	940713 801	(2.2+	0.1+)	970530 886	1.1−	0.0
900526 385	(1.9−	4.2+)	940808 801	0.3−	0.5−	970530 886	0.7−	0.1+
900526 385	(0.3+	2.7+)	940808 801	0.0	0.5−	970625 962	0.8−	0.2−
911109 399	(3.0−	0.7+)	940910 675	1.9+	1.2+	970625 962	0.2−	0.0
911109 399	1.6+	0.7+	940910 675	(2.2+	1.0+)	970625 962	0.3+	1.0+

(7730)* 1978 NN₁ = 1935 SE₁ = 1983 PD

Discovered 1978 July 4 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. C. M. Bardwell (*MPC* 8148, *MPC* 21926)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	317.47570	(2000.0)	Bardwell	
<i>n</i>	0.20547057	ω	172.14837	P
<i>a</i>	2.8442622	Ω	143.11519	Q
<i>e</i>	0.2892971	i	7.97620	
<i>P</i>	4.80	H	13.5	

Residuals in seconds of arc

350929 078	(10.2−	44.9−)	X	881007 675	0.3−	1.2+	970602 691	0.2−	1.7+
780704 095	(0.8+	3.8+)		881007 675	0.2−	1.7+	970602 691	0.5−	0.1−
780707 095	0.2+	1.0+		881012 801	1.2−	0.7−	970602 691	0.5−	0.0
780708 095	1.3+	1.0+		930915 801	0.6+	0.4+	970606 610	1.4+	0.5−
830813 046	0.5−	0.6−		930915 801	0.2+	0.3+	970606 610	1.0+	0.1+
830813 046	0.7+	2.0−		930920 801	0.1+	0.3+	970606 610	0.7+	0.6+
830814 046	1.0+	0.6+		930920 801	0.2+	0.1+	970608 691	1.1−	0.4+
830814 046	0.1+	0.6+		931010 809	0.6+	0.6+	970608 691	0.5−	0.3−
830815 046	0.2−	1.3−		931010 809	0.6−	0.6+	970608 691	0.6−	0.2−
830815 046	0.3−	2.4−		931010 809	0.1−	0.7+	970613 691	0.7−	0.2−
830820 046	0.1+	1.7−		931014 801	0.3−	0.2−	970613 691	1.2−	0.3+
830820 046	0.7−	1.6−		931014 801	0.2−	0.1−	970613 691	0.6−	0.1+
830910 095	(1.8−	3.2+)		931019 801	0.5−	0.1−	970701 610	1.5+	0.5+
831004 688	0.8−	0.5−		960317 691	0.5−	1.0−	970701 610	1.4+	0.7+
831009 801	0.3−	0.2−		960317 691	0.5−	1.1−	970701 610	1.3+	0.9+
880912 801	1.4+	2.1+		960317 691	0.4−	1.3−			

(7731)* 1978 UV = 1988 BD

Discovered 1978 Oct. 28 by H. L. Giclas at the Anderson Mesa Station of the Lowell Observatory.

Id. T. Kobayashi (*MPC* 12949)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	85.89360		(2000.0)	P	Q	Williams		
<i>n</i>	0.22649137	ω	8.09004	+0.58121858	-0.80988730			
<i>a</i>	2.6654361	Ω	46.41665	+0.74034734	+0.48590511			
<i>e</i>	0.2663443	<i>i</i>	6.27447	+0.33774366	+0.32860125			
<i>P</i>	4.35	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

780928 095	0.8-	0.5+	910915 675	1.4-	0.2-	930416 399	(2.8-	1.3-)
781004 095	(1.4-	3.3+)	910915 675	1.5-	0.2-	930416 399	1.6-	0.8+
781028 688	1.8+	2.0-	Y 911006 046	(0.0	3.9-)	930416 413	1.5-	1.7-
781028 330	0.5+	1.7-	911006 046	(1.3-	4.0-)	951026 689	0.6+	0.8+
781103 330	1.1-	0.9+	911007 046	(1.2+	3.5-)	951117 801	0.5+	0.3+
781107 330	0.7+	1.1+	911007 046	(2.1+	3.5-)	951117 801	0.2+	0.8+
880116 897	0.3+	2.2+	911013 366	0.3+	1.9-	951122 801	0.1-	0.2+
880116 897	0.7-	0.5+	911013 366	(1.4+	2.5-)	951122 801	0.0	0.7+
880120 897	0.3-	0.6-	911017 367	1.6+	1.1+	970212 689	0.5-	0.8+
880120 897	0.7-	0.0	911017 367	1.0+	0.1-	970327 689	1.1+	0.9-
880123 897	0.4+	0.1+	911017 367	0.9+	0.6+	970408 689	0.7+	0.3-
880123 897	0.8+	0.3-	930317 372	(7.5-	3.7-)	970409 689	1.1+	0.8-
910913 675	1.9-	0.4-	930317 372	(3.9-	2.4-)			
910913 675	0.8-	0.8-	930323 675	0.3+	0.4+			

(7732)* 1978 VE₉ = 1987 RN₄ = 1987 SH₃₀ = 1992 SK₁₈
 Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.
 Id. T. Kobayashi (*MPC* 22222)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	27.11888		(2000.0)	P	Q	Williams		
<i>n</i>	0.19627757	ω	349.55158	+0.25532391	+0.96668836			
<i>a</i>	2.9323936	Ω	295.23928	-0.88563250	+0.22637321			
<i>e</i>	0.0999666	<i>i</i>	1.13903	-0.38789790	+0.11945199			
<i>P</i>	5.02	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

781105 675	0.5+	0.2+	920922 809	0.2+	0.0	950131 691	0.4-	0.7-
781106 675	0.2+	0.0	920922 809	0.8-	0.4-	950131 691	0.3-	0.6-
781107 675	0.0	0.7+	920922 809	1.4-	0.2-	950207 691	0.2-	0.4-
781108 675	0.4-	0.8+	920923 809	1.2+	0.5+	950207 691	0.6-	0.3-
781129 675	0.3+	0.4+	920923 809	0.3+	0.2+	950207 691	0.3-	0.4-
781130 675	0.9-	0.0	920923 809	0.4+	0.1+	950223 596	0.3+	0.3+
870902 095	1.0+	1.7-	921001 808	(2.8+	2.7-)	950223 596	1.1+	1.6-
870925 095	0.6+	0.9-	921001 808	0.5+	0.7-	960421 689	1.0+	1.3+
910513 675	1.0-	0.0	931118 657	0.2+	0.3+	960521 566	0.0	0.0
910513 675	0.7+	0.5-	931118 657	0.7-	0.1-	960521 566	0.0	0.0
910515 675	0.6-	0.4+	931118 657	0.5-	0.3-	960521 566	0.7-	0.3+
910515 675	0.0	0.9-	950131 691	0.0	0.7-			

(7733)* 1979 MH₄ = 1993 FK₅₁ = 1997 LK₃
 Discovered 1979 June 25 by E. F. Helin and S. J. Bus at Siding Spring.
 Id. G. V. Williams (*MPC* 30074)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	325.12425		(2000.0)	P	Q	Williams		
<i>n</i>	0.26973741	ω	97.86242	+0.36254362	+0.93183777			
<i>a</i>	2.3723309	Ω	193.42565	-0.87922337	+0.33646022			
<i>e</i>	0.1550939	<i>i</i>	3.82967	-0.30907666	+0.13591501			
<i>P</i>	3.65	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

790624 413	0.1+	0.7+	930417 691	0.8-	0.5-	970609 809	(3.0+	1.1-)
790625 413	0.5+	0.8+	930417 691	0.7-	0.2-	970609 809	(3.1+	0.1+)
790629 413	(2.6+	0.4+)	930417 691	1.0-	0.5-	970610 691	0.0	0.0
790724 413	1.5-	0.7-	941027 691	0.1+	0.4-	970610 691	0.2+	0.2-
790726 675	0.6-	0.1+	941027 691	0.1-	0.1+	970610 691	0.1+	0.2+
790726 675	(7.2-	0.2-)	941027 691	0.1+	0.2-	970627 691	0.2+	0.0
790727 675	0.6-	0.5-	970605 691	0.0	0.1+	970627 691	0.1+	0.1+
790728 413	1.4+	0.5+	970605 691	0.1-	0.2+	970627 691	0.1+	0.0
790823 675	0.9+	0.9-	970605 691	0.1-	0.1-	970703 691	0.1-	0.0
930319 809	0.7-	0.5-	970608 809	(3.9+	0.5+)	970703 691	0.5-	0.0
930319 809	0.9+	1.1-	970608 809	(3.0+	0.3-)	970703 691	0.0	0.4-
930320 809	0.3+	1.1+	970608 809	(3.5+	0.6-)			
930324 809	1.5+	0.7+	970609 809	(3.7+	0.0)			

(7734)* 1979 MZ₆ = 1972 TJ₆

Discovered 1979 June 25 by E. F. Helin and S. J. Bus at Siding Spring.
 Id. S. Nakano (*MPC* 24226)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	289.93375		(2000.0)	P	Q	Nakano		
<i>n</i>	0.27053022	ω	100.68287	+0.98189081	+0.17862524			
<i>a</i>	2.3676937	Ω	249.05049	-0.18920200	+0.90763649			
<i>e</i>	0.2136883	<i>i</i>	3.87512	-0.00964540	+0.37985395			
<i>P</i>	3.64	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

721006 095	(0.6+	3.3-)	941102 411	0.3-	0.1+	941130 675	1.7+	0.0
790623 413	0.3-	0.4-	941102 411	0.0	0.5-	941130 675	1.0-	1.6-
790624 413	(2.3-	0.0)	941102 411	0.7+	0.2-	941202 675	0.6+	1.0+
790625 413	0.1-	0.4-	941104 675	(0.6-	2.8-)	941203 675	0.4-	1.6-
790629 413	0.5-	1.6-	941104 675	0.4+	1.8-	941203 675	0.5-	1.1-
790724 675	(3.6+	0.7+)	941106 675	0.3-	1.2-	960302 608	0.5-	0.9+
790724 413	0.1-	0.1-	941106 675	0.4-	0.8-	960302 608	0.3-	0.6-
790725 675	1.3+	0.5+	941106 675	0.6+	0.1+	960313 608	0.2-	0.1-
790726 675	1.1+	0.1-	941106 675	0.5-	1.2+	960313 608	0.1-	0.0
790728 413	0.2-	0.7-	941107 675	0.4+	1.0+	960321 608	0.3+	0.3-
790823 675	1.5+	0.3-	941107 675	0.1-	1.1+	960321 608	0.7+	1.3-
930524 675	0.1-	0.1+	941128 675	(0.4+	3.6-)	960322 608	1.0-	1.2-
930524 675	0.1-	1.1-	941128 675	(0.1+	3.3-)	960322 608	0.2-	1.1-
941101 411	0.1-	0.7-	941130 675	0.2-	1.5+	970525 689	0.6+	0.9-
941101 411	0.3+	0.1+	941130 675	(0.4+	2.7-)	970623 689	0.7-	0.7+

(7735)* 1980 UL₁ = 1962 WZ₁ = 1989 SK₅

Discovered 1980 Oct. 31 by S. J. Bus at Palomar.
 Id. G. V. Williams (*MPC* 20628)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	269.15819	(2000.0)	P		Q	
<i>n</i>	0.21535837	ω 95.02503	+0.87815741	+0.46282381		
<i>a</i>	2.7565225	Ω 237.45488	-0.47570581	+0.81822041		
<i>e</i>	0.1667025	<i>i</i> 8.25069	-0.05043357	+0.34104175		
<i>P</i>	4.58	<i>H</i> 12.3	<i>G</i> 0.15	<i>U</i> 1		

Residuals in seconds of arc

621130 760	0.1-	0.5-	891021 399	1.4-	0.4-	930721 801	0.4+	0.4-
621130 760	0.4-	0.0	891021 399	2.1-	0.4-	930912 801	0.4+	0.1+
801014 675	0.5+	0.2+	891029 399	(4.3+	1.8+)	941128 675	(2.9-	0.0)
801031 675	0.3+	1.0+	891029 399	(3.4+	0.7+)	941128 675	0.4+	1.3+
801102 675	0.1+	0.9+	891029 399	0.4+	0.1+	970309 689	0.4+	0.5+
890929 399	0.7+	1.1-	930618 801	0.6-	0.2+	970310 689	1.1+	0.4-
890929 399	0.9-	0.4+	930716 801	0.2+	0.5+	970526 689	1.3-	0.5+
890929 399	0.9+	0.0	930716 801	0.0	0.4+	970527 689	0.0	2.0+
891021 399	0.9+	0.5+	930721 801	0.2+	0.4-			

(7736)* 1981 RC₅ = 1989 NV₁ = 1992 EP₁₄

Discovered 1981 Sept. 8 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Id. G. V. Williams (*MPC* 23858)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	306.40130	(2000.0)	P		Q	
<i>n</i>	0.23725309	ω 146.77214	+0.79404972	+0.60757444		
<i>a</i>	2.5842120	Ω 175.67594	-0.59721598	+0.78543365		
<i>e</i>	0.1994799	<i>i</i> 14.12053	-0.11321713	+0.11809862		
<i>P</i>	4.15	<i>H</i> 12.2	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

810908 095	(4.1-	1.3-)	920309 809	1.9-	0.6-	970427 689	0.6+	0.8+
810928 095	0.7-	0.3+	920407 809	0.2-	0.5-	970508 801	0.2+	0.6+
811005 095	(4.3-	6.8+)	950105 801	0.0	0.3-	970508 801	0.2+	0.5+
811026 095	(4.5-	2.9+)	950105 801	0.2+	0.2-	970524 127	1.1-	0.6-
890709 675	0.2+	1.0-	950106 801	0.5-	0.5-	970524 127	1.2-	0.9-
890709 675	1.2+	1.3-	950106 801	0.4+	1.8+	970526 689	0.0	0.6+
920301 809	0.1+	0.4+	960407 689	0.1+	0.5-	970527 689	0.1+	1.1+
920303 809	0.1+	0.7-	960408 689	0.7+	0.7-			
920306 809	1.5+	0.1-	970426 689	0.4+	0.9+			

(7737)* 1981 VU = 1977 RX₁₈

Discovered 1981 Nov. 5 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. H. Kaneda (*MPC* 18108)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	30.37982	(2000.0)	P		Q	
<i>n</i>	0.25923324	ω 207.06951	+0.67154018	-0.74086731		
<i>a</i>	2.4359905	Ω 200.75186	+0.68591714	+0.62780265		
<i>e</i>	0.1915034	<i>i</i> 1.97700	+0.28027033	+0.23870372		
<i>P</i>	3.80	<i>H</i> 14.4	<i>G</i> 0.15	<i>U</i> 1		

Residuals in seconds of arc

770909 675	0.1+	0.2-	920726 809	0.5-	1.1-	940502 691	1.2-	0.1-
770910 675	0.9+	0.3-	920730 809	1.4-	0.5-	940502 691	1.2-	0.1-
811102 688	(0.7-	3.2-)	920730 809	0.3-	0.6+	960901 689	0.5+	0.8+
811102 688	0.8-	1.9-	920730 809	0.3+	0.0	960920 691	0.7-	0.3+

811105 688	1.2+	0.3-	920731 809	0.5+	0.5-	960920 691	0.6-	0.2+
811105 688	0.5-	0.0	920731 809	0.4-	0.7-	960920 691	0.6-	0.3+
811124 688	(3.3-	1.7-)	920731 809	0.6-	0.6-	961012 689	0.5+	0.5+
811124 688	(6.0-	1.5-)	940214 675	0.0	1.5-	961013 689	1.2+	1.0+
910515 675	0.9+	0.7-	940214 675	1.3+	0.4-			
920726 809	1.4+	1.1-	940502 691	1.0-	0.3+			

(7738)* 1981 WS₁ = 1991 UW

Discovered 1981 Nov. 24 at the Oak Ridge Observatory.

Id. H. Kaneda (*MPC* 19496)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	326.70053	(2000.0)	P		Q	
<i>n</i>	0.29209650	ω 220.30185	+0.28590950	+0.95351028		
<i>a</i>	2.2496682	Ω 66.50331	-0.85029537	+0.29827989		
<i>e</i>	0.1824022	<i>i</i> 5.96204	-0.44187503	+0.04297965		
<i>P</i>	3.37	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

811030 381	2.3+	1.5+	940907 675	0.0	0.4-	970607 809	1.3-	0.7+
811030 381	(4.4+	0.3+)	940907 675	0.0	0.3-	970607 809	1.7-	0.5+
811124 801	1.6-	0.3+	941001 675	0.1+	0.5-	970607 809	1.7-	0.6+
811125 801	1.3-	0.4+	941001 675	0.8+	0.0	970608 809	0.8-	1.1+
811126 801	0.3+	1.0-	970503 809	1.2+	0.5-	970608 809	0.9-	1.3+
911018 399	0.5-	0.9-	970503 809	1.7+	0.5-	970608 809	1.1-	1.8+
911018 399	(2.8-	5.1-)	970503 809	2.0+	1.2-	970623 610	1.3-	0.5+
911019 399	(2.9-	2.1-)	970504 809	1.2+	0.7+	970623 610	0.7-	0.7+
911019 399	1.5-	0.2+	970504 809	2.0+	0.1+	970623 610	0.1-	0.7+
911031 399	0.9+	1.9+	970504 809	1.9+	0.3+	970627 610	1.3-	0.4-
911031 399	0.5-	0.1-	970530 610	0.1-	0.5-	970627 610	0.4+	0.8-
911104 399	0.8-	2.0+	970530 610	0.1-	0.2+	970627 610	2.2+	1.0-
911104 399	0.3-	1.4+	970530 610	0.1-	1.0+			

(7739)* 1982 CE = 1989 CZ₃

Discovered 1982 Feb. 14 by L. Brožek at Kleť.

Id. T. Kobayashi (*MPC* 14615)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	93.70454	(2000.0)	P		Q	
<i>n</i>	0.27787533	ω 15.41838	-0.99455634	-0.10196926		
<i>a</i>	2.3257841	Ω 158.69387	+0.08826938	-0.93383888		
<i>e</i>	0.1247882	<i>i</i> 3.38378	+0.05537322	-0.34285160		
<i>P</i>	3.55	<i>H</i> 14.4	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

540523 675	0.1+	2.2+	951005 046	0.8+	1.4-	960111 046	0.1+	0.6+
540523 675	0.3+	1.3+	951005 046	0.5-	0.1-	960111 046	0.0	0.5+
820214 046	2.1+	1.8-	951005 046	0.1-	0.7-	960112 046	0.0	0.3+
820214 046	(3.5-	0.5-)	951024 118	0.5+	0.2+	960112 046	0.1-	0.4+
820216 046	0.2+	0.8+	951025 118	0.7-	0.9+	960112 046	0.1+	0.5+
820216 046	0.2-	1.0-	951127 046	0.1+	0.3+	970605 046	0.1+	0.8+
820220 046	1.5-	1.9-	951127 046	0.1-	0.5+	970605 046	0.8-	0.6+
820220 046	(5.2-	0.8-)	951127 046	0.2+	0.2+	970606 046	1.1-	0.2+
820221 046	0.3+	1.3-	951128 046	0.1-	0.5+	970606 046	0.8-	0.8+
820221 046	1.4-	1.0-	951128 046	0.2+	0.3+	970606 046	0.1-	0.3+
890202 046	0.1-	0.6+	951128 046	0.0	0.5+	970606 046	(2.2-	0.6+)
890202 046	0.5+	0.4+	951128 046	0.3-	0.3+	970701 046	0.5+	0.0

890203 046	(6.2+ 0.1+)	951218 046	0.2- 0.8+	970701 046	0.1+ 0.0
890203 046	(6.8+ 2.5-)	951218 046	0.0 0.6+	970702 046	0.1+ 0.1-
890207 046	(7.3+ 0.8-)	951218 046	0.1- 0.7+	970708 046	0.4+ 0.4-
890207 046	(8.8+ 4.1-)	960101 327	0.2- 0.7+	970708 046	0.7+ 0.4-
950923 046	1.1- 0.1+	960101 327	0.0 0.2+	970708 046	0.5+ 0.5-
950923 046	1.7+ 0.8-	960101 327	0.2- 0.4+		
950923 046	0.2+ 0.1+	960111 046	0.1+ 0.3+		

**(7740)* 1983 RR₂ = 1976 SV₄ = 1979 OT₁₃ = 1987 SS₁₅ = 1987 SA₂₆
= 1994 RD₁**

Discovered 1983 Sept. 6 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. G. V. Williams (*MPC* 23970)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	305.93117	(2000.0)	P	Q	
<i>n</i>	0.27029010	ω 290.25654	+0.50159169	+0.86483334	
<i>a</i>	2.3690958	Ω 9.93367	-0.73947551	+0.44160999	
<i>e</i>	0.1156761	<i>i</i> 7.21242	-0.44897856	+0.23883868	
<i>P</i>	3.65	<i>H</i> 13.1	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

540904 675	0.5+ 0.3+	870924 095	1.0+ 1.3-	940912 675	0.0 0.2+
540904 675	0.4+ 0.2-	870925 095	1.2- 0.1-	940930 675	0.7- 0.8+
760924 095	0.2+ 1.3-	890202 675	0.0 0.3+	940930 675	0.3- 0.3+
790725 808	0.8- 0.1-	890202 675	0.3- 0.4-	941001 675	1.0+ 0.6-
790725 808	1.6- 0.9-	940907 905	0.3- 0.4+	941001 675	0.3+ 0.2-
830906 688	0.4+ 1.0+	940907 905	0.1+ 0.6+	970309 689	0.9- 0.5+
830906 688	(2.9+ 1.0+)	940909 905	0.3- 0.1-	970310 689	0.1- 0.5-
830910 688	0.5- 1.0+	940909 905	0.9- 0.0	970408 689	0.8+ 0.3-
830910 688	0.6- 0.7+	940911 675	0.4+ 0.7-	970409 689	0.4+ 0.7+
830912 688	1.1+ 1.1-	940911 675	0.3+ 0.4-	970427 689	0.8+ 1.3-
830912 688	0.3+ 0.1-	940912 675	0.5- 0.5+		

(7741)* 1983 RR₄ = 1932 RC = 1954 RU

Discovered 1983 Sept. 1 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Id. S. Nakano (*MPC* 14018)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Nakano			
<i>M</i>	247.58593	(2000.0)	P	Q	
<i>n</i>	0.26999374	ω 196.60893	+0.99321174	-0.10736886	
<i>a</i>	2.3708291	Ω 169.25390	+0.11347510	+0.97891874	
<i>e</i>	0.1842913	<i>i</i> 13.88591	-0.02557017	+0.17375280	
<i>P</i>	3.65	<i>H</i> 13.2	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

320906 024	(0.7+ 3.4+)	900626 801	0.1- 0.0	940831 596	0.3- 1.3-
320908 012	(6.2+ 46.1-)X	900626 801	0.3- 0.1-	940907 675	0.2+ 0.1+
540904 675	0.0 0.3+	940517 691	0.8- 0.5+	940907 675	0.1+ 0.9+
540904 675	0.1- 0.5-	940517 691	0.9- 0.3+	960218 691	0.0 0.3-
830901 095	0.1+ 0.8-	940517 691	0.9- 0.7+	960218 691	0.2- 0.3-
830905 095	(2.8- 0.6+)	940713 801	0.5+ 0.2+	960218 691	0.2- 0.3-
830911 095	1.1+ 0.9+	940713 801	0.5+ 0.2+	970408 689	0.9- 0.4-
900525 801	0.5- 0.9-	940808 801	0.4+ 0.8+	970409 689	2.1+ 0.6+
900525 801	0.2- 0.9-	940808 801	0.3+ 0.9+	970623 689	0.3+ 0.3+

900625 801	0.3- 0.1-	940831 596	0.6- 1.0-
900625 801	0.0 0.0	940831 596	0.2- 1.1-

(7742)* 1985 US = 1996 BP₂

Discovered 1985 Oct. 20 by A. Mrkos at Kleť.

Id. S. Nakano (*MPC* 26738)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	183.40264	(2000.0)	P	Q	
<i>n</i>	0.21980549	ω 293.86550	+0.51219877	-0.85683442	
<i>a</i>	2.7192159	Ω 125.19367	+0.81194526	+0.46065549	
<i>e</i>	0.0815947	<i>i</i> 4.14387	+0.27999519	+0.23158433	
<i>P</i>	4.48	<i>H</i> 13.8	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

851020 046	(2.3+ 5.7-)	960130 411	1.5- 0.9+	970609 809	1.9+ 0.4-
851020 046	(0.2+ 4.8-)	960327 046	0.8+ 0.2+	970609 809	(2.3+ 0.5-)
851021 046	(0.9- 5.3-)	960327 046	0.3+ 1.0-	970609 809	1.6+ 1.1-
851021 046	(0.6- 3.1-)	960327 046	0.1- 0.5-	970610 691	0.1- 0.7+
851024 046	(4.6- 4.1-)	960416 046	0.3+ 0.5+	970610 691	1.0- 0.4+
851024 046	(2.0- 3.5-)	960416 046	0.6+ 0.3-	970610 691	0.8- 0.4+
880510 675	0.0 0.4+	960416 046	0.3+ 0.2+	970626 691	0.5- 0.0
880510 675	0.0 0.3-	970602 046	0.6+ 0.2+	970626 691	0.8- 0.1-
941005 691	0.3- 0.2-	970602 046	0.2- 0.2+	970626 691	0.6- 0.3-
941005 691	0.1+ 0.1+	970602 046	0.2+ 0.1-	970701 691	0.7- 0.1-
941005 691	0.3+ 0.0	970604 046	0.0 0.3+	970701 691	0.8- 0.2-
960126 411	0.0 0.4-	970604 046	0.3- 0.0	970701 691	0.7- 0.1-
960126 411	0.7+ 0.3+	970604 046	0.3- 0.3+	970702 691	0.6- 0.1+
960127 411	0.5- 0.1-	970608 809	(2.3+ 0.2-)	970702 691	0.7- 0.5+
960127 411	0.2- 0.0	970608 809	2.0+ 0.2-	970702 691	0.7- 0.2-
960130 411	0.4- 0.2+	970608 809	1.8+ 0.5-		

(7743)* 1986 JA = 1990 OP

Discovered 1986 May 2 at Brorfelde.

Id. S. Nakano (*MPC* 17017)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Nakano			
<i>M</i>	344.64042	(2000.0)	P	Q	
<i>n</i>	0.26949872	ω 103.39781	-0.11451241	+0.99079329	
<i>a</i>	2.3737314	Ω 159.60211	-0.97266640	-0.09704067	
<i>e</i>	0.1753370	<i>i</i> 11.95864	-0.20200738	-0.09440215	
<i>P</i>	3.66	<i>H</i> 13.3	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

541124 675	0.5+ 0.2+	900728 675	0.0 0.1+	930318 372	1.1+ 0.7+
541124 675	0.1+ 0.2-	900728 675	0.0 0.5-	930320 801	0.0 0.5+
860502 054	0.1- 0.2+	900730 675	(9.1- 12.3-)	930320 801	0.0 0.3+
860503 054	1.3- 1.2-	900816 675	0.3+ 0.4+	970512 127	0.6- 0.4+
860510 010	(9.8- 1.4+)	900816 675	0.4- 1.0+	970512 127	0.5- 0.5+
860511 010	(4.8- 1.0-)	900819 675	0.4+ 1.2+	970523 127	0.3+ 0.5-
860512 010	(4.3- 7.1-)	900819 675	0.1+ 1.3+	970523 127	0.0 0.2-
860512 010	(0.5- 7.4-)	930221 801	0.4- 0.1+	970524 127	0.7- 0.6-
860513 054	0.8+ 0.1+	930221 801	0.2- 0.3+	970524 127	0.9- 0.9-
900718 675	0.2- 0.5+	930226 801	0.3+ 0.4+	970528 127	0.2+ 0.3-
900718 675	0.8- 1.4+	930226 801	0.3+ 0.3+	970528 127	0.4+ 0.4-
900721 675	0.4- 0.4+	930228 372	(4.3- 0.8+)	970605 801	1.8+ 0.4-
900721 675	0.2+ 0.5+	930228 372	(4.9- 1.9+)	970605 801	0.8+ 0.7-

900725 675 0.2- 0.3- 930317 372 0.8- 1.6+
 900725 675 0.2+ 0.9- 930317 372 0.1+ 1.8+

(7744)* 1986 QA₁ = 1995 SB₄₃

Discovered 1986 Aug. 26 by H. Debehogne at the European Southern Observatory.

Id. G. V. Williams (*MPC* 25954)

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams	
<i>M</i>	336.25891	(2000.0)	P	Q
<i>n</i>	0.22736331	ω 121.35606	-0.99132251	-0.12332573
<i>a</i>	2.6586171	Ω 51.59958	+0.09197452	-0.89803829
<i>e</i>	0.0340777	<i>i</i> 3.32855	+0.09391683	-0.42227715
<i>P</i>	4.33	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

860826 809	1.8-	0.1-	860905 809	0.7+	0.1-	911106 691	0.6-	0.4+
860826 809	1.6-	0.0	860905 809	0.5+	0.2-	911106 691	1.1-	0.2+
860826 809	1.4-	0.0	860906 809	0.9+	0.6-	950925 691	0.2-	0.2+
860827 809	0.5-	0.4+	860906 809	0.7+	0.6-	950925 691	0.1+	0.0
860827 809	0.5-	0.4+	860906 809	1.1+	0.7-	950925 691	0.0	0.1+
860827 809	0.3-	0.6+	860907 809	0.1-	0.2-	950930 691	0.1-	0.2+
860829 809	0.1+	0.4-	860907 809	0.1-	0.0	950930 691	0.2-	0.2+
860829 809	0.5+	0.4-	860907 809	0.1-	0.1+	950930 691	0.0	0.1+
860829 809	0.5+	0.3-	860907 809	0.3-	0.3-	961108 327	0.4-	0.4-
860902 809	1.1+	0.1+	860907 809	0.2-	0.3-	961108 327	0.1+	0.5-
860902 809	1.3+	0.1+	860907 809	0.2-	0.3-	961108 327	0.0	0.4-
860902 809	1.3+	0.2+	860911 809	1.9-	0.4+	970102 411	0.0	0.1-
860904 809	0.9+	0.1-	860911 809	1.6-	0.4+	970102 411	0.0	0.8-
860904 809	1.2+	0.2-	860911 809	1.4-	0.3+	970103 411	0.3-	0.3-
860904 809	1.2+	0.4-	911017 675	1.5+	0.3+	970103 411	0.1+	0.0
860905 809	0.7+	0.2-	911106 691	0.3-	0.3+			

(7745)* 1987 DB₆ = 1990 UQ₆ = 1994 PW₃₄

Discovered 1987 Feb. 22 by H. Debehogne at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 24560)

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Marsden	
<i>M</i>	126.94249	(2000.0)	P	Q
<i>n</i>	0.21141391	ω 286.93227	+0.17794353	-0.98188338
<i>a</i>	2.7907034	Ω 152.56002	+0.94805606	+0.15332739
<i>e</i>	0.2084559	<i>i</i> 8.12435	+0.26367748	+0.11133613
<i>P</i>	4.66	<i>H</i> 13.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

870222 809	0.6-	0.6-	870302 809	0.1+	0.2+	940810 809	0.9+	1.5+
870222 809	0.5-	0.5-	870302 809	0.4+	0.3+	940810 809	0.6+	1.7+
870222 809	0.6-	0.6-	870302 809	0.6+	0.3+	940811 809	0.7-	1.3+
870223 809	0.2-	0.4-	870303 809	0.3-	1.0+	940811 809	0.2+	1.6+
870223 809	0.0	0.4-	870303 809	0.2-	0.7+	940811 809	0.0	1.6+
870223 809	0.1-	0.1-	870303 809	0.5-	0.7+	940903 809	0.2-	0.2+
870224 809	0.5+	0.4-	870304 809	0.3+	0.3+	940903 809	0.3-	0.5+
870224 809	0.1+	0.5-	870304 809	0.3+	0.3+	940903 809	0.4+	0.1-
870224 809	0.4+	0.4-	870304 809	0.4+	0.3+	960219 801	0.8+	0.3+
870226 809	0.5-	0.5+	870305 809	0.2+	0.3+	960219 801	0.5+	1.3-
870226 809	0.4-	0.7+	870305 809	0.2-	0.3+	960318 801	0.0	0.4+

870226 809	0.4-	0.6+	870305 809	0.1-	0.2+	960318 801	0.2+	0.5+
870227 809	0.0	0.2+	870306 809	0.0	1.0+	960324 801	0.3+	0.5+
870227 809	0.2+	0.3-	870306 809	0.1+	0.8+	970503 691	0.6-	0.4+
870227 809	0.5+	0.3-	870306 809	0.6+	0.5+	970503 691	0.5-	0.1+
870228 809	0.2-	0.2+	870309 809	1.0+	0.7+	970503 691	0.5-	0.1+
870228 809	0.0	0.1+	870309 809	1.5+	0.8-	970702 691	0.8-	0.5-
870228 809	0.1+	0.2-	870309 809	(1.8+	2.7-)	970702 691	0.6-	0.0
870301 809	0.2+	0.8+	901020 413	1.9-	0.8-	970702 691	0.7-	0.3-
870301 809	0.4+	0.9+	901020 413	1.1-	1.1+			
870301 809	0.5+	0.8+	940810 809	(1.5+	2.2+)			

(7746)* 1987 RC₁ = 1988 VU₃

Discovered 1987 Sept. 13 by H. Debehogne at the European Southern Observatory.

Id. T. Kobayashi (*MPC* 14197)

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams	
<i>M</i>	286.46700	(2000.0)	P	Q
<i>n</i>	0.17209020	ω 254.64295	+0.35901317	+0.93324264
<i>a</i>	3.2010955	Ω 36.40502	-0.84772799	+0.33185852
<i>e</i>	0.1349350	<i>i</i> 1.25038	-0.39046996	+0.13757945
<i>P</i>	5.73	<i>H</i> 11.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

531031 675	0.3-	0.6-	870926 809	0.9+	0.5+	930915 809	1.1+	1.4-
531031 675	0.1-	0.1-	870926 809	1.0+	0.5+	930915 809	1.3+	1.7-
870913 809	1.0-	0.3-	870927 809	0.5+	0.2+	930915 809	0.6-	1.3-
870913 809	1.5-	0.3-	870927 809	0.5+	0.0	930919 675	0.1+	0.2-
870913 809	0.3-	0.6-	870927 809	0.7+	0.1-	930919 675	0.2-	0.2+
870914 809	1.5-	1.2-	881114 399	(3.8+	0.7-)	930920 691	1.2-	0.1-
870914 809	1.8-	1.3-	881114 399	(3.4+	0.5-)	930920 691	1.2-	0.3-
870914 809	0.8-	0.2-	881114 399	1.8+	0.2+	930920 691	1.2-	0.3-
870916 809	0.1-	0.2-	881117 399	0.6+	0.6+	930922 809	0.5-	1.9+
870916 809	0.0	0.1-	881117 399	0.6+	0.0	930922 809	0.9-	1.4+
870916 809	0.0	0.3-	881117 399	2.2+	0.4-	930922 809	(2.4-	0.7+)
870917 809	0.0	0.0	881117 399	0.2-	0.6-	930923 675	0.1-	0.2+
870917 809	0.1-	0.1-	910211 675	0.4-	1.9-	930923 675	0.1-	0.2+
870917 809	0.1-	0.0	910309 675	0.4-	1.2-	931010 675	1.3-	0.2+
870918 809	0.3+	0.2+	910309 675	0.0	1.2-	931010 675	0.9-	0.8+
870918 809	0.4+	0.4+	910320 809	0.1-	1.6+	931111 801	0.6-	0.1+
870918 809	0.5+	0.2+	910320 809	0.2+	1.5+	931111 801	0.6-	0.3+
870924 809	0.6+	0.5+	910320 809	0.4+	1.4+	931113 801	0.2-	0.7+
870924 809	1.2+	0.4+	910321 809	0.5-	0.8+	931113 801	0.5-	0.5+
870924 809	0.7+	0.3+	910321 809	0.2-	0.9+	941203 098	(1.7-	4.1-)
870924 071	(4.4-	2.8-)	910321 809	0.1-	1.1+	941203 098	(4.3-	3.7-)
870924 071	(4.7-	3.8-)	910322 809	0.5+	0.6+	941204 098	(2.4-	2.0+)
870925 809	0.9+	0.5+	910322 809	0.7+	0.7+	941204 098	0.5+	0.4-
870925 809	1.1+	0.6+	910322 809	0.9+	1.1+	970408 801	0.8+	1.5-
870925 809	1.3+	0.5+	910415 675	1.4-	0.3+	970408 801	0.7+	1.5-
870926 809	0.8+	0.6+	910415 675	1.6-	0.4-	970513 689	0.2+	0.7-

(7747)* 1987 SO = 1989 AQ₅

Discovered 1987 Sept. 19 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. S. Nakano (*MPC* 14620)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 308.33136 (2000.0)			Nakano	
			P	Q
<i>n</i>	0.28370933	ω 28.07566	+0.73767712	+0.67002333
<i>a</i>	2.2937899	Ω 289.60504	-0.63477902	+0.64638151
<i>e</i>	0.2741774	<i>i</i> 5.05925	-0.22997404	+0.36504751
<i>P</i>	3.47	<i>H</i> 13.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

870824 675	(0.6- 2.3+)	871026 688	0.0	0.6+	941210 689	0.2+	0.7+
870824 675	0.4+ 1.7+	871026 688	0.6+	0.5+	951127 691	0.5-	0.0
870827 675	1.8+ 0.0	871123 675	0.9-	0.1+	951127 691	0.1+	0.2-
870827 675	0.0 1.5+	890104 413	(0.6- 2.5+)		951127 691	0.9-	0.4+
870902 095	1.0- 0.2+	890104 413	0.9+	2.1+	951226 691	0.1-	0.1+
870917 095	(2.7- 1.4+)	890110 413	(2.4- 2.4+)		951226 691	0.1+	0.1+
870919 688	0.3+ 0.6-	890110 413	0.9+	0.1+	951226 691	0.5+	0.1-
870919 688	1.5- 0.3-	920102 688	0.3+	0.3+	970408 689	1.2+	0.3-
870926 688	1.5+ 0.8+	920102 688	0.3-	0.2+	970409 689	0.9-	0.3+
870926 688	0.3+ 0.5+	940930 675	0.4+	1.1-	970426 689	0.4-	1.8+
870926 095	(2.4- 0.2-)	940930 675	0.1+	0.1+	970427 689	0.8+	1.4-
871016 688	0.2- 0.7-	941104 675	0.4+	0.7-	970512 689	0.1+	0.1+
871016 688	1.3- 1.4-	941104 675	0.2+	0.9-	970513 689	0.4-	0.2-
871017 675	1.2- 1.5+	941106 675	0.6+	1.1-	970525 689	0.5-	0.7+
871017 675	1.5- 1.5+	941106 689	0.0	0.1+	970526 689	0.9+	0.4-
871025 054	0.4- 0.9-	941106 675	0.7+	1.6-	970527 689	0.8-	0.3-

(7748)* 1987 TA = 1980 TP₁₅

Discovered 1987 Oct. 12 by T. Nijima and T. Urata at Ojima.

Id. S. J. Bus (*MPC* 24386)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 280.44564 (2000.0)			Williams	
			P	Q
<i>n</i>	0.28022514	ω 17.63993	+0.99931404	+0.02628575
<i>a</i>	2.3127640	Ω 340.79724	-0.03540993	+0.88447486
<i>e</i>	0.2419148	<i>i</i> 4.54899	+0.01084362	+0.46584684
<i>P</i>	3.52	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

801014 675	0.7+ 0.7+	871025 095	1.9+	1.0-	960210 887	0.4+	0.3+
870918 095	1.1+ 0.5-	940930 675	0.4+	1.0+	960210 887	0.7+	0.1-
870920 095	0.1+ 0.4+	940930 675	0.7+	0.1+	960210 887	0.2+	0.5-
871012 887	0.0 0.9-	941104 675	0.4+	0.3-	970607 385	0.6+	0.2+
871012 887	0.7+ 0.6+	941104 675	0.2+	0.4-	970607 385	1.0+	0.3+
871012 887	0.9- 0.4+	941106 675	0.7-	0.1-	970705 385	1.2-	0.0
871019 887	0.9- 1.4-	941106 675	0.1-	0.4-	970705 385	0.5+	0.4-
871019 887	1.5- 0.6+	960126 691	0.7-	0.1-	970705 385	1.4-	0.7-
871025 887	1.6- 0.5+	960126 691	0.8-	0.3-			
871025 887	(0.9- 2.8-)	960126 691	0.2-	0.2-			

(7749)* 1988 JP = 1985 XO₁

Discovered 1988 May 12 by C. S. Shoemaker at Palomar.

Id. C. M. Bardwell (*MPC* 15712)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 317.21266 (2000.0)			Bardwell	
			P	Q
<i>n</i>	0.23111567	ω 256.71872	+0.79147885	+0.37509175
<i>a</i>	2.6297621	Ω 79.44195	-0.15971705	+0.88903493
<i>e</i>	0.3614755	<i>i</i> 29.39804	-0.58995906	+0.26253204
<i>P</i>	4.26	<i>H</i> 12.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

851214 010	(12.7- 3.1+)	891125 675	0.4+	0.6-	931118 323	0.9+	0.2-
851214 010	(3.5+ 5.5+)	891128 675	0.1+	0.1-	970605 886	0.3-	0.0
880512 675	0.9- 0.6-	891130 095	0.3-	1.0-	970605 886	0.3+	0.2+
880514 675	0.2- 1.4-	920402 033	0.3-	0.3-	970607 886	0.8+	0.5+
880608 675	0.3+ 2.2-	920402 033	1.6-	0.7+	970607 886	0.1+	0.3+
880610 675	(0.7+ 3.1-)	930825 413	0.1+	0.5-	970625 962	0.0	0.5-
880611 675	(0.1- 3.1-)	930825 413	0.1+	0.4-	970625 962	1.6-	0.0
891122 808	1.7+ 0.6-	930825 413	0.3+	0.5-	970628 823	0.1+	0.1-
891122 808	0.0 0.5+	930903 413	0.1-	0.1+	970628 823	0.2+	0.1+
891122 675	0.0 1.1-	930903 413	0.1-	0.1+	970629 823	0.6-	0.9-
891124 095	(3.5- 8.2+)	930903 413	0.1-	0.1+	970629 823	0.4+	0.3-

(7750)* 1988 QD₁ = 1951 LO

Discovered 1988 Aug. 18 by C. S. Shoemaker at Palomar.

Id. G. V. Williams (*MPC* 17441)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 332.48284 (2000.0)			Williams	
			P	Q
<i>n</i>	0.21482893	ω 69.62464	+0.72458758	+0.63979955
<i>a</i>	2.7610496	Ω 249.66616	-0.68890598	+0.66186410
<i>e</i>	0.3749839	<i>i</i> 15.85522	-0.01952911	+0.39063084
<i>P</i>	4.59	<i>H</i> 12.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

510607 711	(5.6+ 5.1+)Y	930912 801	0.1+	0.4-	931115 596	0.0	0.1+
510608 711	(7.5+ 7.0+)Y	930920 801	0.2-	0.6+	970512 689	0.3+	0.2-
880818 675	0.4+ 0.5+	930920 801	0.1-	1.2+	970513 689	0.5+	0.1+
880818 675	0.5+ 0.1+	931012 801	0.4+	0.2-	970626 962	0.6-	0.5-
880910 675	0.3- 0.1-	931012 801	0.2+	0.2-	970626 962	0.2-	0.2+
880912 675	0.0 0.9-	931014 801	0.4+	0.0	970626 962	0.2-	0.3-
880913 675	0.1- 0.7-	931014 801	0.3+	0.1+	970710 630	0.0	0.7+
920603 801	0.1- 0.5+	931115 596	0.0	0.4+	970710 630	0.2-	0.7+
920603 801	0.0 0.6-	931115 596	0.3-	1.1-	970710 630	0.2+	0.5+
930912 801	0.2- 0.4+	931115 596	0.3-	0.7+			

(7751)* 1988 UA = 1992 UL₃

Discovered 1988 Oct. 16 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 21106)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i> 99.92702 (2000.0)			Nakano	
			P	Q
<i>n</i>	0.25312535	ω 92.58224	+0.98267677	+0.18441169
<i>a</i>	2.4750214	Ω 256.79138	-0.17666175	+0.90208485
<i>e</i>	0.1878860	<i>i</i> 1.08319	-0.05600891	+0.39017336
<i>P</i>	3.89	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

710324 675	0.5- 1.1-	881031 399	0.7+	0.2+	961111 801	1.0+	1.1-
710327 675	(1.5- 2.6-)	881031 399	(2.7- 1.6-)		961111 801	1.6+	0.5-
881005 399	2.2- 0.6+	881106 399	(1.3- 2.4+)		961112 801	2.1+	0.2-

881005 399	(3.9- 0.8+)	881106 399	0.6- 0.2+	961112 801	1.0+ 0.2-
881005 399	1.1+ 1.4+	910513 675	0.4- 0.1-	961112 399	0.8- 0.9-
881007 675	0.8- 0.9-	910515 675	0.5- 1.4+	961112 399	0.1- 0.4-
881007 675	0.0 1.5-	910515 675	1.0+ 1.3-	961115 399	(2.9- 0.7+)
881013 675	0.6- 0.2+	921026 400	1.9+ 1.0+	961115 399	1.9- 0.8-
881013 675	0.3- 0.9-	921026 400	0.3+ 0.6+	961202 399	0.9- 0.6+
881016 399	0.2- 0.1+	921028 400	0.7+ 1.6+	961202 399	0.3- 0.2+
881016 399	0.5+ 0.0	921028 400	0.1- 0.7+	961206 399	1.0- 0.3+
881016 399	0.4+ 0.2-	921222 801	0.0 0.1+	961206 399	0.4+ 0.9+
881016 399	(1.9- 2.5-)	921222 801	0.2+ 0.1-	961212 691	0.3- 0.1+
881019 399	1.3+ 1.0-	921227 801	0.6+ 0.4+	961212 691	0.2- 0.1+
881019 399	(2.6+ 0.4+)	921228 801	0.8- 0.7+	961212 691	0.8- 0.0
881019 399	(2.9+ 0.6+)	961107 399	1.1- 0.4-		
881031 399	0.1- 1.0-	961107 399	0.9- 0.3-		

(7752)* 1988 US = 1953 TM₂ = 1981 UK₁₂

Discovered 1988 Oct. 31 by T. Nijima and K. Kanai at Ojima.

Id. T. Kobayashi (*MPC* 14024)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	205.70959	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28275022	ω 77.03284	+0.99707947	+0.03998159
<i>a</i>	2.2989741	Ω 280.64802	-0.06315379	+0.91073739
<i>e</i>	0.1526699	<i>i</i> 3.79629	+0.04294334	+0.41104607
<i>P</i>	3.49	<i>H</i> 13.2	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

501209 675	0.9+ 0.9+	881110 887	0.8+ 1.5+	951218 801	0.3+ 0.2-
501209 675	0.7+ 0.7+	930122 809	0.8- 0.2-	951218 801	0.4+ 0.1+
531013 760	0.3- 0.8-	930122 809	1.5- 0.2+	951223 801	0.0 0.3+
531018 760	0.2- 0.1-	930122 809	1.7- 0.2-	951223 801	0.0 0.1+
531018 760	0.5- 0.4-	930128 809	0.3+ 0.8-	960111 887	0.7- 0.1-
550420 675	2.1+ 1.1-	930128 809	0.1+ 1.3-	960111 887	0.9- 0.1+
550420 675	0.6+ 1.4+	930128 809	1.9- 1.2-	960111 887	0.9- 0.0
811022 095	(4.9+ 1.7+)	951117 887	0.6+ 0.2+	960118 887	0.1- 0.3+
811024 095	(3.8+ 0.2+)	951117 887	0.5+ 0.4-	960118 887	0.4+ 0.3-
881031 887	0.4- 0.1-	951117 887	0.0 0.5+	960118 887	0.1- 0.1+
881031 887	0.1- 0.0	951125 072	0.2+ 1.1+	960124 887	0.8+ 0.4-
881103 887	0.7- 1.3-	951125 072	0.1+ 0.1-	960124 887	0.5+ 0.6-
881103 887	1.6+ 2.4-	951127 887	0.1- 1.2+	960124 887	0.6+ 0.4-
881103 054	0.9- 0.5+	951127 887	0.1- 0.9-	970309 689	0.5+ 0.9+
881103 054	0.6- 1.0+	951217 887	0.1+ 0.4+	970310 689	1.0+ 1.7+
881104 054	0.6- 0.9+	951217 887	0.3+ 0.5+	970408 689	0.4- 0.9-
881110 887	1.1+ 0.6+	951217 887	0.1+ 0.2+	970409 689	0.3- 0.3+

(7753)* 1988 XB

Discovered 1988 Dec. 5 by Y. Oshima at the Gekko Observatory.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	312.29070	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.55444643	ω 279.91044	+0.99219958	+0.11316204
<i>a</i>	1.4674489	Ω 73.60609	-0.08186161	+0.90781643
<i>e</i>	0.4817472	<i>i</i> 3.12457	-0.09401420	+0.40381145
<i>P</i>	1.78	<i>H</i> 18.6	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

881205 888	0.8+ 2.4-	960111 360	0.9+ 0.6-	970603 620	0.4+ 0.3+
881205 888	(3.4+ 1.1-)	960111 360	0.4- 1.8-	970603 620	0.3+ 0.4+
881206 888	0.2+ 0.8-	960111 360	(2.1+ 0.5-)	970603 620	0.2+ 0.4+
881206 888	1.8- 0.1-	960126 413	0.5- 0.6+	970603 620	0.0 0.4+
881206 888	0.8+ 0.9-	960126 413	0.8+ 0.5+	970604 816	0.2+ 0.3-
881207 897	0.1+ 0.5+	970430 861	0.8+ 0.6+	970604 816	0.1+ 0.4-
881207 897	(2.7+ 0.3+)	970430 861	0.2- 0.8-	970604 816	0.2+ 0.2-
881207 888	1.1+ 0.5-	970503 684	0.3- 0.4-	970604 816	0.2+ 0.3-
881207 888	0.7- 0.8-	970503 684	0.3- 0.3-	970604 360	0.4+ 0.6-
881208 801	0.5+ 0.5+	970503 684	0.3- 0.2-	970604 360	0.2+ 0.4-
881208 675	0.7+ 0.9-	970504 861	0.4+ 1.0+	970604 360	0.2+ 0.4-
881208 675	1.4- 1.5+	970504 861	(2.8+ 1.2-)	970605 118	0.4+ 0.8-
881209 010	0.6- 0.9+	970505 360	0.5- 0.5+	970605 118	0.4+ 0.6-
881209 010	0.6+ 2.0+	970505 360	0.3- 0.1+	970605 118	0.5+ 0.6-
881209 801	0.9+ 0.4-	970505 360	1.1- 0.7+	970605 816	0.1+ 0.6-
881209 372	0.6- 0.1-	970510 046	0.0 0.6-	970605 816	0.1+ 0.5-
881209 372	(3.0+ 1.2-)	970510 046	0.6- 0.6+	970605 816	0.2+ 0.4-
881210 888	0.2+ 0.2-	970512 046	0.3- 0.3+	970605 816	0.4+ 0.5-
881210 888	0.9+ 0.4+	970512 046	0.6- 0.7+	970605 385	0.9- 0.6-
881211 391	1.4- 0.9+	970512 046	0.3- 0.1+	970605 385	0.5- 0.1-
881211 391	0.0 0.6+	970512 046	0.5- 0.2+	970605 385	0.9+ 0.7-
881212 391	(6.7- 2.9+)	970517 381	0.7- 0.3+	970605 355	0.8+ 0.5-
881212 391	0.1+ 1.6+	970517 381	1.0- 0.1+	970605 355	0.9- 0.4-
881212 391	(8.6- 2.3+)	970517 381	0.8- 0.1+	970606 355	0.5+ 0.3-
881212 391	(3.6+ 0.9+)	970518 861	0.2- 1.0-	970606 355	0.3- 0.0
881213 801	0.1- 0.3+	970518 861	0.2+ 0.8-	970606 355	0.3+ 0.4-
881214 657	1.0- 0.5-	970518 861	0.0 0.8-	970606 355	0.2+ 0.0
881214 675	(5.4- 0.7+)	970520 608	1.2- 0.3+	970606 402	0.3+ 0.1+
881214 675	(3.7- 0.4-)	970525 886	1.0- 0.7+	970606 402	0.2+ 0.1+
881214 888	1.0- 0.3-	970525 886	0.9- 1.2-	970606 402	0.4+ 0.1+
881215 657	0.2- 0.6+	970525 385	0.5- 1.0+	970606 620	0.2+ 0.1+
881215 372	1.3+ 1.7-	970525 385	1.5- 0.1-	970606 620	0.1+ 0.1+
881217 897	(2.9- 0.5+)	970525 385	1.1- 0.9+	970606 620	0.1+ 0.2+
881219 372	(2.1+ 3.9-)	970526 886	0.2- 0.6+	970606 620	0.2+ 0.3+
890102 888	0.4+ 0.7+	970526 886	0.8- 0.9+	970606 620	0.3+ 0.1+
890102 888	0.5+ 0.7+	970527 360	0.4- 0.5+	970607 385	0.4+ 0.1-
890104 801	0.1+ 0.4+	970527 360	0.2- 0.4+	970607 385	0.6+ 0.0
890105 888	0.4- 0.4-	970527 360	0.2- 0.5+	970607 385	0.3+ 0.1+
890105 888	1.7- 1.1-	970528 816	0.5- 0.5+	970607 385	0.5+ 0.0
890117 675	0.5+ 0.5-	970528 816	0.5- 0.7+	970607 385	0.4+ 0.1-
890117 675	0.5+ 0.5-	970528 897	0.1- 0.1+	970607 402	0.2+ 0.1+
890117 675	0.5+ 0.6-	970528 897	0.8+ 0.0	970607 402	0.3+ 0.1-
890118 675	0.1+ 0.0	970528 897	0.3+ 0.8+	970607 402	0.2+ 0.1-
890118 675	0.6+ 0.2-	970528 355	0.6+ 0.5+	970612 402	0.2- 0.3-
890118 675	0.1+ 0.2-	970528 355	0.1- 0.5+	970612 402	0.1- 0.4-
890217 675	0.2- 0.6+	970612 355	0.0 0.7+	970612 402	0.2- 0.3-
890217 675	0.4- 0.1+	970528 402	0.1- 0.4+	970612 360	0.2- 0.4-
890217 675	0.5+ 0.8+	970528 402	0.0 0.6+	970612 360	0.1- 0.4-
930302 413	0.7+ 0.1-	970528 402	0.1- 0.4+	970612 360	0.1- 0.3-
930302 413	1.2+ 0.3+	970529 423	0.6- 0.5+	970613 861	0.4+ 0.3-
930303 413	1.0+ 0.1+	970529 423	0.3- 0.2-	970613 861	1.0+ 0.4-

930303	413	0.7+	0.4-	970529	423	0.2+	0.0	970613	402	0.9+	0.5-
950307	413	0.1+	0.1+	970530	423	1.1-	0.1+	970613	402	1.0+	0.4-
950307	413	0.3+	0.3-	970530	423	0.8-	0.2+	970613	402	0.4+	0.5-
950321	413	0.2-	0.6-	970530	423	1.1-	0.2+	970615	118	0.4-	0.1-
950321	413	(2.5+	0.6-)	970530	423	0.4-	0.5+	970615	118	0.2-	0.4-
950401	360	0.5+	1.5-	970530	423	1.0-	0.0	970615	118	0.2-	0.1-
950401	360	0.5+	0.1-	970530	886	1.4-	0.7+	970620	046	0.6+	0.0
950401	360	1.0+	0.9-	970530	423	1.1-	0.5+	970620	046	0.3+	0.3+
950403	360	0.8-	0.5-	970530	886	1.0-	0.8+	970620	046	0.8+	0.1+
950403	360	0.2-	0.5-	970530	423	0.3-	0.1+	970620	046	0.1+	0.5+
950403	360	0.6-	0.1+	970530	423	0.2-	0.5+	970623	402	0.6+	0.5+
950417	413	1.5-	0.1+	970530	423	0.3-	0.4+	970623	402	0.5+	0.3+
950417	413	0.7-	0.5-	970530	423	0.5-	0.6+	970623	402	0.7+	0.3+
950423	691	0.4-	0.5-	970530	423	0.6-	0.1-	970623	118	0.3+	0.1-
950423	691	0.7-	1.3-	970531	423	0.1-	0.2+	970623	118	0.4+	0.0
950423	691	1.0-	0.6-	970531	423	0.2-	0.0	970624	355	1.1+	0.2+
950504	104	0.1-	1.2-	970531	423	0.5-	0.2+	970624	355	0.7+	0.3+
950504	104	0.1-	1.7-	970531	423	0.2-	0.0	970624	402	0.8+	0.5+
950519	608	0.9+	2.0+	970531	423	0.2+	0.1-	970624	402	1.4+	0.2+
950519	608	0.8+	0.9+	970531	402	0.2+	0.0	970625	118	0.0	0.1-
951208	413	0.6+	1.1+	970531	402	0.2-	0.2+	970625	118	0.1+	0.5-
951208	413	0.1+	1.3+	970531	402	0.5+	0.2+	970625	118	0.1-	0.2-
951208	413	0.6+	1.1+	970531	046	0.1-	0.4+	970625	118	0.0	0.3-
951210	360	0.1+	1.2-	970531	046	0.4-	0.3+	970628	118	0.6-	0.2-
951210	360	1.1+	1.5-	970531	046	0.0	0.6+	970628	118	0.9-	0.8-
951210	360	1.4+	0.2-	970601	861	1.0+	0.7-	970629	402	(2.1-	0.6+)
960109	413	0.3-	0.5+	970601	861	0.9+	0.2-	970629	402	1.8-	0.0
960109	413	0.0	0.2-	970601	861	0.3+	0.1+	970629	402	0.8-	0.4+
960109	413	0.5-	0.0	970602	423	0.2+	0.6-	970706	402	0.0	0.8-
960110	413	0.4+	1.5+	970602	423	0.3-	0.2-	970706	402	0.3-	0.2-
960110	413	0.3-	0.7+	970602	423	0.3-	0.1-	970706	402	0.3-	0.2-

(7754)* 1989 TT₁₁ = 1974 RH = 1979 SU₅ = 1979 UV₂

Discovered 1989 Oct. 2 by S. J. Bus at Cerro Tololo.

Id. S. Nakano (*MPC* 15896), N. S. Chernykh (d, *ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	195.39180	(2000.0)		P		Q	
<i>n</i>	0.20055679	ω	176.49026	+0.94510844		-0.32659283	
<i>a</i>	2.8905322	Ω	202.58029	+0.29913323		+0.87752433	
<i>e</i>	0.0771350	<i>i</i>	1.54486	+0.13148898		+0.35112414	
<i>P</i>	4.91	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

740911	095	1.5-	0.6+	941003	114	1.4+	0.2+	941028	691	0.7-	0.3+
790923	095	0.0	0.3-	941004	114	0.7+	1.1-	941101	691	1.1-	0.3+
791016	095	(1.9-	2.6-)	941004	114	1.4+	0.6-	941101	691	1.0-	0.4+
840921	010	0.1+	0.1+	941005	114	1.0+	0.5-	941101	691	0.8-	0.3+
891002	807	(2.7+	0.1+)	941006	114	1.9-	0.1+	960101	411	0.5-	0.1+
891004	807	1.9+	0.1-	941007	114	0.5-	0.4+	960101	411	0.4+	0.1+
891028	807	0.8+	0.6-	941007	596	0.9+	0.1+	960113	691	0.9-	0.2+
891031	807	1.5+	0.7-	941007	596	1.0+	0.0	960113	691	0.9-	0.2+
910108	896	1.3+	1.0+	941007	596	0.3+	0.2-	960113	691	0.9-	0.1+
910108	896	1.0+	0.5-	941008	114	0.8-	1.4+	960218	801	0.3+	0.2-
910116	675	0.6-	0.4+	941009	114	1.4-	0.0	960218	801	0.5+	0.1+

910116	675	0.5-	0.5-	941010	114	0.6+	1.6+	970309	689	0.8+	0.5-
910117	675	0.7+	0.5-	941013	689	0.2+	0.5-	970310	689	1.2-	0.0
910117	675	0.2-	0.3-	941028	691	0.6-	0.0	970408	689	0.5+	0.8-
941003	114	0.8-	1.9-	941028	691	0.5-	0.5+	970409	689	0.0	0.7+

(7755)* 1989 YO₅ = 1952 DR = 1952 FH = 1985 DO₄ = 1991 EX

Discovered 1989 Dec. 28 by E. W. Elst at Haute Provence.

Id. S. Kanda (d, *MPC* 1855), S. Nakano (*MPC* 18119)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

				(2000.0)				P		Q	
<i>M</i>	8.69768										
<i>n</i>	0.17656804	ω	120.53764					-0.82376985		+0.56511653	
<i>a</i>	3.1467433	Ω	93.90896					-0.53444233		-0.74747305	
<i>e</i>	0.1109144	<i>i</i>	2.59892					-0.18914181		-0.34918096	
<i>P</i>	5.58	<i>H</i>	12.1					<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

520226	711	(3.0-	3.9+)	Y	891229	511	0.7-	0.3-	930726	675	0.2+	0.4-
520226	760	1.3-	0.5+		900103	511	0.6+	1.7-	941105	675	1.2-	1.2-
520320	760	0.3+	1.4+		900103	511	1.5+	0.1-	960206	560	1.1+	0.9+
520320	760	1.3+	0.9-		900104	511	0.3+	0.3-	960206	560	0.7+	0.1-
540728	675	1.2-	0.3+		900104	511	(4.5+	0.1+)	960206	560	1.6+	0.3+
540728	675	0.1+	0.7+		910211	675	0.9-	0.8-	960219	801	0.9+	0.2+
551025	675	1.1+	1.4+		910211	675	0.1-	0.5-	970430	704	0.7+	0.3-
551025	675	0.7+	0.2+		910220	372	0.2-	1.4-	970430	704	0.1+	0.2-
850220	675	1.1-	2.2+		910220	372	(2.6+	0.8-)	970430	704	0.7+	0.0
850223	675	0.5+	0.1+		910314	385	0.4-	1.0+	970430	704	0.5+	0.1+
891228	511	(2.6+	0.8+)		910314	385	2.0-	0.6-	970430	704	0.4+	0.2-
891228	511	2.0-	0.4-		910318	385	0.4+	0.3+	970610	689	0.1+	0.2+
891229	511	(2.9-	0.6+)		910318	385	0.0	0.5-	970611	689	1.1-	1.0+
891229	511	1.8-	1.0+		930726	675	0.2-	0.1+				

(7756)* 1990 FR₁

Discovered 1990 Mar. 27 by C. S. Shoemaker at Palomar.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

				(2000.0)				P		Q	
<i>M</i>	276.12195										
<i>n</i>	0.17542081	ω	254.50373					+0.96062532		-0.04954230	
<i>a</i>	3.1604480	Ω	107.72189					+0.13432456		+0.94415343	
<i>e</i>	0.0225999	<i>i</i>	16.67931					-0.24321987		+0.32576042	
<i>P</i>	5.62	<i>H</i>	12.3					<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

900221	675	(2.3+	0.6+)		931116	675	1.3+	0.1-	970628	704	0.7+	0.0
900222	675	0.3-	0.0		931116	675	0.4-	0.1+	970629	704	0.3+	0.1-
900224	675	0.2-	0.1-		931207	675	0.3-	0.4+	970629	704	0.2-	0.7+
900327	675	0.5-	1.1-		931207	675	0.1-	1.3-	970629	704	0.0	0.4+
900331	675	0.1-	0.9-		960413	596	0.5+	0.9+	970629	704	(2.8-	0.5-)
900401	675	(0.8-	2.4-)		960413	596	0.6+	0.7+	970702	704	0.2+	0.1+
910514	675	0.6+	0.7+		960413	596	0.4+	0.8+	970702	704	0.7+	0.6+
910517	675	(2.6-	3.1-)		970610	689	0.4-	0.7+	970702	704	0.1+	0.5-
910606	675	0.0	0.1-		970611	689	1.5-	1.0-	970702	704	0.5-	0.4-
910608	675	0.2-	1.6-		970628	704	0.2+	0.2-	970702	704	0.4-	0.6+
910608	675	1.0-	1.4-		970628	704	0.4+	0.7-				

(7757)* 1990 KO

Discovered 1990 May 22 by E. F. Helin at Palomar.

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	334.37910	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28382909	ω 69.41330	+0.51254428	+0.79515842		
<i>a</i>	2.2931446	Ω 235.65620	-0.85819081	+0.48686465		
<i>e</i>	0.2467714	<i>i</i> 23.10982	+0.02840587	+0.36150505		
<i>P</i>	3.47	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 1		

Residuals in seconds of arc

900522 675	(3.9- 2.1-)	900726 675	0.2+ 0.3-	941107 801	0.8+ 0.3+
900522 675	(3.4- 0.8-)	900918 801	0.4+ 0.4+	941107 801	0.5+ 0.0
900523 675	1.3- 0.1-	900918 801	0.0 0.1-	960204 608	0.6+ 0.4+
900523 675	1.3- 1.5-	900919 801	0.1- 0.1-	960204 608	0.6+ 0.1+
900528 808	1.7+ 1.1-	900919 801	0.1+ 0.0	960208 608	0.1- 0.1-
900528 808	(0.7- 2.3-)	901015 801	0.5+ 0.5+	960208 608	0.2- 0.4-
900626 675	0.7+ 1.7-	901015 801	0.2- 0.2+	960220 608	0.6- 0.2-
900626 675	0.2+ 1.5-	901016 801	0.3+ 0.3+	960220 608	0.2- 0.1-
900628 675	0.3+ 0.3-	901016 801	0.4+ 0.4+	960229 608	0.4+ 0.2-
900628 675	0.2+ 0.6-	901019 801	0.8- 0.0	960229 608	0.0 0.3-
900629 413	0.1- 0.8-	901019 801	0.1+ 0.1+	960302 608	(1.3- 2.2-)
900629 413	1.4+ 0.4+	901020 801	0.4- 0.2-	960302 608	1.3- 0.5-
900629 413	0.0 0.5+	901020 801	0.0 0.2-	970603 127	1.0- 0.9+
900629 413	0.3+ 0.6+	941007 801	0.2+ 0.4-	970603 127	0.8- 1.0+
900718 675	0.2- 0.1-	941007 801	0.2- 0.1-	970605 127	0.2+ 1.2+
900718 675	0.6+ 0.1+	941008 801	0.2- 0.1-	970605 127	0.8+ 1.3+
900721 675	0.2- 0.5-	941008 801	0.0 0.5-	970609 127	0.9- 0.6+
900721 675	0.5- 0.6-	941031 675	1.5- 0.2-	970609 127	0.1- 0.2+
900724 675	0.1+ 0.1-	941031 675	0.1+ 0.6-	970710 630	0.3- 0.0
900724 675	0.1+ 0.8-	941103 801	0.3- 0.6-	970711 630	0.0 0.6+
900726 675	0.3+ 0.2-	941103 801	0.7+ 0.3-		

(7758)* 1990 KT

Discovered 1990 May 21 by E. F. Helin at Palomar.

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	318.38651	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.26791479	ω 56.57096	-0.19312448	+0.96997765		
<i>a</i>	2.3830780	Ω 203.66527	-0.97715704	-0.20375663		
<i>e</i>	0.1847083	<i>i</i> 21.60651	-0.08869642	+0.13276517		
<i>P</i>	3.68	<i>H</i> 14.4	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

900521 675	0.9- 0.2-	940802 693	1.8- 1.4+	951111 608	0.1- 0.1+
900523 675	1.1- 1.2+	940803 693	1.7- 1.2-	951113 608	0.4- 0.5+
900523 675	0.4+ 1.3-	940803 693	1.1- 0.4+	951113 608	1.2+ 1.6+
900626 675	1.5+ 0.1+	940902 675	1.4+ 0.6-	970513 608	0.3+ 0.2-
900626 675	1.0+ 0.7+	940902 675	1.1+ 0.4+	970513 608	0.0 0.3-
900627 675	(2.5+ 0.9-)	940904 675	0.9+ 0.2+	970616 608	0.5- 1.4+
900627 675	0.7- 0.1+	940904 675	0.3- 0.4-	970616 608	0.3+ 1.1+
940802 693	1.1+ 0.6+	951111 608	0.4- 0.3+		

(7759)* 1990 QD₂ = 1972 RT₁ = 1972 TO₈

Discovered 1990 Aug. 22 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 17213)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	329.26314	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.27230564	ω 198.09106	+0.72491134	+0.68831690		
<i>a</i>	2.3573910	Ω 118.38103	-0.62816425	+0.67657558		
<i>e</i>	0.2098206	<i>i</i> 1.75182	-0.28268927	+0.26165879		
<i>P</i>	3.62	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 1		

Residuals in seconds of arc

710324 675	0.5- 2.1-	900919 675	0.2- 0.5-	941031 411	0.3+ 0.3-
710325 675	0.2+ 1.6-	900921 095	(1.4+ 2.3+)	941031 411	0.6+ 0.3-
710325 675	0.2- 0.6+	930324 675	0.4+ 0.5+	941128 675	0.5+ 0.2+
710326 675	0.9- 0.9-	930324 675	1.1+ 0.5-	941128 675	0.1- 0.2-
710327 675	0.7- 0.9+	930415 675	1.4- 0.5+	960210 327	0.2+ 0.7-
710402 675	1.3+ 1.0-	930416 675	0.9+ 0.2-	960210 327	0.6+ 0.1+
720911 095	(0.3+ 3.5-)	930416 675	0.6+ 0.6-	960210 327	1.0- 0.2-
721013 095	(4.7+ 5.3-)	930521 675	0.6- 1.1-	960210 327	0.7- 0.8+
900822 675	0.1+ 0.1+	930521 675	0.8- 0.6+	960215 566	0.0 0.3+
900822 675	0.5- 0.0	930524 801	(0.5- 2.7+)	960215 566	0.3+ 0.3+
900828 675	0.3- 0.9+	930524 801	1.1- 1.4+	960215 566	0.0 0.4+
900828 675	0.2- 0.4+	930524 675	0.7+ 0.3+	970525 689	1.4- 1.2+
900828 095	(2.2- 0.5+)	930524 675	0.5+ 0.5+	970527 689	1.0+ 0.0
900828 095	1.5+ 1.0-	930526 801	0.6- 0.5+	970610 689	0.2- 0.0
900914 675	0.1+ 0.4-	941027 596	(0.0 2.2+)	970611 689	0.4+ 0.8-
900914 675	0.3- 0.2-	941027 596	(0.3- 2.3+)	970623 689	0.1- 0.8-
900919 675	0.7- 0.7-	941027 596	(1.2- 2.3+)	970624 689	1.3+ 0.3-

(7760)* 1990 RW₃ = 1979 UW₄ = 1979 WK₆

Discovered 1990 Sept. 14 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 17964), N. S. Chernykh (d, *ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	300.85763	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.26392306	ω 294.41779	+0.90089433	+0.43351463		
<i>a</i>	2.4070466	Ω 39.90070	-0.38521622	+0.82122483		
<i>e</i>	0.1921188	<i>i</i> 1.90451	-0.19999466	+0.37101864		
<i>P</i>	3.73	<i>H</i> 13.2	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

791017 095	0.4+ 0.1-	901014 095	0.5- 0.1-	960214 691	1.6- 0.1+
791117 095	0.8+ 0.3-	901022 675	0.2- 0.2+	960214 691	1.5- 0.1-
900914 675	0.4+ 0.9-	901022 675	0.1- 0.8+	960214 691	1.7- 0.3-
900914 675	0.6+ 0.9-	920101 691	0.3- 0.4-	960215 098	1.8- 0.3+
900918 675	0.9+ 0.6-	920101 691	0.1- 0.2-	960215 098	0.1- 0.7-
900918 675	0.8+ 0.5-	920101 691	0.1- 0.4-	960224 098	0.0 1.8-
900918 095	(2.0+ 2.2-)	930414 675	1.0- 1.5-	960224 098	1.0+ 1.6-
900918 095	(4.3+ 3.1-)	930414 675	0.8- 1.3-	960324 566	1.7+ 0.9+
900922 095	0.5+ 1.5-	940907 689	0.3+ 0.6+	960324 566	1.9+ 0.6+
900922 095	0.3+ 0.6-	941008 801	0.5+ 0.1-	960324 566	1.8+ 0.8+
900926 095	0.7- 0.2+	941008 801	0.3+ 0.0	970426 689	0.1+ 1.5-
900926 095	0.6- 0.8-	960214 098	0.5- 0.3-	970526 689	0.2+ 0.2-
901014 095	1.2- 0.2-	960214 098	0.8- 0.3-	970527 689	1.3+ 0.6+

(7761)* 1990 SL

Discovered 1990 Sept. 20 by R. H. McNaught at Siding Spring.

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	330.08476	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27143498	ω 222.49438	+0.43396913	+0.80240190
<i>a</i>	2.3624294	Ω 77.17039	-0.67160025	+0.59121562
<i>e</i>	0.2835441	<i>i</i> 24.84406	-0.60051969	-0.08133439
<i>P</i>	3.63	<i>H</i> 13.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

831006 413	0.6-	1.4-	901122 413	0.9-	0.6-	941112 292	1.8+	1.8-
831006 413	1.2+	0.1+	930218 657	0.3-	0.1-	970512 689	1.0+	1.1-
900920 413	0.7-	0.7+	930218 657	0.4-	0.1-	970513 689	0.5+	0.4-
900920 413	0.8+	0.1-	930218 657	0.7-	0.0	970527 689	0.4+	0.4-
900921 413	0.8+	0.7+	930522 801	0.0	1.0-	970601 566	1.2-	0.2-
900927 413	0.6-	0.3-	930522 801	0.1+	0.6-	970601 566	1.3-	0.0
901013 413	0.6+	0.2+	941112 292	0.6+	1.3-	970601 566	1.0-	0.4-

(7762)* 1990 SY₂ = 1990 SD₂₉ = 1976 YK₄ = 1995 UD₆

Discovered 1990 Sept. 18 by H. E. Holt at Palomar.

Id. S. Nakano (d, *MPC* 20913; *MPC* 25956), T. Urata (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	114.04108	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.20517907	ω 295.11242	+0.74592823	-0.66383185
<i>a</i>	2.8469555	Ω 106.52990	+0.62956766	+0.67630445
<i>e</i>	0.0713199	<i>i</i> 3.23037	+0.21733762	+0.31927976
<i>P</i>	4.80	<i>H</i> 12.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

761218 095	0.0	1.6+	940711 809	0.3-	0.0	951026 905	0.4-	0.2-
900918 675	(0.2-	2.9-)	940711 809	0.4-	0.5+	970304 704	0.1+	0.6-
900918 675	0.7+	0.4-	940711 809	0.5+	0.1-	970304 704	0.2+	0.9-
900920 675	0.5+	2.0-	940712 809	0.8+	0.9-	970305 704	0.4+	0.4-
900920 675	0.2-	1.5-	940712 809	0.5+	0.4-	970305 704	0.1+	0.7-
900928 675	0.5-	0.6+	940712 809	0.7-	1.0-	970306 704	0.0	0.1+
900929 095	(2.4+	0.9-)	951025 905	0.7-	0.7+	970306 704	0.1+	0.3+
920204 675	0.5-	1.2-	951025 905	0.2-	0.3-	970327 689	0.7-	0.3+
920204 675	0.9-	1.2-	951026 905	1.6+	0.6+			

(7763)* 1990 UT₅ = 1994 RE₁

Discovered 1990 Oct. 16 by E. W. Elst at the European Southern

Observatory.

Id. T. Urata (*MPC* 23975)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	267.23845	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21718181	ω 181.11615	+0.37802158	+0.92248995
<i>a</i>	2.7410718	Ω 111.09899	-0.84875133	+0.37905141
<i>e</i>	0.0680088	<i>i</i> 4.80684	-0.36975785	+0.07302271
<i>P</i>	4.54	<i>H</i> 12.3	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

491123 675	0.3+	0.6-	901115 809	0.7+	0.4-	940909 905	0.9+	0.6+
491123 675	0.0	0.4-	901115 809	1.0-	0.6-	940912 675	0.3+	0.5-
880318 675	0.2+	0.3+	901118 809	0.8-	0.6+	940912 675	0.2-	0.8-
880318 675	0.0	0.1-	901118 809	1.5-	0.3+	941001 675	0.1+	0.9-
901016 809	0.1+	0.5+	901118 809	1.7-	0.6+	941001 675	0.1-	0.8-
901016 809	0.3+	1.1-	901120 809	1.5+	0.5+	970304 886	1.0-	1.8-
901016 809	1.8-	1.2-	901120 809	0.6+	0.7+	970304 886	(0.3-	2.7-)

901024 400	(2.9+	2.7+)	901120 809	0.2+	0.7+	970305 886	0.2+	0.7-
901024 400	1.6+	1.2+	940803 675	0.4+	0.4-	970305 886	0.3-	0.0
901113 809	0.5+	0.1-	940803 675	0.1-	0.0	970426 689	0.4-	0.8-
901113 809	0.3-	0.4-	940907 905	0.4+	0.6-	970427 689	0.5-	1.2-
901113 809	1.7+	1.2-	940907 905	(2.4-	0.2+)	970513 689	0.1-	0.4-
901115 809	0.4-	0.4-	940909 905	0.2-	0.2-			

(7764)* 1991 AB = 1994 WW₁

Discovered 1991 Jan. 7 by S. Inoda and T. Urata at Karasuyama.

Id. T. Urata (*MPC* 24389)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	228.30776	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.22648922	ω 269.26654	+0.77576502	-0.60848738
<i>a</i>	2.6654529	Ω 128.19706	+0.62967363	+0.72915889
<i>e</i>	0.1997016	<i>i</i> 12.27834	+0.04122819	+0.31316198
<i>P</i>	4.35	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

910107 889	0.1+	0.7-	941219 887	0.1+	0.0	970526 689	0.8-	1.8+
910107 889	1.1-	1.3-	941219 887	0.0	0.2+	970607 385	0.1+	0.4-
910107 889	0.5-	1.2+	941219 887	0.0	0.1+	970607 385	0.3+	0.5-
910109 885	(6.3-	2.6-)	950101 385	0.2+	0.3+	970702 385	0.7-	0.4+
910109 885	(5.0-	1.2-)	950101 385	0.2+	0.4+	970702 385	0.4-	0.1-
910115 889	(1.8-	2.7+)	960318 801	0.3+	0.0	970705 566	0.7-	0.8+
910115 889	0.3-	1.4+	960318 801	0.4+	0.0	970705 566	0.2-	0.6+
910118 889	0.5+	0.6+	960412 385	1.3-	1.6-	970705 566	0.3+	0.9+
910118 889	0.3+	0.9+	960412 385	1.6-	1.0-	970707 910	0.2+	0.7+
910120 889	0.6+	0.7+	960412 385	0.2-	0.5-	970707 910	0.1-	0.7+
910120 889	0.9+	1.0+	960413 385	0.4-	0.3-	970707 910	0.1+	0.8+
910217 385	(2.7-	0.1+)	Y 960413 385	0.1-	0.3-	970708 824	0.7-	0.1-
910217 385	(1.5-	3.8+)	Y 960413 385	0.4-	0.1-	970708 824	(2.3-	0.4+)
910219 889	0.7-	0.9+	Y 960419 801	1.0+	0.2-	970708 824	(2.4-	0.2+)
941124 905	1.1-	0.5+	960419 801	0.1-	0.6-	970708 910	0.9+	0.1+
941124 905	0.3-	0.2+	960510 385	0.5+	1.2-	970708 910	0.6+	0.2+
941126 905	0.5-	0.2-	960510 385	0.7-	0.8-	970708 910	0.7+	0.3+
941126 905	0.5+	0.1+	960510 385	0.6+	0.5+	970709 910	0.6+	0.0
941126 905	0.1-	0.2+	960515 385	0.2+	0.8+	970709 910	0.6+	0.1+
941206 905	0.1-	0.1+	960515 385	0.6+	0.8+	970709 910	0.9+	0.6+
941206 905	0.5+	0.0	960515 385	0.8+	0.7+			

(7765)* 1991 AD = 1954 WT = 1981 YE₁ = 1982 BN₁₂ = 1985 UB₁

Discovered 1991 Jan. 8 by Y. Kushida and O. Muramatsu at the Yatsugatake

South Base Observatory.

Id. S. Nakano (*MPC* 17831)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	227.66920	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.22253099	ω 125.60400	+0.87865805	-0.45886011
<i>a</i>	2.6969675	Ω 262.04149	+0.38354608	+0.84292985
<i>e</i>	0.1755328	<i>i</i> 7.65572	+0.28434563	+0.28092109
<i>P</i>	4.43	<i>H</i> 12.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

541118 210	(59.8-	31.9-)	X 910109 896	1.8+	0.1+	950130 801	1.1+	0.1+
811230 704	(1.8+	7.2-)	910113 896	(5.4+	1.4+)	950130 801	0.2+	0.3-
811231 704	(1.6-	4.1-)	910117 675	1.5-	1.7+	950131 801	0.1-	0.8-

820101	704	(30.0+ 22.8+)	910122	896	1.4+	0.0	950131	801	0.3-	0.3-
820123	095	0.8- 0.7-	910122	896	1.6+	0.7+	960420	413	0.3+	0.7-
851024	046	1.5+ 0.6-	930724	801	0.7-	1.2+	960420	413	0.8-	0.4-
880514	675	0.5+ 0.2+	930724	801	0.6-	0.2+	960422	413	0.0	0.2-
890802	675	0.1+ 0.5+	940908	801	1.4-	0.3-	970409	689	0.6+	0.6+
890802	675	0.1- 0.0	940908	801	0.3-	0.2+	970426	689	1.6-	0.4-
890903	675	0.7- 0.2+	941103	801	1.2+	0.3-	970603	566	0.8+	0.3+
890903	675	0.5- 0.2+	941103	801	0.9+	1.0+	970603	566	1.3+	0.4+
910108	896	1.2- 0.9+	941127	675	1.2-	1.0+	970603	566	0.4+	0.2+
910108	896	0.3- 0.0	950126	801	0.2-	0.1-				
910109	896	1.0- 1.1+	950127	801	0.2-	0.2+				

(7766)* 1991 BH₂ = 1986 EJ₅

Discovered 1991 Jan. 23 by K. Endate and K. Watanabe at Kitami.

Id. H. Kaneda (*MPC* 17969)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	96.34846	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.18444866	ω 117.42026	-0.15660664	-0.98575734	
<i>a</i>	3.0564623	Ω 341.28558	+0.82525485	-0.09650829	
<i>e</i>	0.0854404	<i>i</i> 11.01302	+0.54261293	-0.13772657	
<i>P</i>	5.34	<i>H</i> 12.1	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

860306	809	0.2+ 0.3-	910204	400	(4.0+ 4.7+)	951228	400	0.1-	1.1+
860306	809	0.8- 0.2-	910220	400	0.8- 0.7+	960121	801	0.2-	0.6-
860307	809	0.8- 0.9-	910220	400	1.2+ 1.1+	960121	801	0.3-	0.9-
860307	809	1.1- 1.4-	941002	397	1.0+ 0.3+	960218	801	0.3-	0.6-
860311	809	0.2+ 1.1-	941002	397	1.5+ 0.8+	960218	801	0.2+	0.1+
860311	809	0.9- 1.2-	941002	397	1.6- 1.5-	970118	599	0.4-	1.4+
910123	400	(3.3+ 3.5+)	941002	397	0.1+ 1.2-	970118	599	0.0	0.9+
910123	400	(3.7+ 3.0+)	951220	400	0.4+ 0.3+	970427	689	1.8+	0.9+
910203	400	(7.6+ 3.2+)	951220	400	0.8+ 0.8+				
910204	400	(1.1+ 2.6+)	951228	400	0.3+ 0.4+				

(7767)* 1991 RB₅ = 1973 YS = 1980 TQ₆

Discovered 1991 Sept. 13 by F. Börngen and L. D. Schmadel at Tautenburg.

Id. T. Urata (*MPC* 19314)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	198.51107	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.26992610	ω 23.79420	+0.97626994	-0.21557990	
<i>a</i>	2.3712252	Ω 348.59786	+0.17824383	+0.85381481	
<i>e</i>	0.1331135	<i>i</i> 5.96658	+0.12298834	+0.47384129	
<i>P</i>	3.65	<i>H</i> 14.2	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

731220	095	(6.1- 5.5+)	910915	675	0.6- 0.1-	911015	881	0.7+	0.7+
801008	095	0.7+ 0.5-	910915	675	0.8- 1.6-	951227	611	0.1+	0.4+
801012	095	1.1- 1.1+	910916	675	0.3+ 0.1-	951227	611	0.0	0.2-
910910	675	0.4+ 0.8-	910916	675	1.1+ 1.8-	951228	611	0.2-	0.3-
910910	675	0.6+ 0.3-	910916	095	(2.3- 3.3+)	970311	809	0.2-	1.5+
910913	033	0.3+ 0.2+	910916	095	(2.3- 1.8+)	970311	809	0.4-	1.4+
910913	033	0.7- 0.1-	910918	033	0.4+ 1.3+	970311	809	0.5-	0.7+
910913	675	0.6- 0.6+	911004	046	(1.1- 4.3-)	970312	809	1.6+	0.0
910913	675	0.3- 0.4-	911004	046	(0.5- 3.5-)	970312	809	1.2+	0.6-
910913	033	0.1- 0.6+	911007	033	0.2+ 1.1-	970312	809	1.2+	0.4-

910914	033	0.2+ 0.8+	911007	033	(3.2- 0.2+)	970331	704	0.4-	0.3+
910914	095	0.2+ 1.3+	911008	033	(2.6- 0.4+)	970331	704	0.7-	1.3+
910914	095	1.2- 1.0+	911009	033	1.7- 0.7+	970403	704	0.6+	0.3-
910915	033	0.9+ 0.6+	911013	881	(2.6+ 0.4+)Y	970403	704	0.3+	0.9+
910915	033	0.9- 0.5+	911015	881	0.0 1.5+				

(7768)* 1991 SX₁ = 1983 CQ₁ = 1983 CB₂ = 1993 BR₅

Discovered 1991 Sept. 16 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 22234)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	122.66043	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.29642701	ω 154.15147	-0.51983525	-0.85408560	
<i>a</i>	2.2277042	Ω 327.16139	+0.77804408	-0.46485447	
<i>e</i>	0.0300534	<i>i</i> 1.85795	+0.35273039	-0.23334121	
<i>P</i>	3.32	<i>H</i> 13.8	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

551025	675	0.3- 0.5+	930127	010	0.4- 1.2+	930223	010	1.3-	1.8-
551025	675	0.5+ 0.6-	930127	010	0.3+ 0.6+	951215	411	0.1+	0.4+
830204	046	0.5- 0.9-	930128	010	0.9+ 1.2+	951215	411	0.0	0.3+
830204	046	(3.8+ 2.1-)	930128	010	1.2+ 0.6+	960109	411	0.6+	0.5+
830215	046	(1.2- 3.7-)	930128	010	0.7+ 1.6+	960109	411	0.8+	0.6+
830215	046	0.6+ 0.5-	930218	511	0.7- 0.9-	970427	689	(2.5+ 0.3+)	
910907	691	1.5- 1.1-	930219	511	(2.1- 1.6-)	970512	689	1.0+	1.6+
910907	691	(2.1+ 3.0-)	930219	511	(2.5+ 1.9-)	970513	689	0.3-	0.6-
910910	675	0.0 1.0-	930219	511	(1.9- 3.1-)	970526	689	0.8-	0.5-
910910	675	0.5+ 0.7-	930220	010	1.2- 1.7-	970527	689	1.2+	0.2-
910916	675	1.1+ 1.5-	930220	010	1.3- 2.0-	970610	104	0.0	0.2-
910916	675	0.8+ 0.7-	930220	010	(1.5- 2.2-)	970610	104	(2.3- 1.5-)	
930127	010	0.0 0.1-	930222	010	1.4- 2.0-				

(7769)* 1991 VF₄ = 1968 UY₁ = 1972 XH = 1976 YO₅ = 1980 XW₂

Discovered 1991 Nov. 4 by S. Otomo at Kiyosato.

Id. S. Nakano (*MPC* 19682)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Nakano			
<i>M</i>	207.29872	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.25954542	ω 263.88995	+0.98316761	+0.13385330	
<i>a</i>	2.4340368	Ω 88.36994	-0.07415936	+0.91441188	
<i>e</i>	0.1470254	<i>i</i> 7.14655	-0.16697854	+0.38201336	
<i>P</i>	3.80	<i>H</i> 13.2	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

681023	095	2.0+ 1.8-	911126	400	(2.3+ 1.4+)	960216	327	1.8+	1.2+
721202	095	0.8- 0.5+	911130	400	(1.6+ 3.2+)	960216	327	0.7+	0.1-
761218	095	0.5- 0.1+	911130	400	(2.5+ 1.3-)	960216	327	0.0	0.5+
801210	095	0.0 1.6-	930217	657	0.2+ 0.1+	960219	801	0.0	0.3+
890202	675	1.1- 0.1-	930217	657	0.2+ 0.6-	960219	801	1.4+	0.3-
890202	675	1.1- 1.6-	930217	657	0.1- 0.3-	970302	327	0.2-	0.2-
911104	894	0.1- 1.0-	951201	894	0.9+ 0.2+	970302	327	0.7+	0.2-
911104	894	0.9- 0.5-	951201	894	0.2- 0.1-	970302	327	0.2-	0.3-
911110	894	0.7- 0.8-	951227	894	0.9- 0.4+	970309	689	0.2-	0.6-
911110	894	1.0- 0.7+	951227	894	0.7- 1.5+	970408	689	1.0-	0.6+
911112	894	0.0 0.3+	960215	327	0.0 0.1-	970409	689	1.3+	1.4+
911112	894	0.3+ 0.5+	960215	327	0.0 0.2+				
911126	400	0.6+ 0.1+	960215	327	0.2+ 0.8+				

(7770)* 1992 EQ₈ = 1992 GB₈ = 1950 TA₂ = 1969 OP = 1975 VR
= 1977 CT₂ = 1987 CC = 1987 DY = 1994 QU

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. K. Kinoshita (*MPC* 23979), T. Kobayashi (*ibid.*), T. Urata (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	177.18293	ω	270.57517	+0.99764357	−0.03615493		
<i>a</i>	2.8945860	Ω	91.49778	+0.05634774	+0.91664913		
<i>e</i>	0.0790904	<i>i</i>	3.34399	−0.03914385	+0.39805425		
<i>P</i>	4.92	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

501015	024	0.4−	0.3+	940812	809	0.3+	0.1+	940906	809	0.2−	1.7−
690717	095	1.7+	1.4−	940812	809	0.3+	0.2+	940909	675	0.2+	0.8+
751101	095	(3.5−	1.4+)	940813	809	0.7+	0.3+	940909	675	0.0	0.9+
770211	675	1.3−	1.1−	940813	809	0.8+	0.9−	941001	675	1.2−	0.1+
770212	675	0.7−	0.8−	940813	809	1.0+	0.7−	941001	675	0.0	0.4+
870202	033	0.5+	0.9−	940829	905	0.5+	0.6−	951224	566	0.7+	0.0
870202	033	0.8+	1.3−	940829	905	0.9+	0.3−	951224	566	0.7+	0.0
870225	046	2.2−	2.4−	940901	905	(4.2+	1.5+)	951224	566	0.2+	0.3−
870225	046	1.9−	1.5−	940905	809	1.4−	1.7−	970405	568	0.4−	0.1+
920302	809	0.1−	0.3−	940905	809	(1.2−	2.1−)	970410	658	0.7+	0.0
920305	809	0.2−	0.6−	940905	809	1.8−	1.9−	970410	658	0.9+	0.1+
920307	809	0.4−	0.2+	940905	905	(4.4+	2.3+)	970410	658	1.0+	0.0
920404	809	0.3−	0.3−	940906	809	0.3+	1.1−	970426	689	0.2−	1.2+
940812	809	0.6+	0.2+	940906	809	0.1−	1.3−				

(7771)* 1992 EZ₉ = 1992 EV₃ = 1985 PO₁ = 1989 OY

Discovered 1992 Mar. 2 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

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	358.38103	ω	60.96798	−0.52933001	+0.84840764		
<i>a</i>	2.6584243	Ω	177.06362	−0.80176241	−0.49876433		
<i>e</i>	0.0203092	<i>i</i>	4.22089	−0.27746490	−0.17730939		
<i>P</i>	4.33	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

850814	010	0.8−	0.9−	920406	809	0.9−	1.2+	970503	809	(3.5+	2.6+)
850816	010	(0.8+	4.2+)	941107	675	0.1+	0.2+	970503	809	(3.8+	2.6+)
850824	010	0.7+	1.5+	941107	675	0.8−	0.8−	970503	809	(3.9+	3.0+)
890729	675	0.1−	1.6−	960214	587	0.1−	0.1+	970504	809	(3.3+	2.0+)
890729	675	1.1+	0.9−	960214	587	0.4−	0.0	970504	809	(2.8+	2.4+)
920225	675	0.8+	1.0−	960215	587	0.1+	0.3−	970504	809	(3.1+	1.5+)
920225	675	0.4−	0.6−	960215	587	0.0	0.0	970510	691	0.3−	0.3−
920302	809	0.4−	0.3+	960219	801	0.1+	0.7−	970510	691	0.5−	0.5+
920304	809	0.4−	0.0	960219	801	1.3+	1.0−	970510	691	0.8−	0.5+
920307	809	0.0	0.0	970502	691	0.5−	0.0	970610	689	1.2+	0.3−
920313	493	(6.8+	3.9−)Y	970502	691	0.5−	0.1−	970611	689	1.9+	0.3−
920313	493	(9.3+	5.9−)Y	970502	691	0.4−	0.2+				

(7772)* 1992 EQ₁₅ = 1955 UU = 1969 OJ₁ = 1974 OD₁ = 1979 OC₁₆
= 1989 QD

Discovered 1992 Mar. 1 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. K. Kinoshita (*MPC* 25640)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	205.54614	ω	168.89548	+0.96938964	+0.24549887		
<i>a</i>	2.8814467	Ω	176.88570	−0.23021992	+0.91414975		
<i>e</i>	0.1777662	<i>i</i>	3.95389	−0.08533768	+0.32258415		
<i>P</i>	4.89	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

551020	760	0.1−	1.0+	740719	808	0.5+	0.1−	940911	894	0.4−	0.2+
551020	760	0.4−	0.4+	790731	095	1.1−	1.5−	940911	894	0.5−	0.2+
690720	074	(5.9−	1.5−)	890828	403	0.6+	0.5−	970302	684	0.0	0.2+
690720	074	1.7−	0.2+	890828	403	1.7+	0.7−	970302	684	0.1+	0.2+
690720	074	1.6+	1.0+	890829	403	0.1−	0.4−	970303	684	0.1−	0.2+
690720	074	(3.1−	0.4−)	920301	809	0.2+	0.6+	970303	684	0.2−	0.0
690720	074	0.9−	0.4+	920303	809	0.6−	0.3−	970303	684	0.1−	0.1+
690720	074	2.1+	0.9+	920306	809	0.9+	0.4−	970327	689	0.4+	1.4−
740719	808	0.9−	0.0	920407	809	0.7−	0.3+				

(7773)* 1992 FS = 1980 TN₉ = 1989 TV₁₂

Discovered 1992 Mar. 23 by K. Endate and K. Watanabe at Kitami.

Id. H. Kaneda (*MPC* 20155)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	335.12322	ω	245.70037	+0.20591547	+0.97678766		
<i>a</i>	2.7228238	Ω	36.34007	−0.85783249	+0.20920761		
<i>e</i>	0.1404614	<i>i</i>	5.71716	−0.47087390	+0.04602211		
<i>P</i>	4.49	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

510204	675	1.0−	1.4−	920324	400	(1.5−	2.9−)	930815	675	0.3−	0.0
560310	675	(11.3−	4.5+)	920324	400	0.6+	1.5−	960313	400	1.1−	0.1+
560310	675	(11.0−	4.3+)	920326	399	(3.3−	1.1+)	960313	400	0.4+	0.4+
801013	095	0.0	0.6+	920326	399	1.4−	0.6−	960318	801	0.0	0.0
890929	675	0.8−	0.8+	920328	400	(3.9+	1.9+)	960318	801	0.1−	0.0
890929	675	0.6−	0.1+	920328	400	0.5−	0.5−	960322	801	0.2−	0.6−
891003	809	0.7+	1.9−	920423	400	1.3+	0.1+	960322	801	0.5−	0.3−
891003	809	1.2+	1.8−	920423	400	1.8+	0.1−	970408	689	1.2−	0.7+
891003	809	1.2+	1.5−	930721	675	0.9+	0.7−	970409	689	1.2−	0.1−
920323	400	(2.8−	2.5+)	930721	675	0.7+	0.4+	970531	367	0.3−	1.3−
920323	400	(3.2−	1.0−)	930815	675	0.3−	0.0	970531	367	0.1+	1.0−

(7774)* 1992 UU₂ = 1975 UN

Discovered 1992 Oct. 19 by K. Endate and K. Watanabe at Kitami.

Id. S. Nakano (*MPC* 21273)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	116.55256	ω	324.56768	+0.77928533	−0.61772382		
<i>a</i>	2.2644918	Ω	73.92814	+0.59730431	+0.68123267		
<i>e</i>	0.1850728	<i>i</i>	6.30368	+0.18958359	+0.39286046		
<i>P</i>	3.41	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

751030 033	0.3+	0.4+	921026 400	0.2+	0.6-	940403 675	0.9-	1.7-
751031 033	0.5-	0.1+	921026 400	0.4+	0.1+	940403 675	0.6-	1.4-
910518 675	0.2+	0.6+	921101 400	0.0	0.5+	970114 599	0.9+	0.4-
910518 675	0.0	0.1-	921101 400	(1.2-	3.6+)	970114 599	1.0+	0.3+
920930 675	0.5+	0.0	921126 675	0.0	1.4-	970130 327	0.2-	0.8+
920930 675	0.4+	0.0	921126 675	0.5+	0.2-	970130 327	0.6-	0.8+
921003 675	0.1+	0.1-	921128 675	0.5-	1.2-	970130 327	1.1-	0.9+
921003 675	0.3+	0.1-	921128 675	0.2-	1.4-	970327 689	1.4+	0.1-
921019 400	0.6+	0.6+	940331 400	0.4-	0.9-			
921019 400	0.6-	0.5-	940331 400	0.9-	1.4-			

(7775)* 1992 XD = 1972 EF = 1979 YG₃

Discovered 1992 Dec. 4 by Y. Kushida and O. Muramatsu at the Yatsugatake South Base Observatory.

Id. S. Nakano (*MPC* 21598)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	34.63803		(2000.0)	P	Q
<i>n</i>	0.22578269	ω	116.66469	+0.80981632	-0.58180323
<i>a</i>	2.6710107	Ω	279.00423	+0.50743028	+0.75919936
<i>e</i>	0.1823179	<i>i</i>	4.38496	+0.29446910	+0.29175560
<i>P</i>	4.37	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

720314 095	0.6+	1.2+	921229 896	1.4+	1.6+	961006 072	0.1-	0.4+
791224 095	(11.5-	3.2-)	921229 896	0.6+	0.5+	961006 072	0.3-	0.3+
921126 896	2.1-	0.1-	Y 940312 675	1.6+	0.1+	961102 563	0.0	0.5-
921126 896	0.3-	0.5-	940312 675	1.2+	1.0-	961102 563	0.1-	1.1-
921204 896	2.0+	1.4-	940405 675	1.5-	1.5+	961102 563	0.1-	0.6+
921204 896	0.5+	0.4-	940405 675	0.6-	1.0+	961102 563	0.7+	0.7-
921215 896	2.3-	0.7+	960916 072	0.3-	1.8+			
921215 896	0.1+	0.2-	960916 072	0.7-	1.6+			

(7776)* 1993 BF = 1981 RJ = 1995 UM₄

Discovered 1993 Jan. 20 by T. Urata at the Nihondaira Observatory.

Id. T. Urata (*MPC* 25959)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	211.30045		(2000.0)	P	Q
<i>n</i>	0.29046068	ω	39.74588	+0.97632484	+0.17511300
<i>a</i>	2.2581068	Ω	309.69643	-0.21521795	+0.84529577
<i>e</i>	0.1572501	<i>i</i>	9.49933	+0.02170348	+0.50478757
<i>P</i>	3.39	<i>H</i>	12.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

810904 688	0.3+	1.5-	930321 801	0.2+	0.9-	951116 385	0.3+	0.1+
810904 688	1.3+	1.6-	930321 801	0.6-	0.5-	951117 887	0.9+	0.6-
881107 675	0.5-	0.6+	930327 801	0.4-	0.4+	951117 887	0.3-	0.6-
881107 675	0.9-	0.9+	930327 801	0.3-	0.2+	951117 887	0.2+	0.5-
930120 385	0.1-	0.5+	951020 385	0.0	0.1+	951117 385	0.2+	0.2+
930120 385	0.4+	0.0	951020 385	0.1+	0.0	951117 385	0.1+	0.1+
930121 385	0.1+	0.4+	951020 385	0.0	0.0	951117 385	0.2+	0.3+
930121 385	0.3+	1.5-	951021 385	0.0	0.1+	970214 385	0.1-	0.2+
930128 385	(2.2+	1.2-)	951021 385	0.0	0.0	970218 385	0.4-	0.3-
930128 385	0.2-	0.4-	951021 385	0.1+	0.1-	970218 385	0.2+	0.0
930131 885	0.7-	0.4+	951026 905	0.1-	0.0	970305 385	0.6+	0.4-

930131 885	1.0-	0.2+	951026 905	0.7-	0.2+	970305 385	0.4+	0.3-
930214 385	0.1+	0.5-	951027 905	0.3-	0.6+	970426 689	0.1-	0.1-
930214 385	0.3-	0.1-	951027 905	0.5-	0.0	970427 689	1.0-	0.9+
930215 385	0.3-	1.4-	951116 385	0.1+	0.1-			
930215 385	1.7+	0.1+	951116 385	0.2+	0.2-			

(7777)* 1993 CO₁

Discovered 1993 Feb. 15 by S. Ueda and H. Kaneda at Kushiro.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	100.81522		(2000.0)	P	Q
<i>n</i>	0.27925049	ω	268.24788	-0.56411009	-0.82465880
<i>a</i>	2.3181423	Ω	216.19369	+0.78272992	-0.51809851
<i>e</i>	0.1034705	<i>i</i>	4.02454	+0.26289478	-0.22696209
<i>P</i>	3.53	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

900526 675	1.5+	0.4-	930318 399	0.4-	0.4+	951121 399	(3.6-	0.2+)
900526 675	0.9+	0.5-	930318 399	0.8-	0.6+	970503 809	0.5+	1.1+
910915 691	1.2-	0.6+	930324 675	(1.8+	2.9-)	970503 809	0.5+	1.3+
910915 691	0.9-	0.2+	930324 675	0.5+	1.1-	970503 809	0.3+	0.2-
910915 691	0.8-	0.3+	951115 411	0.7+	2.2+	970504 809	(1.3+	3.0+)
930215 399	0.3-	0.4+	951115 411	1.2+	0.6+	970504 809	(0.2+	2.0+)
930215 399	1.0-	0.0	951116 399	(3.3-	2.4+)	970504 809	(1.0+	2.3+)
930221 399	1.3+	0.2+	951116 411	1.3+	0.7+	970607 809	0.0	1.6+
930221 399	0.4-	0.6-	951116 399	1.9-	1.9+	970607 809	0.5-	2.1+
930225 399	0.8-	1.3+	951116 411	1.6+	0.8+	970607 809	0.2-	1.3+
930225 399	1.0-	1.5+	951117 399	0.7-	1.1+	970608 809	0.3+	1.2+
930312 399	1.0+	0.4-	951117 399	1.3-	0.7+	970608 809	0.1+	0.7+
930312 399	0.9+	0.6-	951121 399	(3.1-	2.6+)	970608 809	0.0	0.7+

(7778)* 1993 HK₁ = 1979 YT₃ = 1982 KG = 1990 UO₁₁ = 1990 VB₂

Discovered 1993 Apr. 17 by C. S. Shoemaker at Palomar.

Id. G. V. Williams (*MPC* 22488)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	331.87167		(2000.0)	P	Q
<i>n</i>	0.26791181	ω	96.63489	+0.74324396	+0.62575733
<i>a</i>	2.3830957	Ω	224.97280	-0.66488383	+0.73016204
<i>e</i>	0.3276952	<i>i</i>	19.56471	+0.07428262	+0.27439234
<i>P</i>	3.68	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

791218 095	1.8+	2.1-	930418 675	0.0	0.4+	970605 801	0.4+	0.2+
820519 801	0.8-	0.8+	930521 675	0.1+	0.2+	970605 127	0.4+	0.2-
901017 095	(3.4-	1.2+)	930521 675	0.2+	0.6-	970605 127	0.5+	0.2+
901017 095	(7.5-	15.8-)	930524 675	0.1+	0.4-	970606 801	0.5+	0.1-
901114 403	1.0-	0.8-	Y 930524 675	1.3+	0.1-	970606 801	0.5+	0.2-
901114 403	(5.7-	5.3-)	Y 941103 801	0.6+	0.8+	970609 127	0.2+	0.2-
901115 403	(3.5-	3.3-)	Y 950201 689	0.1+	0.3-	970609 127	0.4+	0.0
901115 403	(3.1-	3.1-)	950202 689	0.1-	1.4-	970610 689	1.0-	0.1-
901115 095	(9.0+	10.1+)	950203 689	0.4+	0.6-	970611 689	(2.6-	0.3-)
901115 095	1.2-	0.1+	970526 689	1.3-	0.9-	970706 130	0.2-	0.5+
901122 403	(4.2-	1.0-)	970527 689	0.7-	0.3+	970706 130	0.4-	0.3+
901122 403	(5.3-	1.8-)	970603 127	0.3+	0.3-	970706 130	0.3+	0.1-
930417 675	1.2-	1.5-	970603 127	0.2+	0.5-	970711 630	0.4-	0.2+
930417 675	0.9-	0.3-	970605 801	0.5+	0.3+	970711 630	1.1+	1.6-

(7779)* 1993 KL = 1991 VK₁₆

Discovered 1993 May 19 by J. B. Child at Palomar.

Id. G. V. Williams (*MPC* 22489)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	58.55681		(2000.0)	P	Q
<i>n</i>	0.27284410	ω	149.84412	-0.93384186	+0.18933667
<i>a</i>	2.3542884	Ω	44.57410	-0.34713177	-0.68430958
<i>e</i>	0.2180691	<i>i</i>	25.61935	+0.08624916	-0.70418181
<i>P</i>	3.61	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

530314 675	0.0	0.8+	930520 675	1.1-	1.9-	941029 671	1.5-	0.2+
530314 675	0.2+	0.4+	930520 675	0.6+	1.5+	970530 424	0.4-	0.2-
911017 675	0.1-	0.6-	930603 670	0.1+	0.6-	970530 424	0.9-	0.3-
911101 675	0.4+	1.6+	930603 670	0.7+	0.4+	970530 424	0.4-	0.7-
911101 675	0.0	1.7+	930603 670	(2.1-	0.2-)	970607 424	0.5-	0.2-
911103 675	(1.7+	3.4+)	930608 670	0.0	1.1+	970607 424	0.2+	0.2-
911103 675	0.8-	1.4+	930608 670	1.8+	0.1-	970607 424	0.6-	0.1+
911106 691	1.4-	0.7+	930608 670	0.5+	0.5-	970609 424	0.2-	0.3+
911106 691	1.6-	0.5+	930613 674	0.8-	0.4+	970609 424	0.0	0.0
911106 691	1.5-	0.5+	930613 674	0.6-	0.3+	970609 424	0.5-	0.3+
930422 675	(2.6+	0.9+)	940911 671	0.2+	0.2+	970630 424	0.4+	0.6+
930424 675	0.5+	1.6+	940911 671	0.3-	0.1+	970630 424	0.5+	0.0
930424 675	0.8+	1.2+	940911 671	0.2+	0.7-	970703 424	0.5+	1.1+
930426 675	0.5+	1.1-	941029 671	0.0	0.1+	970703 424	0.2+	0.1-
930426 675	1.8+	1.8+	941029 671	0.3+	0.9+	970703 424	1.2+	0.8+
930519 675	0.4-	0.1+	941029 671	0.1+	0.5+			

(7780)* 1993 NJ

Discovered 1993 July 15 by J. B. Child at Palomar.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	18.10413		(2000.0)	P	Q
<i>n</i>	0.24399125	ω	44.74846	-0.40448570	+0.91178596
<i>a</i>	2.5364125	Ω	201.69562	-0.88362885	-0.40964191
<i>e</i>	0.1308627	<i>i</i>	11.06935	-0.23577823	-0.02898051
<i>P</i>	4.04	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

930715 675	0.8+	0.2+	960125 424	0.3-	0.2-	960213 424	0.3+	0.8+
930715 675	0.7+	0.1-	960125 424	0.5-	0.7-	960216 424	1.0+	0.7+
930717 675	(2.7-	0.9-)	960127 424	0.5-	0.6-	960216 424	1.3+	0.0
930717 675	0.5-	0.6-	960127 424	0.0	0.6-	960216 424	1.0+	0.9+
930821 675	0.1-	0.4+	960127 424	0.1-	1.3-	960217 424	0.4+	0.3+
930821 675	1.3-	0.0	960127 424	0.4-	0.3-	960217 424	1.2+	0.8+
930823 675	(3.1-	1.3+)	960127 424	0.3-	1.0-	960217 424	0.6+	1.5+
930823 675	(2.9+	0.8-)	960127 424	0.4-	0.6-	960217 424	1.6-	0.5+
941029 691	0.7-	0.2+	960127 424	0.4-	0.7-	970530 424	0.1+	1.2+
941029 691	0.8-	0.2+	960127 424	0.5-	1.1-	970530 424	0.2-	0.1-
941029 691	0.8-	0.4+	960127 424	0.8-	1.5-	970607 424	0.1+	0.2-
941031 675	1.9+	1.3-	960212 424	0.6-	0.8+	970607 424	0.2-	0.2-
941031 675	1.6-	0.2-	960212 424	0.3+	0.4+	970607 424	0.6+	1.5-
941104 670	1.7+	1.5-	960212 424	0.3+	0.3-	970608 424	0.6+	0.2-
941104 670	0.8-	1.3-	960212 424	0.1+	0.6+	970608 424	1.0+	1.8-
941105 670	0.6+	1.1+	960212 424	0.9+	0.5+	970608 424	0.8-	1.3-
941105 670	1.1+	0.1-	960212 424	0.2+	0.2-	970703 424	0.6-	0.0

941105 670	0.3+	0.3+	960213 424	1.0-	0.9+	970703 424	0.4-	0.0
960123 424	0.2-	1.3-	960213 424	0.5-	0.0	970703 424	0.2-	0.1+
960123 424	0.9-	1.1-	960213 424	0.5+	0.3+	970703 424	0.5+	0.0
960125 424	0.2-	0.9-	960213 424	0.1-	0.0			

(7781)* 1993 QT = 1990 MY

Discovered 1993 Aug. 19 by E. F. Helin at Palomar.

Id. G. V. Williams (*MPC* 22691)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	149.34757		(2000.0)	P	Q
<i>n</i>	0.36007828	ω	336.75575	+0.75972771	+0.64275392
<i>a</i>	1.9567624	Ω	342.12438	-0.53486453	+0.53167757
<i>e</i>	0.0695007	<i>i</i>	18.69614	-0.36977526	+0.55153093
<i>P</i>	2.74	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

540403 675	0.2+	0.0	931014 801	0.0	0.1+	950401 801	0.0	1.2-
540403 675	0.2-	0.0	931014 801	0.1-	0.1-	950420 608	0.6+	1.1+
900622 413	0.8-	0.5-	931019 801	1.1+	0.5+	950420 608	0.2+	0.3-
900622 413	1.0-	0.7+	931019 801	0.2+	0.2+	950426 801	0.0	0.6-
900623 413	1.2+	0.7-	931110 801	0.2+	0.2-	950426 801	0.2+	0.6-
930819 675	0.4+	0.8+	931111 801	0.8-	0.2+	950505 608	0.5+	0.1+
930819 675	0.5+	0.9+	950325 670	0.7+	0.0	950505 608	0.8+	0.1+
930821 675	0.7-	0.6+	950325 670	0.3-	0.1-	960808 608	0.1+	0.5-
930821 675	1.5-	0.2-	950328 801	0.2-	0.5-	960808 608	0.1+	0.5-
930912 675	0.5+	1.2-	950328 670	1.9-	0.9+	960915 801	0.2-	0.0
930912 675	1.2+	0.3-	950328 801	0.2-	0.3-	960915 801	0.4+	0.4-
930915 675	0.7-	1.0-	950328 670	1.2-	0.3+			
930915 675	0.9+	0.9-	950401 801	0.2-	1.2-			

(7782)* 1994 CY

Discovered 1994 Feb. 7 by A. Vagnozzi at Stroncone.

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	236.63814		(2000.0)	P	Q
<i>n</i>	0.17571146	ω	114.14913	+0.94173650	-0.22925711
<i>a</i>	3.1569618	Ω	259.85830	+0.13600645	+0.92878878
<i>e</i>	0.3186771	<i>i</i>	14.47890	+0.30762740	+0.29119164
<i>P</i>	5.61	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

930919 693	1.4-	0.0	940329 589	0.4-	0.8-	950323 589	0.0	0.7+
930919 693	0.2-	0.2-	940329 589	0.3+	0.7-	960414 589	0.2-	0.4+
931024 693	0.9+	0.5-	950129 691	0.5-	1.1-	960414 589	0.6+	0.5-
931024 693	0.4+	0.1-	950129 691	0.4-	0.9-	960414 589	0.9+	0.6+
940207 589	0.3-	0.9-	950129 691	0.4-	1.2-	960415 589	0.7-	0.7-
940207 589	0.3-	0.3+	950201 589	0.3-	0.4+	960415 589	0.1-	0.8-
940207 589	0.1-	0.0	950201 589	0.0	0.4+	960415 589	0.3+	1.0-
940207 589	0.0	1.1+	950201 589	0.1+	0.3+	960416 589	0.7+	1.5-
940209 589	0.3-	0.8-	950201 589	0.3-	0.3+	960416 589	1.7-	1.1-
940209 589	0.3+	0.4-	950202 589	0.6-	0.6+	960416 589	0.0	0.5+
940209 589	0.5+	0.4+	950202 589	0.7+	1.2+	970529 696	0.5+	0.3+
940221 589	1.3+	0.6-	950202 589	0.7-	0.0	970529 696	0.4+	0.0
940221 589	0.6+	0.3+	950203 589	0.2+	0.9+	970529 696	0.5+	0.4+
940221 589	0.7+	1.3+	950206 589	0.5-	1.2+	970530 696	0.7+	0.2+
940221 589	(0.1-	2.7+)	950206 589	1.9+	0.2+	970530 696	0.9+	0.1-

940304 589	0.4−	0.1−	950220 589	0.2+	1.3−	970530 696	0.0	0.1−
940304 589	0.3+	0.8−	950220 589	0.3+	0.9+	970703 691	1.1−	0.0
940305 589	(2.1+ 0.5+)		950227 589	0.2+	0.4−	970703 691	1.4−	0.4−
940305 589	(2.7+ 0.5+)		950227 589	0.4+	0.1+	970703 691	1.2−	0.1−
940305 589	0.4+	0.1−	950323 589	1.1−	0.5+			
940329 589	1.3−	0.5−	950323 589	1.0+	0.2+			

(7783)* 1994 JD

Discovered 1994 May 4 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>	156.47914	(2000.0)	P	Q	
<i>n</i>	0.36636793	ω 14.85659	−0.34039736	−0.85238347	
<i>a</i>	1.9343026	Ω 96.34221	+0.81682527	−0.47717379	
<i>e</i>	0.0772247	<i>i</i> 23.54054	+0.46575328	+0.21388690	
<i>P</i>	2.69	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i>	2

Residuals in seconds of arc

860509 675	0.6−	0.6−	951027 801	0.2+	0.0	970702 704	0.1−	0.4−
860509 675	0.4+	0.3+	951027 801	0.2+	1.0+	970702 704	0.1+	0.6−
940504 693	0.0	0.6+	951225 801	0.1+	0.1+	970702 704	0.2+	0.3+
940504 693	0.6+	0.2+	951225 801	0.0	0.1−	970702 704	0.3+	0.1+
940505 693	0.4−	1.0+	951226 801	0.1+	0.7−	970702 704	0.3+	0.2+
940505 693	0.1+	0.7+	951226 801	0.3+	0.8−	970702 704	0.1−	0.4−
940508 693	0.6+	1.1−	970530 696	0.0	0.3−	970702 704	0.3+	0.2−
940508 693	0.4+	0.4−	970530 696	0.1−	0.4−	970702 704	0.3+	0.1−
940601 693	1.9+	0.6−	970530 696	0.0	0.3−	970702 704	0.1+	0.4−
940601 693	0.3−	1.5−	970628 704	0.4−	0.0	970702 704	0.1−	0.2+
940603 675	0.7+	0.0	970628 704	0.5−	0.5−	970702 704	0.1−	0.1−
940603 675	0.8−	0.2+	970628 704	0.0	0.4−	970702 704	0.2−	0.0
940623 657	0.3−	1.3+	970629 704	0.3+	0.2+	970702 704	0.1−	0.0
940623 657	0.2+	1.1+	970629 704	0.5+	0.1+	970702 704	0.4+	0.1+
940623 657	0.5−	0.9−	970629 704	0.0	0.6+	970702 704	0.1−	0.3−
940704 658	1.2−	0.3−	970629 704	0.1+	0.3+	970703 704	0.6+	0.6+
940704 658	1.1−	0.5−	970629 704	0.1+	1.5+	970703 704	0.1−	0.2+
940704 658	1.0−	0.5−	970702 704	0.1−	0.0	970703 704	0.1−	0.4−
940827 413	0.5−	0.2−	970702 704	0.0	0.1−	970703 704	0.3−	0.8+
940827 413	0.4−	0.2−	970702 704	0.2+	0.1+	970703 704	0.8−	0.5−
951023 801	0.0	0.2−	970702 704	0.2+	0.4+			
951023 801	0.2−	0.4−	970702 704	0.6−	0.3−			

(7784)* 1994 PL

Discovered 1994 Aug. 5 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>	305.24168	(2000.0)	P	Q	
<i>n</i>	0.28863673	ω 106.92282	+0.79504271	+0.54829432	
<i>a</i>	2.2676097	Ω 220.88932	−0.58521659	+0.80582440	
<i>e</i>	0.2359153	<i>i</i> 23.34391	+0.15946357	+0.22365235	
<i>P</i>	3.41	<i>H</i> 13.7	<i>G</i> 0.15	<i>U</i>	1

Residuals in seconds of arc

531008 675	0.1+	0.8+	940929 658	0.6−	0.3+	960204 608	0.9−	0.4−
531008 675	0.2−	0.7+	940929 658	0.6−	0.2+	960208 608	0.9−	0.0
900527 675	1.7−	1.8+	940929 658	0.8−	0.2+	960208 608	0.9−	0.1−

900527 675	0.5+	1.8+	941003 801	1.6+	0.7−	960215 608	0.2+	0.6−
940805 693	1.9−	0.1−	941003 801	0.1+	0.3+	960215 608	0.5+	0.7−
940805 693	0.9−	0.1+	941003 816	0.1+	0.0	960216 608	0.2+	0.4−
940806 693	0.6−	1.0+	941003 816	0.2−	0.1+	960216 608	0.6+	0.3−
940806 693	1.3−	0.1+	941003 816	0.0	0.1+	970526 689	1.8−	0.4+
940807 693	1.1−	0.3−	941006 801	0.4+	0.8−	970527 689	0.5−	0.3−
940807 693	0.6−	0.1−	941006 801	0.2+	1.0−	970529 696	1.2+	0.3+
940810 657	0.4−	0.5+	941008 816	0.4+	0.3−	970529 696	0.6−	0.6−
940810 657	0.3−	0.1+	941008 816	0.5+	0.5−	970529 696	0.2−	0.7−
940810 657	0.3−	0.0	941008 816	0.6+	0.3−	970530 696	0.6−	0.7−
940810 657	0.1+	0.2−	941008 816	0.5+	0.4−	970530 696	0.5−	0.6−
940830 657	0.6−	0.8−	941016 816	0.8+	0.6+	970530 696	0.6−	0.6−
940830 657	0.3−	0.1−	941016 816	0.9+	1.1+	970530 610	(1.9+ 3.4−)	
940830 657	0.1−	0.1−	941016 816	1.3+	0.4+	970530 610	(1.9+ 3.3−)	
940910 693	0.3−	0.6−	941029 675	0.1+	0.2+	970530 610	(2.1+ 3.2−)	
940910 693	0.0	0.6+	941029 675	0.4−	1.5−	970610 104	0.7+	0.1−
940916 693	1.0+	0.3−	941031 801	0.3−	0.8+	970610 104	1.2+	0.2+
940916 693	0.5−	0.3−	941031 801	0.2−	0.9+	970627 610	1.4+	0.1−
940916 693	0.9+	0.5−	941104 801	0.2−	0.1+	970627 610	1.3+	0.4−
940916 693	0.8+	0.4−	941105 801	0.1+	0.1−	970627 610	1.3+	0.6−

(7785)* 1994 QW = 1987 RG₂

Discovered 1994 Aug. 29 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Id. S. Nakano (*MPC* 26403)

Epoch 1997 June 1.0 TT = JDT 2450600.5			Nakano		
<i>M</i>	275.69635	(2000.0)	P	Q	
<i>n</i>	0.28215989	ω 215.00900	+0.98443444	+0.14405786	
<i>a</i>	2.3021796	Ω 136.35800	−0.10850281	+0.94879758	
<i>e</i>	0.1108829	<i>i</i> 8.38820	−0.13826056	+0.28112362	
<i>P</i>	3.49	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i>	1

Residuals in seconds of arc

870901 095	0.2+	0.5−	951206 327	0.2−	0.1+	960315 566	0.1+	0.3−
930323 809	1.0−	1.7−	951206 327	0.3−	0.6+	960316 566	1.0+	0.1−
930416 413	(4.0+ 0.1+)		951215 385	0.8−	0.3−	960316 566	1.1+	0.0
940829 905	0.7−	0.0	951215 385	0.7−	1.6−	960316 566	0.7+	0.4−
940829 905	1.3−	1.6−	951215 385	0.1−	0.3−	960316 566	0.8+	0.1−
940903 905	0.9+	0.7+	951215 385	0.4−	0.5−	960316 566	1.4+	0.2+
940903 905	0.4+	0.4−	951229 385	0.6−	0.2−	960316 566	1.1+	0.3−
940907 905	0.8+	0.3−	951229 385	0.4−	0.3+	970408 689	0.3+	1.6+
940907 905	0.2+	0.2+	951229 385	1.4−	0.2−	970607 385	0.3+	0.2−
940910 905	1.9+	0.2+	960118 327	0.4−	0.2+	970607 385	0.2+	0.0
940910 905	(3.1+ 0.7+)		960118 327	0.4−	0.2+	970607 385	0.2+	0.1−
940911 675	0.9+	0.9−	960118 327	0.0	0.1+	970608 124	0.3−	0.5−
940911 675	0.8−	0.1−	960127 385	0.3+	0.4+	970608 124	0.4−	0.1−
941001 905	1.0−	0.7+	960127 385	0.4+	0.5+	970608 124	0.2−	0.4+
941001 905	1.1−	0.5+	960127 385	0.3+	0.3+	970611 816	0.1−	0.1+
941127 385	0.3−	0.5+	960129 887	0.3−	0.3+	970611 816	0.2+	0.1−
941127 385	0.3+	0.1+	960129 887	0.3−	0.3+	970611 816	0.0	0.2−
941127 385	0.4−	0.3+	960129 887	0.2−	0.4+	970702 385	0.7+	0.0
951201 385	0.3+	0.1+	960129 887	0.7−	0.6+	970702 385	0.4−	0.7+
951201 385	0.6+	0.4−	960315 566	0.2−	0.2−			
951206 327	0.2+	0.3+	960315 566	0.5−	0.4−			

(7786)* 1994 TB₁₅ = 1974 SN₄ = 1986 TF₂

Discovered 1994 Oct. 14 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Id. S. Nakano (*MPC* 24398)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	226.00958		(2000.0)	P		Q	
<i>n</i>	0.24647627	ω	72.22750	+0.78013489		-0.62389338	
<i>a</i>	2.5193353	Ω	326.33012	+0.53766882		+0.70649215	
<i>e</i>	0.2180045	<i>i</i>	4.79376	+0.31984651		+0.33410461	
<i>P</i>	4.00	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

541123 675	0.1-	0.1+	941023 905	1.3+	0.1+	960412 385	0.5+	0.1-
541123 675	0.4-	0.3+	941031 905	0.1-	0.1-	960622 711	0.0	0.3-
740925 095	0.6+	0.8-	941031 905	0.2-	0.3+	960622 711	0.9+	0.3-
861007 688	(2.9+	0.6+)	941111 385	0.3+	0.2-	960625 711	0.4+	0.2+
861007 688	0.2+	0.9+	941111 385	0.1-	0.2-	960625 711	1.1-	0.2+
941014 905	1.0-	0.5+	941111 385	0.5+	0.1-	970515 711	0.0	0.2-
941014 905	0.9-	0.7+	941127 385	0.2-	0.3+	970515 711	0.4+	0.3-
941022 385	0.1+	0.3-	941127 385	0.0	0.4+	970707 711	0.2-	0.4+
941022 385	0.1+	0.5-	941127 385	0.1-	0.2+	970707 711	0.3-	0.3+
941022 385	0.2+	0.4-	960412 385	0.7+	0.4-			
941023 905	0.2-	1.1-	960412 385	1.4-	0.5+			

(7787)* 1994 WW = 1992 DQ₃

Discovered 1994 Nov. 23 by L. Tesi and A. Boattini at San Marcello Pistoiese.

Id. G. V. Williams (*MPC* 24402)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>	306.97812		(2000.0)	P		Q	
<i>n</i>	0.25884207	ω	227.69488	+0.93782968		+0.34024542	
<i>a</i>	2.4384441	Ω	112.30875	-0.29263240		+0.88138336	
<i>e</i>	0.1155906	<i>i</i>	4.25356	-0.18665952		+0.32771393	
<i>P</i>	3.81	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

920226 691	0.9+	0.6+	941129 104	1.1+	0.6+	951220 104	(4.0+	0.5-)
920226 691	0.9+	0.3+	941129 104	0.2+	0.2-	951220 104	(2.6+	1.3-)
920226 691	0.9+	1.0+	941129 104	0.4-	0.7-	951220 104	1.2+	1.2-
920306 691	1.1-	0.4-	941130 104	1.2-	0.5+	960309 104	0.8+	1.0-
920306 691	0.6-	0.3-	941130 104	1.2-	0.4+	960309 104	0.5+	0.5+
920306 691	0.5-	0.2+	941130 104	1.1-	0.3+	960309 104	0.9+	1.3+
941123 104	0.1+	0.3-	941201 691	0.7-	0.2+	960318 104	0.1+	0.2+
941123 104	0.3-	0.1+	941201 691	0.6-	0.3-	960318 104	0.1-	0.2-
941123 104	0.0	0.6+	941201 104	1.1+	0.2+	960318 104	0.9-	0.5-
941123 104	0.3+	0.8+	941201 104	0.0	0.3-	960407 104	0.8-	0.1+
941123 104	0.3-	0.7+	941201 104	0.6-	0.6-	960407 104	0.5-	0.4+
941123 104	0.3+	1.0+	941202 104	1.7-	0.7+	960409 104	0.4-	0.2+
941124 104	0.2+	0.2-	941202 104	0.9-	0.7+	960409 104	0.4+	0.2+
941124 104	0.1-	0.2-	941202 104	0.5+	0.6+	960409 104	1.1+	0.2+
941124 104	0.1-	0.3-	941206 104	0.7-	1.1-	960410 104	0.0	0.0
941124 104	0.1+	0.5-	941206 104	0.7+	1.0-	960410 104	0.0	0.5+
941124 104	0.2+	0.5-	941211 104	0.6-	0.4+	960410 104	0.4-	1.1+
941125 104	0.1-	0.5+	941211 104	0.2+	0.2+	960412 104	0.2-	1.0+
941125 104	0.2-	0.3+	941211 104	0.1-	0.1-	960412 104	0.3-	0.2+
941125 104	0.0	0.1-	941212 104	(0.9-	2.3+)	960412 104	0.1+	0.7-

941125 104	0.1+	0.2-	941212 104	(0.4-	2.1+)	960418 104	0.1-	0.7+
941125 104	0.0	0.3-	941212 104	0.2+	2.0+	960418 104	0.1+	0.9+
941126 104	0.1-	0.1+	941220 104	0.5-	0.7+	960418 104	0.4+	1.0+
941126 104	0.3-	0.1+	941220 104	0.1+	0.7+	970615 104	0.8-	1.2+
941126 104	0.4-	0.1+	941220 104	0.9+	0.7+	970615 104	0.9-	0.0
941126 104	0.3-	0.0	941224 104	1.8+	1.9+	970701 104	1.5+	1.8+
941127 675	0.8-	0.2+	941224 104	1.0-	1.7+	970701 104	1.5+	1.5+
941127 675	1.4+	1.3+	941224 104	(2.9-	1.8+)	970701 104	1.6+	1.3+
941127 104	0.8+	0.4+	941225 104	0.8+	0.5+	970701 104	(2.5+	1.3+)
941127 104	1.1+	0.1+	941225 104	0.5+	0.4+	970706 104	1.1-	1.1+
941127 104	0.8+	0.3-	941225 104	0.2+	0.3+	970706 104	1.2-	1.0+
941128 104	0.9-	0.9-	950102 104	0.1+	0.5-	970706 104	1.2-	1.1+
941128 104	0.6-	0.9-	950102 104	0.1+	0.3-			
941128 104	0.2-	0.8-	950102 104	0.1+	0.1-			

(7788)* 1994 XS

Discovered 1994 Dec. 5 by A. Nakamura at Kuma Kogen.

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Nakano			
<i>M</i>	278.66857		(2000.0)	P		Q	
<i>n</i>	0.18916503	ω	207.07847	+0.89006047		+0.44206557	
<i>a</i>	3.0054452	Ω	126.24666	-0.38927026		+0.86406218	
<i>e</i>	0.1172542	<i>i</i>	7.92698	-0.23719408		+0.24077911	
<i>P</i>	5.21	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

930918 675	0.5-	0.4+	941223 360	0.5+	0.6+	970429 360	0.3+	0.8-
930918 675	0.9-	0.7+	941223 360	0.3+	0.3+	970429 360	0.8+	0.7-
930922 675	1.0+	0.3+	950204 360	0.2+	0.5-	970509 360	0.0	0.3+
930922 675	0.4+	1.4-	950223 360	0.1+	0.7-	970518 327	0.8-	1.1+
941205 360	0.0	0.1+	950223 360	1.0+	0.8-	970518 327	0.9-	0.3+
941205 360	0.2-	0.3+	960215 360	0.2+	0.2-	970518 327	0.5+	1.0+
941205 360	0.2-	0.0	960215 360	0.4-	0.1-	970531 360	0.0	0.7-
941206 360	0.2-	0.6-	960215 360	0.5+	0.0	970531 360	0.1+	0.5-
941206 360	1.7-	0.5+	960228 360	0.0	0.5+	970531 360	0.0	0.6-
941206 360	0.5+	0.8-	960228 360	0.0	0.5+	970604 360	0.1-	0.3-
941209 360	0.1+	0.4-	960228 360	0.1+	0.7+	970604 360	0.1-	0.4-
941209 360	0.2+	0.0	960313 360	0.1-	0.1-			
941209 360	0.1-	0.3+	960313 360	0.2-	0.1-			

(7789)* 1994 XE₆ = 1987 VL₁ = 1989 EJ₁₂ = 1992 CH₈

Discovered 1994 Dec. 2 by E. Bowell at Palomar.

Id. E. Bowell (*MPC* 28854), G. V. Williams (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>	293.18388		(2000.0)	P		Q	
<i>n</i>	0.28285639	ω	60.51524	+0.99256900		-0.10066196	
<i>a</i>	2.2983988	Ω	305.18087	+0.06048664		+0.89566379	
<i>e</i>	0.1629071	<i>i</i>	4.79811	+0.10558474		+0.43318997	
<i>P</i>	3.48	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

871112 327	0.5+	0.8-	920204 675	0.1+	0.4-	941202 675	0.7-	0.9+
871112 327	0.9-	0.8-	941001 675	0.6-	0.8+	941202 675	0.1-	0.7+
871126 675	0.9+	0.2-	941001 675	0.4-	0.5+	970610 689	0.7+	0.2-
871126 675	0.2+	0.1+	941106 675	0.4+	0.6-	970705 566	0.1-	0.4-
890307 675	0.3-	0.2+	941106 675	0.5+	0.6-	970705 566	0.2+	0.5-

890307 675 0.4− 1.3− 941130 675 0.0 0.6− 970705 566 0.1− 0.5−
 920204 675 0.1− 0.2− 941130 675 0.4+ 0.3−

(7790)* 1995 DK₂

Discovered 1995 Feb. 28 at Stroncone.

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	136.56544	(2000.0)	P	Q	
<i>n</i>	0.17794764	<i>ω</i> 37.33840	−0.44749897	−0.88557845	
<i>a</i>	3.1304581	<i>Ω</i> 79.55273	+0.78692230	−0.45606990	
<i>e</i>	0.0996707	<i>i</i> 7.27196	+0.42485052	−0.08804007	
<i>P</i>	5.54	<i>H</i> 13.3	<i>G</i> 0.15	<i>U</i>	1

Residuals in seconds of arc

881106 675 0.8+ 0.4− 950320 589 0.2+ 0.9− 960419 589 0.2+ 0.2+
 881106 675 0.6− 0.2− 950330 589 0.6+ 0.3+ 960419 589 0.5− 0.2+
 930918 675 0.3− 1.8+ 950330 589 0.3− 0.4+ 960420 327 0.0 0.2−
 930918 675 2.0+ 0.7+ 960223 589 1.5− 0.3− 960420 327 0.0 0.4−
 930921 675 1.5− 0.7− 960223 589 0.8− 0.2+ 960420 327 0.1+ 0.2−
 930922 675 0.8+ 0.3− 960225 589 0.3+ 0.2− 960420 327 0.0 0.3−
 930922 675 0.8− 1.8− 960225 589 0.2− 0.0 960420 327 0.6+ 0.2+
 950228 589 0.7− 0.0 960313 589 0.4− 0.3+ 960420 327 0.2+ 0.1+
 950228 589 0.4+ 0.7− 960314 589 0.3+ 0.4− 960420 589 0.2− 0.2+
 950228 589 0.2+ 0.8+ 960314 589 0.6− 0.0 960420 589 0.6+ 0.0
 950303 589 0.3− 0.4− 960417 327 0.3− 0.0 960420 589 0.4+ 0.7−
 950303 589 0.1+ 0.2+ 960417 327 0.5− 0.0 960425 327 1.0+ 0.5+
 950303 589 0.1+ 0.4− 960417 327 0.0 0.0 960425 327 0.1− 0.5+
 950307 589 1.9− 0.6+ 960417 327 0.2+ 0.1− 960425 327 0.1+ 0.5+
 950307 589 0.2− 0.7+ 960418 327 0.0 0.1+ 960506 589 0.3+ 0.6−
 950307 589 1.1+ 0.2+ 960418 327 0.1− 0.5+ 960506 589 0.0 0.3−
 950320 589 0.2+ 0.0 960418 327 0.2− 0.3− 960506 589 0.8+ 0.1−
 950320 589 0.5+ 0.0 960418 327 0.1− 0.2−

(7791)* 1995 EB = 1984 DS₂ = 1984 FQ₁

Discovered 1995 Mar. 1 by M. Tichý at Kleť.

Id. G. V. Williams (*MPC* 25074), N. S. Chernykh (d, *ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	182.68891	(2000.0)	P	Q	
<i>n</i>	0.17712770	<i>ω</i> 328.31494	−0.36432097	−0.92538150	
<i>a</i>	3.1401114	<i>Ω</i> 142.75688	+0.88646598	−0.37901556	
<i>e</i>	0.1687181	<i>i</i> 9.95189	+0.28539149	−0.00403475	
<i>P</i>	5.56	<i>H</i> 13.1	<i>G</i> 0.15	<i>U</i>	1

Residuals in seconds of arc

840226 095 1.0− 2.4− 950325 046 0.4− 0.6+ 960518 046 0.2+ 0.1−
 840329 095 0.1+ 1.1− 950404 046 0.9+ 0.0 960518 046 0.2+ 0.2−
 950301 046 1.2− 0.6− 950404 046 0.6+ 0.1+ 960518 046 0.8+ 0.3−
 950301 046 0.3− 1.1− 950404 046 0.7− 0.7− 960607 046 0.3+ 0.7+
 950301 046 0.2+ 0.3+ 950502 046 0.8− 0.2− 960607 046 0.7+ 0.3+
 950301 046 0.0 0.4+ 950502 046 0.5− 0.3+ 960607 046 0.1− 0.1−
 950301 046 0.3+ 0.3+ 950502 046 0.5− 0.1+ 960611 046 0.5+ 0.5−
 950301 046 0.4+ 0.2+ 950528 046 0.2+ 0.7− 960611 046 0.3− 1.0−
 950305 046 0.1− 0.2+ 950528 046 1.2+ 0.4+ 960611 046 0.5− 0.3−
 950305 046 0.1− 0.3+ 950528 046 0.4+ 0.4+ 970611 046 0.3+ 0.9+
 950305 046 0.3− 0.4+ 960418 046 0.9− 0.1− 970611 046 0.3+ 0.3+
 950306 046 0.1+ 0.1+ 960418 046 0.3− 0.2− 970611 046 0.2+ 0.7+

950306 046 0.2+ 0.3+ 960418 046 0.2+ 0.3− 970702 046 0.9+ 0.8−
 950306 046 0.3+ 0.2+ 960418 046 0.1− 0.1+ 970702 046 0.1− 0.2−
 950310 046 0.5+ 0.4+ 960419 046 0.1− 0.6+ 970702 046 0.1+ 0.2−
 950310 046 0.6+ 0.2+ 960419 046 0.4− 0.6+ 970708 046 0.9− 0.3−
 950310 046 0.0 0.3+ 960419 046 0.6+ 0.7+ 970708 046 0.4− 0.2+
 950325 046 0.1+ 0.5+ 960517 046 0.3− 0.4+ 970708 046 0.4− 0.2+
 950325 046 0.2+ 0.5+ 960517 046 0.6− 0.3−
 950325 046 0.4− 0.5+ 960517 046 0.2− 0.2−

(7792)* 1995 WZ₃ = 1976 KF₁ = 1977 SO₂ = 1991 VL₁₄

Discovered 1995 Nov. 18 by Y. Shimizu and T. Urata at the Nachi-Katsuura

Observatory.

Id. S. Nakano (*MPC* 26409)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Nakano			
<i>M</i>	40.30663	(2000.0)	P	Q	
<i>n</i>	0.28305000	<i>ω</i> 142.74467	−0.90613381	+0.40833977	
<i>a</i>	2.2973506	<i>Ω</i> 61.70331	−0.41197415	−0.79280401	
<i>e</i>	0.1478595	<i>i</i> 7.20048	−0.09591051	−0.45246043	
<i>P</i>	3.48	<i>H</i> 12.8	<i>G</i> 0.15	<i>U</i>	2

Residuals in seconds of arc

760529 095 0.7+ 0.5+ 951118 905 0.4− 0.0 970607 385 0.4− 0.6−
 770919 095 1.4− 0.9− 951125 905 0.4+ 1.0+ 970607 385 0.0 0.4−
 911112 808 1.3+ 0.7− 951125 905 1.0− 0.2− 970607 385 0.7− 0.5−
 911112 808 0.1+ 0.1+ 951212 905 0.1− 0.9− 970611 689 1.2+ 0.9−
 940907 675 0.1+ 0.1+ 951212 905 1.2− 0.4− 970704 385 1.3+ 0.2+
 940907 675 0.6− 0.0 951221 905 0.6+ 0.6− 970704 385 0.9+ 0.1+
 941001 675 0.1+ 1.7+ 951221 905 1.0+ 0.7− 970704 385 0.2+ 0.6−
 941001 675 0.8+ 0.1− 970531 905 0.5− 0.2− 970705 385 0.0 0.7+
 951117 905 2.0+ 0.7+ 970531 905 0.6− 0.3+ 970705 385 1.2− 0.6−
 951118 905 0.7− 0.1− 970531 905 0.6− 0.3+ 970705 385 0.9− 0.4−

(7793)* 1995 YC₃ = 1959 CP = 1973 UJ₁ = 1979 YU₇ = 1994 RG₂₉

Discovered 1995 Dec. 27 at Haleakala by the JPL Near-Earth Asteroid

Tracking program.

Id. E. Bowell (*MPC* 28595), G. V. Williams (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5

		Williams			
<i>M</i>	90.09946	(2000.0)	P	Q	
<i>n</i>	0.18519582	<i>ω</i> 3.98940	−0.40011861	−0.91514183	
<i>a</i>	3.0482361	<i>Ω</i> 109.60178	+0.83938679	−0.38748844	
<i>e</i>	0.1167689	<i>i</i> 2.99366	+0.36787893	−0.11121211	
<i>P</i>	5.32	<i>H</i> 12.4	<i>G</i> 0.15	<i>U</i>	1

Residuals in seconds of arc

590215 024 0.6+ 0.8− 940911 675 0.1− 0.1+ 951230 411 0.4− 0.4+
 731026 095 1.6− 1.8− 941104 675 (2.1+ 1.1+) 960107 608 0.2+ 0.5+
 791223 095 0.9+ 1.0− 941104 675 0.6+ 0.9+ 960107 608 0.1+ 0.4+
 880910 675 0.2− 0.2− 951227 566 0.4− 0.4+ 960108 608 0.0 0.5+
 880910 675 0.0 0.2+ 951227 566 0.4− 0.5+ 960108 608 0.1+ 0.5+
 910218 675 0.6− 1.0− 951227 566 0.3− 0.4+ 960110 411 0.2+ 0.3+
 910218 675 0.2+ 0.4+ 951228 608 0.4+ 0.1+ 960110 411 0.3− 0.0
 910219 675 (0.7− 3.6−) 951228 608 0.4+ 0.1+ 970309 689 0.7− 1.0+
 910318 675 1.6− 0.8− 951229 608 0.2+ 0.0 970310 689 0.8+ 0.5+
 910318 675 (3.9+ 2.1−) 951229 608 0.2+ 0.2− 970408 689 0.1+ 0.3+
 940911 675 0.8+ 1.2+ 951230 411 0.4+ 0.4− 970409 689 0.4+ 0.1+

**(7794)* 1996 AD₄ = 1980 TH₆ = 1987 QG₅ = 1987 SM₂₄ = 1987 UF₇
= 1993 HC₈**

Discovered 1996 Jan. 15 by U. Munari and M. Tombelli at Cima Ekar.
Id. G. V. Williams (*MPC* 26908)

Epoch 1997 June 1.0 TT = JDT 2450600.5				Williams			
<i>M</i>	323.39003	(2000.0)		P	Q		
<i>n</i>	0.28231090	ω	85.81462	+0.60612523	+0.79264334		
<i>a</i>	2.3013585	Ω	221.72979	-0.76332364	+0.55646684		
<i>e</i>	0.1475793	<i>i</i>	5.67268	-0.22349325	+0.24912084		
<i>P</i>	3.49	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

801008 095	0.4-	0.8+	960115 098	0.2+	1.2+	960224 098	2.0+	0.2+
870831 010	(1.1-	3.0-)	960115 098	0.1+	0.9-	960314 098	0.8+	2.0+
870831 010	0.6+	1.3-	960116 098	(2.5+	1.2-)	960314 098	0.4+	1.0+
870923 095	1.7+	0.1-	960117 098	0.1-	1.8-	970530 098	0.8+	0.0
871023 095	2.2-	1.0+	960117 098	0.2+	1.0+	970530 098	1.2+	0.5+
921202 691	0.8+	0.5+	960118 098	0.2-	0.5+	970531 108	0.6-	0.8-
921202 691	0.4-	0.1+	960119 098	0.2-	0.2+	970531 108	0.1+	1.3+
921202 691	0.1-	0.7-	960119 098	0.3-	1.2-	970703 108	0.2-	1.1+
930417 413	(10.0+	0.6-)	960213 098	0.7-	1.0-	970703 108	1.5-	0.1+
930625 691	0.2-	0.9-	960214 098	1.0-	1.0+	970709 108	0.2-	0.0
930625 691	0.2-	0.6-	960215 098	0.2-	0.4-	970709 108	0.2+	0.1-
930625 691	0.3-	0.7-	960217 098	0.4-	0.6+			

(7795)* 1996 AN₁₅ = 1989 AE₅ = 1991 VJ₁₅

Discovered 1996 Jan. 14 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 27111)

Epoch 1997 June 1.0 TT = JDT 2450600.5				Williams			
<i>M</i>	137.64159	(2000.0)		P	Q		
<i>n</i>	0.28422459	ω	4.81819	-0.72638074	-0.68015121		
<i>a</i>	2.2910168	Ω	131.81174	+0.62606604	-0.71411989		
<i>e</i>	0.0361925	<i>i</i>	7.61892	+0.28357069	-0.16561136		
<i>P</i>	3.47	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

890104 413	0.4+	1.8+	960114 327	0.6-	0.1-	960510 327	0.5-	1.5-
890104 413	0.7+	0.1+	960114 327	0.6+	0.3+	960511 327	0.1+	1.1-
890110 413	(3.8-	3.2+)	960114 327	0.9+	0.7-	960511 327	0.2-	0.3-
890110 413	1.1-	1.5-	960118 327	0.4-	0.2+	960511 327	0.2+	1.0-
911112 809	1.3+	1.2-	960118 327	0.5-	1.1+	970528 327	0.0	0.2+
911112 809	0.4-	1.4-	960118 327	0.2+	0.4+	970528 327	0.2+	0.1+
911112 809	0.1+	0.7-	960210 327	0.0	0.3+	970528 327	0.7+	0.3-
940912 675	1.3+	0.3-	960210 327	0.2-	0.1+	970529 327	0.4+	0.7-
940912 675	0.8-	0.1+	960210 327	0.1-	0.5+	970529 327	0.6-	0.5-
940912 675	0.2-	1.9+	960212 327	0.1-	0.0	970529 327	0.2-	0.2-
940912 675	0.5-	0.9-	960212 327	0.4+	0.9+	970529 327	0.2+	0.0
951121 691	0.3-	0.0	960212 327	0.4+	0.2+	970710 327	(3.2-	1.7-)
951121 691	0.4-	0.0	960510 327	0.3-	1.2-	970710 327	(3.0-	1.4-)
951121 691	0.5-	0.3+	960510 327	0.3+	1.3-	970710 327	0.5-	0.0

(7796)* 1996 BG = 1973 YE₃ = 1990 VG

Discovered 1996 Jan. 16 at Kletř.
Id. B. G. Marsden (*MPC* 26908)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	104.81199	(2000.0)		P	Q		
<i>n</i>	0.22678568	ω	41.23094	-0.69641060	-0.68271978		
<i>a</i>	2.6631296	Ω	94.23022	+0.58648843	-0.71902854		
<i>e</i>	0.1453640	<i>i</i>	12.81190	+0.41357417	-0.12996790		
<i>P</i>	4.35	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

731225 095	0.6+	2.2-	960206 046	0.5+	0.1+	960406 046	1.1-	0.7-
901108 413	(6.3+	0.6+)	960206 046	0.5+	0.1-	960406 046	0.4-	0.1-
901109 413	0.3+	0.1-	960209 046	0.6-	0.7-	960407 046	0.2-	0.6-
901109 413	0.7-	0.3+	960209 046	0.8-	0.9-	960407 046	0.4-	0.4-
960116 046	1.3-	1.0-	960209 046	0.7-	0.9-	960407 046	1.5-	1.4-
960116 046	(0.0	3.3-)	960222 046	0.1+	0.8+	970531 046	0.2+	0.0
960117 046	0.3+	0.5+	960222 046	0.1-	0.9+	970531 046	0.2+	0.0
960117 046	0.5+	0.6+	960222 046	0.2+	0.9+	970601 046	0.3+	0.2+
960117 046	0.2+	0.4+	960224 046	0.1-	0.6+	970602 046	0.6+	0.1-
960117 046	0.7+	0.0	960225 046	0.2-	0.7+	970602 046	0.3+	0.0
960117 046	1.3+	1.2+	960225 046	0.2+	0.7+	970602 046	0.6+	0.1+
960131 046	0.0	0.2-	960319 046	0.2-	0.2-	970708 046	0.4-	0.3-
960131 046	0.0	0.1-	960319 046	0.1-	0.3-	970708 046	0.6-	0.4-
960131 046	0.0	0.2+	960319 046	0.3-	0.4-	970708 046	0.3-	0.3-
960201 046	0.9+	0.2+	960320 046	0.2+	0.7+	970709 046	0.2-	0.2-
960201 046	0.2+	0.3-	960320 046	0.2+	0.8+	970709 046	0.4-	0.3-
960201 046	0.3+	0.1-	960320 046	0.2+	0.7+	970709 046	0.8-	0.2+
960206 046	0.8+	0.5-	960406 046	0.6-	0.5-			

**(7797)* 1996 BK₂ = 1953 QQ = 1962 CM = 1982 TA₃ = 1985 DG₄
= 1991 EA₆**

Discovered 1996 Jan. 26 by T. Kobayashi at Oizumi.

Id. T. Kobayashi (*MPC* 26752)

Epoch 1997 June 1.0 TT = JDT 2450600.5				Williams			
<i>M</i>	206.71469	(2000.0)		P	Q		
<i>n</i>	0.17296057	ω	204.05854	+0.99407862	+0.03920362		
<i>a</i>	3.1903474	Ω	153.09275	-0.01775391	+0.97871510		
<i>e</i>	0.1419882	<i>i</i>	12.94073	-0.10720309	+0.20144434		
<i>P</i>	5.70	<i>H</i>	11.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

530816 024	(0.6-	3.9-)	930715 691	0.4-	0.3-	960207 896	(0.5+	2.1+)
620204 760	0.5-	0.7-	930715 691	0.4-	0.3-	960207 896	1.9+	0.1-
620204 760	0.6+	2.0-	930724 046	1.5+	0.7-	960207 896	0.0	0.1+
821014 095	(0.7-	4.6-)	930724 046	(4.7+	3.1+)	960207 896	1.4-	0.1-
821021 095	(4.9-	5.8+)	930817 808	(0.4-	2.3+)	960209 896	0.8+	0.7+
850222 675	0.8-	0.1-	930817 808	(1.0+	2.2+)	960209 896	0.0	0.6+
850223 675	0.2+	0.6-	960126 411	0.9-	0.3-	960209 896	0.2+	0.3+
910314 046	0.6-	1.7+	960126 411	0.6+	0.6+	970111 327	0.7+	0.3-
910314 046	(4.3-	9.5+)	960127 411	0.5-	0.5-	970111 327	0.5+	0.6-
910416 675	0.1+	1.1+	960127 411	0.4-	0.2+	970111 327	0.6+	0.3-
910416 675	1.3-	0.2+	960130 411	0.1-	0.6-	970525 689	0.2+	0.4-
930715 691	0.6-	0.2-	960130 411	0.2+	0.8-			

(7798)* 1996 CL = 1992 DK₁₃

Discovered 1996 Feb. 1 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 29629)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	186.02458		(2000.0)	P		Q	
<i>n</i>	0.25277273	ω	335.92447	+0.26333959		-0.95993782	
<i>a</i>	2.4773226	Ω	98.69452	+0.90007579		+0.20876040	
<i>e</i>	0.1318168	<i>i</i>	5.55965	+0.34715390		+0.18691838	
<i>P</i>	3.90	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

920223 691	0.1-	0.5-	960325 327	0.3-	0.8+	960504 327	0.3+	0.5-
920223 691	0.1-	0.3+	960325 327	0.3-	1.1+	970518 327	0.4-	0.0
920223 691	0.1+	0.4+	960327 327	0.1-	0.1-	970518 327	0.3-	0.3+
940910 675	0.2-	0.4+	960327 327	0.0	0.4-	970518 327	0.1-	0.1+
940910 675	0.0	0.3+	960327 327	0.0	0.3+	970518 327	0.7-	0.2-
960201 327	0.6-	0.0	960327 327	0.3-	0.3+	970519 327	1.4-	0.4+
960201 327	0.7-	0.3-	960327 327	0.5+	0.4+	970519 327	0.2+	0.5+
960201 327	0.6-	0.2-	960327 327	0.6+	0.1+	970519 327	0.1+	1.0+
960203 327	0.5+	0.2+	960408 327	0.2+	0.1-	970528 327	0.5+	0.4-
960203 327	0.6-	0.1-	960408 327	0.3-	0.1+	970528 327	0.7+	0.5-
960203 327	0.1+	0.0	960408 327	0.2-	0.1-	970529 327	0.6+	0.3-
960203 327	0.2+	0.3+	960501 327	0.0	0.5-	970529 327	0.6+	0.1-
960325 327	0.8-	0.3-	960501 327	1.0+	0.3-	970626 327	0.1+	0.4+
960325 327	0.4+	0.1-	960501 327	0.6+	0.8-	970710 327	0.2+	0.6-
960325 327	0.4+	0.4-	960504 327	1.0+	0.1+	970710 327	0.6-	0.4-
960325 327	0.1+	0.4+	960504 327	0.1-	0.4+			

(7799)* 1996 DW₁ = 1981 XH = 1991 RV₂₇

Discovered 1996 Feb. 24 at Klet.

Id. B. G. Marsden (*MPC* 26911), G. V. Williams (*MPC* 30083)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	239.83058		(2000.0)	P		Q	
<i>n</i>	0.28968186	ω	329.92610	+0.93140872		-0.36038373	
<i>a</i>	2.2621523	Ω	51.28639	+0.34561498		+0.83175536	
<i>e</i>	0.0357150	<i>i</i>	3.74784	+0.11414062		+0.42226365	
<i>P</i>	3.40	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

811204 511	0.2+	0.2-	960226 046	0.1-	0.1+	960407 046	0.4-	0.1-
811204 511	0.0	0.1-	960227 046	0.4+	0.3+	960418 046	0.6-	0.7-
910912 675	0.5+	1.9-	960227 046	0.1+	0.3+	960418 046	0.6-	0.3+
910912 675	0.5+	0.9-	960227 046	0.1+	0.8+	960418 046	0.9-	0.5-
910914 675	0.5+	0.4+	960228 046	0.0	0.7+	960419 046	0.8-	0.0
910914 675	0.5-	0.7-	960228 046	0.2-	0.1+	960419 046	0.1+	1.1-
930414 675	0.1+	0.2+	960228 046	0.3+	0.1-	960421 046	0.2-	0.8-
930414 675	0.6-	0.9-	960318 046	0.5+	0.5-	970602 046	0.1+	0.3+
960224 046	0.1+	0.1+	960319 046	0.0	0.9-	970602 046	0.1+	0.3-
960224 046	0.1+	0.1+	960319 046	0.2+	0.7-	970602 046	0.1-	0.0
960224 046	0.0	0.1+	960319 046	0.5+	0.9-	970604 046	0.3-	0.5+
960224 046	0.0	0.1+	960325 046	0.1+	0.7-	970708 046	0.6-	0.4-
960224 046	0.3-	0.4+	960325 046	0.5+	0.7-	970708 046	0.1-	0.5-
960225 046	0.0	0.4+	960325 046	0.8+	1.1-	970708 046	0.1+	0.5-
960225 046	0.1-	0.5+	960406 046	0.0	0.1+	970709 046	0.0	0.4-
960225 046	0.1+	0.1+	960406 046	0.2-	0.0	970709 046	0.4+	0.2-
960225 046	0.0	0.2+	960406 046	0.3-	0.4-	970709 046	0.3+	0.3-

960226 046 0.0 0.3+ 960407 046 0.1- 0.4-

960226 046 0.1+ 0.5+ 960407 046 0.6- 0.2+

(7800)* 1996 EW₂ = 1996 EX₂ = 1977 RO₈ = 1987 RP₄ = 1987 SA₆

Discovered 1996 Mar. 11 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 27115; d, *MPC* 27316)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	21.83441		(2000.0)	P		Q	
<i>n</i>	0.29574319	ω	305.80808	+0.18130889		+0.98311913	
<i>a</i>	2.2311369	Ω	334.60464	-0.88278373		+0.15169139	
<i>e</i>	0.1306645	<i>i</i>	3.28483	-0.43338201		+0.10230592	
<i>P</i>	3.33	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

770908 675	0.1+	0.2+	960215 566	(0.8+	3.6+)	960501 327	0.1-	0.8-
770909 675	0.2-	0.1-	960311 327	0.7+	1.2-	960510 327	0.4+	0.2-
870902 095	(2.4+	2.7-)	960311 327	1.1+	0.5+	960510 327	0.4-	0.4-
870921 046	(0.8-	3.3-)	960311 327	0.7+	0.4-	960511 327	0.1-	0.4-
870921 046	(2.1+	2.8-)	960313 327	0.6-	0.0	960511 327	0.3+	0.5-
941003 675	0.2+	0.3+	960313 327	0.3-	0.3-	960511 327	0.8-	0.1-
941003 675	0.1+	0.7-	960313 327	1.0-	0.2-	970614 327	0.0	0.4-
960212 327	0.2+	0.0	960313 327	0.7+	0.2-	970614 327	0.1-	0.3-
960212 327	0.4+	0.5+	960313 327	0.0	0.7+	970614 327	0.3+	0.0
960215 691	0.9-	0.1-	960313 327	0.2+	0.3+	970614 327	0.4+	0.3-
960215 691	0.9-	0.0	960314 327	2.0+	1.9+	970710 327	0.5-	0.1-
960215 691	0.7-	0.0	960314 327	1.0-	1.4+	970710 327	0.1-	1.0+
960215 566	(0.5+	3.6+)	960314 327	0.3+	0.1+	970710 327	0.0	0.6+
960215 566	(0.6+	3.5+)	960501 327	0.0	0.7-	970710 327	0.4-	0.3+

(7801)* 1996 GG₂ = 1976 QM = 1993 OK₁₁

Discovered 1996 Apr. 12 by L. Tesi and A. Boattini at San Marcello Pistoiese.

Id. K. Ichikawa (*MPC* 27451)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	288.97133		(2000.0)	P		Q	
<i>n</i>	0.22943441	ω	64.13647	+0.97816878		+0.20688785	
<i>a</i>	2.6425934	Ω	283.91845	-0.19715446		+0.89409598	
<i>e</i>	0.2548191	<i>i</i>	1.15567	-0.06569591		+0.39722764	
<i>P</i>	4.30	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

760826 095	(3.8-	1.0+)	930723 809	0.2-	0.0	960418 104	0.7-	0.5-
760827 675	0.6-	0.2-	960412 104	0.7+	0.5-	960421 104	0.3-	0.7+
760828 675	0.8-	0.0	960412 104	1.2+	0.2-	960421 104	0.9-	0.3+
760830 675	1.4+	0.1+	960412 104	0.5+	0.1+	960421 104	1.2-	0.1-
910122 675	1.8-	0.1+	960412 104	1.1+	0.4+	970527 599	0.2-	0.5+
910122 675	0.2-	1.1-	960414 104	0.0	0.1+	970527 599	0.5-	1.6+
930712 809	(1.5+	3.0+)	960414 104	0.3+	0.8-	970528 104	1.3-	1.9+
930712 809	(1.9+	2.7+)	960414 104	0.4+	1.2-	970528 104	0.7-	1.9+
930712 809	(1.2+	3.1+)	960414 104	0.1+	0.2+	970528 104	0.0	1.4+
930719 809	0.9+	0.6-	960416 104	0.3+	0.3+	970614 104	0.3+	0.7-
930719 809	0.3+	0.7-	960416 104	0.4+	0.1+	970614 104	0.5+	0.2-
930719 809	0.4+	0.6-	960416 104	0.2+	0.2+	970627 104	0.6-	1.7-
930723 809	0.2+	0.6-	960418 104	0.5+	1.1-	970627 104	0.5-	1.6-
930723 809	0.3+	0.2+	960418 104	0.2-	0.9-	970627 104	0.1+	1.2-

(7802)* 1996 XG₁ = 1969 RY₁ = 1973 UD₁ = 1977 XS₂

Discovered 1996 Dec. 2 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 28605)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	109.98337		(2000.0)	P	Q
<i>n</i>	0.25992598	ω	140.26861	+0.99206267	+0.12405359
<i>a</i>	2.4316604	Ω	212.62269	-0.12287410	+0.92165943
<i>e</i>	0.1893406	<i>i</i>	2.18476	-0.02671373	+0.36763378
<i>P</i>	3.79	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

690913 095	(3.4+ 4.5+)	921021 675	0.8+ 0.4-	961207 905	1.0+ 0.6-
731026 095	1.7- 1.9+	921127 675	0.6+ 0.4-	961208 411	0.2+ 0.1-
771207 675	0.9+ 1.0+	921127 675	0.0 0.4-	961208 411	0.0 0.0
771208 675	0.4+ 0.7+	961202 411	1.0- 0.3+	961212 411	0.5+ 0.1+
910513 675	0.7- 0.1-	961202 411	1.3- 0.2+	961212 411	0.2- 0.3-
910513 675	1.0+ 0.5+	961203 411	0.4+ 0.0	961219 411	0.2+ 0.3+
910515 675	0.1+ 0.2+	961203 411	0.1- 0.1+	961219 411	0.4- 0.1-
910515 675	0.1- 0.2+	961206 905	0.6- 0.6-	961228 411	0.4- 0.2-
921021 675	0.3+ 0.9-	961206 905	0.2+ 0.5-	961228 411	0.0 0.6+

(7803)* 1997 EW₂ = 1973 AA₃ = 1976 UY₁₇ = 1978 EM₁ = 1992 CF₂

Discovered 1997 Mar. 4 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 29643)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Nakano

<i>M</i>	68.23129		(2000.0)	P	Q
<i>n</i>	0.21203147	ω	9.06516	-0.49902756	-0.86276620
<i>a</i>	2.7852819	Ω	110.90743	+0.78952483	-0.49131148
<i>e</i>	0.0499098	<i>i</i>	4.99138	+0.35724227	-0.11936295
<i>P</i>	4.65	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

730102 095	0.3+ 1.5-	920205 372	1.9- 0.1+	970312 411	0.3+ 0.0
761022 381	(1.8- 37.6-)	920208 372	0.7- 1.2-	970312 411	0.1- 0.2+
761022 381	0.9- 0.2-	920208 372	0.9+ 0.3-	970423 327	0.4+ 0.3-
761024 381	1.1- 0.3+	970304 411	0.9- 0.4-	970423 327	0.9+ 0.8-
761024 381	1.4+ 1.3+	970304 411	0.2- 0.0	970423 327	0.3+ 0.3+
780305 095	0.0 1.1+	970305 411	0.3- 0.2+	970524 327	0.2+ 0.3+
920205 372	1.8+ 1.4+	970305 411	0.2- 0.1+	970524 327	0.3+ 0.4+
920205 372	(4.9- 4.1+)	970309 411	0.2- 0.2-	970524 327	0.1+ 0.4+
920205 372	0.2+ 0.6+	970309 411	0.4- 0.2+		

(7804)* 3083 P-L = 1982 KY = 1989 EZ₈

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

Id. T. Kobayashi (*MPC* 15902)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	344.76981		(2000.0)	P	Q
<i>n</i>	0.26096548	ω	348.58344	-0.14991270	+0.98172844
<i>a</i>	2.4251988	Ω	272.71554	-0.89762539	-0.18483726
<i>e</i>	0.1444237	<i>i</i>	6.73804	-0.41448142	+0.04521567
<i>P</i>	3.78	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

510104 675	0.4+ 0.7+	601017 675	0.8+ 0.1-	900917 675	0.2+ 0.1+
510104 675	0.1+ 0.7-	601022 675	0.5+ 0.2-	900918 675	(2.9+ 1.8-)

600924 675	0.7- 0.2+	820526 688	1.1- 2.5-	900918 675	0.2+ 0.0
600925 675	0.6+ 0.0	820526 688	(2.3+ 4.8-)	960126 596	0.5- 0.6-
600925 675	0.3+ 0.4+	890307 413	1.2- 0.4+	960126 596	0.6- 0.9-
600926 675	0.2- 0.9+	890307 413	1.5+ 0.6-	960126 596	0.4- 1.2-
600927 675	0.3- 0.2-	900913 675	0.6+ 1.0-	970512 689	0.4- 0.4+
600928 675	0.7- 0.1-	900914 675	0.1+ 0.5+	970513 689	0.0 0.7+
600928 675	0.2+ 0.0	900914 675	0.5- 0.5-	970610 689	0.9+ 0.9-
600929 675	0.2- 0.7-	900917 675	0.2+ 0.1-	970611 689	0.6+ 0.2+

(7805)* 7610 P-L = 1981 UE₂₄

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 20516)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	58.27220		(2000.0)	P	Q
<i>n</i>	0.28722510	ω	77.08724	-0.97237104	+0.22360368
<i>a</i>	2.2750335	Ω	115.80070	-0.23243451	-0.90074137
<i>e</i>	0.1325549	<i>i</i>	4.27113	-0.02165093	-0.37237934
<i>P</i>	3.43	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

601017 675	0.7- 0.7+	930217 372	0.6+ 0.0	940813 809	0.2+ 1.2+
601022 675	0.2+ 0.0	930217 372	(2.2+ 2.1-)	940813 809	0.1- 0.9+
601025 675	1.0+ 1.2-	930219 372	1.2- 1.0+	940905 809	(2.4+ 4.1+)
601026 675	0.4+ 0.9-	930219 372	0.6+ 0.4+	940905 809	(3.5+ 3.8+)
811024 675	0.6- 0.1+	930324 675	0.6+ 0.2-	940905 809	(3.3+ 3.7+)
811025 675	0.6- 0.0	930324 675	0.3+ 0.2-	940909 675	0.6- 0.5+
930213 372	0.7+ 0.3-	940812 809	1.3+ 1.2-	940909 675	0.1- 0.6+
930213 372	(3.7+ 0.2-)	940812 809	0.2+ 1.4-	970527 689	1.6- 1.0+
930217 372	1.1- 0.9-	940812 809	0.1- 1.6-	970623 689	0.6+ 1.4-
930217 372	0.3- 1.3-	940813 809	0.4+ 1.0+		

1981 DA₁ = 1992 WT₉

Id. E. Bowell (1954 observations), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	164.21758		(2000.0)	P	Q
<i>n</i>	0.21953653	ω	11.44837	-0.40383603	+0.90023168
<i>a</i>	2.7214364	Ω	234.93652	-0.85426175	-0.43475112
<i>e</i>	0.0950319	<i>i</i>	11.47146	-0.32734282	+0.02396650
<i>P</i>	4.49	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

540403 675	0.4+ 0.6+	810306 413	(1.9+ 2.6-)	810408 413	1.4+ 0.5-
540403 675	0.1- 0.3+	810308 413	1.6- 0.8+	810409 413	0.5- 1.5+
810204 413	0.5- 0.9-	810308 413	0.2+ 0.5-	810409 413	0.8+ 0.0
810208 413	0.3+ 1.2-	810312 413	1.4- 0.3+	810501 413	0.8+ 0.9-
810209 413	0.2+ 0.8-	810312 413	0.4+ 0.5-	810503 413	0.5+ 1.0-
810228 413	0.1+ 0.3-	810407 413	0.6- 1.9+	921127 691	0.1- 0.4+
810228 413	(2.3+ 0.8-)	810407 413	2.1+ 1.5-	921127 691	0.1+ 0.1+
810306 413	0.7- 0.7+	810408 413	1.1- 2.0+	921127 691	0.1- 0.3+

1982 SW₃ = 1982 UN₁ = 1982 VB₁₀ = 1982 VT₁₀ = 1997 LB₇Id. S. Nakano (d, *MPC* 12302), C. M. Bardwell (d, *ibid.*), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	234.02610	(2000.0)	Williams	
			P	Q
<i>n</i>	0.31083421	ω 176.47653	+0.94570314	-0.32271379
<i>a</i>	2.1583250	Ω 202.46962	+0.29567748	+0.90366800
<i>e</i>	0.2205638	<i>i</i> 5.81880	+0.13498298	+0.28149594
<i>P</i>	3.17	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

820928 675	0.8+	0.6+	970503 809	(1.5- 3.9+)	970607 809	0.4-	2.5-
820929 675	1.2+	1.5+	970503 809	(1.4- 4.4+)	970607 809	1.0-	2.0-
821024 688	0.4+	1.0-	970503 809	(0.5- 3.9+)	970607 809	0.0	1.7-
821024 688	0.0	1.5-	970507 566	0.9- 0.2+	970608 809	1.5+	0.1+
821111 095	0.9-	1.6-	970507 566	0.9- 0.4+	970608 809	1.3+	0.1-
821112 095	0.5-	1.1-	970507 566	0.3- 0.2+	970608 809	0.1+	0.2+

1988 SU₂ = 1996 PW₉

Id. E. Bowell (1991 observations), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	178.25718	(2000.0)	Williams	
			P	Q
<i>n</i>	0.23615934	ω 89.38983	-0.86803573	+0.49484566
<i>a</i>	2.5921848	Ω 120.26908	-0.47215390	-0.79747297
<i>e</i>	0.0193711	<i>i</i> 2.68898	-0.15357298	-0.34520231
<i>P</i>	4.17	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

880910 675	0.3+	0.1+	881004 807	0.7- 1.7-	960809 566	0.6+	0.2-
880910 675	0.8+	0.2+	881005 807	0.2+ 0.5-	960809 566	0.3+	0.2-
880912 675	(3.1- 2.1+)		881105 807	0.1+ 0.4+	960809 566	0.5+	0.1-
880912 675	(3.1- 1.4-)		881107 807	0.4- 0.8+	960908 809	0.1-	0.6+
880915 675	0.4-	1.5-	910513 675	0.7+ 0.2-	960908 809	0.8-	0.7-
880915 675	1.7-	1.2+	910513 675	0.0 0.1-	960908 809	0.6-	0.8+
880916 807	0.9+	1.0+	910515 675	0.8- 0.2-			
880918 807	0.7+	0.2+	910515 675	0.1+ 0.6+			

1989 AN₅ = 1997 NH₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	263.77415	(2000.0)	Williams	
			P	Q
<i>n</i>	0.18284468	ω 281.03286	+0.62710543	-0.76737040
<i>a</i>	3.0743112	Ω 129.28492	+0.76497009	+0.57435917
<i>e</i>	0.1190270	<i>i</i> 9.94864	+0.14683170	+0.28505123
<i>P</i>	5.39	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

890104 413	0.5-	0.8+	890202 033	0.2+ 0.0	970711 816	0.3-	0.2-
890104 413	0.3-	0.6-	890203 033	0.3- 0.1+	970712 816	0.2+	0.5+
890110 413	0.4-	1.3+	970711 816	0.3- 0.1-	970712 816	0.1+	0.1+
890110 413	1.4+	1.5-	970711 816	0.0 0.0	970712 816	0.2+	0.2-

1989 SP₂ = 1996 DV₃ = 1997 LT₁₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	301.31862	(2000.0)	Williams	
			P	Q
<i>n</i>	0.21150726	ω 173.27870	+0.53674512	+0.84074877
<i>a</i>	2.7898822	Ω 129.15772	-0.77832292	+0.52587483
<i>e</i>	0.0435033	<i>i</i> 5.25632	-0.32575775	+0.12883000
<i>P</i>	4.66	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

890926 809	1.3+	0.6-	891007 809	0.2+ 0.4-	960217 010	2.2+ 0.1-
890926 809	1.0+	0.7-	891008 809	0.8+ 0.5+	960217 010	1.5+ 0.4-
890926 809	1.2+	0.1-	891008 809	0.3+ 0.6+	970607 809	0.3+ 0.2+
890929 675	1.9-	1.5-	891008 809	0.7+ 0.5+	970607 809	0.3- 0.4-
890929 675	0.7-	0.6+	891102 675	1.2- 0.4+	970607 809	0.1- 0.4-
891003 809	0.7-	1.4-	891102 675	2.8- 0.2+	970608 809	0.1- 1.2-
891003 809	0.8-	1.6-	960216 010	2.0- 0.8-	970608 809	0.2- 0.9-
891003 809	1.0-	1.3-	960216 010	2.9- 1.1-	970608 809	0.4- 0.9-
891007 809	3.0+	0.8+	960216 010	2.4- 1.1-		
891007 809	2.2+	0.2-	960217 010	2.7+ 0.2+		

1989 TU₁ = 1997 ND₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	254.82840	(2000.0)	Williams	
			P	Q
<i>n</i>	0.22582382	ω 160.03818	+0.48599816	-0.86641107
<i>a</i>	2.6706863	Ω 260.73435	+0.78524597	+0.49046721
<i>e</i>	0.2852389	<i>i</i> 6.66909	+0.38365942	+0.09366845
<i>P</i>	4.36	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

891009 888	0.2+	1.7+	891101 888	1.2+ 0.8+	891201 399	0.7+ 0.8-
891009 888	0.2-	1.7+	891101 888	1.8+ 0.6+	891201 399	0.1+ 0.1-
891023 888	0.6-	0.2+	891104 888	0.0 0.3-	891201 399	0.3- 0.1-
891023 888	0.3+	0.4+	891104 888	0.4- 0.1+	891201 399	0.8+ 0.6-
891024 888	1.2-	1.0-	891104 095	0.6+ 1.0-	970711 327	0.3+ 0.1+
891024 888	0.0	0.8-	891104 095	0.2- 1.1-	970711 327	0.2- 0.3-
891025 888	0.2+	0.2-	891119 888	0.8- 0.3+	970711 327	0.1- 0.2+
891025 888	0.3-	0.2-	891119 888	0.6- 0.1+	970712 327	0.4+ 0.5-
891029 888	0.4+	0.2-	891126 888	0.9- 0.3-	970712 327	0.1- 0.1-
891029 888	0.0	0.0	891126 888	0.7- 0.8+	970712 327	0.0 0.2-

1989 TS₂ = 1997 NC₅

Id. G. V. Williams, E. Bowell (1988 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	307.05959	(2000.0)	Williams	
			P	Q
<i>n</i>	0.08145361	ω 156.60429	+0.59574469	+0.79708012
<i>a</i>	5.2706295	Ω 149.68564	-0.76434421	+0.60040820
<i>e</i>	0.0423971	<i>i</i> 11.28232	-0.24671076	+0.06460082
<i>P</i>	12.10	<i>H</i> 12.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

880914 675	0.1-	0.3+	891128 688	0.6- 0.2+	970707 910	0.1- 0.2-
880914 675	0.1-	0.5+	891128 688	0.2- 0.2+	970708 910	0.1- 0.1-
891003 807	0.5+	0.0	900128 688	0.4- 0.1+	970708 910	0.1- 0.1+
891006 807	0.1+	0.4-	900128 688	1.3- 0.2+	970708 910	0.1- 0.2-
891030 807	0.7+	0.2+	970707 910	0.2+ 0.1-		
891122 675	1.4+	1.7-	970707 910	0.0 0.2-		

1989 TU₄ = 1997 LP₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	308.62117	(2000.0)	Williams	
			P	Q
<i>n</i>	0.21892931	ω 197.81215	+0.55751780	+0.82665415
<i>a</i>	2.7264661	Ω 106.13620	-0.75167465	+0.54166528
<i>e</i>	0.1670952	<i>i</i> 4.55384	-0.35236220	+0.15245207
<i>P</i>	4.50	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

890926 809	1.0−	1.2−	891003 809	1.6+	3.8+	891008 809	0.5−	1.8−
890926 809	1.8−	0.9−	891003 809	0.4+	3.8+	970607 809	1.0+	0.8+
890926 809	1.6−	1.1−	891003 809	1.0+	3.4+	970607 809	0.6−	0.8+
890929 675	2.0+	0.1−	891007 809	0.3−	1.7−	970607 809	0.8−	0.7+
890929 675	1.3+	2.5−	891007 809	2.1−	1.7−	970608 809	0.2−	0.9−
891003 809	1.3+	0.2−	891007 809	2.0−	1.9−	970608 809	0.8+	0.5−
891003 809	0.8+	0.5+	891008 809	0.3+	0.4+	970608 809	0.3−	0.9−
891003 809	0.5+	1.2+	891008 809	0.1−	0.1+			

1989 VS₁

Id. E. Bowell (1993 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		274.16059		(2000.0)			
				P		Q	
<i>n</i>	0.23091136	ω	296.41553	+0.58313551	−0.81043361		
<i>a</i>	2.6313130	Ω	117.80042	+0.76611799	+0.52563609		
<i>e</i>	0.2019772	<i>i</i>	3.63795	+0.27021511	+0.25865820		
<i>P</i>	4.27	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

891030 095	0.9+	0.6−	891117 400	(2.5−	3.4+)	891201 400	0.4+	0.6+
891030 095	(0.8+	2.6−)	891121 095	0.8−	1.3−	930921 675	0.2+	0.4−
891102 400	2.1−	1.7+	891121 095	1.1−	1.9−	930921 675	0.4+	0.5−
891102 400	1.2+	1.2+	891201 400	0.4+	0.3−	931015 675	1.0−	0.6+
891117 400	(0.4+	4.4−)	891201 400	1.2+	0.6+	931015 675	0.5+	0.2+

1989 WU₄ = 1997 MK₁₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		243.44269		(2000.0)			
				P		Q	
<i>n</i>	0.22004543	ω	148.22702	+0.43752318	−0.89711267		
<i>a</i>	2.7172389	Ω	275.76351	+0.81155608	+0.42333073		
<i>e</i>	0.0712364	<i>i</i>	3.53449	+0.38723402	+0.12641184		
<i>P</i>	4.48	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

891128 033	2.4−	0.1+	970630 691	0.1+	0.1+	970711 691	0.2−	0.1+
891128 033	1.7+	0.6+	970630 691	0.4−	0.0	970712 691	0.5−	0.2+
891129 033	0.7−	1.1−	970630 691	0.2+	0.1+	970712 691	0.2+	0.1−
891129 033	0.1−	0.3−	970711 691	0.1+	0.0	970712 691	0.5+	0.1−
891203 033	1.5+	0.8+	970711 691	0.1+	0.3−			

1990 VN₄ = 1997 MT

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		62.80040		(2000.0)			
				P		Q	
<i>n</i>	0.22969392	ω	349.29527	−0.96277450	+0.25286794		
<i>a</i>	2.6406026	Ω	205.96651	−0.22908040	−0.95086893		
<i>e</i>	0.1157929	<i>i</i>	12.60023	−0.14348321	−0.17862275		
<i>P</i>	4.29	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

901115 809	1.0+	0.3+	901121 809	0.4+	0.7+	970629 683	0.5+	0.4−
901115 809	0.3−	0.1+	901121 809	0.2+	0.4+	970703 568	0.5−	0.1+
901115 809	0.8−	0.0	970628 683	0.4−	0.7+	970703 568	0.4−	0.1+
901117 809	(3.6+	1.0+)	970628 683	0.2+	0.2+	970703 568	1.3−	0.2+
901117 809	0.3−	0.5−	970628 683	0.5+	0.0	970704 568	0.5+	0.1+
901117 809	0.1−	0.3−	970629 683	0.5+	0.5−	970704 568	0.4+	0.0
901121 809	0.1−	0.7−	970629 683	0.1+	0.4−			

1991 UF₃ = 1970 EG₁ = 1993 HM₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		141.24605		(2000.0)			
				P		Q	
<i>n</i>	0.26243420	ω	50.73193	−0.00233838	−0.98882395		
<i>a</i>	2.4161419	Ω	40.17651	+0.83152248	−0.08472921		
<i>e</i>	0.1915339	<i>i</i>	13.35971	+0.55548618	+0.12267092		
<i>P</i>	3.76	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

700313 095	0.1−	0.1−	911102 400	1.0+	0.9−	930429 691	0.2−	0.4−
911017 675	0.3−	0.3−	911126 400	1.9−	0.2+	930525 691	0.0	0.3−
911029 400	0.9+	0.1−	911126 400	0.4−	0.6−	930525 691	0.0	0.1+
911029 400	1.1+	0.4+	930429 691	0.2−	0.3−			
911102 400	0.3+	0.1+	930429 691	0.4−	0.3−			

1991 VC₅ = 1973 UO₂ = 1984 YJ

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		164.57284		(2000.0)			
				P		Q	
<i>n</i>	0.27195369	ω	24.41244	+0.23357221	−0.96660422		
<i>a</i>	2.3594244	Ω	52.25205	+0.86874405	+0.15874467		
<i>e</i>	0.0970248	<i>i</i>	7.66406	+0.43672393	+0.20118751		
<i>P</i>	3.62	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

731027 095	0.5+	1.7−	911104 691	0.4−	0.3+	911110 894	0.3−	1.9+
841223 046	0.6−	0.3+	911104 691	1.2−	0.2+	911111 894	0.5+	0.1−
841223 046	0.5+	0.1+	911109 399	1.0−	1.3−	911111 894	1.2+	0.4−
911017 675	1.2+	0.1−	911109 399	0.9+	0.6−	911112 894	0.4−	0.3+
911104 691	0.6−	0.5+	911110 894	1.0−	0.8+	911112 894	0.8+	0.3−

1991 VP₇ = 1989 GG₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		113.52610		(2000.0)			
				P		Q	
<i>n</i>	0.19615334	ω	109.19056	+0.77372453	+0.61933237		
<i>a</i>	2.9336316	Ω	212.93919	−0.63313711	+0.74859784		
<i>e</i>	0.0468006	<i>i</i>	14.19432	−0.02208490	+0.23670381		
<i>P</i>	5.02	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

890403 809	0.3+	0.1−	890408 809	0.3−	0.9−	911103 691	0.5+	0.3+
890403 809	0.5+	0.0	890408 809	0.7+	1.3−	911104 399	0.4−	0.4−
890403 809	0.9+	0.6+	890408 809	0.3+	1.1−	911104 399	2.4−	2.4−
890405 809	0.5−	0.5+	911017 675	1.2+	0.1−	911108 691	0.2−	0.3+
890405 809	0.8−	0.7+	911103 691	0.8+	0.9+	911108 691	0.1−	0.4+
890405 809	1.2−	1.4+	911103 691	0.3+	0.3+	911108 691	0.3+	0.6+

1991 VW₈ = 1990 RM₁₈ = 1996 RW₁₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>		47.60218		(2000.0)			
				P		Q	
<i>n</i>	0.17823254	ω	193.95273	+0.95961642	+0.28068206		
<i>a</i>	3.1271212	Ω	149.72601	−0.25438737	+0.89437852		
<i>e</i>	0.1560210	<i>i</i>	2.13856	−0.12009741	+0.34828815		
<i>P</i>	5.53	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

900909 413	0.3−	1.1−	911106 691	1.7+	0.4−	960914 691	0.0	0.1−
900910 413	0.8+	0.2+	911106 691	0.4−	0.0	960914 691	0.2−	0.2+
900911 413	0.5−	0.5−	911108 691	0.7−	0.2+	960914 691	0.1−	0.2+

911017 675	1.3+	1.0-	911108 691	0.4-	0.0	960921 691	0.1+	0.2+
911104 691	0.8-	0.3-	911108 691	0.6-	0.1-	960921 691	0.1-	0.2+
911104 691	0.8-	0.3-	911108 691	0.5-	0.1-	960921 691	0.1-	0.5+
911104 691	0.6-	0.2-	911108 691	0.4-	0.0			
911106 691	2.9+	1.7+	911108 691	0.3-	0.4-			

1991 WD = 1997 KD

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23301433	ω	35.56567	-0.55902108	-0.79381140		
<i>a</i>	2.6154573	Ω	89.60044	+0.69450847	-0.60607055		
<i>e</i>	0.2190820	<i>i</i>	13.85721	+0.45293865	-0.05041782		
<i>P</i>	4.23	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

911117 894	0.5-	0.2+	970527 587	0.1-	1.5+	970606 587	0.3+	0.2+
911117 894	0.2-	0.3-	970527 587	0.0	1.2-	970606 587	0.3-	0.4-
911212 894	0.1+	0.7+	970528 587	0.3-	0.1-	970623 587	0.0	0.1+
911213 894	0.5+	0.5-	970528 587	0.4+	0.3-	970623 587	0.7-	0.5-
911213 894	0.3+	0.5-	970528 587	1.1+	0.2+	970706 587	0.1+	1.4-
911216 894	(1.3-	3.0-)	970530 587	0.2+	0.8+	970706 587	1.5-	0.2+
911216 894	(2.2+	5.8-)	970530 587	0.2+	0.6+	970708 587	0.1+	0.3-

1992 DH₃ = 1997 EE₄₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20843762	ω	238.01105	-0.79618011	+0.60362224		
<i>a</i>	2.8172063	Ω	339.02606	-0.50839850	-0.70474957		
<i>e</i>	0.1467533	<i>i</i>	6.68723	-0.32806735	-0.37278442		
<i>P</i>	4.73	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

920225 691	0.7-	0.1+	920229 691	1.1+	0.4-	970311 809	1.0-	0.1+
920225 691	0.8-	0.2+	920311 691	0.2+	0.1-	970311 809	1.7-	0.5+
920225 691	0.9-	0.1+	920311 691	0.0	0.1+	970312 809	1.1+	0.4-
920229 691	0.4+	0.2-	920311 691	0.0	0.2+	970312 809	0.9+	0.6-
920229 691	0.7+	0.0	970311 809	0.5-	0.6+	970312 809	1.1+	0.2-

1992 EQ₉ = 1977 UC₃Id. T. Kobayashi (*MPC* 23979)

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29471967	ω	243.27354	+0.21914531	-0.97563093		
<i>a</i>	2.2362995	Ω	194.08053	+0.91039373	+0.20849799		
<i>e</i>	0.1197204	<i>i</i>	2.57666	+0.35093958	+0.06835841		
<i>P</i>	3.34	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

771018 675	0.0	0.0	920307 809	0.4-	0.0	970705 402	0.0	0.0
771019 675	0.0	0.1+	970704 402	1.6-	0.4+	970705 402	0.3+	0.5-
920225 675	0.0	0.4-	970704 402	0.4-	0.0	970705 360	0.4+	0.2-
920225 675	0.7+	0.8-	970704 402	0.1+	0.1+	970705 360	0.3+	0.0
920302 809	0.3-	0.2+	970704 402	0.2-	0.2+	970705 360	0.6+	0.5-
920304 809	0.1-	0.8+	970705 402	0.6+	0.2-			

1992 WX = 1952 TC = 1981 UR₁₁ = 1988 PA₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27263660	ω	209.07206	+0.93951620	+0.33413939		
<i>a</i>	2.3554828	Ω	131.20723	-0.29173457	+0.89578899		
<i>e</i>	0.2082086	<i>i</i>	5.73924	-0.17944427	+0.29310912		
<i>P</i>	3.62	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

521012 760	0.5-	1.6+	921117 402	2.1-	0.6+	921122 376	2.0+	1.0-
521012 760	0.7-	1.5+	921118 402	(0.2+	2.5-)	921126 693	1.4+	0.4-
811022 095	0.6+	0.5-	921118 402	(2.9+	0.8-)	921128 693	0.0	0.3+
880809 095	(5.5+	7.7-)	921121 376	1.2+	0.6-	921128 693	0.3+	0.4+
880809 095	0.5+	1.9-	921121 376	0.8-	0.4+			
921117 402	0.3-	0.9-	921122 376	1.4-	0.9-			

1993 BU₇ = 1997 EJ₄₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27573800	ω	184.68008	+0.77705037	-0.62892643		
<i>a</i>	2.3377871	Ω	214.33286	+0.57894926	+0.72996393		
<i>e</i>	0.0163663	<i>i</i>	2.57943	+0.24700297	+0.26758963		
<i>P</i>	3.57	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

930123 809	2.0-	0.3+	930128 809	1.0+	0.4-	970311 809	0.4-	1.2-
930123 809	0.4+	0.1-	930217 809	0.2+	1.0+	970311 809	(2.7-	1.7-)
930123 809	0.6+	1.0-	930217 809	0.4-	1.1+	970312 809	0.3-	1.6+
930128 809	0.3+	0.8-	930217 809	0.3+	0.0	970312 809	0.8+	1.0+
930128 809	0.4-	0.0	970311 809	1.3-	2.3-	970312 809	1.0+	0.6+

1993 FH₇ = 1997 LM₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26696418	ω	200.51916	+0.32846458	+0.94251906		
<i>a</i>	2.3887318	Ω	88.69657	-0.85778982	+0.32488048		
<i>e</i>	0.2032008	<i>i</i>	3.52056	-0.39535761	+0.07816965		
<i>P</i>	3.69	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

930317 809	0.3+	0.0	970503 809	0.0	0.2+	970608 809	(0.6-	2.6+)
930318 809	0.2-	0.0	970503 809	0.5-	0.3-	970608 809	0.9+	1.2+
930323 809	0.2+	0.6-	970607 809	0.1-	0.9-	970608 809	0.3+	1.9+
930416 413	0.1-	0.9+	970607 809	0.2-	1.0-			
970503 809	0.2+	0.5-	970607 809	0.6-	0.7-			

1993 FN₁₄ = 1997 MG₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30215535	ω	299.67057	+0.97370877	-0.21421423		
<i>a</i>	2.1994589	Ω	72.79028	+0.22677928	+0.87945510		
<i>e</i>	0.1395417	<i>i</i>	4.65259	+0.02150334	+0.42505410		
<i>P</i>	3.26	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

930317 809	0.1+	0.1-	930323 809	1.6+	0.4+	970702 704	0.6+	0.0
930318 809	1.3+	0.5-	930416 413	1.1-	0.1+	970702 704	0.0	0.1+
930319 691	0.6-	0.1+	970628 704	1.2-	0.1+	970702 704	0.5+	0.4-

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930319 691 0.6- 0.1+ 970628 704 0.8- 0.8- 970702 704 0.7+ 0.7+
 930319 691 0.7- 0.0 970628 704 0.4- 0.2- 970702 704 0.6+ 0.6+

1993 MB = 1949 KR = 1985 UU₆ = 1997 GY₂₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Spahr

<i>M</i>	334.46091		(2000.0)		P		Q
<i>n</i>	0.22505523	ω	63.54545	-0.05659517			+0.99410390
<i>a</i>	2.6767633	Ω	203.76276	-0.97814039			-0.07377482
<i>e</i>	0.1846657	<i>i</i>	13.26954	-0.20009589			+0.07946520
<i>P</i>	4.38	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

490529	760	0.3+	0.7-	930618	693	(0.0	3.4-)	970407	704	0.4+	0.6-
490529	760	0.2-	1.0-	930626	693	1.3-	0.4-	970407	809	(0.9-	2.1+)
851018	095	0.5-	3.1+	930626	693	0.3+	0.7+	970407	809	1.3-	1.5+
930616	693	0.0	0.2+	970402	704	1.1+	1.0-	970407	704	(2.8+	0.4+)
930616	693	0.9-	1.2+	970402	704	0.9+	0.0	970408	809	0.4-	1.8+
930617	693	1.9+	0.8-	970406	704	0.6+	1.4-	970408	809	0.7-	1.7+
930617	693	(0.9+	2.4+)	970406	704	0.7+	0.3-	970408	809	0.5-	1.1+
930618	693	0.1+	0.3-	970407	809	0.5-	1.4+				

1993 SH₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	40.09396		(2000.0)		P		Q
<i>n</i>	0.28173811	ω	163.02068	+0.92713645			+0.37458100
<i>a</i>	2.3044767	Ω	174.94487	-0.35600107			+0.88909635
<i>e</i>	0.1479604	<i>i</i>	6.74409	-0.11696681			+0.26305276
<i>P</i>	3.50	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

From 18 observations 1993 Sept. 16-1994 Feb. 10, mean residual 0".70.

1993 ST₃ = A922 VB = 1989 YY₅ = 1991 ES = 1992 JE₃

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	299.88353		(2000.0)		P		Q
<i>n</i>	0.22184150	ω	316.75009	+0.99554292			-0.01072049
<i>a</i>	2.7025528	Ω	44.12849	+0.05485016			+0.87402161
<i>e</i>	0.2338507	<i>i</i>	7.73386	-0.07671864			+0.48576877
<i>P</i>	4.44	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

221115	754(25.2-	18.5-)	Y	910313	372	0.9+	0.4+	930918	675	0.2+	1.2-	
221117	754(44.0-	11.2-)	Y	910313	372	1.0-	0.6-	930918	675	0.1+	0.5+	
221121	754(19.2-	7.6-)	Y	920507	809	1.8-	0.7-	930921	675	0.4-	0.3+	
221123	754	(0.8+	10.9-)	Y	920507	809	1.5-	0.5-	930921	675	0.2-	0.2+
891228	511	0.5+	1.4-		920507	809	1.6-	0.4-	930922	675	0.0	1.2-
891228	511	0.8+	0.7-		920508	809	(8.7-	0.3+)	930922	675	0.0	0.2+
891229	511	0.0	0.7+		920508	809	(8.5-	0.3+)	931013	675	0.6+	0.3+
891229	511	0.9-	0.7-		920508	809	(8.5-	0.5+)	931013	675	0.1+	0.0
910309	372	0.8-	1.0+		920510	809	2.0+	0.2-	931015	675	0.2-	0.4+
910309	372	1.6+	0.4+		920510	809	1.8+	0.4-	931015	675	0.2-	0.4+

1993 TX₂₃ = 1997 LW₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	313.91611		(2000.0)		P		Q
<i>n</i>	0.18407542	ω	198.69838	+0.43281411			+0.89866552
<i>a</i>	3.0605925	Ω	97.00004	-0.81767507			+0.42461451
<i>e</i>	0.1345421	<i>i</i>	4.11476	-0.37957795			+0.11001275
<i>P</i>	5.35	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

931009	809	1.1+	1.2+	931011	809	0.9-	0.5-	970607	809	0.7-	0.1+
931009	809	0.4+	0.2+	931020	809	0.8+	0.8+	970607	809	0.5-	0.8-
931009	809	0.9-	0.2-	931020	809	0.1-	0.1-	970608	809	0.5+	0.2+
931011	809	0.2-	0.2+	931020	809	0.5-	1.5-	970608	809	0.1-	0.5+
931011	809	0.3+	0.3-	970607	809	0.9-	0.0	970608	809	1.6+	0.0

1993 XB = 1997 MP₁

Id. G. V. Williams, E. Bowell (1954 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	313.85790		(2000.0)		P		Q
<i>n</i>	0.18230288	ω	131.02310	+0.92162649			+0.38425594
<i>a</i>	3.0803994	Ω	206.51446	-0.38246903			+0.87564272
<i>e</i>	0.1384744	<i>i</i>	6.99054	-0.06574233			+0.29256998
<i>P</i>	5.41	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

540728	675	0.3-	0.4+	931212	595	0.7-	0.1-	970625	595	0.7+	0.1+
540728	675	0.2+	0.1-	931212	595	1.2-	0.5-	970625	595	0.0	0.3-
931204	595	1.3+	0.3-	931222	595	0.6+	0.0	970628	595	0.7+	0.2-
931204	595	0.3-	0.5+	931223	595	(2.5-	1.0+)	970628	595	0.7+	0.0
931204	595	0.4+	0.3-	940118	595	0.8-	0.4+	970701	595	0.6-	0.3-
931205	595	0.7+	0.5-	940118	595	0.6-	0.4+	970701	595	1.1-	0.7-
931205	595	0.0	0.3-	940118	595	0.8-	0.1-	970703	595	0.3-	0.1+
931206	595	0.7+	0.2+	940130	595	0.7+	0.7-	970703	595	0.0	0.9+
931206	595	0.1-	0.3+	940131	595	0.1-	0.7+				

1994 AT₁

Id. E. Bowell (1991 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	358.60515		(2000.0)		P		Q
<i>n</i>	0.22808814	ω	328.57421	+0.89814045			-0.39338940
<i>a</i>	2.6529816	Ω	55.85515	+0.43634395			+0.74221881
<i>e</i>	0.2242776	<i>i</i>	13.73045	+0.05429264			+0.54254587
<i>P</i>	4.32	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

910513	675	0.8+	0.5+	940111	385	0.8+	0.0	940119	385	0.3+	0.2-
910513	675	1.3-	0.5-	940111	385	0.1+	0.2+	940121	898	1.5-	0.3-
910515	675	0.3+	0.4+	940114	385	0.4+	0.4+	940121	898	0.7-	1.4-
910515	675	0.2+	0.5-	940114	385	0.1-	0.3+	940207	385	0.2+	0.5+
940109	898	0.4-	0.0	940114	385	0.3+	0.2-	940207	385	0.1+	0.3+
940109	898	0.0	0.1-	940119	385	0.0	0.0	940207	385	0.3+	0.3+
940111	385	0.5+	0.2+	940119	385	0.2-	0.0				

1994 PA₁₉ = 1997 LA₁₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	233.48479	ω	191.57220	+0.93111495	−0.36468630		
<i>a</i>	2.4289151	Ω	189.82118	+0.33709178	+0.86609692		
<i>e</i>	0.1877901	<i>i</i>	1.80439	+0.13926262	+0.34187721		
<i>P</i>	3.79	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

940812 809	0.1+	1.2+	940905 809	0.3−	0.5+	970607 809	1.5+	0.8+
940812 809	0.3−	0.7+	940905 809	0.9+	0.3+	970607 809	0.4+	1.0+
940812 809	1.3−	1.0+	940905 809	0.0	0.4−	970607 809	1.6−	0.1+
940813 809	0.8+	1.2−	940906 809	0.4−	0.3−	970608 809	0.3+	1.1−
940813 809	0.3+	1.1−	940906 809	0.2−	0.4−	970608 809	0.1−	0.4−
940813 809	0.3+	0.5−	940906 809	0.0	0.3+	970608 809	0.4−	0.4−

1994 PC₃₄ = 1993 JM

Id. A. Gnädig

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	225.76789	ω	135.27204	+0.36574580	+0.92777708		
<i>a</i>	2.9950447	Ω	155.88981	−0.89652481	+0.37251859		
<i>e</i>	0.0672381	<i>i</i>	10.42126	−0.24994653	+0.02143821		
<i>P</i>	5.18	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

930514 399	1.7+	1.3−	940810 809	0.1+	1.1+	940903 809	0.1+	0.8−
930514 399	0.4−	1.4−	940811 809	0.9−	1.6−	940904 809	0.3+	1.1+
930516 399	0.1+	0.0	940811 809	0.6−	1.5−	940904 809	0.4+	0.0
930516 399	1.4−	2.7+	940811 809	0.7−	1.3−	940904 809	0.0	0.5+
940810 809	1.2+	2.1+	940903 809	0.2−	0.1−			
940810 809	0.7+	1.2+	940903 809	0.4−	0.6−			

1994 TU₂ = 1997 LZ₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	277.63406	ω	149.31142	+0.98299086	+0.18265291		
<i>a</i>	2.3781293	Ω	200.19091	−0.17775009	+0.91996751		
<i>e</i>	0.2568676	<i>i</i>	3.18125	−0.04619379	+0.34683958		
<i>P</i>	3.67	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

941002 400	0.0	0.0	941101 691	0.4+	0.7−	970607 809	1.5+	0.9+
941002 400	0.7+	0.0	941101 691	0.4+	0.6−	970607 809	0.6+	0.0
941003 400	0.3+	0.8+	941101 691	0.3+	0.6−	970607 809	1.6−	1.5+
941003 400	0.6−	0.1−	970504 809	0.8+	0.4−	970608 809	0.9+	0.5−
941026 400	(3.0+	0.2−)	970504 809	0.9−	0.5−	970608 809	0.3−	0.7−
941026 400	1.2−	0.5+	970504 809	0.9−	0.8−	970608 809	0.3−	0.3−

1994 UO = 1989 WU₆ = 1989 WT₇ = 1997 LT₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	212.28487	ω	239.09137	+0.89988494	−0.43532797		
<i>a</i>	2.8932830	Ω	146.69405	+0.41475076	+0.83549404		
<i>e</i>	0.0867137	<i>i</i>	2.75511	+0.13486622	+0.33531964		
<i>P</i>	4.92	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

891122 494	1.0+	2.3−	941109 411	1.4+	1.0+	941202 691	0.9−	0.5−
891125 494	0.9−	2.0+	941109 411	0.3−	0.2+	970607 809	0.6+	0.3−
941031 411	0.5−	1.2+	941127 411	0.2+	0.2−	970607 809	0.6−	0.1−
941031 411	1.3−	0.2−	941127 411	0.5+	0.5+	970607 809	0.3−	0.1−
941101 411	0.5+	0.4−	941128 675	0.7+	0.9+	970608 809	0.2+	0.9+
941101 411	1.1+	1.3−	941128 675	0.2+	0.0	970608 809	0.3+	0.1−
941103 411	0.7+	0.0	941202 691	0.9−	0.8−	970608 809	0.3−	0.4−
941103 411	0.7−	0.5+	941202 691	0.9−	0.5−			

1994 VM₁ = 1997 LE₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	167.38273	ω	240.20889	+0.48594298	−0.87398991		
<i>a</i>	3.0587795	Ω	180.71923	+0.82746778	+0.46045413		
<i>e</i>	0.1965510	<i>i</i>	4.69381	+0.28134765	+0.15531783		
<i>P</i>	5.35	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

941104 411	0.2+	0.1+	941110 411	0.2+	0.0	970607 809	0.3+	0.1−
941104 411	0.4−	0.0	941124 411	0.1+	0.4+	970608 809	0.2−	1.2+
941108 411	0.4+	0.1−	941124 411	0.1−	0.3−	970608 809	0.0	0.3−
941108 411	0.1−	0.0	970607 809	0.0	1.0−	970608 809	0.1−	0.3−
941110 411	0.3−	0.1−	970607 809	0.1+	0.4+			

1994 VW₂ = 1997 LA₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	222.35609	ω	312.74845	+0.85537980	−0.51050009		
<i>a</i>	0.22381113	Ω	78.12751	+0.49761192	+0.76270536		
<i>e</i>	2.6866737	<i>i</i>	5.14954	+0.14390200	+0.39707707		
<i>P</i>	0.2963154	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

941104 400	0.9−	1.3+	941126 400	0.2−	0.3−	970607 809	0.7−	1.4−
941104 400	0.8−	0.9+	941126 400	0.2+	0.4−	970607 809	0.7−	1.9−
941106 400	1.9+	1.4−	941127 675	1.1+	0.5+	970608 809	0.5+	1.4+
941106 400	0.0	0.9−	941127 675	0.5+	0.3−	970608 809	0.9+	2.4+
941124 894	0.8−	0.4−	941128 675	0.8−	0.3−	970608 809	0.2+	0.9+
941124 894	0.3−	0.2+	941128 675	0.3−	1.3+			
941125 894	0.3+	0.2−	970607 809	0.2−	1.3−			

1994 WP₁ = 1997 NG

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	189.26662	ω	198.37042	−0.43781501	−0.89657528		
<i>a</i>	0.24157075	Ω	277.63949	+0.83310272	−0.37660905		
<i>e</i>	2.5533273	<i>i</i>	3.86826	+0.33802051	−0.23306306		
<i>P</i>	0.1664647	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

941127 411	0.1−	0.7+	941221 411	0.2−	0.1−	970707 691	0.1+	0.4−
941127 411	1.1−	0.0	970701 691	0.3−	0.3+	970707 691	0.7−	0.3−
941128 411	0.3+	0.5−	970701 691	0.1−	0.3−	970707 691	0.1−	0.1−
941128 411	0.5+	0.1−	970701 691	0.1−	0.1+	970712 691	1.0+	0.1−
941206 411	0.2+	0.1−	970702 691	0.2−	0.3+	970712 691	0.1+	0.0

941206 411 0.3+ 0.1+ 970702 691 0.3- 0.0 970712 691 0.7+ 0.1-
 941221 411 0.1- 0.0 970702 691 0.3- 0.5+

1994 WR₂ = 1952 UV = 1997 LJ₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21288912	ω	318.84004	+0.86843871	-0.47347633		
<i>a</i>	2.7777964	Ω	69.98897	+0.48593658	+0.75397860		
<i>e</i>	0.2320065	<i>i</i>	9.00594	+0.09838621	+0.45534210		
<i>P</i>	4.63	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

521023 760 0.9- 0.5- 941207 411 0.0 0.4+ 970607 809 0.2- 1.9-
 521023 760 1.0+ 0.4+ 941207 411 0.1- 0.1+ 970608 809 0.9+ 2.0+
 941130 411 0.2- 0.7- 941222 411 0.4+ 0.0 970608 809 0.4+ 2.6+
 941130 411 0.6+ 0.1+ 941222 411 0.2- 0.6- 970608 809 0.4- 1.3+
 941203 411 0.2- 0.4+ 970607 809 0.4- 2.6-
 941203 411 0.2- 0.2+ 970607 809 0.4- 1.7-

1995 CH = 1986 EV₂ = 1997 ND₉

Id. G. V. Williams, S. Nakano

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22338653	ω	294.93665	+0.37108580	-0.91022761		
<i>a</i>	2.6900771	Ω	131.98342	+0.91595059	+0.32623362		
<i>e</i>	0.1557646	<i>i</i>	14.31530	+0.15274111	+0.25506338		
<i>P</i>	4.41	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

860306 675 (3.7- 0.9+) 950207 411 0.4- 0.7- 970713 910 0.1+ 0.1+
 860306 675 2.0- 0.5+ 950207 411 0.8- 0.2- 970713 910 0.1+ 0.0
 860308 675 2.0+ 0.9+ 950210 411 1.4- 0.5- 970713 910 0.2+ 0.1+
 860308 675 (2.7+ 0.2-) 950210 411 0.8- 0.3+ 970714 910 0.1- 0.2+
 950201 411 0.4+ 1.6+ 950219 411 0.0 0.0 970714 910 0.2- 0.5+
 950201 411 0.6- 0.3+ 950219 411 1.4+ 1.5+ 970714 910 0.2- 0.3+
 950203 411 0.6+ 0.3- 950301 411 0.8+ 1.7-
 950203 411 0.6+ 0.4- 950301 411 (0.8- 3.0-)

1995 CD₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.16893574	ω	24.59660	-0.23861494	+0.92772525		
<i>a</i>	3.2408208	Ω	232.90723	-0.93989699	-0.29496594		
<i>e</i>	0.0413018	<i>i</i>	21.09071	-0.24424693	+0.22873776		
<i>P</i>	5.83	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

950208 413 0.5- 1.3- 950307 413 0.6+ 0.5+ 960514 566 0.1+ 0.0
 950208 413 0.4- 0.5+ 950417 413 0.9- 0.1- 970521 327 0.4- 0.0
 950209 413 0.3- 0.1- 950417 413 0.9- 0.1- 970521 327 0.6- 0.2+
 950209 413 0.4- 0.2- 950602 413 0.6+ 0.3- 970521 327 0.2+ 0.0
 950220 413 0.7+ 0.5+ 950602 413 0.7+ 0.2- 970521 327 0.6+ 0.1+
 950220 413 0.8+ 0.5+ 960514 566 0.0 0.2-
 950307 413 0.3+ 0.4+ 960514 566 0.1- 0.0

1995 FY₂ = 1993 TY₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21439925	ω	74.66349	+0.10122469	-0.99451586		
<i>a</i>	2.7647373	Ω	9.64221	+0.84189524	+0.07154493		
<i>e</i>	0.1291217	<i>i</i>	9.03442	+0.53006223	+0.07628580		
<i>P</i>	4.60	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

931011 691 0.1- 0.2- 950323 691 0.2- 0.0 950329 691 0.2- 0.1-
 931011 691 0.1+ 0.1- 950323 691 0.2- 0.3- 950404 691 0.1- 0.1-
 931011 691 0.3+ 0.1- 950323 691 0.2- 0.2- 950404 691 0.1- 0.3-
 931013 691 0.2- 0.1- 950327 675 1.2+ 0.7+ 950404 691 0.0 0.1-
 931013 691 0.6- 0.1+ 950329 691 0.2- 0.1-
 931013 691 0.6+ 0.4+ 950329 691 0.1+ 0.2+

1995 SW₄₈ = 1997 LO₇

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

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.37758234	ω	145.78926	+0.86702865	-0.34659138		
<i>a</i>	1.8958105	Ω	238.52381	+0.30875233	+0.93759279		
<i>e</i>	0.0852010	<i>i</i>	24.81686	+0.39106689	+0.02818110		
<i>P</i>	2.61	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

950927 693 0.7+ 0.2- 951011 695 0.6+ 0.0 970603 566 0.3- 0.4+
 950927 693 0.3+ 0.2- 951110 608 0.3- 0.4- 970607 809 0.6+ 1.3-
 950930 693 0.6- 0.5+ 951110 608 1.2- 1.9- 970607 809 0.2+ 1.5-
 950930 693 1.0- 1.1+ 951113 608 0.2+ 0.6+ 970607 809 (0.6+ 2.7-)
 950930 693 0.1+ 0.1- 951113 608 0.2+ 0.7+ 970608 809 0.4+ 1.4+
 950930 693 0.6+ 0.4- 970603 566 0.2- 0.2+ 970608 809 0.8+ 0.3-
 951011 695 0.5+ 0.1+ 970603 566 1.3- 0.4+ 970608 809 0.0 0.3+

1996 AJ₂ = 1997 ME₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26454690	ω	35.09701	-0.85985900	-0.50762384		
<i>a</i>	2.4032610	Ω	114.30881	+0.45368876	-0.80864248		
<i>e</i>	0.1277157	<i>i</i>	3.42283	+0.23411325	-0.29734722		
<i>P</i>	3.73	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

960113 411 0.3+ 0.2+ 960123 411 0.2+ 0.2- 970629 704 0.0 0.0
 960113 411 0.4- 0.9+ 960123 411 0.6- 0.2- 970702 704 0.2- 0.5-
 960116 411 0.7+ 1.1- 960212 411 0.1+ 0.2- 970702 704 0.1- 0.4+
 960116 411 0.5- 0.2+ 960212 411 0.1- 0.5+ 970702 704 0.3+ 0.1-
 960118 411 0.1+ 0.6- 970629 704 0.0 0.2+ 970702 704 0.4- 0.2-
 960118 411 0.1+ 1.2+ 970629 704 0.7+ 0.3+ 970702 704 0.2- 0.3-
 960123 411 0.2+ 0.7- 970629 704 0.0 0.2+

1996 CT₇ = 1997 LE₁₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	200.96564	(2000.0)	P		Q	
<i>n</i>	0.26105609	ω 192.59648	+0.72543766	−0.68609177		
<i>a</i>	2.4246375	Ω 210.95165	+0.64039642	+0.70206131		
<i>e</i>	0.1323808	<i>i</i> 6.13201	+0.25225508	+0.19075637		
<i>P</i>	3.78	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

960115 691	2.1−	0.1+	960118 098	0.3+	0.6−	960224 098	1.7−	2.2−
960115 691	1.0−	0.1+	960119 098	0.8+	1.1+	970607 809	1.0+	1.0−
960115 691	1.0−	0.0	960213 098	0.2+	1.4−	970607 809	0.7−	1.1−
960115 098	0.8+	0.1+	960214 098	1.5+	0.6−	970607 809	0.3−	0.8−
960115 098	3.1+	1.2−	960215 098	1.3−	0.9+	970608 809	0.4−	0.6+
960116 098	1.1+	0.7+	960217 098	0.9+	0.7−	970608 809	0.0	1.1+
960117 098	0.2−	0.3−	960217 098	2.8−	2.5+	970608 809	0.4+	1.1+
960117 098	1.5−	0.1+	960224 098	3.0+	1.2+			

1996 CW₇ = 1977 QW₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	33.69767	(2000.0)	P		Q	
<i>n</i>	0.29846643	ω 154.09418	+0.16589291	+0.98284645		
<i>a</i>	2.2175447	Ω 125.35366	−0.92107109	+0.18361720		
<i>e</i>	0.2081073	<i>i</i> 5.66969	−0.35228908	−0.01725069		
<i>P</i>	3.30	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

770819 095	0.2+	0.6−	960224 098	0.6+	0.2+	960320 098	1.2+	0.7+
960214 098	0.5−	1.0−	960224 098	1.2+	0.4−	970710 599	0.9+	0.5−
960214 098	1.0−	0.5−	960314 098	0.6−	0.1−	970710 599	1.5−	2.1+
960215 098	1.2−	0.4+	960314 098	0.9−	0.1+			
960215 098	0.7+	0.2+	960320 098	0.6+	0.7+			

1996 DD = 1991 UH₅

Id. B. A. Skiff, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	217.13552	(2000.0)	P		Q	
<i>n</i>	0.30441885	ω 31.88594	+0.07877417	−0.99638522		
<i>a</i>	2.1885427	Ω 53.61502	+0.90613131	+0.05826808		
<i>e</i>	0.0019256	<i>i</i> 2.26368	+0.41559677	+0.06181686		
<i>P</i>	3.24	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

911017 675	0.5+	0.7−	960227 411	0.3−	0.4−	960310 966	0.8+	0.6+
911105 691	0.2−	0.3+	960227 411	0.7−	0.4−	960322 411	0.1−	0.2−
911105 691	0.1−	0.2+	960301 966	0.5+	0.2−	960322 411	1.4−	0.4−
911105 691	0.2−	0.2+	960301 966	0.3−	0.4−	960326 566	0.3+	0.1−
960218 411	0.4−	0.9+	960301 966	0.0	0.0	960326 566	0.5+	0.4+
960218 411	1.0+	0.9−	960309 411	0.3+	0.1+	960326 566	0.5+	0.1−
960219 411	0.1+	0.5−	960309 411	0.0	1.7+			
960219 411	1.1−	0.5−	960310 966	0.3+	0.2+			

1996 DD₃ = 1976 YT₁

Id. A. Nakamura (1997 observations), S. Nakano

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	143.43597	(2000.0)	P		Q	
<i>n</i>	0.26394364	ω 85.95689	−0.62391293	−0.78015958		
<i>a</i>	2.4069214	Ω 42.75800	+0.68768243	−0.57582819		
<i>e</i>	0.1881091	<i>i</i> 3.85530	+0.37124862	−0.24448502		
<i>P</i>	3.73	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

761216 095	0.0	0.3+	960313 360	0.2−	0.2+	960522 691	0.8−	0.5−
960216 566	0.9−	0.9−	960313 360	0.1−	0.2−	960522 691	0.5−	0.3−
960216 566	1.3−	1.3−	960325 360	0.6+	0.7−	960523 691	0.3−	0.1+
960216 566	1.0−	1.0−	960325 360	0.7+	0.4−	960523 691	0.5−	0.2−
960228 360	0.2−	0.6+	960325 360	0.2+	0.2−	960523 691	0.7−	0.2−
960228 360	0.0	0.6+	960407 360	0.8+	0.1+	970629 360	0.3−	0.1−
960228 360	0.1+	0.6+	960407 360	0.7+	0.3+	970629 360	0.2+	0.7+
960302 360	0.4+	1.1+	960407 360	0.7+	0.1+	970629 360	0.4−	0.1−
960302 360	0.7+	1.1+	960509 360	0.6+	0.5−	970705 360	0.2+	0.0
960302 360	0.3+	1.1+	960509 360	0.8+	0.2+	970705 360	0.2+	0.2+
960313 360	0.1−	0.3+	960522 691	0.7−	0.3−			

1996 HX

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	359.99428	(2000.0)	P		Q	
<i>n</i>	0.18785843	ω 316.64550	+0.75868789	+0.65143399		
<i>a</i>	3.0193649	Ω 2.72004	−0.56419555	+0.66099189		
<i>e</i>	0.1702179	<i>i</i> 6.22106	−0.32569321	+0.37245601		
<i>P</i>	5.25	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

960419 684	0.0	0.2−	960424 684	0.2+	0.3+	960708 684	0.1+	0.6−
960419 684	0.2+	0.4−	960424 684	0.2+	0.3+	960708 684	0.6−	0.4−
960421 684	0.0	0.0	960510 684	0.0	0.4+	960709 684	0.4−	0.0
960421 684	0.0	0.0	960510 684	0.0	0.3+	970705 684	0.1−	0.2+
960421 684	0.2−	0.2−	960520 684	0.1+	0.1+	970705 684	0.0	0.1+
960422 684	0.1+	0.0	960520 684	0.0	0.1+	970705 684	0.2−	0.1+
960422 684	0.0	0.1+	960605 684	0.0	0.3−	970706 684	0.2+	0.2−
960422 684	0.2+	0.5+	960605 684	0.0	0.2−	970706 684	0.0	0.1+
960424 684	0.1−	0.4+	960605 684	0.2+	0.3−	970706 684	0.1−	0.1−

1996 JS₅ = 1997 NL₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	10.22052	(2000.0)	P		Q	
<i>n</i>	0.17611296	ω 120.11142	+0.32219925	+0.94658517		
<i>a</i>	3.1521618	Ω 168.66268	−0.88943932	+0.30732696		
<i>e</i>	0.1035357	<i>i</i> 3.73690	−0.32416869	+0.09760460		
<i>P</i>	5.60	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

960324 809	2.4+	1.6−	960511 691	0.1+	0.4−	970702 691	0.4−	0.0
960324 809	1.5+	1.4−	960511 691	0.2−	0.1+	970702 691	0.5−	0.1+
960324 809	1.2+	1.8−	960511 691	0.3−	0.1+	970702 691	0.3−	0.1−
960327 809	2.8−	1.5+	960515 691	0.5+	0.6+	970711 691	0.4+	0.2−
960327 809	1.4−	0.9+	960515 691	0.3+	0.6+	970711 691	0.5+	0.1−
960327 809	1.6−	0.9+	960515 691	0.3+	0.3+	970711 691	0.3+	0.0

1996 OO

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	88.61883		(2000.0)	P	Q
<i>n</i>	0.12360746	ω	19.38541	-0.31904699	+0.93721435
<i>a</i>	3.9912255	Ω	232.26282	-0.89135523	-0.34722934
<i>e</i>	0.0795378	<i>i</i>	10.25927	-0.32201688	+0.03257366
<i>P</i>	7.97	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

960720	557	0.1-	0.2-	960726	557	0.4+	0.0	961012	557	0.5+	0.1+
960720	557	0.1+	0.2+	960805	557	0.6+	0.7+	961012	557	0.3+	0.2+
960720	557	0.2+	0.3-	960805	557	0.4+	0.1+	970709	557	0.0	0.2-
960721	557	0.1-	0.3-	960805	557	0.5+	0.2-	970709	557	0.1+	0.1-
960721	557	0.1-	0.2-	960819	557	0.7-	0.7-	970709	557	0.0	0.0
960721	557	0.1+	0.1-	960819	557	0.1-	0.2+	970710	557	0.0	0.1-
960726	557	0.3-	0.0	961011	557	0.4-	0.3-	970710	557	0.0	0.3+
960726	557	0.1+	0.3+	961011	557	0.2-	0.1-				
960726	557	0.9-	0.4+	961011	557	0.2-	0.3+				

1996 PO₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	117.99340		(2000.0)	P	Q
<i>n</i>	0.25800492	ω	123.13020	+0.06400523	+0.99431585
<i>a</i>	2.4437159	Ω	150.18696	-0.96311755	+0.08387520
<i>e</i>	0.0869325	<i>i</i>	9.85391	-0.26135784	-0.06558158
<i>P</i>	3.82	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 5

From 12 observations 1996 May 18-Sept. 8, mean residual 0".47.

1996 RR₂₀

Id. C. Veillet (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	126.12999		(2000.0)	P	Q
<i>n</i>	0.00397943	ω	41.62966	-0.90431172	+0.42606330
<i>a</i>	39.4386486	Ω	163.53058	-0.41204347	-0.85515855
<i>e</i>	0.1466654	<i>i</i>	5.31779	-0.11153693	-0.29525231
<i>P</i>	248	<i>H</i>	7.0	<i>G</i> 0.15	<i>U</i> 8

Residuals in seconds of arc

960915	950	0.0	0.0	961112	711	0.4-	1.5-	961114	711	0.3-	0.1-
960915	950	0.1+	0.0	961112	711	0.1-	0.7+	961114	711	0.1-	0.7+
960915	950	0.0	0.3-	961112	711	0.8+	0.6-	961114	711	0.1-	0.0
960919	950	0.1+	0.2+	961112	711	0.6+	0.1-	970628	568	0.3+	0.6-
960920	950	0.0	0.0	961113	711	0.1-	0.4+	970629	568	0.2-	0.1-
960920	950	0.1-	0.1-	961113	711	0.5+	0.2-	970629	568	0.2+	0.1+
960921	950	0.1-	0.1+	961113	711	0.2-	0.2+	970629	568	0.3-	0.6+
961112	711	0.1-	0.1+	961113	711	0.4-	0.2-				
961112	711	0.8-	0.5+	961114	711	0.6+	0.4+				

1996 TV₁₇ = 6849 P-L

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	93.41527		(2000.0)	P	Q
<i>n</i>	0.22058110	ω	314.68625	+0.91850515	+0.39377709
<i>a</i>	2.7128380	Ω	22.19888	-0.33058857	+0.81455588
<i>e</i>	0.1673745	<i>i</i>	5.45040	-0.21693198	+0.42595577
<i>P</i>	4.47	<i>H</i>	16.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

600924	675	0.5-	0.4-	600928	675	1.5+	0.7-	961011	691	0.2+	0.3+
600924	675	1.8+	0.2+	961004	691	0.0	0.2-	961011	691	0.1-	0.0
600926	675	0.3+	0.9+	961004	691	0.0	0.1+	961011	691	0.1+	0.1-
600926	675	0.0	0.2-	961004	691	0.0	0.2-	961016	691	0.1-	0.0
600927	675	2.1-	0.8+	961010	691	0.1+	0.0	961016	691	0.1-	0.2-
600927	675	0.6+	0.2-	961010	691	0.3+	0.1-	961016	691	0.3-	0.4+
600928	675	1.6-	0.3-	961010	691	0.1-	0.0				

1996 TL₆₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	358.28531		(2000.0)	P	Q
<i>n</i>	0.00127732	ω	183.81909	+0.75156844	-0.61095406
<i>a</i>	84.1273265	Ω	217.75905	+0.61547546	+0.78514669
<i>e</i>	0.5833047	<i>i</i>	23.96876	+0.23734963	-0.10138937
<i>P</i>	772	<i>H</i>	5.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

961009	568	0.0	0.2-	961119	696	0.1-	0.1+	970202	046	1.9+	1.0-
961009	568	0.2-	0.2-	961215	696	0.3-	0.0	970204	709	0.8+	0.4+
961009	568	0.1+	0.4-	961215	696	0.4-	0.2-	970204	709	1.0+	0.7+
961013	568	0.4+	0.6-	961215	696	0.3-	0.1+	970210	697	0.2+	0.7+
961013	568	0.7+	0.5-	961216	696	0.4+	0.4+	970210	709	0.3-	0.2+
961013	568	0.1+	0.7-	961216	696	0.7-	0.6+	970210	709	0.3-	0.1+
961015	568	0.4+	0.2-	961217	696	0.1+	0.3-	970210	697	0.0	0.7+
961015	568	0.4+	0.2-	970110	709	0.2-	0.3-	970210	709	0.3-	0.3+
961015	568	0.4+	0.2-	970110	709	0.2-	0.1-	970211	709	0.3-	0.5+
961015	568	0.4+	0.5-	970110	709	1.4-	1.4+	970211	709	1.5-	1.4+
961015	568	0.5+	0.5-	970111	709	0.3+	0.3+	970711	696	0.3-	0.3-
961015	568	0.6+	0.4-	970111	709	0.0	0.2+	970711	709	0.2+	0.1-
961115	696	1.2-	0.2+	970111	709	0.1-	0.2+	970711	709	0.3+	0.3-
961115	696	0.1-	0.2+	970131	709	0.4+	0.3-	970711	696	0.1+	0.5-
961115	696	0.2-	0.1+	970201	709	0.6+	0.0	970712	709	0.2+	0.2-
961117	696	0.1-	0.2-	970201	709	0.3+	0.0	970712	709	0.4+	0.6-
961117	696	0.5-	0.0	970201	696	0.9-	0.2-	970712	696	0.1+	0.2+
961118	696	0.3-	0.1-	970201	696	1.2-	0.2-	970712	709	0.2-	0.4-
961118	696	0.3-	0.1+	970201	046	0.5+	0.7-	970712	709	0.3-	0.8-
961119	696	0.0	0.2+	970201	046	0.2+	1.8+	970712	696	0.2+	0.2+

1996 TO₆₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	113.39995		(2000.0)	P	Q
<i>n</i>	0.00344209	ω	240.30301	-0.55819677	+0.82881842
<i>a</i>	43.4431082	Ω	355.20306	-0.50861170	-0.37839649
<i>e</i>	0.1088490	<i>i</i>	27.35354	-0.65553833	-0.41216031
<i>P</i>	286	<i>H</i>	4.0	<i>G</i> 0.15	<i>U</i> 7

Residuals in seconds of arc

961012	568	0.0	1.6-	970111	709	1.2-	0.1-	970201	696	0.7+	0.2+
961012	568	0.2+	1.7-	970111	709	1.4-	1.0+	970201	696	1.7+	0.1+
961012	568	0.3+	1.7-	970111	709	2.0-	1.4-	970204	709	0.5-	0.3+
961013	568	0.2+	0.1+	970116	709	0.2-	0.9+	970204	709	0.7-	1.1-
961013	568	0.2+	0.3+	970116	709	0.5-	1.1+	970611	696	0.0	0.5-
961013	568	0.4+	0.1+	970116	709	0.1+	0.9+	970617	709	0.4-	0.0
961115	696	0.3+	1.3+	970118	709	0.1-	1.4+	970618	709	0.5+	0.1+

961117 696	0.3−	0.4+	970118 709	0.4+	0.7+	970702 709	0.1+	0.4−
961117 696	0.8+	0.3−	970201 709	1.2−	0.3+	970702 709	1.2+	0.4−
961215 696	0.8+	0.8+	970201 696	0.9+	0.1+	970703 709	0.3−	0.7−

1996 TP₆₆

Epoch 1997 June 1.0 TT = JDT 2450600.5								
			Marsden					
<i>M</i>	355.54489		(2000.0)	P		Q		
<i>n</i>	0.00394476	ω	75.94806	+0.83960980		−0.53891242		
<i>a</i>	39.6693888	Ω	316.60582	+0.45229784		+0.76297249		
<i>e</i>	0.3356642	<i>i</i>	5.68334	+0.30080235		+0.35699634		
<i>P</i>	250	<i>H</i>	6.0	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

961011 568	0.2−	0.1−	961115 696	0.8+	0.5−	970701 709	0.0	0.1−
961011 568	0.2−	0.2−	961117 696	0.8+	0.4+	970701 709	0.8−	0.2−
961011 568	0.2−	0.1−	961117 696	0.2−	0.6−	970702 709	0.6−	1.8+
961013 568	0.2−	0.9+	961215 696	0.4−	0.2−	970702 709	0.5−	1.7−
961013 568	0.3−	0.9+	961215 696	0.2−	0.2−	970702 709	1.2+	0.4+
961013 568	0.2−	0.9+	970201 696	0.4+	0.3−	970703 709	0.3+	0.3+
961115 696	0.4+	1.3−	970201 696	0.0	0.4−	970703 709	0.2+	0.1+

1996 TQ₆₆

Epoch 1997 June 1.0 TT = JDT 2450600.5								
			Marsden					
<i>M</i>	1.87758		(2000.0)	P		Q		
<i>n</i>	0.00395446	ω	14.23715	+0.90832000		−0.41564133		
<i>a</i>	39.6045113	Ω	10.69065	+0.35478319		+0.70623151		
<i>e</i>	0.1260795	<i>i</i>	14.63589	+0.22154835		+0.57313117		
<i>P</i>	249	<i>H</i>	6.5	<i>G</i>	0.15			

Residuals in seconds of arc

961008 568	0.1+	0.1+	961012 568	0.8+	0.0	961118 696	0.2−	0.6−
961008 568	0.0	0.1+	961012 568	0.4−	0.1−	970711 696	0.7−	0.2+
961008 568	0.1+	0.1+	961012 568	0.2−	0.1+	970712 696	0.2−	0.2+
961012 568	0.3−	0.1+	961117 696	0.2+	0.2−	970712 696	0.4+	0.2+
961012 568	0.2−	0.4+	961117 696	0.1+	0.0	970713 696	0.5+	0.4−
961012 568	0.3−	0.2+	961118 696	0.2+	0.2−			

1996 TS₆₆

Epoch 1997 June 1.0 TT = JDT 2450600.5								
			Marsden					
<i>M</i>	330.93308		(2000.0)	P		Q		
<i>n</i>	0.00335397	ω	149.36810	+0.25354743		−0.95944208		
<i>a</i>	44.2007845	Ω	285.70523	+0.85953846		+0.28189748		
<i>e</i>	0.1441125	<i>i</i>	7.35430	+0.44374242		+0.00216872		
<i>P</i>	294	<i>H</i>	6.0	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

961012 568	0.2+	0.3+	961117 696	0.5+	0.1−	961215 696	0.0	0.1−
961012 568	0.2+	0.1+	961117 696	0.3−	0.6−	970201 696	0.2−	0.3+
961012 568	0.0	0.1+	961118 696	0.5−	0.1+	970711 696	0.4+	0.1−
961014 568	0.1+	0.0	961118 696	0.2−	0.3+	970711 696	0.1−	0.1+
961014 568	0.1−	0.3−	961118 696	0.1−	0.1+	970712 696	0.3−	0.1−
961014 568	0.1−	0.2−	961215 696	0.6+	0.1+			

1996 VA₇

Id. E. Bowell (1994 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

			Williams					
<i>M</i>	282.92918		(2000.0)	P		Q		
<i>n</i>	0.23789576	ω	325.16730	−0.99554376		−0.08802802		
<i>a</i>	2.5795557	Ω	209.83685	+0.09428971		−0.93467895		
<i>e</i>	0.0909300	<i>i</i>	3.89753	−0.00143678		−0.34442172		
<i>P</i>	4.14	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

940312 675	0.3+	1.2−	961023 327	1.2−	0.7−	961109 327	0.8+	0.2−
940312 675	0.9+	0.9+	961023 327	0.4−	0.5−	961127 327	0.0	0.0
940404 675	0.4−	0.0	961102 327	0.1−	0.3−	961127 327	0.0	0.8+
940404 675	0.8−	0.2+	961102 327	0.4+	0.5−	961127 327	0.1+	0.0
961006 691	0.0	0.2+	961102 327	0.4+	0.1−	961127 327	0.4+	0.0
961006 691	0.0	0.2+	961102 327	0.5+	0.2−	961128 327	0.5−	0.6−
961006 691	0.0	0.3+	961109 327	0.4+	0.6+	961128 327	0.9−	0.2+
961023 327	(2.3−	0.6−)	961109 327	0.4+	0.4+	961128 327	0.1−	0.4+

1996 XJ₁₉ = 1991 UG₅

Id. B. A. Skiff, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5								
			Williams					
<i>M</i>	320.32712		(2000.0)	P		Q		
<i>n</i>	0.22143857	ω	325.04663	−0.99825844		−0.05220705		
<i>a</i>	2.7058302	Ω	211.99427	+0.05857834		−0.93230334		
<i>e</i>	0.0417739	<i>i</i>	2.97174	−0.00697605		−0.35788953		
<i>P</i>	4.45	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

911017 675	1.1+	1.0+	961208 411	0.1−	0.5+	961228 411	0.1+	0.9−
911105 691	0.6−	0.6−	961211 411	0.2+	0.7+	961228 411	0.3+	0.2−
911105 691	0.3−	0.2−	961211 411	0.4+	0.7+	970113 411	0.5−	0.6−
911105 691	0.1−	0.4−	961218 411	0.4−	0.0	970113 411	0.4+	0.4+
961208 411	0.4−	0.1+	961218 411	0.1+	0.4−			

1997 BR

Epoch 1997 June 1.0 TT = JDT 2450600.5								
			Williams					
<i>M</i>	356.76950		(2000.0)	P		Q		
<i>n</i>	0.63823469	ω	133.73673	−0.30440653		+0.91507366		
<i>a</i>	1.3360287	Ω	116.78941	−0.93674463		−0.23721490		
<i>e</i>	0.3058711	<i>i</i>	17.23776	−0.17276042		−0.32614306		
<i>P</i>	1.54	<i>H</i>	17.5	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

800209 381	0.0	1.3−	970209 402	0.4+	0.1−	970317 118	0.3−	0.0
800209 381	(2.8+	5.3−)	970209 402	0.4+	0.5+	970321 327	1.3+	1.9−
970120 327	1.1+	0.2+	970209 360	0.7+	0.3+	970321 327	(0.7−	2.1−)
970120 327	0.4−	0.1+	970209 360	0.8+	0.3+	970322 327	0.4+	0.4−
970120 327	1.0+	0.6+	970209 360	0.6+	0.1+	970322 327	0.2+	0.1−
970122 327	0.8−	0.6+	970209 557	0.3+	0.3+	970322 327	0.6+	1.1−
970122 327	0.8−	1.4+	970209 557	0.1+	0.6+	970327 327	0.0	0.7−
970122 327	0.0	0.7+	970210 046	0.3+	0.3+	970327 327	0.3+	0.2−
970122 327	0.1+	1.3−	970210 046	0.1+	0.3+	970327 327	0.1+	0.7−
970122 327	0.8+	0.9+	970210 046	0.3+	0.3+	970327 327	0.4+	0.5−
970122 327	0.3+	1.3+	970210 473	0.5+	0.2+	970331 587	0.1+	0.3−
970122 327	0.9+	0.2+	970210 473	1.1+	0.9+	970331 587	0.1−	0.5−
970122 327	0.9−	0.7+	970210 473	0.7+	0.8+	970401 360	0.1+	0.4−
970122 327	0.1−	1.7+	970210 473	1.0+	0.9+	970401 360	0.1−	0.2+

1997 JULY 20

M.P.C. 30281

970122 327	0.3+	0.6+	970210 473	1.2+	1.4+	970401 360	0.7-	0.4+	970130 355	0.5-	0.3-	970227 118	0.2-	0.3-	970517 046	1.3-	0.0
970122 327	0.1-	0.9+	970210 557	0.2+	0.0	970402 046	0.1-	0.0	970131 670	(0.5-	2.0-)	970227 118	0.1-	0.0	970518 557	1.5-	0.1-
970124 817	0.4-	0.6+	970210 557	0.2-	0.3-	970402 046	0.2-	0.2-	970131 670	0.3-	0.1+	970228 327	0.5-	0.1-	970518 557	1.8-	0.7-
970124 817	0.3-	0.5-	970210 557	0.0	0.3-	970402 046	0.1-	0.5-	970131 670	0.5-	0.2+	970228 327	0.0	0.2-	970519 118	0.5+	0.6-
970124 817	0.3-	0.9-	970210 118	0.3-	1.2-	970406 566	0.0	0.2-	970131 360	0.1+	0.4-	970228 557	0.1-	0.1-	970519 118	0.1+	0.3-
970124 817	0.2-	0.3-	970210 118	0.1+	0.5-	970406 566	0.1-	0.1-	970131 360	0.1+	0.3-	970228 557	0.0	0.7-	970525 118	0.1+	0.2-
970124 658	1.5+	0.5+	970210 118	0.2-	1.1-	970406 566	0.4-	0.0	970131 360	0.0	0.3-	970228 557	0.3-	0.4-	970525 118	0.0	0.3-
970124 658	1.2+	0.2+	970211 557	0.2-	0.2+	970416 327	0.8-	0.7+	970131 596	0.2-	0.3-	970228 557	0.2-	0.3-	970525 118	0.3-	0.1+
970124 658	1.7+	0.0	970211 557	0.4+	0.2+	970416 327	0.5-	0.4+	970131 596	0.1+	0.8+	970228 046	0.9-	0.4-	970527 587	0.3+	0.3+
970124 608	0.6+	0.1+	970211 557	0.3+	0.1-	970416 327	0.2-	0.6+	970201 900	0.7+	0.3-	970228 046	0.9-	0.6-	970530 587	0.6-	0.1-
970124 608	1.6-	0.3+	970212 327	0.4-	1.9+	970416 327	0.5-	0.1+	970201 900	0.4+	0.2+	970228 046	0.9-	0.7-	970530 587	0.1+	0.3+
970124 327	0.5+	0.3+	970212 327	0.8-	1.8+	970421 658	1.0-	1.1+	970201 355	0.5+	0.8+	970228 046	0.8-	0.7-	970530 557	0.1+	0.1-
970124 327	0.2+	0.2+	970212 327	0.3-	1.6+	970421 658	0.9-	0.6+	970201 355	0.5+	0.5+	970301 557	0.1-	0.4-	970530 557	0.1+	0.0
970124 327	0.3-	0.4+	970212 327	0.8-	1.6+	970421 658	0.7-	0.8+	970201 355	0.6+	0.4+	970301 557	0.7-	0.6-	970530 557	0.1+	0.1-
970124 327	0.3-	0.2-	970212 327	0.5-	1.6+	970424 658	0.0	0.6+	970201 108	1.0+	0.2-	970301 557	0.2-	0.6-	970530 557	0.1+	0.1-
970124 327	0.2+	0.9-	970212 327	0.2-	1.7+	970424 658	0.2-	1.0+	970201 108	1.5+	1.8-	970301 473	0.3-	0.2-	970531 327	0.4-	0.7+
970124 327	0.2+	0.6+	970213 711	0.2-	0.3-	970424 658	0.3-	0.0	970202 118	0.9+	0.3+	970301 473	0.6-	0.0	970531 327	0.4-	0.0
970124 327	0.5+	0.2-	970213 711	0.2-	0.2-	970424 402	0.5-	1.2+	970202 118	0.9+	0.2+	970301 473	1.0-	0.2-	970603 327	0.0	0.5-
970125 327	0.5-	0.8+	970213 327	1.1-	1.8+	970424 402	0.0	0.8+	970202 118	0.8+	0.2+	970301 473	0.7-	1.0-	970603 327	0.9-	1.4+
970125 327	0.7+	0.0	970213 327	0.9-	1.5+	970424 402	0.2-	0.2+	970202 046	0.2+	0.2+	970301 557	0.1+	0.4-	970603 327	0.4-	0.2+
970125 327	0.0	1.3+	970213 327	0.7-	1.9+	970430 587	0.3-	0.1-	970202 046	0.3+	0.2+	970302 557	0.7-	0.6-	970603 327	0.6+	0.5+
970125 327	1.3+	0.9+	970216 557	0.6+	0.2-	970430 587	0.3-	0.0	970202 046	0.2+	0.2+	970302 473	0.0	0.1+	970610 557	0.2+	0.3+
970125 327	1.5+	0.9+	970216 557	0.0	0.3+	970501 402	0.9-	0.3-	970202 540	(1.8-	2.7+)	970302 473	0.9-	0.6-	970610 557	0.1+	0.0
970126 046	0.2+	0.3-	970216 557	0.5+	0.1+	970501 402	0.6-	0.3-	970202 540	0.3+	0.2-	970302 118	0.3-	0.6-	970614 327	0.6+	0.1-
970126 046	0.1+	0.2-	970217 557	0.4+	0.3+	970501 402	0.6-	0.4-	970202 540	0.6-	0.6+	970302 118	0.2-	0.4-	970614 327	0.4+	0.4+
970126 046	0.2-	0.1+	970217 557	0.1+	0.4+	970502 658	0.5-	0.4+	970202 540	0.6+	0.6-	970302 118	0.1-	0.6-	970623 402	0.4-	0.1-
970126 046	0.2+	0.6-	970217 557	0.4+	0.5+	970502 658	0.2-	0.7-	970203 557	0.9+	0.6-	970302 557	0.1+	0.5-	970623 402	0.4+	1.5-
970127 557	0.2+	0.2+	970217 557	0.1-	0.3+	970502 658	0.1+	0.5+	970203 557	0.8+	0.8-	970302 557	0.5-	0.3-	970623 587	0.1+	1.0+
970127 557	0.3+	0.0	970217 557	1.1+	0.5+	970502 327	1.0-	0.5+	970203 557	1.0+	0.2-	970302 557	0.4-	0.4-	970623 587	0.1-	0.5+
970127 557	0.3+	0.1+	970217 557	0.1-	0.7+	970502 327	0.4-	0.1+	970204 657	0.6+	0.1+	970303 121	0.2-	0.6-	970623 118	0.1-	0.4+
970127 557	0.7+	0.4-	970219 118	0.1-	0.0	970502 327	0.0	0.3+	970204 657	0.5+	0.4-	970303 121	0.5-	1.3-	970623 118	0.3-	0.5+
970127 658	(2.8-	0.5-)	970219 118	0.2-	0.0	970502 327	0.2-	0.5+	970204 657	0.2+	0.8-	970303 121	0.0	0.3-	970623 118	0.1-	0.4+
970127 658	(2.8-	0.9-)	970219 118	0.1-	0.0	970502 118	0.4-	0.2-	970205 402	0.9-	0.6-	970305 557	0.0	0.3-	970625 118	0.4-	0.3+
970127 658	(2.3-	1.5-)	970220 360	0.2-	0.2+	970502 118	0.4-	0.2-	970205 402	0.9-	0.6-	970305 557	0.0	0.2-	970625 118	0.2-	0.4+
970128 411	0.1-	0.0	970220 360	0.4-	0.1+	970502 118	0.5-	0.0	970205 402	0.6-	1.2-	970305 557	0.2+	0.3-	970625 118	0.1-	0.3+
970128 411	0.1+	0.4-	970220 360	0.1+	0.3-	970503 118	0.0	0.2+	970206 657	0.4-	0.4-	970305 557	0.2+	0.2-	970627 118	0.9-	1.1+
970128 411	0.3-	0.4-	970221 118	0.1+	0.6-	970503 118	0.5-	0.0	970206 657	0.5-	0.2+	970306 118	0.2+	0.1-	970627 118	0.9-	0.9+
970128 587	0.2+	1.0-	970221 118	0.4+	0.6-	970503 118	0.6-	0.1-	970206 657	1.0-	0.3-	970306 118	0.3+	0.0	970627 118	0.7-	1.1+
970128 587	0.0	0.2-	970221 118	0.5+	1.0-	970504 402	0.4+	0.6+	970206 566	0.1+	0.1+	970306 118	0.3+	0.1-	970627 118	0.1-	0.9+
970128 587	0.1-	0.9-	970222 658	0.7-	0.9-	970504 402	0.2+	0.5+	970206 566	0.0	0.1+	970307 557	0.1+	0.2-	970702 557	0.0	0.3-
970128 587	0.3-	0.4-	970222 658	0.6-	1.2-	970504 402	0.6+	0.5-	970206 566	0.2-	0.1+	970307 557	0.0	0.2-	970702 557	0.0	0.3+
970129 817	0.1+	0.4-	970222 658	0.7-	1.0-	970514 711	0.0	0.1-	970206 540	0.7-	1.4+	970307 587	0.3+	0.2+	970703 118	0.2-	1.6-
970129 817	0.1+	0.0	970224 360	0.2-	0.1+	970514 711	0.0	0.2-	970206 540	0.1-	1.0+	970307 587	0.6+	0.5-	970703 118	1.1-	0.4-
970129 817	0.1-	0.2-	970224 360	0.1+	0.0	970514 587	0.2+	0.2-	970206 540	(0.7-	2.1+)	970307 587	0.3-	0.6+	970704 327	0.8-	1.4-
970129 817	0.1-	0.3-	970224 360	0.0	0.1+	970514 587	0.6-	1.0-	970206 557	0.2+	0.3-	970308 118	0.2+	0.3-	970704 327	0.0	0.0
970129 817	0.1-	0.3-	970226 557	0.2-	0.4-	970514 557	0.5-	0.5-	970207 557	0.4+	0.2-	970308 118	0.2+	0.2-	970704 327	0.3-	0.8+
970129 355	0.2+	1.1-	970226 557	0.2-	0.0	970514 557	0.1+	0.2-	970207 557	1.3+	0.1+	970308 118	0.1+	0.3-	970704 327	0.4-	0.7+
970129 355	0.0	0.2-	970226 557	0.1+	0.3-	970515 557	0.3-	0.0	970207 620	(0.7-	2.7-)	970308 046	0.2+	0.5-	970707 327	0.6-	0.4+
970129 355	0.7+	0.8-	970226 557	0.3-	0.3-	970515 557	0.0	0.6-	970207 620	0.1+	0.7-	970308 046	0.2+	0.4-	970707 327	0.3-	0.9+
970129 108	(0.7+	2.3-)	970226 557	0.1-	0.3-	970516 046	1.6-	0.4+	970207 620	(2.4+	1.5+)	970308 046	0.6-	0.1-	970709 540	0.3+	0.4-
970130 355	0.3-	0.4+	970226 557	0.3-	0.0	970516 046	1.2-	0.5+	970207 620	(1.5+	3.5+)	970308 046	1.2-	0.2+	970709 540	1.2+	0.0
970130 355	0.3-	1.0-	970226 557	0.1-	0.4-	970516 046	(2.1-	0.0)	970208 620	(2.5+	0.8-)	970312 587	0.0	0.6-	970709 540	0.1+	0.3+

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970208	557	0.4+	0.2+	970312	587	0.3−	0.6−	970709	557	0.3+	0.1+
970208	473	0.0	0.8+	970312	587	0.1−	0.7−	970709	557	0.1+	0.2+
970208	473	0.0	1.5+	970314	327	0.4−	0.3+	970709	557	0.1−	0.0
970208	473	1.3+	0.7+	970314	327	0.5+	0.3−	970710	118	0.2+	0.3+
970209	473	0.1+	0.7+	970315	327	0.3−	0.6−	970710	118	0.6+	0.1−
970209	670	0.3+	0.8+	970315	327	0.1−	0.5−	970710	118	0.0	0.2−
970209	670	0.8+	0.3+	970315	327	0.8−	0.1−	970711	557	0.3+	0.6−
970209	670	0.1−	0.3+	970315	327	0.1−	0.3−	970711	557	0.2+	0.1−
970209	402	0.5+	0.4+	970317	118	0.3−	0.1−	970711	557	0.4+	0.3−

1997 CS₂₉

Epoch 1997 June 1.0 TT = JDT 2450600.5											
				Marsden							
<i>M</i>	272.49199		(2000.0)	P		Q					
<i>n</i>	0.00341967	ω	258.53569	−0.92120939		+0.38769580					
<i>a</i>	43.6328521	Ω	304.26755	−0.33979537		−0.84257035					
<i>e</i>	0.0071631	<i>i</i>	2.26338	−0.18950558		−0.37385448					
<i>P</i>	288	<i>H</i>	5.0	<i>G</i>	0.15						

From 27 observations 1997 Feb. 3–May 3, mean residual 0^u.25. e assumed.

1997 GR₂₄

Epoch 1997 June 1.0 TT = JDT 2450600.5											
				Nakano							
<i>M</i>	292.87550		(2000.0)	P		Q					
<i>n</i>	0.22325588	ω	126.63918	+0.78253403		+0.62011484					
<i>a</i>	2.6911265	Ω	195.29470	−0.61705299		+0.76053170					
<i>e</i>	0.1918832	<i>i</i>	12.18141	−0.08298254		+0.19248146					
<i>P</i>	4.41	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4				

From 25 observations 1997 Apr. 7–July 5, mean residual 0^u.26.

1997 GL₂₈

Epoch 1997 June 1.0 TT = JDT 2450600.5											
				Marsden							
<i>M</i>	43.74814		(2000.0)	P		Q					
<i>n</i>	0.16789233	ω	310.04022	−0.95204038		−0.26104959					
<i>a</i>	3.2542343	Ω	215.67586	+0.28792568		−0.94084513					
<i>e</i>	0.1640554	<i>i</i>	15.88237	−0.10352735		−0.21601750					
<i>P</i>	5.87	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4				

From 17 observations 1997 Apr. 14–July 1, mean residual 0^u.32.

1997 HS₃ = 1995 YX₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5											
				Williams							
<i>M</i>	86.78357		(2000.0)	P		Q					
<i>n</i>	0.19979842	ω	349.68197	−0.74101712		−0.67076963					
<i>a</i>	2.8978419	Ω	148.12224	+0.62018468		−0.70137818					
<i>e</i>	0.0951943	<i>i</i>	3.36649	+0.25741909		−0.24111566					
<i>P</i>	4.93	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

951218	691	0.4−	0.1−	970430	691	0.4−	0.6−	970607	809	0.3+	0.2+
951218	691	0.7−	0.3−	970430	691	0.0	0.8−	970607	809	0.5−	0.0
951218	691	1.9−	1.3+	970430	691	0.2−	1.0−	970607	809	0.6−	0.5+
951225	691	0.9+	0.4+	970505	691	0.1+	1.0−	970608	809	0.6+	1.6+
951225	691	0.7+	0.3−	970505	691	0.2−	0.9−	970608	809	0.5+	1.9+
951225	691	1.4+	0.1−	970505	691	0.3−	1.1−	970608	809	0.9+	1.8+

1997 JULY 20

1997 JT₃ = 1990 RG₈

Epoch 1997 June 1.0 TT = JDT 2450600.5											
				Williams							
<i>M</i>	304.87363		(2000.0)	P		Q					
<i>n</i>	0.26351568	ω	246.29576	+0.72984705		+0.68196191					
<i>a</i>	2.4095267	Ω	70.66950	−0.60746278		+0.67881945					
<i>e</i>	0.2229990	<i>i</i>	2.88215	−0.31354784		+0.27227212					
<i>P</i>	3.74	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

900914	809	0.3+	1.3+	970503	809	0.9−	1.6−	970508	684	0.3+	0.1+
900914	809	1.0+	1.2+	970504	809	0.1−	0.8+	970607	809	0.1+	1.9+
900914	809	1.3+	0.9+	970504	809	0.4−	0.8+	970607	809	0.7−	1.3+
900915	809	1.6−	0.9−	970504	809	0.7−	1.4+	970607	809	0.3−	2.0+
900915	809	0.8−	1.2−	970506	684	0.7+	0.1+	970608	809	0.1+	1.9−
900915	809	0.3−	1.3−	970506	684	0.5+	0.2+	970608	809	0.6+	1.9−
970503	809	0.2+	0.7−	970508	684	0.2+	0.2+	970608	809	0.3−	1.3−
970503	809	0.3+	1.7−	970508	684	0.3+	0.2+				

1997 JA₈ = 1993 FN₄₄

Epoch 1997 June 1.0 TT = JDT 2450600.5											
				Williams							
<i>M</i>	196.75356		(2000.0)	P		Q					
<i>n</i>	0.27559857	ω	208.63881	+0.72456706		−0.68914141					
<i>a</i>	2.3385756	Ω	194.93505	+0.63902086		+0.67680827					
<i>e</i>	0.1341939	<i>i</i>	2.07046	+0.25817615		+0.25887194					
<i>P</i>	3.58	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6				

Residuals in seconds of arc

930319	809	0.2+	0.7+	970508	684	0.0	1.2+	970607	809	0.3−	1.8−
930320	809	0.4−	0.1−	970508	684	0.2−	1.2+	970607	809	0.0	1.0−
930324	809	0.2+	0.6−	970510	684	0.1−	1.1+	970608	809	0.4−	0.6+
970504	809	0.8+	0.6−	970510	684	0.1+	1.0+	970608	809	0.5+	0.9+
970504	809	0.1+	1.5−	970510	684	0.1+	0.3+	970608	809	0.5−	2.5+
970504	809	0.7−	1.8−	970607	809	0.6+	2.1−				

1997 JS₁₄ = 1994 TA₅

Epoch 1997 June 1.0 TT = JDT 2450600.5											
				Williams							
<i>M</i>	258.09183		(2000.0)	P		Q					
<i>n</i>	0.24408328	ω	174.99826	+0.97185431		+0.23550033					
<i>a</i>	2.5357749	Ω	171.37303	−0.21755749		+0.90732408					
<i>e</i>	0.0842990	<i>i</i>	2.37992	−0.09037666		+0.34828524					
<i>P</i>	4.04	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

941002	691	0.2+	0.2−	970503	809	1.0−	0.8+	970507	566	0.4+	1.2−
941002	691	0.1−	0.3−	970503	809	0.2−	2.1−	970607	809	0.7+	1.8+
941002	691	0.2+	0.3−	970504	809	0.4−	2.3−	970607	809	1.1+	1.8+
941011	691	0.3+	0.2−	970504	809	1.0−	1.0−	970607	809	0.9+	0.3+
941011	691	0.1+	0.5−	970504	809	1.0−	2.0−	970608	809	0.6+	1.8+
941011	691	0.1−	0.4−	970507	566	0.8+	1.3−	970608	809	0.4+	1.7+
970503	809	1.5−	0.2+	970507	566	0.2+	1.6−	970608	809	0.1+	1.8+

1997 JE₁₅ = 1996 CM₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	279.31036	(2000.0)	P		Q	
<i>n</i>	0.19976176	ω 176.74439	+0.78565575	+0.61802943		
<i>a</i>	2.8981964	Ω 145.03338	-0.56871147	+0.73930320		
<i>e</i>	0.0495959	<i>i</i> 2.80160	-0.24354116	+0.26733949		
<i>P</i>	4.93	<i>H</i> 12.5	<i>G</i> 0.15	<i>U</i> 6		

Residuals in seconds of arc

960212 399	1.6+	0.0	970503 809	1.3+	0.9+	970507 566	1.4-	2.0-
960212 399	0.1+	1.6+	970503 809	0.6+	0.4-	970607 809	0.1+	0.1+
960216 399	0.5-	0.2-	970504 809	0.5-	0.8+	970607 809	0.2+	0.1+
960216 399	0.1-	0.5-	970504 809	0.0	1.1+	970607 809	0.1-	0.3-
960224 399	0.6+	1.6-	970504 809	1.1-	0.1-	970608 809	0.2+	0.9+
960224 399	1.5-	1.0+	970507 566	0.4-	1.7-	970608 809	0.7+	1.3+
970503 809	0.6+	0.3+	970507 566	0.2-	2.1-	970608 809	0.3+	1.2+

1997 JN₁₅ = 1993 FO₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	299.42144	(2000.0)	P		Q	
<i>n</i>	0.27536103	ω 225.44200	+0.83093359	+0.55516539		
<i>a</i>	2.3399203	Ω 100.80289	-0.49931342	+0.77313287		
<i>e</i>	0.2484356	<i>i</i> 2.13631	-0.24542917	+0.30668706		
<i>P</i>	3.58	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

930317 809	0.9-	1.4+	970503 809	1.3+	0.7-	970607 809	0.0	0.0
930318 809	2.0+	0.1-	970503 809	1.3+	1.2-	970607 809	0.6-	0.2-
930323 809	1.2+	0.6-	970503 809	0.8+	0.6-	970607 809	1.0-	0.4-
930323 691	0.1+	0.4-	970504 809	0.5-	0.8+	970608 809	0.5+	0.1-
930323 691	1.3-	0.3-	970504 809	1.0-	0.7+	970608 809	0.8+	0.4+
930323 691	1.2-	0.1-	970504 809	1.8-	1.3+	970608 809	0.3+	0.0

1997 JP₁₅ = 1982 BM₉ = 1991 RR₃₄ = 1993 FN₅₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	146.83953	(2000.0)	P		Q	
<i>n</i>	0.27837949	ω 277.87226	+0.20432794	-0.97883577		
<i>a</i>	2.3229751	Ω 160.32633	+0.91097189	+0.18586224		
<i>e</i>	0.2128370	<i>i</i> 1.94546	+0.35830199	+0.08564903		
<i>P</i>	3.54	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 2		

Residuals in seconds of arc

820119 095	0.3+	1.5-	970503 809	(0.9+	2.5-)	970603 566	0.9-	0.5+
820120 095	0.5-	0.1+	970503 809	(0.7-	3.7-)	970607 809	0.8+	0.7-
910912 675	0.0	0.8-	970504 809	(3.5-	1.7-)	970607 809	0.6+	1.0-
910912 675	0.4+	0.4-	970504 809	(3.0-	2.4-)	970607 809	0.2+	1.0-
930319 809	0.5-	0.9+	970504 809	(3.4-	3.8-)	970608 809	0.3+	1.4+
930320 809	0.7+	0.5-	970603 566	1.9-	0.4-	970608 809	0.6+	0.0
970503 809	0.6+	1.3-	970603 566	1.0-	0.7+	970608 809	0.4+	0.5+

1997 JH₁₆ = 1993 FE₆₇

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	313.80874	(2000.0)	P		Q	
<i>n</i>	0.26820492	ω 94.17398	+0.45199358	+0.89126066		
<i>a</i>	2.3813591	Ω 202.81005	-0.85147059	+0.41877217		
<i>e</i>	0.1280848	<i>i</i> 5.45100	-0.26589404	+0.17402389		
<i>P</i>	3.67	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

930321 809	1.5-	1.4+	970504 809	0.8+	0.7+	970607 809	0.1-	0.0
930322 809	1.5+	1.5-	970504 809	0.6+	0.1+	970608 809	0.4-	0.3+
970503 809	0.4-	0.9-	970504 809	0.6+	1.2+	970608 809	0.2+	0.3-
970503 809	1.1-	0.2+	970607 809	0.1-	0.4-	970608 809	0.4+	0.1+
970503 809	0.4-	1.4-	970607 809	0.0	0.2+			

1997 LL₂ = 1996 AF₁₂

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	277.29667	(2000.0)	P		Q	
<i>n</i>	0.28185796	ω 134.65995	+0.95584142	+0.28964622		
<i>a</i>	2.3038233	Ω 208.61215	-0.29035658	+0.90462688		
<i>e</i>	0.1536405	<i>i</i> 5.95973	-0.04538977	+0.31265839		
<i>P</i>	3.50	<i>H</i> 15.5	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

960115 691	0.2-	0.1-	960121 691	0.2+	0.2+	970609 691	0.0	0.2+
960115 691	0.1-	0.5+	970605 691	0.0	0.1-	970609 691	0.1+	0.2-
960115 691	0.9-	0.7-	970605 691	0.1+	0.1-	970629 691	0.0	0.5-
960121 691	0.5+	0.1+	970605 691	0.0	0.0	970629 691	0.0	0.6+
960121 691	0.4+	0.1+	970609 691	0.0	0.0	970629 691	0.3-	0.1+

1997 LJ₃ = 1992 FE₃ = 1995 WT₃₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	135.35859	(2000.0)	P		Q	
<i>n</i>	0.22035147	ω 318.65862	-0.25121283	-0.96724924		
<i>a</i>	2.7147223	Ω 145.84463	+0.90420262	-0.24790721		
<i>e</i>	0.0358606	<i>i</i> 3.71174	+0.34541242	-0.05450606		
<i>P</i>	4.47	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

920326 399	1.9+	0.3-	970605 691	0.7-	0.5-	970630 910	1.8+	0.3-
920326 399	1.5-	1.6+	970610 691	0.5-	0.1+	970701 691	0.9-	0.1-
951119 691	0.6+	0.5-	970610 691	0.5-	0.2-	970701 691	1.0-	0.1-
951119 691	0.1+	0.5-	970610 691	0.6-	0.1+	970701 691	0.7-	0.1-
951120 691	0.4-	0.3-	970626 691	0.5-	0.0	970701 910	0.5+	0.2+
951120 691	0.3-	0.2-	970626 691	0.3-	0.4-	970701 910	0.6+	0.2+
951120 691	0.3-	0.3-	970626 691	0.4-	0.2-	970701 910	0.5+	0.2+
970605 691	0.7-	0.0	970630 910	2.1+	0.1-			
970605 691	0.5-	0.0	970630 910	2.0+	0.2-			

1997 LY₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

<i>M</i>	336.55750	(2000.0)	P		Q	
<i>n</i>	0.40694985	ω 51.10590	+0.55177629	+0.82232466		
<i>a</i>	1.8034694	Ω 252.92815	-0.80311540	+0.47897877		
<i>e</i>	0.2717494	<i>i</i> 8.36174	-0.22483013	+0.30718316		
<i>P</i>	2.42	<i>H</i> 17.0	<i>G</i> 0.15	<i>U</i> 5		

From 120 observations 1997 June 10–July 13, mean residual 0^{''}.46.

1997 LL₆ = 1956 GD = 1969 PT = 1975 JB = 1978 GC₂ = 1979 YQ₃
= 1984 DA₂ = 1991 PC₂₁ = 1991 SD

Epoch 1997 June 1.0 TT = JDT 2450600.5				Williams			
<i>M</i>	3.02426	(2000.0)		P	Q		
<i>n</i>	0.31471376	ω	119.70820	-0.22800527	+0.97277642		
<i>a</i>	2.1405509	Ω	137.04758	-0.91302430	-0.19881696		
<i>e</i>	0.2115127	<i>i</i>	3.48909	-0.33823102	-0.11907077		
<i>P</i>	3.13	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
560412 760	1.9+	0.6-	910808 675	1.2-	1.3+	970703 620	0.0 0.2+
560412 760	0.8-	2.4+	910929 413	0.5+	0.2+	970703 620	0.1- 0.3+
690813 095	(9.1+	1.6-)	910930 413	0.3-	0.1+	970703 620	0.2- 0.3+
750510 095	0.1-	0.3+	970613 620	(1.9+	3.9-)	970704 620	0.1+ 1.3-
750514 095	0.9+	0.3+	970614 620	0.4+	1.4-	970704 620	0.0 0.3-
780407 095	2.1-	0.9+	970616 620	0.5+	1.4+	970704 620	0.1+ 0.1-
791218 095	0.3-	0.9+	970616 620	(3.1+	0.2-)	970710 620	0.6- 0.5-
840226 095	0.8+	1.9-	970616 620	0.8-	0.0	970710 620	0.6- 0.5-
910808 675	0.1-	0.2-	970616 620	1.7+	0.2+	970710 620	0.3- 0.1-

1997 MJ₆ = 1996 AF₁₄

Epoch 1997 June 1.0 TT = JDT 2450600.5				Williams			
<i>M</i>	283.69736	(2000.0)		P	Q		
<i>n</i>	0.23433090	ω	230.45402	+0.88449295	+0.44951830		
<i>a</i>	2.6056516	Ω	102.50498	-0.37912368	+0.84855147		
<i>e</i>	0.1151356	<i>i</i>	7.35158	-0.27191442	+0.27909445		
<i>P</i>	4.21	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
960115 691	0.4-	0.0	970627 691	0.3+	0.1+	970703 691	0.3- 0.4-
960115 691	0.3-	0.3-	970627 691	0.2+	0.2+	970708 691	0.0 0.3-
960124 691	0.1+	0.1+	970627 691	0.2+	0.1+	970708 691	0.0 0.0
960124 691	0.5+	0.0	970703 691	0.2-	0.0	970708 691	0.2+ 0.1+
960124 691	0.0	0.1+	970703 691	0.5-	0.2+		

1997 MR₈ = 1996 BE₁₈

Epoch 1997 June 1.0 TT = JDT 2450600.5				Williams			
<i>M</i>	53.20599	(2000.0)		P	Q		
<i>n</i>	0.23488694	ω	89.99628	-0.72753714	+0.66558806		
<i>a</i>	2.6015378	Ω	131.73108	-0.68397587	-0.68474035		
<i>e</i>	0.2151517	<i>i</i>	12.88215	-0.05354172	-0.29685550		
<i>P</i>	4.20	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
960118 327	0.2-	0.2-	970630 691	0.9-	0.1-	970713 910	0.8+ 0.2+
960118 327	0.4-	0.3-	970630 691	0.9-	0.4-	970713 910	0.7+ 0.6+
960118 327	0.6-	0.0	970706 691	1.2-	0.4-	970714 910	1.0+ 0.1+
960212 327	0.3+	0.2+	970706 691	1.0-	0.4-	970714 910	0.9+ 0.2+
960212 327	0.3+	0.2+	970706 691	1.2-	0.7-	970714 910	1.0+ 0.1+
960212 327	0.4+	0.0	970713 910	0.6+	0.4+		

1997 MB₉ = 1986 RZ₃ = 1994 BK₅

Epoch 1997 June 1.0 TT = JDT 2450600.5				Williams			
<i>M</i>	285.64471	(2000.0)		P	Q		
<i>n</i>	0.17187811	ω	87.58151	+0.80949087	-0.49735622		
<i>a</i>	3.2037283	Ω	302.07793	+0.27344926	+0.78964935		
<i>e</i>	0.1112797	<i>i</i>	21.60771	+0.51956716	+0.35929194		
<i>P</i>	5.73	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
860902 010	0.7-	1.0+	970630 691	0.2+	0.6-	970707 691	0.4- 0.3-
860902 010	0.7+	1.1-	970630 691	0.2+	0.1-	970711 691	0.2- 0.2+
940118 033	0.2+	0.0	970630 691	0.2+	0.0	970711 691	0.3- 0.1-
940118 033	0.4-	0.7+	970707 691	0.0	0.8+	970711 691	0.2- 0.2-
940119 033	0.3+	0.6-	970707 691	0.5+	0.5+		

1997 NH = 1993 QL

Epoch 1997 June 1.0 TT = JDT 2450600.5				Williams			
<i>M</i>	264.40270	(2000.0)		P	Q		
<i>n</i>	0.24176074	ω	258.77315	+0.60091748	-0.79879512		
<i>a</i>	2.5519894	Ω	154.22445	+0.75670607	+0.55694805		
<i>e</i>	0.1619656	<i>i</i>	3.78623	+0.25747640	+0.22745379		
<i>P</i>	4.08	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	6
Residuals in seconds of arc							
930817 691	0.1-	0.4+	930818 691	0.0	0.0	970702 691	0.0 0.2+
930817 691	0.0	0.1+	970701 691	0.1-	0.2+	970702 691	0.4- 0.4+
930817 691	0.4+	0.1+	970701 691	0.3+	0.4-	970711 691	0.2- 1.0-
930818 691	0.1+	0.4-	970701 691	0.0	0.1-	970711 691	0.1- 0.4+
930818 691	0.4-	0.1-	970702 691	0.2-	0.4+	970711 691	0.5+ 0.1-

1997 NZ = 1972 QB = 1972 RN₃ = 1976 OC

Epoch 1997 June 1.0 TT = JDT 2450600.5				Spahr			
<i>M</i>	347.37929	(2000.0)		P	Q		
<i>n</i>	0.23419650	ω	8.30312	+0.38911312	+0.89873299		
<i>a</i>	2.6066484	Ω	284.78830	-0.85673186	+0.27241471		
<i>e</i>	0.1628631	<i>i</i>	12.06898	-0.33852843	+0.34361204		
<i>P</i>	4.21	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
720816 095	0.5+	0.2-	970704 327	0.0	0.0	970710 327	0.3+ 0.1+
720905 095	0.5-	0.3+	970704 327	0.1-	0.1-	970710 327	0.1+ 0.5+
760727 095	0.2+	0.4-	970704 327	1.4-	0.8+	970710 327	0.2+ 0.1+
970701 327	0.0	0.7-	970709 327	0.2+	0.2+	970713 367	0.3+ 0.2+
970701 327	0.3-	0.1-	970709 327	0.1-	0.4-	970713 367	0.2+ 0.1+
970701 327	0.4-	0.1-	970709 327	0.2+	0.2-	970713 367	0.5+ 0.1+

1997 NU₁ = 1996 HH₁₁

Epoch 1997 June 1.0 TT = JDT 2450600.5				Marsden			
<i>M</i>	278.33811	(2000.0)		P	Q		
<i>n</i>	0.20109172	ω	156.74671	+0.89466543	-0.44649391		
<i>a</i>	2.8854038	Ω	229.78060	+0.40678413	+0.82783947		
<i>e</i>	0.1652329	<i>i</i>	1.10530	+0.18466305	+0.33959535		
<i>P</i>	4.90	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	7
Residuals in seconds of arc							
960417 809	0.8+	0.4-	970707 684	0.0	0.6-	970709 684	0.2+ 0.2-
960417 809	0.6-	0.5-	970707 684	0.2-	0.9-	970709 684	0.4- 0.2+
960417 809	0.9+	1.1-	970708 684	0.5+	0.2-	970711 684	0.0 0.7+

960418 809 1.3− 0.4+ 970708 684 0.2− 0.2− 970711 684 0.0 0.8+
 960418 809 0.2+ 1.7+ 970708 684 0.0 0.4− 970711 684 0.1+ 0.7+

2054 P-L

Id. E. Bowell (1994 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>	313.42526		(2000.0)	P		Q	
<i>n</i>	0.27903313	ω	328.94067	−0.95898903		+0.27684805	
<i>a</i>	2.3193460	Ω	227.26026	−0.24010011		−0.90742086	
<i>e</i>	0.1444480	<i>i</i>	4.74766	−0.15063854		−0.31613689	
<i>P</i>	3.53	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

600926 675 0.7− 0.2− 601022 675 0.2− 0.0 940312 675 0.0 0.2+
 600928 675 0.0 0.5+ 601025 675 0.2+ 0.4− 940405 675 0.1− 0.2−
 600929 675 0.1− 0.0 601026 675 0.5− 0.2− 940405 675 0.0 0.6−
 601017 675 1.5+ 0.0 940312 675 0.0 0.4+

2076 P-L = 1997 LZ₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>	230.61647		(2000.0)	P		Q	
<i>n</i>	0.28662910	ω	167.51807	+0.93347556		−0.35291354	
<i>a</i>	2.2781861	Ω	213.36996	+0.31826276		+0.89720394	
<i>e</i>	0.2183349	<i>i</i>	6.66486	+0.16532448		+0.26547529	
<i>P</i>	3.44	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

600926 675 0.0 1.7− 601025 675 0.2− 0.6+ 970607 809 0.1− 0.1−
 600928 675 0.5− 0.4− 601026 675 0.1− 0.6− 970608 809 0.0 0.7+
 600929 675 0.2+ 1.8+ 970607 809 0.5− 0.5− 970608 809 0.5+ 0.2+
 601022 675 0.5+ 0.4+ 970607 809 0.5− 0.2+ 970608 809 0.6+ 0.3−

2158 P-L = 1997 ML₆

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>	160.31297		(2000.0)	P		Q	
<i>n</i>	0.25827262	ω	234.37795	+0.16540613		−0.98514057	
<i>a</i>	2.4420271	Ω	206.21585	+0.93532059		+0.17156713	
<i>e</i>	0.1023280	<i>i</i>	6.00940	+0.31275582		+0.00792318	
<i>P</i>	3.82	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

600924 675 0.6+ 0.3+ 601026 675 0.1− 0.3− 970627 691 0.2+ 0.3+
 600926 675 0.1− 0.2− 970610 691 0.1− 0.2− 970627 691 0.3+ 0.1+
 600928 675 0.8− 0.2+ 970610 691 0.3− 0.1− 970703 691 0.0 0.1+
 600929 675 0.5+ 0.1+ 970610 691 0.2− 0.7− 970703 691 0.2− 0.1+
 601025 675 0.1− 0.3− 970627 691 0.1+ 0.3+ 970703 691 0.2+ 0.1+

4073 P-L = 1997 EK₄₉

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Marsden			
<i>M</i>	293.90495		(2000.0)	P		Q	
<i>n</i>	0.31141091	ω	19.73873	+0.18584867		+0.98142227	
<i>a</i>	2.1556595	Ω	260.99453	−0.90785548		+0.15296324	
<i>e</i>	0.0213535	<i>i</i>	2.76534	−0.37584398		+0.11581270	
<i>P</i>	3.16	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

600924 675 0.4− 0.1− 601022 675 0.5+ 0.3+ 970312 809 0.6+ 1.3−
 600925 675 0.1+ 0.3+ 601026 675 0.6− 0.5− 970312 809 0.7+ 0.6−

600926 675 0.1− 0.4− 970311 809 0.4− 1.1+ 970312 809 0.3− 1.2−
 600928 675 0.2+ 0.3+ 970311 809 0.2− 1.4+
 601017 675 0.4+ 0.3+ 970311 809 0.4− 0.7+

6079 P-L = 1977 RE₈ = 1997 BA₁

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Marsden			
<i>M</i>	88.76631		(2000.0)	P		Q	
<i>n</i>	0.17343325	ω	93.76518	−0.06987117		−0.99755468	
<i>a</i>	3.1845480	Ω	0.25894	+0.70968767		−0.05085963	
<i>e</i>	0.1854496	<i>i</i>	21.20326	+0.70104310		−0.04793695	
<i>P</i>	5.68	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

600924 675 0.1+ 0.2+ 601026 675 0.9+ 0.3− 970123 327 0.4− 0.2−
 600925 675 0.8+ 0.5− 770912 801 0.5− 0.4+ 970311 809 1.2− 0.5−
 600926 675 0.1− 0.1− 970119 327 0.4+ 0.2+ 970311 809 0.8− 0.4−
 600928 675 0.6− 0.4− 970119 327 0.5+ 0.3− 970311 809 1.1− 0.7−
 601017 675 0.1− 0.1− 970119 327 0.6+ 0.3− 970312 809 (1.6+ 3.1+)
 601022 675 1.0+ 0.4− 970123 327 1.0− 0.2− 970312 809 (1.7+ 3.2+)
 601024 675 0.8+ 1.1− 970123 327 1.1+ 0.2− 970312 809 (1.0+ 3.2+)

3058 T-1 = 1985 QU₄Id. G. V. Williams (*MPC* 19322)

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Marsden			
<i>M</i>	207.14329		(2000.0)	P		Q	
<i>n</i>	0.30394601	ω	13.37672	+0.99458244		−0.10297317	
<i>a</i>	2.1908118	Ω	352.49019	+0.08251880		+0.86530786	
<i>e</i>	0.1648276	<i>i</i>	6.24747	+0.06321714		+0.49054952	
<i>P</i>	3.24	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

710324 675 (2.1+ 5.2−) 710416 675 (2.6− 0.7−) 970311 809 0.1− 0.3+
 710325 675 (1.5+ 3.4−) 850817 095 (1.1− 2.6−) 970312 809 0.6+ 0.8+
 710326 675 (1.0− 4.6−) 850819 095 0.1+ 0.1− 970312 809 0.2+ 0.3−
 710326 675 (1.3+ 4.6−) 850824 095 (5.2+ 5.6+) 970312 809 0.1− 0.1−
 710327 675 0.6− 2.4− 970311 809 0.3− 0.4+
 710416 675 0.2− 1.0+ 970311 809 0.5+ 0.3+

3089 T-1 = 1980 WX₁ = 1997 ML₁₀

Epoch 1997 June 1.0 TT = JDT 2450600.5

				Williams			
<i>M</i>	206.72618		(2000.0)	P		Q	
<i>n</i>	0.27637911	ω	204.07231	−0.09330663		−0.99505280	
<i>a</i>	2.3341705	Ω	251.29598	+0.91922368		−0.07293083	
<i>e</i>	0.0863689	<i>i</i>	2.06404	+0.38252020		−0.06746121	
<i>P</i>	3.57	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

710324 675 1.1+ 0.9− 710416 675 0.9− 1.9+ 970711 691 0.0 0.4−
 710325 675 1.8+ 1.6− 710513 675 1.2+ 0.9− 970711 691 0.0 0.2−
 710326 675 0.3− 0.4− 710514 675 0.8− 1.3− 970711 691 0.3− 0.3+
 710326 675 1.0− 0.5+ 801130 095 0.1+ 1.3− 970712 691 0.4+ 0.4−
 710327 675 (2.5− 1.1+)
 710402 675 (3.0+ 3.1−) 970630 691 0.1− 0.0 970712 691 0.3− 0.2−
 710416 675 1.7− 1.3+ 970630 691 0.1+ 0.0 970712 691 0.1+ 0.2−
 970630 691 0.4+ 0.2−

1220 T-2 = 1996 RO₁₃

Id. A. Milani

Epoch 1997 June 1.0 TT = JDT 2450600.5

Marsden

<i>M</i>	3.81265	(2000.0)	P	Q
<i>n</i>	0.17146146	ω	155.78055	+0.65071989
<i>a</i>	3.2089161	Ω	253.62315	+0.69580777
<i>e</i>	0.1643037	<i>i</i>	0.29845	+0.30399863
<i>P</i>	5.75	<i>H</i>	14.5	<i>G</i> 0.15
				<i>U</i> 6

Residuals in seconds of arc

730919 675	1.3–	0.8–	730930 675	(0.4+ 2.6+)	960918 566	1.2+ 1.0+
730919 675	0.5–	1.4–	731004 675	0.0 1.1+	960919 691	0.0 0.1+
730920 675	0.0	0.4–	731004 675	1.0– 1.3+	960919 691	0.2+ 0.5+
730924 675	0.0	0.0	731005 675	1.5+ 0.1+	960919 691	0.1+ 0.2+
730924 675	0.1+	0.4–	731005 675	1.0+ 0.1+	961005 809	(1.5– 3.4–)
730925 675	1.5–	1.4–	960908 691	1.1– 0.1+	961005 809	(1.4– 3.8–)
730925 675	1.7–	1.4+	960908 691	1.1– 0.2+	961005 809	(2.2– 3.9–)
730929 675	1.5+	0.5+	960908 691	1.2– 0.0	961006 809	0.3– 2.4–
730929 675	0.4+	0.6+	960918 566	1.7+ 0.6+	961006 809	0.4– 2.2–
730930 675	0.9+	0.7+	960918 566	1.4+ 0.2+	961006 809	(1.0– 2.5–)

3353 T-2 = 1990 RA₁₆ = 1996 TK₃₄

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	100.60015	(2000.0)	P	Q
<i>n</i>	0.17411312	ω	288.50467	+0.70539562
<i>a</i>	3.1762527	Ω	26.49868	+0.61119845
<i>e</i>	0.1991763	<i>i</i>	5.21659	+0.35896166
<i>P</i>	5.66	<i>H</i>	14.0	<i>G</i> 0.15
				<i>U</i> 5

Residuals in seconds of arc

730919 675	0.4–	0.6+	731004 675	0.5– 0.9–	961011 691	0.1+ 0.1+
730919 675	0.2–	1.5+	731005 675	(3.6– 1.6–)	961011 691	0.1+ 0.0
730920 675	0.4+	0.8+	731005 675	1.6– 0.4+	961011 691	0.0 0.1+
730924 675	0.9+	0.2–	900915 809	0.7– 0.5+	961015 691	0.3+ 0.0
730924 675	0.0	0.2+	900915 809	0.6– 0.5+	961015 691	0.3+ 0.1–
730925 675	0.6+	1.3–	900915 809	0.5+ 0.4+	961015 691	0.5+ 0.0
730925 675	1.6+	2.3–	961010 691	0.0 0.3+	961016 691	0.3– 0.3–
730929 675	0.7–	0.2–	961010 691	0.3+ 0.2+	961016 691	0.3– 0.2–
731004 675	0.5+	0.1+	961010 691	0.4+ 0.0	961016 691	1.4– 0.0

1164 T-3 = 1997 MK

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	7.70529	(2000.0)	P	Q
<i>n</i>	0.19078926	ω	47.60207	+0.35808534
<i>a</i>	2.9883635	Ω	244.13696	+0.90300676
<i>e</i>	0.0885688	<i>i</i>	11.03845	+0.23738930
<i>P</i>	5.17	<i>H</i>	14.0	<i>G</i> 0.15
				<i>U</i> 5

Residuals in seconds of arc

771007 675	0.1+	0.1–	771017 675	0.0 1.1+	970627 691	0.2– 0.1+
771011 675	0.6+	0.5–	771017 675	1.0– 1.7+	970627 691	0.2– 0.3–
771011 675	1.8+	0.1+	771022 675	0.3+ 0.8–	970627 691	0.2– 0.1–
771012 675	0.8+	0.1–	771022 675	0.6– 0.5–	970705 691	0.2– 0.2–
771012 675	0.7+	0.4+	970626 691	0.2+ 0.3+	970705 691	0.0 0.1+
771016 675	1.4–	0.8–	970626 691	0.3+ 0.2+		
771016 675	1.4–	0.6–	970626 691	0.3+ 0.1–		

2241 T-3 = 1997 NT₈

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	263.12481	(2000.0)	P	Q
<i>n</i>	0.24064814	ω	106.02273	+0.64204092
<i>a</i>	2.5598492	Ω	303.99619	+0.68926701
<i>e</i>	0.1088163	<i>i</i>	2.01672	+0.33569994
<i>P</i>	4.10	<i>H</i>	17.0	<i>G</i> 0.15
				<i>U</i> 6

Residuals in seconds of arc

771007 675	0.4+	1.2–	771017 675	0.3– 0.9+	970713 910	0.1+ 0.2–
771011 675	0.0	0.5+	771017 675	1.2+ 0.8+	970713 910	0.3+ 0.3–
771011 675	0.2+	0.9+	771021 675	0.8+ 0.5–	970714 910	0.2– 0.3+
771012 675	0.1–	1.0+	771021 675	0.9+ 0.0	970714 910	0.1– 0.1+
771012 675	1.4–	0.9+	771022 675	1.1– 1.4+	970714 910	0.0 0.2+
771016 675	0.5+	2.7–	771022 675	0.7– 0.7–		
771016 675	0.5–	1.3–	970713 910	0.0 0.1–		

5022 T-3 = 1997 LQ₅

Epoch 1997 June 1.0 TT = JDT 2450600.5

Williams

<i>M</i>	52.36582	(2000.0)	P	Q
<i>n</i>	0.18222059	ω	49.51731	+0.96760071
<i>a</i>	3.0813267	Ω	143.40920	+0.22972469
<i>e</i>	0.0079622	<i>i</i>	10.12229	+0.24969360
<i>P</i>	5.41	<i>H</i>	14.5	+0.03744291
				<i>G</i> 0.15
				<i>U</i> 5

Residuals in seconds of arc

771011 675	0.5–	0.1–	771017 675	0.7– 1.1–	970608 691	0.1+ 0.1–
771011 675	0.8+	0.2+	771021 675	1.0+ 1.6+	970613 691	0.1+ 0.5+
771012 675	0.3–	0.8–	771021 675	0.1+ 0.0	970613 691	0.0 0.1–
771012 675	0.2+	1.0+	771022 675	0.5+ 0.0	970613 691	0.2+ 0.2–
771016 675	1.1–	0.8+	771022 675	1.8+ 0.1+	970628 691	0.1– 0.3+
771016 675	0.8–	1.4–	970608 691	0.1+ 0.6–	970628 691	0.1+ 0.1+
771017 675	1.0–	0.3–	970608 691	0.1+ 0.4+	970628 691	0.6– 0.3–

Object	<i>H</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
1966 CM	13.5	970601	106.57618	357.28867	149.73898	14.04348	0.1094025	2.6415614	12	3	1966–1997	0.60	M-v	4	Williams	28313	1966 CM
1967 JP	13.0	970601	166.14229	263.96931	327.18070	4.13909	0.1137320	3.1238932	25	10	1955–1996	0.72	M-v	1	Williams	28313	1967 JP
1971 UN	13.0	970601	279.94425	294.81637	37.50635	7.69837	0.2379258	2.4519850	37	6	1948–1997	0.61	M-v	1	Williams	29652	1971 UN
1975 LF ₁	12.0	970601	308.23312	285.43152	25.10773	19.53052	0.0522611	3.1098433	10	4	1954–1997	0.47	M-v	2	Williams	23120	1975 LF ₁
1975 RA ₂	13.0	970601	279.77980	314.44127	25.67280	23.67415	0.2253431	2.4225554	38	6	1955–1997	0.59	M-v	2	Williams	29652	1975 RA ₂
1975 UE	13.5	970601	305.04978	142.60118	181.64589	2.26028	0.2069431	2.4238229	30	6	1975–1997	0.85	M-v	1	Williams	29939	1975 UE
1976 GL ₈	13.0	970601	6.09711	355.30329	272.57216	6.53904	0.1559205	2.5603604	20	6	1976–1997	0.54	M-v	1	Williams	28881	1976 GL ₈

1976 SS ₂	14.0	970601	302.38985	321.96586	21.32635	3.40282	0.2122483	2.3328856	32	6	1976–1997	0.81	M-v	2	Williams	29939	1976 SS ₂
1977 QQ ₅	15.0	970601	326.21514	247.71133	134.51399	25.19592	0.4660718	2.2263924	93	4	1977–1997	0.51	M-v	1	Marsden	30089	1977 QQ ₅
1978 OQ	12.5	970601	271.97696	356.93353	347.48892	6.07448	0.1993561	2.8887666	30	7	1954–1997	0.72	M-v	1	Williams	28610	1978 OQ
1978 PW ₃	14.0	970601	323.90856	140.14307	169.38598	6.42194	0.1479175	2.4622588	25	5	1978–1997	1.05	M-v	2	Williams	28881	1978 PW ₃
1978 QC ₃	12.0	970601	255.01209	292.08198	133.67247	12.66086	0.1655305	2.8506258	35	9	1966–1997	0.76	M-v	1	Williams	29132	1978 QC ₃
1978 SB ₃	13.5	970601	285.56925	38.79723	329.96576	4.19060	0.2132053	2.4699616	24	8	1955–1997	0.63	M-v	1	Williams	26913	1978 SB ₃
1978 VO ₈	13.0	970601	109.85451	36.89462	110.55961	2.51561	0.1427376	3.0532164	72	6	1962–1996	0.62	M-v	2	Williams	29909	1978 VO ₈
1978 VT ₈	13.5	970601	42.76025	358.74754	231.62630	4.76548	0.0125782	3.0028856	25	3	1978–1997	0.66	M-v	4	Williams	25077	1978 VT ₈
1978 VH ₁₀	14.5	970601	292.71860	306.70414	85.37707	3.15658	0.0685793	2.9193512	13	2	1978–1995	0.39	M-v	5	Williams	28083	1978 VH ₁₀
1979 KQ	14.0	970601	291.06232	148.14263	176.16437	5.19502	0.1189345	2.6781897	25	5	1976–1997	0.96	M-v	2	Williams	30090	1979 KQ
1979 ML ₁	14.5	970601	328.25451	48.43803	274.96142	6.31393	0.1197890	2.3467809	24	6	1954–1997	0.74	M-v	2	Williams	28314	1979 ML ₁
1979 MY ₅	13.0	970601	34.42943	347.71548	278.10916	11.78386	0.1098999	2.7054275	16	3	1979–1994	0.89	M-v	4	Williams	28314	1979 MY ₅
1979 SP ₁₄	12.5	970601	3.01662	272.50634	109.84328	2.70257	0.1035140	3.2176856	39	8	1954–1996	0.83	M-v	1	Williams	28610	1979 SP ₁₄
1980 RG ₁	16.5	970601	317.61074	110.26691	238.54228	4.45222	0.4716058	2.6444856	42	3	1980–1997	0.56	M-v	2	Williams	30090	1980 RG ₁
1980 VO	13.5	970601	30.43545	348.03278	38.70707	9.92724	0.3204330	2.5516835	30	5	1980–1996	0.82	M-v	3	Williams	28611	1980 VO
1980 XX	14.5	970601	2.80324	308.03426	87.52084	5.21143	0.1453470	2.2347563	16	3	1980–1995	0.73	M-v	4	Williams	25210	1980 XX
1981 EY ₁₀	14.5	970601	263.40900	170.78884	210.15932	3.09101	0.1083341	2.4182674	43	5	1981–1997	0.73	M-v	1	Williams	26916	1981 EY ₁₀
1981 ES ₁₂	14.0	970601	85.14343	262.61854	203.27897	13.93043	0.1246247	3.0351650	29	3	1981–1997	0.75	M-v	4	Marsden	29940	1981 ES ₁₂
1981 EP ₁₆	15.0	970601	223.63296	90.25542	255.23194	3.98242	0.1766740	2.1716894	24	4	1981–1997	0.63	M-v	2	Williams	30090	1981 EP ₁₆
1981 EY ₁₇	14.0	970601	178.39043	247.26354	169.25532	2.22532	0.1591325	2.4531669	52	8	1950–1997	0.84	M-v	2	Williams	30090	1981 EY ₁₇
1981 ED ₂₄	15.0	970601	206.23567	237.17526	167.54276	9.41823	0.0283489	2.9394756	39	6	1971–1997	0.86	M-v	1	Williams	28882	1981 ED ₂₄
1981 EK ₂₅	14.5	970601	359.02480	344.74582	309.30788	1.96172	0.1762624	2.4370865	26	6	1981–1997	0.66	M-v	2	Williams	26578	1981 EK ₂₅
1981 EK ₃₅	14.0	970601	221.61416	79.32521	281.31751	0.81741	0.1002504	2.9922559	28	6	1978–1997	0.94	M-v	1	Williams	29653	1981 EK ₃₅
1981 EP ₃₈	15.0	970601	196.27772	169.81729	193.42149	10.46829	0.0712177	3.0449156	20	5	1951–1992	0.96	M-v	2	Williams	29653	1981 EP ₃₈
1981 JO	14.0	970601	239.42491	79.58452	226.88641	6.25705	0.2087002	2.2302347	29	5	1981–1995	0.55	M-v	1	Williams	26418	1981 JO
1981 QF	14.5	970601	300.28389	19.65801	341.98600	3.64719	0.2477223	2.5555260	27	7	1976–1997	0.94	M-v	2	Williams	29132	1981 QF
1981 QU ₃	14.0	970601	102.73922	150.99664	151.68659	10.29273	0.1769661	2.3959444	31	3	1981–1996	0.99	M-v	4	Williams	27909	1981 QU ₃
1981 RQ ₂	13.0	970601	304.13958	91.57966	230.97293	10.14780	0.1857762	2.5921427	17	5	1976–1997	0.62	M-v	1	Williams	24557	1981 RQ ₂
1981 SC ₇	13.5	970601	315.14622	344.43051	40.51691	8.64677	0.2424765	2.5317228	14	5	1969–1993	0.86	M-v	3	Williams	22823	1981 SC ₇
1981 UW ₂₁	12.0	970601	130.28002	274.64787	125.19765	5.33531	0.0762989	2.7814250	17	6	1955–1996	0.85	M-v	2	Williams	29940	1981 UW ₂₁
1981 UR ₂₇	12.0	970601	24.72154	202.90022	13.13301	13.47174	0.1102323	2.6590633	18	5	1949–1997	0.65	M-v	2	Williams	27118	1981 UR ₂₇
1981 WC	13.0	970601	340.18101	306.50467	65.12982	9.51529	0.3315419	3.0790421	28	3	1981–1997	0.73	M-v	4	Williams	27566	1981 WC
1982 QX ₁	14.5	970601	65.36288	161.46246	132.90916	7.54710	0.1225082	2.3534177	27	3	1982–1996	0.62	M-v	3	Williams	27305	1982 QX ₁
1982 RK	13.5	970601	132.77565	290.28024	108.39369	4.86441	0.1408282	2.2122551	36	4	1982–1997	0.83	M-v	3	Williams	29654	1982 RK
1982 SO ₄	13.5	970601	319.58458	54.59164	14.35061	7.55276	0.2886522	2.3925085	27	3	1982–1993	0.55	M-v	3	Williams	23132	1982 SO ₄
1982 UR ₆	14.0	970601	355.88280	313.40339	46.82154	3.05634	0.2216194	2.4049667	22	8	1978–1996	0.74	M-v	2	Williams	29654	1982 UR ₆
1982 UC ₁₁	14.5	970601	250.27259	133.28516	244.00504	3.42044	0.2090354	2.5190283	16	5	1982–1997	0.78	M-v	4	Marsden	29940	1982 UC ₁₁
1982 VF ₄	15.0	970601	237.94058	165.42255	206.23823	3.30774	0.2058735	2.1585504	23	3	1982–1997	0.66	M-v	3	Williams	30075	1982 VF ₄
1983 AC ₁	13.5	970601	63.71129	357.61929	129.40548	28.52651	0.2025388	2.2736471	29	3	1983–1997	0.63	M-v	3	Williams	22075	1983 AC ₁
1983 BD	12.0	970601	125.87378	258.74060	115.42742	15.18967	0.1552999	2.7639960	15	4	1974–1997	0.79	M-v	2	Williams	29094	1983 BD
1983 EV	13.0	970601	71.17521	145.56956	11.84256	3.63010	0.1117547	2.7245904	36	9	1950–1997	0.77	M-v	1	Williams	27931	1983 EV
1983 RT ₁	14.0	970601	273.99991	321.67743	0.32103	6.27984	0.1405501	2.3893615	15	6	1950–1997	0.73	M-v	2	Williams	24117	1983 RT ₁
1983 RG ₂	14.5	970601	334.28159	296.50647	70.21886	6.33790	0.2019995	2.2940914	20	5	1979–1997	0.56	M-v	2	Williams	27119	1983 RG ₂
1983 RX ₃	13.0	970601	306.24114	136.54419	170.60987	14.10150	0.3212590	2.8653149	28	7	1977–1997	0.69	M-v	2	Williams	26923	1983 RX ₃
1983 TE ₁	13.5	970601	179.15785	174.36654	210.21542	5.84504	0.1520830	2.4731108	65	7	1979–1997	0.76	M-v	2	Marsden	29940	1983 TE ₁
1983 XG	12.0	970601	179.28618	162.04151	208.97144	4.84162	0.1587234	3.1818867	36	6	1983–1997	0.75	M-v	1	Williams	27931	1983 XG
1984 BS	13.5	970601	109.11779	310.69067	110.44700	6.38427	0.1067955	2.1767015	24	4	1984–1997	0.63	M-v	3	Williams	29940	1984 BS
1984 HM ₁	14.0	970601	306.67314	159.77661	24.97983	2.52901	0.1111645	2.2804795	21	5	1984–1995	0.57	M-v	1	Williams	29654	1984 HM ₁
1984 MP	12.0	970601	344.44440	36.38982	225.74173	12.70985	0.1503228	2.6861115	42	5	1970–1997	0.71	M-v	1	Williams	30090	1984 MP
1984 SU ₃	14.0	970601	351.53514	314.89017	43.40025	5.77103	0.3111389	2.6423318	12	4	1954–1995	0.81	M-v	2	Williams	9415	1984 SU ₃
1984 SN ₆	13.0	970601	201.85846	129.43768	61.95009	3.29907	0.0880099	2.5610028	35	3	1984–1995	0.42	M-v	4	Williams	25211	1984 SN ₆
1984 UD	13.5	970601	266.68454	24.12593	27.52661	9.20787	0.2467685	2.7462028	21	4	1984–1996	1.04	M-v	2	Williams	27454	1984 UD

1984 UT	13.0	970601	236.52063	201.73030	232.50662	16.16773	0.2280362	2.7864368	38	4	1984–1997	0.79	M-v	1	Williams	23246	1984 UT
1985 JK	14.0	970601	116.17319	135.79449	108.73811	5.57286	0.1197194	2.3466695	31	6	1985–1995	0.83	M-v	2	Williams	29316	1985 JK
1985 JM	13.0	970601	270.01401	120.02700	212.03978	12.08373	0.3030484	2.5680835	26	5	1956–1997	0.85	M-v	2	Williams	29654	1985 JM
1985 QD ₆	15.0	970601	312.49389	225.39456	121.88374	5.17974	0.2957212	2.5529563	16	3	1985–1997	1.00	M-v	4	Williams	22968	1985 QD ₆
1985 RV ₄	13.0	970601	34.53995	333.54565	8.84513	0.31042	0.1928594	3.1881063	34	6	1962–1996	0.77	M-v	2	Williams	29940	1985 RV ₄
1985 UK ₃	13.5	970601	222.48936	265.12362	40.07997	4.60298	0.1556879	2.2515814	8	2	1985–1991	0.85	M-v	5	Williams	18285	1985 UK ₃
1985 XA	14.0	970601	92.32226	37.34477	81.11036	24.87541	0.0504966	1.9048324	19	3	1985–1997	0.79	M-v	3	Williams	29911	1985 XA
1986 CB	13.5	970601	98.40042	289.82755	131.91888	22.47612	0.3518973	2.3451696	27	5	1986–1997	1.00	M-v	2	Williams	29655	1986 CB
1986 CF ₂	12.5	970601	279.06550	64.82854	315.27907	16.97617	0.1683576	2.7500445	28	4	1986–1997	0.88	M-v	2	Williams	25079	1986 CF ₂
1986 JD	14.0	970601	1.59862	158.92105	102.93033	8.95790	0.1710993	2.3532109	34	7	1980–1997	0.69	M-v	1	Williams	26578	1986 JD
1986 PU ₁	15.0	970601	304.39419	324.06080	28.01795	1.97573	0.1995975	2.4031889	65	6	1975–1997	0.55	M-v	1	Williams	30090	1986 PU ₁
1986 QB ₃	12.5	970601	303.29323	275.02511	86.73449	2.88253	0.1834862	3.1967242	89	8	1975–1996	0.85	M-v	1	Williams	27324	1986 QB ₃
1986 RD	13.5	970601	128.43213	101.74654	212.96825	6.86648	0.2249169	2.7946435	39	5	1986–1996	0.59	M-v	1	Williams	28315	1986 RD
1986 SC ₂	13.5	970601	322.91181	57.33951	231.08990	11.32588	0.1787803	2.4573187	23	5	1982–1997	0.51	M-v	2	Williams	29655	1986 SC ₂
1986 TX ₃	14.5	970601	352.57477	310.96356	84.05453	3.19093	0.1508610	2.3175254	16	2	1986–1993	0.88	M-v	6	Williams	23971	1986 TX ₃
1987 DH ₆	13.5	970601	36.76723	344.09867	264.10919	1.39452	0.1053395	2.6966918	74	7	1953–1997	0.57	M-v	1	Williams	28612	1987 DH ₆
1987 HK	13.5	970601	117.01623	338.32112	313.18441	1.05184	0.0861818	2.5550608	28	5	1982–1996	0.99	M-v	2	Williams	28883	1987 HK
1987 QF ₆	14.5	970601	227.80974	262.69876	170.55328	21.92615	0.3181913	2.3091577	13	4	1980–1994	0.83	M-v	2	Williams	30075	1987 QF ₆
1987 RG	12.5	970601	308.71710	205.02550	120.80230	3.52824	0.1808901	3.0923394	45	7	1954–1997	0.80	M-v	1	Williams	29133	1987 RG
1987 RN ₆	12.5	970601	291.03458	309.35507	80.26870	5.94383	0.0603122	2.9954020	15	2	1987–1995	0.66	M-v	4	Williams	25225	1987 RN ₆
1987 SC ₆	12.5	970601	288.46969	151.68058	162.73948	1.16430	0.1657642	3.1788303	49	6	1987–1997	0.76	M-v	1	Williams	28613	1987 SC ₆
1987 SU ₁₇	13.5	970601	281.37250	120.88131	214.73035	6.34037	0.1323693	2.3422655	21	4	1987–1997	0.82	M-v	2	Williams	30090	1987 SU ₁₇
1987 WF ₁	12.5	970601	261.02406	133.18008	233.59339	23.00370	0.2782738	2.3527534	24	3	1987–1997	0.52	M-v	2	Williams	27324	1987 WF ₁
1987 YA	15.0	970601	272.59273	170.16957	223.26481	2.37791	0.2959750	2.3135232	43	4	1987–1997	0.75	M-v	2	Williams	29655	1987 YA
1987 YS ₁	13.5	970601	107.88993	305.56168	149.42750	13.03744	0.1229251	2.5546397	16	5	1954–1997	0.75	M-v	3	Williams	28841	1987 YS ₁
1988 BW	13.0	970601	90.05088	141.44404	322.74233	12.19805	0.1237309	2.6391337	31	6	1988–1997	0.81	M-v	1	Williams	27727	1988 BW
1988 CL ₂	14.0	970601	256.98421	244.49438	124.98356	5.53988	0.1922573	2.4327570	25	3	1988–1997	0.80	M-v	4	Williams	25339	1988 CL ₂
1988 DJ ₂	15.0	970601	285.35337	46.64989	327.75381	1.26711	0.2321589	2.3654611	53	6	1983–1997	0.79	M-v	1	Williams	25648	1988 DJ ₂
1988 GD	13.5	970601	121.04959	127.72759	100.51517	5.21335	0.1067188	2.4296424	22	5	1988–1996	0.65	M-v	2	Williams	27932	1988 GD
1988 GF	12.5	970601	7.91370	50.14570	227.29252	13.33448	0.1765414	2.5957214	15	4	1981–1997	0.88	M-v	2	Williams	24737	1988 GF
1988 KA	13.0	970601	297.08227	222.57733	86.24388	3.80584	0.1900758	2.1394062	37	8	1982–1997	0.94	M-v	2	Williams	29941	1988 KA
1988 RB ₆	14.0	970601	60.82147	160.40991	162.73757	12.55388	0.2530313	2.5601024	61	4	1988–1996	0.89	M-v	3	Williams	28085	1988 RB ₆
1988 RN ₁₀	12.5	970601	11.99400	78.82380	153.68830	16.56693	0.0334763	5.1475214	19	5	1988–1997	0.66	M-v	1	Williams	30090	1988 RN ₁₀
1988 RR ₁₀	12.5	970601	318.43492	122.12334	164.51100	17.28297	0.0611825	5.1320740	24	3	1988–1995	0.43	M-v	3	Williams	25226	1988 RR ₁₀
1988 RN ₁₁	11.5	970601	4.34782	56.34075	171.50631	1.41437	0.0960812	5.2712288	28	7	1982–1997	0.78	M-v	1	Williams	26924	1988 RN ₁₁
1988 SH ₂	12.0	970601	256.74378	225.29683	109.10880	11.35245	0.1159548	2.9948939	19	4	1978–1997	0.77	M-v	3	Williams	29656	1988 SH ₂
1988 TL ₁	14.0	970601	174.94746	176.00896	214.60242	4.86783	0.1398398	2.2811380	36	3	1988–1997	0.90	M-v	4	Marsden	29941	1988 TL ₁
1988 UO	12.0	970601	11.65544	309.32787	31.37885	9.72008	0.1873923	2.7283154	22	2	1988–1995	0.78	M-v	4	Williams	25212	1988 UO
1988 UT	15.0	970601	225.26278	264.38615	138.68533	2.19450	0.1606243	2.1886770	29	4	1988–1997	0.50	M-v	2	Marsden	26924	1988 UT
1988 XV ₂	15.0	970601	235.98307	127.03399	286.33704	3.50849	0.2033247	2.1964358	20	4	1952–1997	0.70	M-v	2	Williams	22493	1988 XV ₂
1989 AF ₃	14.0	970601	118.45542	28.35859	110.84852	6.74124	0.1860843	2.3259540	21	3	1988–1997	0.79	M-v	4	Williams	29656	1989 AF ₃
1989 AC ₇	13.5	970601	272.11005	246.35106	137.09597	1.98486	0.1780481	3.1558331	24	4	1981–1997	0.59	M-v	2	Williams	27306	1989 AC ₇
1989 BW ₁	15.0	970601	136.54285	28.12349	101.52730	2.71186	0.1027486	2.3137384	51	5	1989–1997	0.66	M-v	1	Williams	29941	1989 BW ₁
1989 CV ₁	14.5	970601	132.34196	358.50260	99.72373	5.50624	0.1715612	2.3721287	28	4	1989–1997	0.85	M-v	1	Williams	28315	1989 CV ₁
1989 CJ ₈	13.0	970601	6.68358	65.30626	145.18963	8.66766	0.1924910	2.4669162	53	3	1989–1997	0.71	M-v	3	Williams	29941	1989 CJ ₈
1989 GJ ₂	14.0	970601	254.20195	166.34116	229.87392	7.18686	0.1124224	2.3621107	24	5	1976–1997	0.82	M-v	2	Williams	29134	1989 GJ ₂
1989 GG ₄	13.5	970601	91.71811	299.06166	211.92615	5.87796	0.0656831	2.4289180	31	6	1970–1997	0.95	M-v	2	Williams	27933	1989 GG ₄
1989 GL ₄	14.0	970601	335.58682	26.98170	204.62611	13.48253	0.1223291	2.5405286	15	3	1989–1997	0.70	M-v	4	Williams	30091	1989 GL ₄
1989 GD ₅	12.5	970601	258.39492	272.47439	34.44386	14.85264	0.1259798	2.5873439	21	5	1982–1997	0.93	M-v	2	Williams	23537	1989 GD ₅
1989 NY	13.5	970601	9.03612	202.09078	140.65010	10.40052	0.2083396	2.4091566	23	6	1952–1995	0.96	M-v	2	Williams	27933	1989 NY
1989 SX	14.0	970601	314.84648	354.79428	27.93170	6.68501	0.3020600	2.5582794	46	3	1989–1993	1.01	M-v	3	Williams	28884	1989 SX
1989 SF ₁	13.5	970601	358.15397	129.35342	160.50217	7.99750	0.1435947	2.6224985	25	4	1989–1997	0.82	M-v	4	Williams	28613	1989 SF ₁

1989 SG ₁	14.0	970601	199.60154	330.85614	166.48215	7.83711	0.1450890	2.5783347	30	4	1980–1993	0.92	M-v	2	Williams	24760	1989 SG ₁
1989 SJ ₁	15.5	970601	341.23665	266.81816	74.42937	3.72301	0.2209825	2.5427084	26	3	1981–1993	0.86	M-v	4	Williams	24760	1989 SJ ₁
1989 SS ₁	15.5	970601	351.80396	256.88505	61.64590	3.72378	0.2693084	2.5462132	27	3	1981–1993	0.96	M-v	4	Williams	24760	1989 SS ₁
1989 SJ ₂	14.0	970601	11.37853	120.59464	172.20488	13.27594	0.1532204	2.5816705	17	2	1989–1993	0.71	M-v	5	Williams	29657	1989 SJ ₂
1989 SW ₂	13.0	970601	6.33147	129.37568	83.90850	5.72681	0.1486310	2.8722737	35	5	1989–1997	0.67	M-v	2	Williams	30091	1989 SW ₂
1989 SZ ₂	14.5	970601	304.35488	191.06847	179.96084	10.87497	0.1819288	2.5953587	30	3	1989–1997	0.80	M-v	4	Marsden	28843	1989 SZ ₂
1989 SN ₄	14.0	970601	105.15907	52.85002	157.29052	4.25254	0.1280672	2.6025463	26	4	1979–1996	1.00	M-v	3	Williams	27728	1989 SN ₄
1989 SV ₅	15.0	970601	226.50431	47.14361	71.99234	6.28067	0.1828922	2.5704546	16	3	1981–1993	1.07	M-v	4	Williams	24760	1989 SV ₅
1989 TB ₁₁	13.0	970601	278.41179	33.50875	336.56669	4.02914	0.1348308	2.6662763	25	6	1950–1997	0.79	M-v	1	Williams	28613	1989 TB ₁₁
1989 TA ₁₆	14.5	970601	351.13575	71.76438	233.16753	2.29126	0.1644492	2.5875306	26	5	1981–1997	0.64	M-v	3	Williams	28884	1989 TA ₁₆
1989 UG ₃	13.5	970601	279.58835	319.90045	87.90410	4.91225	0.1620018	2.6122844	25	4	1982–1993	0.65	M-v	2	Williams	29657	1989 UG ₃
1989 UW ₅	14.5	970601	297.45603	349.73486	58.25732	4.64531	0.2244559	2.5617215	19	3	1989–1996	0.73	M-v	5	Williams	27555	1989 UW ₅
1989 WU ₁	13.5	970601	346.59592	110.78810	227.17102	9.93604	0.2791385	2.5901849	30	3	1972–1997	1.03	M-v	4	Marsden	30076	1989 WU ₁
1990 DA ₃	13.0	970601	262.29011	313.45375	117.15584	3.16212	0.0457218	2.8370850	26	5	1988–1995	0.70	M-v	1	Williams	29941	1990 DA ₃
1990 DM ₃	14.5	970601	309.14297	288.15637	358.00813	4.63721	0.1550727	2.2407753	38	5	1954–1997	0.73	M-v	1	Williams	21573	1990 DM ₃
1990 EL ₂	16.0	970601	19.98965	358.28201	213.62082	5.68946	0.1032590	2.2443048	22	3	1990–1997	0.74	M-v	4	Williams	30076	1990 EL ₂
1990 EF ₇	13.0	970601	9.23340	117.87383	133.24819	2.03641	0.1169175	3.2194249	26	5	1979–1997	0.66	M-v	2	Williams	27119	1990 EF ₇
1990 FH	14.5	970601	14.55688	145.19778	50.71493	24.50344	0.2266804	2.3061878	31	3	1990–1997	0.61	M-v	3	Williams	30091	1990 FH
1990 OX ₂	15.5	970601	286.71414	206.71102	131.09290	3.04720	0.2365112	2.4009842	16	3	1990–1997	0.83	M-v	4	Williams	30077	1990 OX ₂
1990 QO	13.5	970601	274.85652	253.89349	160.89419	21.76494	0.3495341	2.3405298	23	4	1970–1997	0.71	M-v	2	Marsden	28614	1990 QO
1990 QT ₁	15.0	970601	294.82995	199.15126	133.07361	2.95027	0.2187669	2.4127126	19	2	1990–1997	0.89	M-v	6	Williams	30077	1990 QT ₁
1990 QA ₂	14.0	970601	128.38620	114.22447	320.52061	1.59144	0.0627693	2.6306535	31	8	1976–1997	0.64	M-v	1	Williams	29657	1990 QA ₂
1990 QB ₂	14.5	970601	314.03102	150.69797	171.87743	2.08423	0.2163313	2.3836093	24	5	1979–1997	0.59	M-v	2	Williams	29657	1990 QB ₂
1990 QY ₂	14.0	970601	206.79237	49.24485	0.23292	2.31924	0.1006860	2.4781011	35	5	1978–1997	0.76	M-v	2	Williams	26900	1990 QY ₂
1990 QL ₃	14.0	970601	305.09104	325.72635	349.12908	5.66501	0.1453936	2.4282693	26	5	1978–1997	0.64	M-v	2	Williams	24240	1990 QL ₃
1990 QJ ₄	14.0	970601	330.76010	124.03416	156.19056	2.44599	0.1939432	2.4127561	28	4	1990–1997	0.89	M-v	2	Williams	24240	1990 QJ ₄
1990 QT ₄	13.0	970601	169.79714	48.04469	1.75082	15.22410	0.0968242	2.5725262	20	6	1986–1997	0.42	M-v	1	Williams	27933	1990 QT ₄
1990 QJ ₅	14.5	970601	277.08333	359.89276	19.86295	2.74013	0.2114193	2.3805605	52	3	1990–1997	0.79	M-v	4	Williams	23859	1990 QJ ₅
1990 RM ₅	14.5	970601	323.79618	309.22771	22.39336	0.69323	0.2404758	2.3555069	30	7	1971–1997	0.85	M-v	2	Williams	26925	1990 RM ₅
1990 SY	13.0	970601	257.95156	337.72010	331.02979	8.41954	0.1852998	2.5936302	29	4	1990–1997	0.86	M-v	3	Williams	24912	1990 SY
1990 TK ₃	12.5	970601	216.24733	1.61312	32.57203	17.09388	0.1747483	2.5811053	41	5	1990–1997	0.83	M-v	2	Williams	27728	1990 TK ₃
1990 TU ₈	14.5	970601	325.74974	321.73772	9.03615	2.29952	0.2313322	2.3723022	31	5	1979–1997	0.63	M-v	1	Williams	26925	1990 TU ₈
1990 TV ₁₂	10.5	970601	258.25828	110.56572	242.65455	24.03515	0.0919050	5.1995084	20	5	1954–1992	0.95	M-v	2	Marsden	27934	1990 TV ₁₂
1990 TA ₁₃	12.0	970601	32.75053	86.10137	38.59762	10.58064	0.0433431	3.0045701	22	5	1974–1997	0.81	M-v	2	Williams	26579	1990 TA ₁₃
1990 UC	14.0	970601	316.49526	190.44300	182.49494	8.12425	0.2143152	2.3401590	45	4	1990–1997	0.76	M-v	2	Williams	28614	1990 UC
1990 UR	14.0	970601	288.49377	27.40666	337.88568	1.97405	0.2082285	2.4214561	11	7	1971–1997	0.94	M-v	2	Williams	26925	1990 UR
1990 UO ₁	14.0	970601	228.22814	258.73839	126.64609	5.18398	0.1561591	2.5714781	22	3	1990–1997	0.49	M-v	4	Williams	30077	1990 UO ₁
1990 UG ₄	13.5	970601	325.51225	80.77711	194.78970	13.78767	0.1610798	2.5783687	17	3	1988–1997	0.61	M-v	2	Williams	29612	1990 UG ₄
1990 WP ₄	12.5	970601	9.26413	123.57823	88.67646	10.24941	0.0900613	2.7708878	17	4	1979–1997	0.62	M-v	3	Williams	29658	1990 WP ₄
1990 WQ ₄	14.0	970601	70.82378	177.52584	130.83388	3.69215	0.2032352	2.2504599	19	3	1990–1993	0.72	M-v	4	Williams	27934	1990 WQ ₄
1990 WU ₅	14.5	970601	155.67997	343.02355	133.60166	4.15991	0.0585230	2.5943873	29	4	1971–1997	0.65	M-v	2	Williams	22826	1990 WU ₅
1990 WE ₉	15.0	970601	305.88435	197.92807	155.64183	2.69099	0.1853660	2.4229968	18	4	1986–1997	0.56	M-v	2	Williams	25213	1990 WE ₉
1991 AA ₁	13.0	970601	220.98092	302.53649	85.66533	4.81342	0.0945697	2.7591670	24	7	1979–1997	0.62	M-v	1	Williams	28885	1991 AA ₁
1991 AN ₂	12.5	970601	301.73998	173.32250	147.34900	17.73250	0.1790865	2.5578810	26	5	1991–1997	0.67	M-v	2	Williams	30091	1991 AN ₂
1991 BE	12.5	970601	141.39321	246.58546	293.85656	26.90140	0.1667073	2.5980939	32	4	1953–1997	0.67	M-v	2	Williams	27934	1991 BE
1991 EM ₁	13.5	970601	263.47176	193.14752	165.70387	11.09403	0.1223112	2.9776890	23	5	1950–1997	0.36	M-v	1	Williams	29613	1991 EM ₁
1991 ES ₁	12.0	970601	238.30386	264.63135	165.59137	14.13596	0.1798095	2.6453413	46	6	1976–1997	0.87	M-v	1	Williams	28885	1991 ES ₁
1991 EN ₂	12.5	970601	210.68307	181.62379	207.18425	1.41843	0.0945574	2.9276419	36	4	1991–1997	0.65	M-v	2	Williams	26925	1991 EN ₂
1991 EJ ₄	11.5	970601	306.35720	327.52995	314.48705	4.12107	0.1167182	3.0714604	27	6	1954–1997	0.69	M-v	1	Williams	30091	1991 EJ ₄
1991 FH ₂	14.0	970601	82.21960	236.73884	281.48205	0.74588	0.0630141	2.9908511	28	4	1978–1997	0.57	M-v	2	Williams	30077	1991 FH ₂
1991 JL	14.0	970601	269.75751	39.67277	191.39681	5.53508	0.1660652	2.2797993	19	5	1984–1994	0.61	M-v	1	Williams	28886	1991 JL
1991 PY ₂	13.5	970601	24.78003	168.53896	324.21678	9.44655	0.1257205	2.3918895	23	4	1975–1997	0.79	M-v	2	Williams	29659	1991 PY ₂

1991 PF ₁₀	14.5	970601	285.98185	209.67276	144.83664	2.20357	0.0695065	2.1485495	29	7	1953–1997	0.67	M-v	2	Williams	27728	1991 PF ₁₀
1991 PX ₁₇	13.0	970601	274.49479	278.22819	0.37659	6.66296	0.1117775	2.3251431	26	4	1962–1997	0.82	M-v	3	Williams	29943	1991 PX ₁₇
1991 RJ	13.0	970601	154.32348	331.26659	338.08881	13.19368	0.1610735	2.6225706	30	7	1951–1994	0.95	M-v	2	Williams	29659	1991 RJ
1991 RO ₁	12.5	970601	37.05162	30.73701	328.69044	6.04406	0.2110018	3.0097556	25	6	1949–1996	0.84	M-v	2	Williams	28614	1991 RO ₁
1991 RM ₂	13.5	970601	248.60936	187.21244	168.05838	8.71272	0.2088426	2.2596162	29	5	1923–1997	0.71	M-v	2	Williams	28886	1991 RM ₂
1991 RS ₂	14.0	970601	143.09852	242.42071	210.36120	6.47858	0.0650745	2.3055019	28	2	1991–1997	0.58	M-v	4	Williams	30077	1991 RS ₂
1991 RJ ₁₁	13.5	970601	29.10906	191.31093	105.83712	2.42517	0.1160521	3.1308924	25	3	1989–1995	0.74	M-v	4	Williams	28615	1991 RJ ₁₁
1991 RD ₁₆	16.0	970601	252.26242	216.84539	154.56939	4.73864	0.2004601	2.2171047	28	3	1991–1997	0.61	M-v	4	Williams	30091	1991 RD ₁₆
1991 RU ₁₇	13.5	970601	231.30624	179.79022	191.27006	3.30765	0.0297809	2.2452795	22	5	1985–1997	0.95	M-v	2	Williams	29915	1991 RU ₁₇
1991 RF ₂₉	13.5	970601	281.48167	10.62540	277.16849	10.06239	0.0410067	2.3828073	18	6	1951–1997	0.65	M-v	2	Williams	27567	1991 RF ₂₉
1991 TE ₁	13.0	970601	70.64639	22.39013	89.60520	14.70601	0.1174832	2.5593208	20	3	1979–1997	0.55	M-v	2	Williams	29099	1991 TE ₁
1991 TL ₁	13.5	970601	152.02225	240.01843	196.27172	19.88078	0.2798583	2.4195425	39	4	1989–1997	0.78	M-v	2	Williams	27935	1991 TL ₁
1991 TP ₁	14.0	970601	300.13535	82.39386	234.28676	3.79269	0.2156789	2.2040952	45	4	1991–1997	0.73	M-v	3	Williams	30091	1991 TP ₁
1991 TJ ₂	13.5	970601	326.54804	255.63301	53.73775	5.81573	0.2270634	2.1758546	16	5	1968–1997	0.81	M-v	2	Williams	27935	1991 TJ ₂
1991 TV ₄	14.0	970601	314.78130	206.98764	126.23818	3.03603	0.1750982	2.1718991	31	4	1977–1997	0.78	M-v	2	Williams	29943	1991 TV ₄
1991 TO ₁₃	13.5	970601	303.72182	106.00815	220.98358	6.86784	0.1292952	2.2856946	38	6	1987–1997	0.65	M-v	1	Williams	25649	1991 TO ₁₃
1991 UZ	12.5	970601	141.81427	212.13663	168.59587	5.57545	0.2153296	2.5582216	19	5	1954–1997	0.41	M-v	1	Williams	26190	1991 UZ
1991 UO ₂	14.0	970601	207.23325	290.19393	113.15842	4.74238	0.1977970	2.3234012	31	4	1984–1997	0.84	M-v	2	Williams	30091	1991 UO ₂
1991 UC ₃	14.0	970601	102.28181	182.11907	190.51254	3.10045	0.1912225	2.7366758	20	5	1955–1995	0.91	M-v	1	Williams	27935	1991 UC ₃
1991 UD ₃	14.0	970601	110.15328	226.60362	209.49327	7.13434	0.2388570	2.5542993	38	5	1983–1997	0.81	M-v	2	Williams	29660	1991 UD ₃
1991 UE ₃	13.5	970601	324.23218	208.73247	76.64306	7.32955	0.1903959	2.2570079	26	4	1974–1997	0.70	M-v	3	Williams	30091	1991 UE ₃
1991 VH	16.5	970601	250.54678	207.06895	139.48800	13.91670	0.1438605	1.1365315	182	2	1991–1997	0.56	M-v	2	Williams	30091	1991 VH
1991 VO	13.0	970601	130.92564	267.55780	208.17217	6.19582	0.0590386	2.3636009	21	6	1954–1997	0.77	M-v	1	Williams	28316	1991 VO
1991 VJ ₂	14.0	970601	276.75054	145.94121	204.10325	4.62287	0.2278963	2.2466886	24	2	1991–1997	0.70	M-v	4	Williams	30078	1991 VJ ₂
1991 VY ₄	14.0	970601	140.11762	334.71737	98.68146	3.73378	0.1516237	2.4595820	17	2	1991–1997	0.54	M-v	5	Williams	30078	1991 VY ₄
1991 VL ₁₀	14.0	970601	88.61551	185.81928	165.69396	2.17540	0.0833844	2.9082484	13	2	1976–1991	0.30	M-v	5	Williams	20511	1991 VL ₁₀
1991 XU	12.5	970601	43.01429	251.45799	288.64307	11.92547	0.1138381	2.5990696	63	3	1991–1997	0.73	M-v	2	Williams	29943	1991 XU
1992 AN	13.0	970601	257.22636	241.07249	117.10599	23.47622	0.2793731	2.3410081	20	4	1989–1997	0.71	M-v	2	Williams	30091	1992 AN
1992 BU ₄	16.5	970601	250.83072	212.75843	172.85966	6.41288	0.2576962	2.3257863	24	4	1992–1997	0.52	M-v	2	Williams	30091	1992 BU ₄
1992 CH	13.5	970601	117.69349	168.09633	311.93760	12.64802	0.1124584	2.6286375	23	4	1992–1997	0.77	M-v	2	Williams	26926	1992 CH
1992 DZ	12.5	970601	91.45304	15.24625	141.55123	14.45086	0.1003810	2.6190979	18	5	1988–1997	0.85	M-v	2	Williams	28615	1992 DZ
1992 DS ₆	12.0	970601	313.35500	294.37352	0.26928	8.31448	0.2687349	2.7337745	12	4	1979–1997	0.65	M-v	2	Williams	29660	1992 DS ₆
1992 DA ₉	14.0	970601	78.24946	298.15933	9.74373	7.75286	0.1771497	2.2258246	19	3	1989–1993	0.76	M-v	4	Williams	27935	1992 DA ₉
1992 ES ₁	13.5	970601	92.75376	216.10967	36.05723	9.19122	0.1776296	2.3853786	16	4	1970–1993	0.73	M-v	3	Williams	20154	1992 ES ₁
1992 EF ₂	14.0	970601	83.94018	82.93034	156.70927	12.18633	0.1723930	2.4175817	47	5	1988–1997	0.83	M-v	2	Williams	29660	1992 EF ₂
1992 EJ ₄	14.5	970601	156.75431	150.98110	104.69489	2.31326	0.1127199	2.1413795	20	4	1990–1995	0.65	M-v	2	Williams	25650	1992 EJ ₄
1992 FE ₁	12.5	970601	231.05808	330.13839	51.03904	5.10326	0.1292159	2.6761655	47	4	1992–1997	0.59	M-v	1	Williams	27455	1992 FE ₁
1992 GA ₄	13.0	970601	293.93554	88.01097	158.06535	1.41926	0.0987023	3.2085279	53	4	1991–1997	0.44	M-v	1	Marsden	29943	1992 GA ₄
1992 LR	18.0	970601	344.69681	67.75826	233.22219	2.02355	0.4092911	1.8309125	180	2	1992–1997	0.67	M-v	0	Marsden	30091	1992 LR
1992 OZ ₉	11.5	970601	215.45716	259.49019	50.60330	3.53013	0.2053758	3.9765933	30	6	1978–1993	0.88	M-v	1	Williams	23674	1992 OZ ₉
1992 PD ₂	12.5	970601	350.23609	85.94290	206.38592	7.02587	0.2039374	3.0037593	18	5	1987–1997	0.74	M-v	2	Williams	27935	1992 PD ₂
1992 QE ₂	13.0	970601	319.88805	168.78482	179.97779	13.82246	0.2485711	3.0243028	22	5	1987–1997	0.88	M-v	2	Williams	24107	1992 QE ₂
1992 QL ₂	11.5	970601	337.14374	77.60572	242.45780	9.37671	0.1017366	3.0065986	12	5	1935–1992	0.85	M-v	2	Williams	27714	1992 QL ₂
1992 RF ₇	13.0	970601	19.46514	220.27422	41.84389	5.10604	0.0804686	3.1940081	20	6	1956–1997	0.97	M-v	1	Williams	29136	1992 RF ₇
1992 RH ₇	14.5	970601	35.57986	76.24368	35.31769	4.75819	0.0810235	2.2388773	23	6	1981–1994	0.99	M-v	2	Williams	23992	1992 RH ₇
1992 SD ₁₃	12.5	970601	333.19359	122.00690	205.39074	11.77313	0.1555381	3.1595277	21	4	1981–1997	0.69	M-v	2	Williams	28615	1992 SD ₁₃
1992 UH ₂	14.5	970601	77.19065	168.18134	223.40562	5.59762	0.1447996	2.4413578	22	5	1991–1996	0.84	M-v	2	Williams	28887	1992 UH ₂
1992 UY ₂	14.5	970601	101.69850	211.81114	205.43821	4.97320	0.0742820	2.2956330	34	4	1988–1997	0.75	M-v	3	Williams	29661	1992 UY ₂
1992 WC ₁	14.5	970601	179.84104	81.19476	265.52517	4.71230	0.1906572	2.2384629	22	4	1955–1995	0.66	M-v	2	Williams	27914	1992 WC ₁
1992 WJ ₂	13.5	970601	175.88289	273.34093	51.51775	7.12478	0.1482155	2.3278936	18	3	1991–1994	0.75	M-v	4	Williams	23992	1992 WJ ₂
1993 BJ ₃	14.5	970601	118.99355	305.28120	172.52206	1.19196	0.0894441	2.2567819	15	5	1978–1997	0.64	M-v	2	Williams	28317	1993 BJ ₃
1993 BN ₃	15.0	970601	282.84723	276.35047	32.31735	7.09581	0.1500519	2.3028579	30	4	1977–1997	0.58	M-v	2	Marsden	29661	1993 BN ₃

1993 BQ ₄	15.0	970601	33.02224	79.62100	122.59338	2.12612	0.0986215	2.2893842	25	3	1991–1997	0.52	M-v	4	Williams	30079	1993 BQ ₄
1993 DB ₁	13.5	970601	47.10386	108.62024	96.37044	0.22386	0.1490797	2.3289419	21	5	1982–1997	0.87	M-v	2	Williams	29944	1993 DB ₁
1993 DC ₁	14.5	970601	347.19909	128.18630	128.21128	2.99269	0.1622727	2.3858797	22	5	1986–1997	0.67	M-v	2	Williams	30079	1993 DC ₁
1993 DD ₂	12.5	970601	93.38813	65.95650	14.18449	14.83962	0.0680666	2.5829799	28	3	1993–1997	0.69	M-v	2	Williams	29661	1993 DD ₂
1993 DG ₂	14.0	970601	87.99480	46.82882	129.67255	6.49546	0.1125056	2.2382649	26	4	1993–1997	0.88	M-v	2	Williams	26758	1993 DG ₂
1993 EE	14.5	970601	58.21013	67.61417	136.43912	3.94927	0.1453675	2.2834426	34	3	1993–1997	0.69	M-v	4	Williams	29917	1993 EE
1993 FQ	14.0	970601	51.26763	325.56434	220.69466	7.76898	0.1352255	2.3987221	22	6	1976–1997	0.88	M-v	2	Williams	30092	1993 FQ
1993 FB ₁	13.0	970601	341.20663	160.32785	65.97656	8.62905	0.1452014	2.5697473	28	4	1993–1997	0.55	M-v	1	Williams	29662	1993 FB ₁
1993 FN ₁	12.5	970601	272.32405	142.32850	147.39585	8.86105	0.1895038	2.6040112	31	6	1952–1997	0.68	M-v	2	Williams	29944	1993 FN ₁
1993 FA ₅	14.0	970601	178.54788	280.81301	165.75737	6.13333	0.1136450	2.2242255	20	5	1951–1997	0.80	M-v	2	Williams	26926	1993 FA ₅
1993 FZ ₆	14.5	970601	332.05765	209.15794	69.51628	3.30386	0.1993066	2.3997367	11	2	1993–1997	0.52	M-v	5	Williams	29918	1993 FZ ₆
1993 FV ₇	13.0	970601	316.85809	276.50602	34.91750	7.50948	0.1119423	2.2904423	10	5	1976–1997	0.73	M-v	2	Williams	29617	1993 FV ₇
1993 FZ ₇	15.5	970601	208.05676	12.39823	53.78212	4.11207	0.0323705	2.2256343	16	4	1978–1997	0.68	M-v	2	Williams	27455	1993 FZ ₇
1993 FG ₁₂	13.0	970601	331.91090	296.10313	174.46655	14.53175	0.1488160	3.1456176	14	3	1993–1996	0.56	M-v	4	Williams	30080	1993 FG ₁₂
1993 FU ₁₇	13.5	970601	203.65652	12.36877	47.00268	7.34857	0.1352068	2.2465926	23	5	1991–1997	0.76	M-v	2	Williams	28887	1993 FU ₁₇
1993 FZ ₂₀	15.0	970601	51.31686	286.96144	180.47275	2.00608	0.1645257	2.6752726	13	4	1960–1993	0.83	M-v	2	Williams	23524	1993 FZ ₂₀
1993 FA ₂₇	14.0	970601	326.57372	116.22352	216.60200	5.35928	0.2123993	2.2328771	25	4	1987–1997	0.65	M-v	1	Williams	24762	1993 FA ₂₇
1993 FT ₃₁	14.5	970601	276.23104	212.54813	148.75841	5.60015	0.2304823	2.2680321	31	6	1953–1997	0.69	M-v	2	Williams	27121	1993 FT ₃₁
1993 FV ₃₂	14.0	970601	290.73220	207.66826	130.59221	2.79448	0.2025032	2.3249039	20	6	1976–1997	0.77	M-v	2	Williams	28616	1993 FV ₃₂
1993 FL ₃₉	15.0	970601	349.59855	244.97768	37.05135	2.66013	0.2096285	2.3484298	21	4	1993–1997	0.44	M-v	1	Williams	26927	1993 FL ₃₉
1993 GO	13.5	970601	18.25321	143.43620	57.98097	13.54763	0.1844040	2.5381716	55	5	1985–1997	0.69	M-v	3	Williams	30092	1993 GO
1993 HK	14.0	970601	67.54916	34.67196	129.99896	3.47410	0.1274250	2.4132678	27	4	1979–1995	0.69	M-v	3	Williams	26581	1993 HK
1993 HH ₇	14.0	970601	309.57118	344.81026	353.61078	2.49121	0.1075403	2.2729205	31	5	1976–1997	0.65	M-v	2	Williams	26927	1993 HH ₇
1993 JL	12.0	970601	336.89192	165.96067	78.48634	14.97216	0.1325364	2.5929387	32	5	1968–1997	0.74	M-v	2	Williams	29944	1993 JL
1993 MC	13.0	970601	2.65091	37.94218	220.61796	12.92317	0.2320459	2.5543627	32	5	1990–1997	0.71	M-v	2	Williams	30092	1993 MC
1993 OX ₂	15.5	970601	289.74063	214.84147	145.00835	5.87315	0.1752803	2.7638833	32	2	1979–1993	0.56	M-v	3	Williams	22691	1993 OX ₂
1993 OU ₇	13.5	970601	251.45326	196.85623	164.48107	2.01425	0.0449237	2.7015324	28	5	1987–1997	0.90	M-v	2	Williams	27326	1993 OU ₇
1993 QD ₃	13.5	970601	143.31846	296.67680	162.65433	9.99352	0.0605666	3.0643437	24	3	1993–1997	0.52	M-v	4	Williams	30092	1993 QD ₃
1993 RR ₂	15.5	970601	320.96763	161.97040	155.02825	11.38329	0.4903267	2.6577147	48	3	1993–1997	0.66	M-v	3	Williams	30092	1993 RR ₂
1993 SG ₁	13.5	970601	326.16446	175.42467	174.75986	13.86195	0.2925000	2.5828850	19	2	1989–1994	0.54	M-v	3	Williams	29137	1993 SG ₁
1993 SK ₁	13.5	970601	57.24380	273.61755	57.72204	2.49178	0.0841062	2.2582147	22	4	1983–1995	0.82	M-v	3	Williams	28318	1993 SK ₁
1993 SL ₆	13.5	970601	254.67707	220.10601	175.01844	2.04315	0.0687974	2.8279192	28	6	1979–1997	0.56	M-v	1	Williams	27936	1993 SL ₆
1993 TD	14.5	970601	322.33969	32.45456	4.46114	10.95494	0.1839738	2.4821447	20	3	1989–1995	0.83	M-v	4	Williams	28851	1993 TD
1993 TG	12.0	970601	43.25206	24.91105	198.72512	9.46443	0.1697561	3.0550372	25	7	1943–1997	0.63	M-v	1	Williams	29944	1993 TG
1993 TX	13.0	970601	314.77702	329.64156	42.24190	11.54506	0.2958153	2.6169266	29	4	1972–1997	0.83	M-v	2	Williams	28888	1993 TX
1993 TK ₃	13.0	970601	270.92408	262.10633	93.26305	3.44190	0.2973078	2.9947340	14	2	1993–1997	0.74	M-v	4	Williams	30080	1993 TK ₃
1993 TO ₁₅	14.5	970601	267.25364	204.33819	196.00517	2.17906	0.0838864	2.7623979	22	4	1993–1997	0.99	M-v	2	Williams	27312	1993 TO ₁₅
1993 UB ₁	12.5	970601	27.62353	356.08786	8.52919	23.23957	0.1549582	2.3241330	23	5	1954–1995	0.56	M-v	3	Williams	29944	1993 UB ₁
1993 XF	13.5	970601	315.05456	268.32553	115.31615	3.30454	0.0838093	2.7590721	34	6	1979–1996	0.72	M-v	1	Williams	29137	1993 XF
1994 CS ₈	9.5	970601	90.07707	22.20841	120.11466	6.91120	0.0203899	5.2602195	22	6	1988–1997	0.63	M-v	1	Williams	29318	1994 CS ₈
1994 DS	14.5	970601	54.46932	32.69679	52.35368	4.50598	0.1116480	2.2678403	22	6	1954–1997	0.87	M-v	2	Williams	29662	1994 DS
1994 FB	14.5	970601	57.66281	259.90075	193.60237	2.27909	0.0513343	2.2436681	49	4	1991–1997	0.78	M-v	2	Williams	29318	1994 FB
1994 JR ₁	7.5	970601	0.75486	103.44407	144.85297	3.80105	0.1203404	39.5103284	31	3	1994–1997	0.42	M-v	4	Marsden	30092	1994 JR ₁
1994 NJ ₁	14.5	970601	276.11633	83.74181	224.20302	1.50063	0.2180396	2.3655448	23	5	1976–1997	0.80	M-v	2	Williams	29663	1994 NJ ₁
1994 NT ₁	13.0	970601	350.60818	46.53386	125.16699	14.08526	0.0959902	2.7082907	29	4	1980–1997	0.87	M-v	2	Williams	29137	1994 NT ₁
1994 PZ	15.0	970601	357.74433	139.49210	149.79354	3.10922	0.1651655	2.1349610	32	5	1991–1997	0.61	M-v	2	Williams	29920	1994 PZ
1994 PJ ₁₀	14.0	970601	184.59915	92.63560	285.90759	1.47078	0.0925439	2.7270888	22	3	1990–1997	0.68	M-v	4	Marsden	29945	1994 PJ ₁₀
1994 PR ₂₀	14.5	970601	210.50842	285.96544	143.61393	3.63259	0.1221843	2.2924249	24	3	1994–1997	0.63	M-v	3	Williams	29945	1994 PR ₂₀
1994 PB ₃₀	14.5	970601	300.81598	61.27252	222.37233	4.74223	0.1331707	2.4525292	21	3	1991–1997	0.99	M-v	4	Marsden	30092	1994 PB ₃₀
1994 PQ ₃₁	15.0	970601	204.02410	231.99701	202.05872	3.46050	0.1112574	2.2878327	28	6	1977–1997	0.75	M-v	1	Williams	24901	1994 PQ ₃₁
1994 QC	18.5	970601	355.04472	94.17532	162.60225	13.87119	0.1179084	1.3243679	200	2	1994–1997	0.59	M-v	2	Marsden	30092	1994 QC
1994 RC ₁	12.5	970601	158.06738	192.72790	192.63471	9.38667	0.2234480	3.1512581	22	6	1977–1997	0.91	M-v	1	Williams	29663	1994 RC ₁

1994 SB	13.0	970601	167.49692	201.02335	297.83747	6.26574	0.1013733	2.2009880	71	3	1994–1997	0.73	M-v	3	Williams	27327	1994 SB
1994 TB	7.0	970601	329.41137	98.09738	317.29277	12.10992	0.3199401	39.7786501	64	4	1994–1997	0.83	M-v	3	Marsden	28318	1994 TB
1994 TU ₁	14.5	970601	308.62725	357.58400	331.60574	6.87091	0.1440879	2.3531202	46	4	1990–1997	0.79	M-v	1	Williams	29663	1994 TU ₁
1994 TZ ₁₄	14.5	970601	234.49620	201.13131	182.80321	5.05030	0.2058432	2.5513364	24	2	1994–1997	0.58	M-v	4	Williams	30080	1994 TZ ₁₄
1994 UB ₁	13.5	970601	316.64143	267.68692	37.55683	8.54519	0.1755193	2.4599776	26	2	1994–1997	0.68	M-v	4	Williams	30081	1994 UB ₁
1994 UA ₂	12.5	970601	207.16512	147.98946	219.94384	10.17945	0.1227994	2.9835849	24	4	1982–1997	0.73	M-v	4	Williams	24764	1994 UA ₂
1994 VZ	14.5	970601	313.20981	113.43540	222.08294	5.88240	0.1514551	2.3197288	26	4	1993–1997	0.55	M-v	1	Williams	27456	1994 VZ
1994 VJ ₁	13.5	970601	254.48447	268.30595	82.65871	6.53566	0.0842536	2.7616486	20	3	1994–1997	0.74	M-v	5	Williams	30081	1994 VJ ₁
1994 WP ₃	14.5	970601	287.34808	261.09754	96.10090	9.06165	0.2577245	2.3657163	26	2	1994–1997	0.55	M-v	4	Williams	30081	1994 WP ₃
1994 XK	14.0	970601	307.47212	295.61673	57.01615	5.39729	0.2082296	2.4458785	17	4	1982–1997	0.51	M-v	2	Williams	24576	1994 XK
1994 XQ	14.5	970601	312.09531	165.71103	187.83134	5.23925	0.2149701	2.2948545	23	7	1959–1997	0.61	M-v	2	Williams	27122	1994 XQ
1994 YF	12.5	970601	212.30352	265.10630	120.21017	2.38819	0.2142923	3.1014924	25	6	1972–1997	0.74	M-v	1	Williams	30081	1994 YF
1994 YO	15.5	970601	323.72437	272.41886	107.50306	3.88483	0.1652559	2.2496870	18	4	1992–1997	0.49	M-v	2	Williams	27327	1994 YO
1994 YR	14.5	970601	292.90803	243.12056	102.34868	4.29478	0.2906210	2.6205714	30	2	1994–1997	0.63	M-v	4	Marsden	30093	1994 YR
1994 YE ₁	12.5	970601	262.75302	114.57391	280.29873	11.42316	0.1046266	2.5449500	25	5	1972–1997	0.65	M-v	2	Williams	25228	1994 YE ₁
1995 AL	13.5	970601	41.92442	192.86528	100.87453	7.04569	0.0966280	2.4625781	30	3	1993–1996	0.52	M-v	4	Williams	27568	1995 AL
1995 AN	14.0	970601	297.47026	123.37700	343.97483	18.11498	0.0773090	1.9678317	24	5	1954–1995	0.62	M-v	2	Williams	29663	1995 AN
1995 BJ ₁	12.0	970601	147.90049	24.33260	97.35910	2.30189	0.1380766	3.2162436	63	4	1990–1997	0.59	M-v	1	Williams	29946	1995 BJ ₁
1995 DO ₁	14.5	970601	185.18200	174.82904	33.32099	4.86166	0.1874517	2.4261586	15	3	1980–1995	0.45	M-v	4	Williams	28617	1995 DO ₁
1995 DQ ₁	14.0	970601	344.93067	278.52367	111.72454	5.65161	0.1057592	2.4142367	16	3	1991–1995	0.80	M-v	4	Williams	25072	1995 DQ ₁
1995 DD ₂	12.0	970601	94.39156	81.37654	163.66544	10.25881	0.0875264	2.7600325	34	6	1977–1997	0.76	M-v	1	Williams	27731	1995 DD ₂
1995 DO ₂	13.5	970601	203.42144	15.51323	118.64864	3.65315	0.1333439	2.7571719	31	2	1992–1995	0.38	M-v	4	Williams	25229	1995 DO ₂
1995 DP ₂	15.5	970601	196.55449	143.14522	20.69013	4.70485	0.1701896	2.5962341	22	2	1991–1995	0.63	M-v	4	Williams	25073	1995 DP ₂
1995 DQ ₂	15.5	970601	205.85138	120.42478	2.24360	33.91511	0.2530334	2.7276590	9	1	97 days	0.53	M-v	4	Williams	25433	1995 DQ ₂
1995 GO	9.0	970601	335.92625	290.10524	6.11870	17.63641	0.6219618	18.0980992	113	3	1995–1997	0.59	M-v	2	Marsden	29946	1995 GO
1995 SS ₅₃	15.5	970601	156.76807	29.79672	30.17900	3.70786	0.2216014	2.2934309	32	4	1988–1997	0.74	M-v	2	Williams	30082	1995 SS ₅₃
1995 UU ₆	17.0	970601	172.97247	29.73731	335.80496	5.86192	0.1652476	2.4435244	26	1	151 days	0.28	M-v	4	Williams	26906	1995 UU ₆
1995 UW ₈	12.5	970601	96.95656	12.79791	66.30951	13.75528	0.0974388	2.7467243	37	5	1986–1997	0.91	M-v	2	Williams	28860	1995 UW ₈
1995 VU ₁	12.5	970601	36.87408	90.65199	71.07748	13.74261	0.0946183	2.6977157	20	5	1964–1997	0.92	M-v	2	Williams	29946	1995 VU ₁
1995 WU	13.5	970601	108.15094	219.16051	270.17640	5.69565	0.2206266	2.3744712	29	5	1989–1997	0.58	M-v	2	Williams	28890	1995 WU
1995 XT	12.5	970601	79.98662	348.45548	115.25945	2.29180	0.1355513	3.0800868	26	5	1989–1997	0.76	M-v	1	Williams	29946	1995 XT
1995 XN ₁	12.5	970601	328.40024	174.70019	72.74151	14.10123	0.1324844	2.5937954	30	4	1978–1997	0.69	M-v	3	Williams	29946	1995 XN ₁
1995 XR ₁	13.0	970601	252.29885	250.40007	92.52662	7.06337	0.2185978	2.2057983	19	4	1972–1997	0.63	M-v	2	Williams	29628	1995 XR ₁
1995 XS ₁	14.0	970601	174.77361	173.18302	233.99610	1.42229	0.2102777	2.4040976	18	5	1976–1995	0.71	M-v	2	Williams	26761	1995 XS ₁
1995 XP ₄	14.5	970601	61.62612	334.19597	197.78572	4.77058	0.0894241	2.2698661	32	5	1978–1997	0.59	M-v	1	Williams	30093	1995 XP ₄
1995 YM	12.0	970601	8.20728	104.01004	102.63799	17.28391	0.1805397	3.1248866	30	3	1980–1997	0.49	M-v	3	Williams	30093	1995 YM
1995 YM ₂	15.0	970601	143.91052	25.57072	71.18368	4.09833	0.1315414	2.3779691	16	3	1991–1997	0.53	M-v	5	Williams	30093	1995 YM ₂
1995 YV ₂₂	14.0	970601	78.42736	344.00245	150.14965	1.59374	0.1278424	3.0974691	20	2	1995–1997	0.73	M-v	4	Williams	30083	1995 YV ₂₂
1996 AB ₁	13.0	970601	123.78462	339.54909	115.10190	3.26478	0.0406507	2.8607696	24	5	1980–1997	0.80	M-v	1	Williams	30093	1996 AB ₁
1996 AL ₂	12.5	970601	354.65757	134.14891	106.21814	14.18545	0.1291477	2.6447204	36	3	1991–1997	0.46	M-v	3	Williams	30093	1996 AL ₂
1996 BJ	14.5	970601	114.43603	223.26481	291.60723	3.46166	0.1763147	2.3515960	44	4	1979–1997	0.29	M-v	1	Marsden	28318	1996 BJ
1996 BX ₁	13.5	970601	151.53401	358.29528	113.48492	11.20687	0.1537218	2.3602452	22	5	1989–1997	0.50	M-v	1	Williams	29947	1996 BX ₁
1996 BQ ₂	11.5	970601	145.08456	291.09662	139.07277	15.15716	0.0680973	3.4073218	19	4	1991–1997	0.73	M-v	1	Williams	28890	1996 BQ ₂
1996 BQ ₃	13.0	970601	148.33618	31.65546	44.99125	3.34649	0.1568548	2.9072359	20	5	1989–1997	0.62	M-v	1	Williams	26928	1996 BQ ₃
1996 BV ₃	13.5	970601	343.55448	217.14619	83.56156	6.26250	0.1408316	2.3431786	28	6	1964–1997	0.73	M-v	2	Williams	29947	1996 BV ₃
1996 CZ	15.0	970601	129.05993	275.93584	208.03118	5.50082	0.2650456	2.6040199	56	4	1990–1997	0.48	M-v	2	Marsden	27328	1996 CZ
1996 CH ₁	13.5	970601	185.69907	326.27798	120.74356	4.96860	0.0697834	2.3679460	31	5	1978–1997	0.84	M-v	2	Williams	27328	1996 CH ₁
1996 CK ₂	12.0	970601	66.30403	154.55516	13.67731	11.90303	0.0850181	3.0339165	18	5	1988–1997	0.80	M-v	2	Williams	29629	1996 CK ₂
1996 CX ₇	14.0	970601	288.31848	227.11636	126.98757	6.37040	0.2021942	2.2219397	26	5	1991–1997	0.84	M-v	2	Williams	30093	1996 CX ₇
1996 CS ₈	12.5	970601	15.02968	100.95911	129.19048	6.12549	0.0929456	3.1250133	28	5	1988–1997	0.76	M-v	1	Williams	30093	1996 CS ₈
1996 DE	13.5	970601	301.81734	187.87192	145.63756	16.19939	0.1392595	2.6097659	22	5	1988–1997	0.72	M-v	2	Williams	29947	1996 DE
1996 DP	14.0	970601	53.91894	96.03163	134.02585	1.34005	0.1121452	2.5832699	29	5	1992–1997	0.75	M-v	1	Williams	29947	1996 DP

1996 DF ₁	14.0	970601	2.01365	316.39089	322.20061	3.15792	0.1962552	2.5547907	32	6	1985–1997	0.84	M-v	2	Williams	27938	1996 DF ₁
1996 DJ ₁	13.5	970601	161.14202	163.00526	281.05634	1.05626	0.0701389	2.9064947	22	6	1988–1997	0.78	M-v	1	Williams	29666	1996 DJ ₁
1996 ER ₂	15.0	970601	162.28585	213.15957	258.22664	2.70948	0.0510389	2.4356519	39	2	1996–1997	0.51	M-v	4	Williams	30083	1996 ER ₂
1996 EU ₂	11.0	970601	97.34768	171.89380	263.99652	15.48156	0.1068149	3.4149062	23	3	1977–1997	0.51	M-v	3	Williams	29666	1996 EU ₂
1996 FR ₁	14.0	970601	313.62925	101.54655	216.97877	9.41190	0.1137673	3.0141718	30	2	1996–1997	0.39	M-v	4	Williams	30084	1996 FR ₁
1996 FO ₅	14.0	970601	139.29019	118.00117	20.73487	8.89550	0.1404474	2.3675239	68	4	1978–1997	0.45	M-v	2	Williams	30094	1996 FO ₅
1996 FU ₁₃	11.5	970601	300.02178	290.28209	57.14980	12.95215	0.2303123	3.9594187	19	5	1982–1997	0.53	M-v	1	Williams	28319	1996 FU ₁₃
1996 GS	13.5	970601	264.38523	183.04380	190.67190	9.31799	0.1763270	2.7641181	35	3	1992–1997	0.55	M-v	4	Williams	30094	1996 GS
1996 GE ₁₉	10.0	970601	339.40689	63.44677	213.21789	30.80377	0.0720281	5.2677703	45	2	1996–1997	0.61	M-v	3	Williams	30084	1996 GE ₁₉
1996 GJ ₁₉	14.5	970601	329.40079	152.29155	181.29381	1.83072	0.0733954	2.9079335	21	3	1995–1997	0.90	M-v	4	Williams	28862	1996 GJ ₁₉
1996 HR	14.0	970601	238.51338	345.62162	81.84417	6.02425	0.0959945	2.7346172	44	5	1962–1997	0.59	M-v	1	Williams	28087	1996 HR
1996 HT ₁₇	13.5	970601	221.90702	294.12914	143.92596	2.66089	0.0401045	2.8749241	30	5	1984–1997	0.72	M-v	1	Williams	28087	1996 HT ₁₇
1996 JW ₂	15.0	970601	108.67102	68.42953	164.29987	8.02931	0.0769760	2.4717301	17	4	1984–1996	0.75	M-v	4	Williams	28077	1996 JW ₂
1996 KA ₃	12.5	970601	323.20004	136.31985	133.79076	10.90846	0.1485580	3.1780421	33	2	1995–1997	0.44	M-v	3	Williams	30084	1996 KA ₃
1996 SK	17.0	970601	36.58245	283.44420	198.29832	1.96043	0.7965517	2.4276173	87	2	1996–1997	0.62	M-v	4	Marsden	30094	1996 SK
1996 TR ₁₀	12.5	970601	107.92370	144.10420	160.55300	10.61560	0.2543831	2.3965424	13	4	1981–1996	0.83	M-v	3	Williams	29116	1996 TR ₁₀
1996 XW ₁	19.0	970601	39.72782	264.42220	248.11059	30.59395	0.4542532	1.7255044	89	1	222 days	0.73	M-v	3	Marsden	30094	1996 XW ₁
1997 AR ₁₆	12.5	970601	3.05241	191.92775	359.27089	18.31720	0.1565559	2.9850422	89	1	175 days	0.66	M-v	3	Williams	30094	1997 AR ₁₆
1997 BQ	18.0	970601	28.19862	147.22923	50.36702	10.99759	0.4785042	1.7459609	137	1	164 days	0.58	M-v	4	Williams	29309	1997 BQ
1997 BN ₁	14.5	970601	326.88057	251.72219	319.26251	5.68614	0.0780118	2.1896668	14	3	1984–1997	0.43	M-v	4	Williams	29636	1997 BN ₁
1997 EA ₃	13.5	970601	108.37910	336.84689	111.56983	5.47725	0.0179462	2.2694509	17	3	1981–1997	0.95	M-v	3	Williams	29948	1997 EA ₃
1997 EW ₄₅	14.0	970601	12.28532	100.82340	98.08372	7.06910	0.1845464	2.5390788	39	2	1995–1997	0.26	M-v	3	Williams	30094	1997 EW ₄₅
1997 FO	12.0	970601	317.19163	195.73536	41.95371	10.17977	0.0414540	3.0497218	26	4	1976–1997	0.60	M-v	2	Williams	30094	1997 FO
1997 FZ ₁	15.0	970601	22.13173	181.32771	8.75084	0.31864	0.1426897	2.3902420	30	5	1982–1997	0.59	M-v	2	Williams	30094	1997 FZ ₁
1997 FQ ₄	13.0	970601	315.94365	7.97966	251.65222	3.95233	0.1015062	3.1560247	22	2	1995–1997	0.57	M-v	6	Marsden	29647	1997 FQ ₄
1997 GH ₃	17.0	970601	18.62573	333.22744	187.21547	2.98130	0.5729249	2.4861433	230	1	84 days	0.52	M-v	4	Williams	30094	1997 GH ₃
1997 GL ₂₃	13.5	970601	119.78815	40.42204	53.18804	5.08235	0.1468654	3.0947129	31	3	1978–1997	0.53	M-v	3	Williams	30094	1997 GL ₂₃
1997 GO ₂₇	18.5	970601	275.08447	139.24450	188.93247	17.89525	0.0710144	1.4213437	65	1	91 days	0.53	M-v	4	Marsden	30094	1997 GO ₂₇
1997 GC ₃₂	18.5	970601	347.21215	149.82185	177.50625	5.89915	0.6556744	2.0326190	80	1	44 days	0.51	M-v	5	Williams	30094	1997 GC ₃₂
1997 HO ₂	13.5	970601	248.67089	175.05748	180.85539	1.76500	0.0969972	2.9254452	30	3	1982–1997	0.54	M-v	4	Williams	30094	1997 HO ₂
1997 HC ₁₆	14.0	970601	288.58630	120.44998	196.72492	2.38042	0.1794431	2.4401144	25	3	1993–1997	0.67	M-v	4	Williams	30086	1997 HC ₁₆
1997 JE ₁₀	12.5	970601	81.75499	74.79917	75.44428	11.51567	0.0555558	2.9857864	35	4	1979–1997	0.74	M-v	1	Williams	30086	1997 JE ₁₀
1997 JJ ₁₄	17.0	970601	326.70207	129.88551	151.30437	2.34077	0.1912041	2.3924359	29	3	1994–1997	0.49	M-v	4	Williams	30087	1997 JJ ₁₄
1997 JJ ₁₈	13.5	970601	289.55296	240.91102	87.50503	9.87667	0.1467465	2.7510471	26	3	1979–1997	0.81	M-v	4	Williams	30087	1997 JJ ₁₈
1997 KH	14.5	970601	298.81586	121.46061	194.96375	2.02939	0.0889929	2.6240661	26	2	1992–1997	0.32	M-v	5	Marsden	30087	1997 KH
1997 KR ₃	12.5	970601	225.21281	280.51467	109.93924	7.25186	0.2171611	3.1186724	24	4	1984–1997	0.70	M-v	2	Williams	30088	1997 KR ₃
1997 LN	14.0	970601	231.56926	209.19216	164.86668	6.14111	0.0683910	2.7911648	17	3	1979–1997	0.43	M-v	5	Williams	30088	1997 LN
2821 P-L	12.5	970601	307.01691	158.93473	116.70405	2.58247	0.1508718	3.1247427	22	4	1954–1997	0.62	M-v	1	Williams	29668	2821 P-L
3066 P-L	13.5	970601	52.11424	171.60535	210.84017	12.63245	0.0302805	2.7174567	10	4	1954–1994	0.53	M-v	3	Williams	22490	3066 P-L
4084 P-L	15.0	970601	345.92286	70.57334	220.47644	2.15794	0.2106461	2.5873285	19	3	1960–1997	0.68	M-v	4	Williams	24114	4084 P-L
4593 P-L	13.5	970601	223.72496	211.18135	166.71403	2.23409	0.0803051	2.8412714	21	4	1960–1997	0.66	M-v	1	Williams	30094	4593 P-L
4665 P-L	14.0	970601	236.82481	328.93338	40.58145	4.33172	0.1311457	2.4314662	18	6	1960–1997	0.64	M-v	2	Williams	26423	4665 P-L
4896 P-L	14.0	970601	251.38416	237.95040	114.44475	2.59613	0.1817837	3.1031850	22	4	1960–1997	0.73	M-v	2	Williams	30095	4896 P-L
6186 P-L	16.0	970601	315.57956	96.74106	201.05671	5.66257	0.1925505	2.2656538	19	3	1960–1997	0.81	M-v	4	Williams	30095	6186 P-L
6583 P-L	14.5	970601	150.23290	274.43084	173.31715	4.14410	0.0992894	2.2831273	18	4	1953–1997	0.60	M-v	3	Williams	30095	6583 P-L
9525 P-L	15.0	970601	234.04353	336.85526	57.27412	3.50048	0.1289166	2.2690949	17	3	1960–1996	0.49	M-v	4	Williams	26754	9525 P-L
1181 T-1	13.0	970601	57.63791	229.51191	325.67390	3.60084	0.0889577	2.9451950	49	8	1971–1997	0.92	M-v	1	Williams	28892	1181 T-1
3036 T-1	13.5	970601	316.31121	105.52386	196.54462	11.68462	0.2209767	2.6321192	23	5	1971–1997	0.78	M-v	2	Williams	24409	3036 T-1
4192 T-1	14.0	970601	314.39190	277.98753	57.84481	3.62776	0.1269188	2.3502214	31	8	1951–1997	0.79	M-v	1	Williams	29668	4192 T-1
4195 T-1	14.0	970601	101.12111	138.87704	95.82384	3.18564	0.0179339	2.8610105	24	3	1971–1995	0.79	M-v	4	Williams	25442	4195 T-1
4260 T-1	13.5	970601	201.75167	324.04809	108.63022	2.94942	0.0546887	2.9155198	22	5	1971–1993	0.97	M-v	2	Williams	29668	4260 T-1
1105 T-2	14.0	970601	97.39900	304.09912	184.26791	2.68348	0.1389635	2.6194719	32	4	1973–1997	0.99	M-v	2	Williams	30095	1105 T-2

1157 T-2	15.5	970601	29.92716	355.55969	203.70875	2.59623	0.1290668	2.3343499	39	3	1973–1997	0.76	M-v	3	Williams	30095	1157 T-2
1296 T-2	15.0	970601	45.40418	52.33410	162.08007	2.03023	0.1416280	2.5734976	29	4	1973–1997	0.82	M-v	3	Williams	26754	1296 T-2
2080 T-2	13.5	970601	337.76786	282.47976	217.17143	4.42903	0.1092265	2.4223798	32	3	1973–1996	0.88	M-v	3	Williams	28313	2080 T-2
2084 T-2	15.0	970601	90.79128	317.32105	187.63304	21.50904	0.0790040	1.9611345	31	3	1973–1997	0.93	M-v	4	Williams	30095	2084 T-2
2086 T-2	13.0	970601	25.70592	174.07657	350.74117	5.96135	0.2466054	3.0380442	24	7	1965–1997	0.99	M-v	2	Williams	22087	2086 T-2
2108 T-2	15.0	970601	286.33176	110.79797	200.22649	3.03089	0.1038152	2.3270832	31	4	1973–1997	0.84	M-v	2	Williams	29949	2108 T-2
3042 T-2	15.5	970601	302.05360	322.42614	145.73990	4.18952	0.0457568	2.2271900	22	3	1973–1996	0.83	M-v	5	Williams	29669	3042 T-2
3181 T-2	14.5	970601	281.90492	298.17101	95.41166	3.36846	0.0314863	2.8752194	30	6	1971–1996	0.94	M-v	1	Williams	27457	3181 T-2
4196 T-2	13.0	970601	32.40197	232.28247	76.51220	3.20196	0.0705801	2.8386587	21	2	1973–1995	0.73	M-v	5	Williams	25437	4196 T-2
1078 T-3	14.5	970601	118.48412	266.91120	237.66318	14.04581	0.0708938	2.6092599	12	3	1954–1977	1.00	M-v	4	Williams	22702	1078 T-3
2268 T-3	13.5	970601	228.20090	164.31674	224.93708	10.03559	0.1309136	3.0666986	26	3	1977–1997	0.91	M-v	4	Williams	25085	2268 T-3
3268 T-3	16.5	970601	75.92680	318.05162	205.65021	5.87807	0.0428815	2.3076745	26	3	1977–1997	0.67	M-v	4	Williams	30089	3268 T-3
3340 T-3	15.0	970601	2.38282	68.21396	167.78054	2.66829	0.1356060	2.6168143	19	2	1977–1997	0.95	M-v	5	Williams	30089	3340 T-3
4046 T-3	14.5	970601	333.62572	167.11560	112.19861	5.13687	0.1527109	2.2802613	37	3	1977–1997	0.99	M-v	2	Williams	30095	4046 T-3
4118 T-3	13.5	970601	252.71672	173.13583	178.56388	11.74996	0.1085107	3.0718354	35	3	1977–1993	0.77	M-v	4	Williams	28620	4118 T-3
4190 T-3	13.0	970601	51.65291	21.54351	60.25302	8.84431	0.1989696	2.7673749	25	4	1977–1997	0.82	M-v	2	Williams	29669	4190 T-3
4310 T-3	15.0	970601	26.86509	167.70570	65.79475	5.67347	0.0944630	2.2859288	20	2	1977–1991	0.94	M-v	6	Williams	20347	4310 T-3
5078 T-3	12.5	970601	297.39210	219.91502	67.72346	10.75823	0.0454875	3.1053995	21	2	1977–1997	0.97	M-v	5	Williams	30089	5078 T-3

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1997 NC ₁		$a, e, i = 0.87, 0.21, 17$				Elements <i>MPC</i> 30246		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 07 11	13	16.15	−19 30.0	0.138	1.040	96.1	76.3	16.5
1997 07 21	13	28.27	−33 25.7	0.179	1.046	94.5	75.6	17.0
1997 07 31	13	40.71	−42 11.3	0.222	1.045	91.6	76.2	17.5
1997 08 10	13	54.22	−48 14.4	0.264	1.039	88.1	77.2	17.9
1997 08 20	14	08.71	−52 47.6	0.301	1.027	84.5	78.6	18.2
1997 08 30	14	23.85	−56 23.9	0.332	1.010	80.7	80.4	18.4
1997 09 09	14	39.24	−59 20.8	0.355	0.988	76.7	82.8	18.6
1997 09 19	14	53.58	−61 44.9	0.368	0.961	72.6	86.0	18.8
1997 09 29	15	04.97	−63 32.7	0.372	0.929	68.1	90.2	18.9
1997 10 09	15	10.71	−64 32.7	0.364	0.894	62.9	95.8	19.0
1997 10 19	15	07.35	−64 14.2	0.348	0.856	56.7	103.5	19.2
1997 10 29	14	54.37	−61 35.0	0.325	0.817	48.7	113.9	19.5
1997 11 08	14	37.91	−55 06.8	0.303	0.778	38.7	127.2	20.3

1997 MW ₁		$a, e, i = 0.94, 0.35, 13$				Elements <i>MPC</i> 30245		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 07 11	17	40.74	+00 40.0	0.284	1.263	146.5	26.4	19.0
1997 07 21	17	14.16	+02 35.2	0.324	1.259	132.9	36.2	19.5
1997 07 31	16	59.02	+03 14.6	0.371	1.249	121.2	44.0	20.0
1997 08 10	16	53.02	+03 07.1	0.421	1.232	111.5	50.0	20.4
1997 08 20	16	53.78	+02 34.2	0.468	1.208	103.2	54.6	20.8
1997 08 30	16	59.40	+01 49.0	0.511	1.179	96.0	58.4	21.0
1997 09 09	17	08.64	+00 59.0	0.546	1.142	89.6	61.8	21.2
1997 09 19	17	20.53	+00 09.3	0.572	1.100	83.7	65.2	21.3
1997 09 29	17	34.25	−00 38.5	0.586	1.051	78.1	68.8	21.4
1997 10 09	17	49.14	−01 24.2	0.587	0.997	72.7	73.1	21.4
1997 10 19	18	04.24	−02 11.0	0.573	0.937	67.2	78.5	21.4
1997 10 29	18	18.22	−03 07.5	0.543	0.874	61.3	85.7	21.4

1997 MD₁₀

Date TT		$a, e, i = 25.42, 0.94, 59$				Elements <i>MPC</i> 30246		
		α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 07 11	18	27.78	−21 59.0	1.202	2.206	167.6	5.7	18.1
1997 07 21	18	05.86	−16 28.3	1.167	2.120	152.3	12.9	18.2
1997 07 31	17	46.91	−10 49.0	1.171	2.037	137.3	19.8	18.4
1997 08 10	17	32.39	−05 30.4	1.207	1.957	123.4	25.6	18.5
1997 08 20	17	22.80	−00 48.8	1.263	1.881	111.1	30.1	18.7
1997 08 30	17	17.93	+03 13.0	1.332	1.810	100.4	33.3	18.8
1997 09 09	17	17.34	+06 40.5	1.404	1.745	91.2	35.2	18.9
1997 09 19	17	20.50	+09 42.7	1.474	1.687	83.5	36.3	19.0
1997 09 29	17	26.92	+12 28.5	1.536	1.637	77.2	36.6	19.0
1997 10 09	17	36.31	+15 05.9	1.588	1.595	72.1	36.6	19.0
1997 10 19	17	48.45	+17 41.8	1.628	1.564	68.3	36.3	19.0
1997 10 29	18	03.31	+20 21.4	1.657	1.544	65.8	35.9	19.0
1997 11 08	18	20.98	+23 09.1	1.674	1.535	64.5	35.6	19.0
1997 11 18	18	41.69	+26 07.9	1.682	1.538	64.3	35.4	19.0
1997 11 28	19	05.79	+29 18.8	1.684	1.552	65.1	35.2	19.0
1997 12 08	19	33.76	+32 40.4	1.686	1.578	66.6	34.9	19.1
1997 12 18	20	06.05	+36 07.7	1.692	1.615	68.4	34.5	19.1
1997 12 28	20	43.04	+39 31.0	1.709	1.661	70.3	33.9	19.2
1998 01 07	21	24.75	+42 37.3	1.743	1.715	71.9	33.0	19.3
1998 01 17	22	10.49	+45 11.8	1.797	1.777	72.9	31.9	19.4
1998 01 27	22	58.82	+47 02.4	1.876	1.845	72.9	30.7	19.5
1998 02 06	23	47.63	+48 04.4	1.978	1.918	72.0	29.3	19.7
1998 02 16	00	34.76	+48 21.0	2.103	1.996	70.1	27.7	19.8
1998 02 26	01	18.65	+48 00.9	2.249	2.078	67.3	26.1	20.0
1998 03 08	01	58.57	+47 15.4	2.410	2.162	63.7	24.3	20.2
1998 03 18	02	34.42	+46 14.1	2.584	2.249	59.6	22.4	20.4

1996 RR₂₀

Date TT		$a, e, i = 39.44, 0.15, 5$				Elements <i>MPC</i> 30279		
		α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 07 11	23	03.60	−06 02.0	42.767	43.345	124.1	1.1	23.5
1997 07 21	23	03.20	−06 04.7	42.639	43.348	133.7	1.0	23.5

1997 JULY 20

M.P.C. 30295

1997 07 31	23 02.69	-06 08.1	42.531	43.351	143.4	0.8	23.5
1997 08 10	23 02.09	-06 12.0	42.446	43.353	153.2	0.6	23.4
1997 08 20	23 01.43	-06 16.4	42.388	43.356	163.0	0.4	23.4
1997 08 30	23 00.72	-06 21.0	42.357	43.359	172.8	0.2	23.4
1997 09 09	22 59.99	-06 25.7	42.355	43.361	177.3	0.1	23.3
1997 09 19	22 59.27	-06 30.4	42.383	43.364	167.4	0.3	23.4
1997 09 29	22 58.58	-06 34.8	42.440	43.367	157.4	0.5	23.4
1997 10 09	22 57.95	-06 38.9	42.525	43.369	147.4	0.7	23.5
1997 10 19	22 57.41	-06 42.5	42.635	43.372	137.3	0.9	23.5
1997 10 29	22 56.96	-06 45.4	42.766	43.375	127.3	1.0	23.5
1997 11 08	22 56.64	-06 47.6	42.916	43.377	117.1	1.2	23.5
1997 11 18	22 56.46	-06 48.9	43.080	43.380	107.0	1.2	23.5
1997 11 28	22 56.41	-06 49.4	43.253	43.383	96.9	1.3	23.5
1997 12 08	22 56.52	-06 48.9	43.429	43.385	86.8	1.3	23.6
1997 12 18	22 56.77	-06 47.5	43.604	43.388	76.7	1.3	23.6
1997 12 28	22 57.16	-06 45.3	43.772	43.391	66.6	1.2	23.6

1993 HO ₁		$a, e, i = 1.99, 0.42, 6$				Elements <i>MPC</i> 28887	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 07 11	23 28.27	-10 15.1	2.030	2.686	119.9	19.2	21.2
1997 07 21	23 27.22	-10 36.7	1.898	2.665	129.7	17.1	20.9
1997 07 31	23 23.44	-11 13.6	1.781	2.642	140.2	14.2	20.7
1997 08 10	23 16.81	-12 04.1	1.683	2.618	151.4	10.7	20.4
1997 08 20	23 07.55	-13 04.1	1.608	2.592	162.8	6.6	20.1
1997 08 30	22 56.27	-14 07.4	1.560	2.565	172.5	2.9	19.8
1997 09 09	22 43.98	-15 05.9	1.541	2.535	168.4	4.6	19.9
1997 09 19	22 31.99	-15 52.2	1.550	2.505	156.8	9.1	20.1
1997 09 29	22 21.55	-16 21.3	1.585	2.472	144.9	13.5	20.2
1997 10 09	22 13.67	-16 31.0	1.641	2.438	133.4	17.3	20.4
1997 10 19	22 08.91	-16 21.8	1.715	2.403	122.6	20.4	20.6
1997 10 29	22 07.39	-15 55.4	1.800	2.366	112.5	22.8	20.7
1997 11 08	22 09.00	-15 13.7	1.892	2.327	103.1	24.5	20.9
1997 11 18	22 13.44	-14 18.7	1.987	2.286	94.4	25.5	21.0

1996 TO ₆₆		$a, e, i = 43.44, 0.11, 27$				Elements <i>MPC</i> 30279	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 07 11	23 58.51	+02 10.0	45.406	45.735	108.2	1.2	20.8
1997 07 21	23 58.26	+02 09.9	45.254	45.737	117.8	1.1	20.7
1997 07 31	23 57.90	+02 08.9	45.115	45.740	127.5	1.0	20.7
1997 08 10	23 57.43	+02 07.2	44.994	45.742	137.2	0.9	20.7
1997 08 20	23 56.87	+02 04.8	44.894	45.744	146.9	0.7	20.7
1997 08 30	23 56.24	+02 01.9	44.818	45.747	156.7	0.5	20.7
1997 09 09	23 55.55	+01 58.5	44.769	45.749	166.4	0.3	20.6
1997 09 19	23 54.84	+01 54.9	44.750	45.752	175.9	0.1	20.6
1997 09 29	23 54.11	+01 51.1	44.759	45.754	173.1	0.2	20.6
1997 10 09	23 53.41	+01 47.3	44.799	45.756	163.3	0.4	20.6
1997 10 19	23 52.75	+01 43.8	44.867	45.759	153.3	0.6	20.7
1997 10 29	23 52.15	+01 40.5	44.962	45.761	143.2	0.7	20.7
1997 11 08	23 51.65	+01 37.8	45.081	45.763	133.0	0.9	20.7
1997 11 18	23 51.25	+01 35.7	45.221	45.766	122.9	1.0	20.7
1997 11 28	23 50.97	+01 34.3	45.378	45.768	112.7	1.1	20.8
1997 12 08	23 50.83	+01 33.7	45.546	45.770	102.5	1.2	20.8
1997 12 18	23 50.82	+01 34.0	45.721	45.773	92.4	1.2	20.8

1997 12 28	23 50.95	+01 35.2	45.897	45.775	82.2	1.2	20.8
1998 01 07	23 51.22	+01 37.3	46.069	45.777	72.1	1.2	20.8
1998 01 17	23 51.62	+01 40.3	46.232	45.779	62.1	1.1	20.8

1996 TR ₆₆		$a, e, i = 39.34, 0.09, 13$				Elements <i>MPC</i> 30244	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 07 11	00 12.40	+06 14.8	35.707	35.956	103.4	1.6	23.7
1997 07 21	00 12.21	+06 15.5	35.548	35.956	113.0	1.5	23.7
1997 07 31	00 11.86	+06 15.1	35.400	35.956	122.5	1.4	23.7
1997 08 10	00 11.37	+06 13.7	35.268	35.956	132.2	1.2	23.7
1997 08 20	00 10.75	+06 11.3	35.155	35.956	141.9	1.0	23.7
1997 08 30	00 10.03	+06 08.1	35.065	35.956	151.6	0.8	23.6
1997 09 09	00 09.22	+06 04.1	35.001	35.957	161.3	0.5	23.6
1997 09 19	00 08.37	+05 59.5	34.965	35.957	170.6	0.3	23.6
1997 09 29	00 07.49	+05 54.6	34.959	35.957	175.0	0.1	23.5
1997 10 09	00 06.63	+05 49.4	34.982	35.957	167.2	0.4	23.6
1997 10 19	00 05.81	+05 44.3	35.035	35.957	157.5	0.6	23.6
1997 10 29	00 05.07	+05 39.5	35.115	35.957	147.5	0.9	23.6
1997 11 08	00 04.43	+05 35.1	35.222	35.957	137.4	1.1	23.7
1997 11 18	00 03.93	+05 31.3	35.350	35.957	127.2	1.3	23.7
1997 11 28	00 03.57	+05 28.4	35.497	35.957	117.1	1.4	23.7
1997 12 08	00 03.38	+05 26.5	35.658	35.957	106.9	1.5	23.7
1997 12 18	00 03.37	+05 25.6	35.828	35.957	96.8	1.6	23.8
1997 12 28	00 03.53	+05 25.8	36.001	35.957	86.7	1.6	23.8
1998 01 07	00 03.87	+05 27.3	36.173	35.957	76.6	1.5	23.8
1998 01 17	00 04.38	+05 29.8	36.337	35.958	66.6	1.4	23.8
1998 01 27	00 05.04	+05 33.5	36.490	35.958	56.6	1.3	23.8

1994 TF ₂		$a, e, i = 0.99, 0.28, 24$				Elements <i>MPC</i> 28617	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 07 11	00 56.17	+26 09.3	0.799	1.245	85.7	54.5	21.0
1997 07 21	01 16.29	+26 03.0	0.734	1.260	90.7	53.7	20.8
1997 07 31	01 35.67	+25 16.4	0.662	1.270	96.2	52.6	20.6
1997 08 10	01 53.99	+23 35.2	0.585	1.275	102.4	51.0	20.3
1997 08 20	02 10.87	+20 37.1	0.508	1.274	109.4	48.5	19.9
1997 08 30	02 25.75	+15 49.0	0.433	1.269	117.4	44.9	19.4
1997 09 09	02 37.70	+08 21.9	0.364	1.258	126.4	40.1	18.9
1997 09 19	02 45.65	-02 38.0	0.308	1.242	135.1	34.9	18.4
1997 09 29	02 48.13	-17 20.7	0.273	1.221	138.9	32.7	18.0
1997 10 09	02 43.33	-33 43.8	0.264	1.195	132.9	37.7	18.0
1997 10 19	02 30.07	-48 08.3	0.280	1.164	120.7	47.4	18.3
1997 10 29	02 08.24	-58 32.8	0.309	1.128	108.0	56.8	18.8
1997 11 08	01 40.14	-65 11.9	0.344	1.088	97.1	64.6	19.2
1997 11 18	01 09.77	-69 17.6	0.375	1.044	87.9	71.1	19.5
1997 11 28	00 38.6	-71 57.4	0.399	0.997	79.8	77.0	19.7
1997 12 08	00 03.6	-73 56.9	0.412	0.947	72.5	83.0	19.9
1997 12 18	23 13.7	-75 32.3	0.413	0.896	65.6	89.6	20.0

1996 TP ₆₆		$a, e, i = 39.67, 0.34, 6$				Elements <i>MPC</i> 30280	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 07 11	01 26.69	+14 41.8	26.537	26.438	83.3	2.2	20.5
1997 07 21	01 27.00	+14 46.0	26.369	26.437	92.7	2.2	20.5
1997 07 31	01 27.08	+14 48.8	26.202	26.435	102.2	2.2	20.5
1997 08 10	01 26.92	+14 50.1	26.041	26.434	111.8	2.0	20.4

1997 08 20	01 26.53	+14 50.1	25.891	26.432	121.4	1.9	20.4
1997 08 30	01 25.94	+14 48.7	25.756	26.431	131.1	1.6	20.4
1997 09 09	01 25.16	+14 45.9	25.640	26.429	140.9	1.4	20.3
1997 09 19	01 24.22	+14 41.9	25.547	26.428	150.7	1.1	20.3
1997 09 29	01 23.17	+14 36.9	25.480	26.426	160.5	0.7	20.3
1997 10 09	01 22.04	+14 31.0	25.441	26.425	169.8	0.4	20.2
1997 10 19	01 20.88	+14 24.5	25.432	26.424	174.3	0.2	20.2
1997 10 29	01 19.74	+14 17.7	25.453	26.422	167.0	0.5	20.2
1997 11 08	01 18.67	+14 10.9	25.505	26.421	157.2	0.8	20.3
1997 11 18	01 17.71	+14 04.3	25.584	26.419	147.1	1.2	20.3
1997 11 28	01 16.90	+13 58.3	25.689	26.418	136.9	1.5	20.4
1997 12 08	01 16.28	+13 53.1	25.816	26.417	126.7	1.7	20.4
1997 12 18	01 15.89	+13 48.9	25.962	26.415	116.5	1.9	20.4
1997 12 28	01 15.72	+13 46.0	26.121	26.414	106.3	2.0	20.4
1998 01 07	01 15.81	+13 44.5	26.289	26.413	96.1	2.1	20.5
1998 01 17	01 16.15	+13 44.4	26.460	26.411	86.1	2.1	20.5
1998 01 27	01 16.73	+13 45.9	26.630	26.410	76.1	2.1	20.5
1998 02 06	01 17.54	+13 48.8	26.792	26.409	66.2	2.0	20.5
1998 02 16	01 18.57	+13 53.2	26.942	26.408	56.4	1.8	20.5

1996 TQ₆₆ $a, e, i = 39.60, 0.13, 15$ Elements *MPC* 30280

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 07 11	01 40.58	+14 55.7	34.776	34.615	80.1	1.7	22.1	
1997 07 21	01 40.82	+14 59.1	34.609	34.615	89.5	1.7	22.1	
1997 07 31	01 40.88	+15 01.6	34.442	34.616	99.0	1.7	22.1	
1997 08 10	01 40.75	+15 03.0	34.279	34.616	108.6	1.6	22.1	
1997 08 20	01 40.45	+15 03.3	34.126	34.616	118.2	1.5	22.1	
1997 08 30	01 39.98	+15 02.7	33.986	34.616	128.0	1.3	22.0	
1997 09 09	01 39.37	+15 01.1	33.864	34.616	137.7	1.1	22.0	
1997 09 19	01 38.63	+14 58.5	33.764	34.616	147.6	0.9	22.0	
1997 09 29	01 37.78	+14 55.2	33.689	34.617	157.4	0.6	21.9	
1997 10 09	01 36.87	+14 51.3	33.642	34.617	167.1	0.4	21.9	
1997 10 19	01 35.92	+14 46.9	33.624	34.617	175.1	0.1	21.9	
1997 10 29	01 34.97	+14 42.2	33.637	34.617	170.6	0.3	21.9	
1997 11 08	01 34.06	+14 37.4	33.679	34.617	161.0	0.5	21.9	
1997 11 18	01 33.21	+14 32.9	33.751	34.618	150.9	0.8	22.0	
1997 11 28	01 32.48	+14 28.6	33.849	34.618	140.7	1.0	22.0	
1997 12 08	01 31.88	+14 24.9	33.971	34.618	130.4	1.2	22.0	
1997 12 18	01 31.43	+14 22.0	34.113	34.618	120.2	1.4	22.1	
1997 12 28	01 31.16	+14 19.9	34.270	34.618	110.0	1.5	22.1	
1998 01 07	01 31.08	+14 18.9	34.438	34.619	99.8	1.6	22.1	
1998 01 17	01 31.19	+14 18.9	34.610	34.619	89.7	1.6	22.1	
1998 01 27	01 31.50	+14 20.0	34.783	34.619	79.6	1.6	22.1	
1998 02 06	01 31.98	+14 22.2	34.950	34.619	69.6	1.5	22.1	
1998 02 16	01 32.64	+14 25.5	35.107	34.619	59.7	1.4	22.1	

1996 TL₆₆ $a, e, i = 84.13, 0.58, 24$ Elements *MPC* 30279

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 07 11	02 11.54	+14 56.0	35.457	35.174	73.1	1.6	20.7	
1997 07 21	02 12.00	+14 57.3	35.291	35.172	82.5	1.6	20.7	
1997 07 31	02 12.28	+14 57.6	35.121	35.171	92.0	1.7	20.7	
1997 08 10	02 12.38	+14 57.1	34.953	35.169	101.5	1.6	20.7	
1997 08 20	02 12.30	+14 55.6	34.790	35.167	111.1	1.5	20.6	

1997 08 30	02 12.05	+14 53.2	34.637	35.165	120.9	1.4	20.6
1997 09 09	02 11.63	+14 49.8	34.499	35.164	130.7	1.2	20.6
1997 09 19	02 11.07	+14 45.7	34.381	35.162	140.5	1.0	20.6
1997 09 29	02 10.39	+14 40.9	34.285	35.160	150.5	0.8	20.5
1997 10 09	02 09.61	+14 35.4	34.215	35.158	160.5	0.5	20.5
1997 10 19	02 08.77	+14 29.6	34.174	35.157	170.6	0.3	20.5
1997 10 29	02 07.89	+14 23.5	34.162	35.155	178.3	0.0	20.4
1997 11 08	02 07.03	+14 17.3	34.181	35.153	168.8	0.3	20.5
1997 11 18	02 06.20	+14 11.3	34.230	35.152	158.5	0.6	20.5
1997 11 28	02 05.45	+14 05.6	34.308	35.150	148.2	0.8	20.5
1997 12 08	02 04.81	+14 00.4	34.411	35.149	137.9	1.1	20.6
1997 12 18	02 04.31	+13 55.9	34.538	35.147	127.6	1.3	20.6
1997 12 28	02 03.97	+13 52.2	34.683	35.145	117.3	1.4	20.6
1998 01 07	02 03.80	+13 49.4	34.842	35.144	107.1	1.5	20.6
1998 01 17	02 03.82	+13 47.6	35.010	35.142	96.9	1.6	20.7
1998 01 27	02 04.03	+13 46.8	35.182	35.141	86.8	1.6	20.7
1998 02 06	02 04.43	+13 47.1	35.353	35.139	76.7	1.6	20.7
1998 02 16	02 05.01	+13 48.3	35.516	35.137	66.7	1.5	20.7

1996 TS₆₆ $a, e, i = 44.20, 0.14, 7$ Elements *MPC* 30280

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 07 11	02 14.32	+20 42.0	39.214	38.888	70.6	1.4	22.1	
1997 07 21	02 14.71	+20 45.6	39.050	38.886	80.0	1.5	22.1	
1997 07 31	02 14.93	+20 48.5	38.881	38.884	89.4	1.5	22.1	
1997 08 10	02 14.98	+20 50.5	38.712	38.881	98.9	1.5	22.1	
1997 08 20	02 14.87	+20 51.6	38.547	38.879	108.4	1.4	22.1	
1997 08 30	02 14.59	+20 51.9	38.391	38.877	118.1	1.3	22.1	
1997 09 09	02 14.15	+20 51.2	38.249	38.874	127.8	1.2	22.0	
1997 09 19	02 13.58	+20 49.7	38.126	38.872	137.5	1.0	22.0	
1997 09 29	02 12.90	+20 47.3	38.023	38.870	147.2	0.8	22.0	
1997 10 09	02 12.12	+20 44.2	37.946	38.867	156.9	0.6	22.0	
1997 10 19	02 11.28	+20 40.4	37.897	38.865	166.2	0.4	21.9	
1997 10 29	02 10.41	+20 36.1	37.877	38.863	172.8	0.2	21.9	
1997 11 08	02 09.54	+20 31.5	37.887	38.860	169.0	0.3	21.9	
1997 11 18	02 08.71	+20 26.6	37.928	38.858	160.0	0.5	21.9	
1997 11 28	02 07.95	+20 21.8	37.997	38.856	150.2	0.7	22.0	
1997 12 08	02 07.29	+20 17.1	38.093	38.854	140.1	0.9	22.0	
1997 12 18	02 06.76	+20 12.9	38.212	38.851	130.0	1.1	22.0	
1997 12 28	02 06.37	+20 09.1	38.351	38.849	119.8	1.3	22.0	
1998 01 07	02 06.15	+20 06.0	38.505	38.847	109.6	1.4	22.1	
1998 01 17	02 06.11	+20 03.8	38.670	38.844	99.5	1.4	22.1	
1998 01 27	02 06.24	+20 02.4	38.840	38.842	89.4	1.5	22.1	
1998 02 06	02 06.55	+20 01.9	39.009	38.840	79.4	1.4	22.1	
1998 02 16	02 07.03	+20 02.4	39.173	38.837	69.5	1.4	22.1	
1998 02 26	02 07.67	+20 03.8	39.326	38.835	59.6	1.3	22.1	

C/1997 J1 (Mueller)Elements *MPC* 30243

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 07 21	09 17.84	+46 45.3	3.285	2.464	30.5	12.1	14.0		
1997 07 31	09 20.64	+44 41.6	3.360	2.505	27.7	10.8	14.1		
1997 08 10	09 23.56	+42 53.9	3.409	2.551	27.3	10.5	14.2		
1997 08 20	09 26.31	+41 20.6	3.431	2.600	29.6	11.1	14.3		
1997 08 30	09 28.62	+40 00.5	3.426	2.652	34.2	12.4	14.4		

1997 JULY 20

1997 09 09	09 30.21	+38 53.0	3.395	2.708	40.4	14.0	14.5
1997 09 19	09 30.78	+37 57.8	3.339	2.766	47.8	15.6	14.5
1997 09 29	09 30.00	+37 14.5	3.260	2.827	56.1	17.1	14.6
1997 10 09	09 27.46	+36 43.4	3.162	2.890	65.3	18.3	14.6
1997 10 19	09 22.68	+36 23.8	3.049	2.955	75.2	19.0	14.6
1997 10 29	09 15.11	+36 15.0	2.927	3.022	85.9	19.1	14.6
1997 11 08	09 04.13	+36 14.6	2.802	3.091	97.5	18.5	14.6
1997 11 18	08 49.21	+36 18.1	2.685	3.162	109.9	17.1	14.6
1997 11 28	08 30.02	+36 18.6	2.585	3.233	123.3	14.8	14.7
1997 12 08	08 06.76	+36 06.4	2.513	3.306	137.4	11.6	14.7
1997 12 18	07 40.50	+35 31.7	2.480	3.380	151.9	7.9	14.8
1997 12 28	07 13.07	+34 28.5	2.495	3.455	165.0	4.2	14.9
1998 01 07	06 46.74	+32 58.2	2.562	3.530	168.1	3.3	15.0
1998 01 17	06 23.45	+31 09.6	2.680	3.606	157.1	6.1	15.2
1998 01 27	06 04.27	+29 14.2	2.844	3.683	143.7	9.1	15.4
1998 02 06	05 49.51	+27 22.2	3.045	3.761	130.5	11.5	15.7
1998 02 16	05 38.85	+25 39.9	3.274	3.839	118.1	13.1	15.9
1998 02 26	05 31.75	+24 09.9	3.521	3.917	106.3	14.0	16.2
1998 03 08	05 27.61	+22 52.5	3.780	3.996	95.3	14.3	16.4
1998 03 18	05 25.86	+21 46.2	4.041	4.074	84.9	14.1	16.6
1998 03 28	05 26.00	+20 49.2	4.300	4.154	74.9	13.4	16.9
1998 04 07	05 27.64	+19 59.5	4.550	4.233	65.4	12.4	17.1
1998 04 17	05 30.43	+19 15.4	4.788	4.312	56.3	11.2	17.2
1998 04 27	05 34.11	+18 35.2	5.009	4.392	47.5	9.7	17.4
1998 05 07	05 38.45	+17 57.6	5.212	4.471	38.9	8.1	17.6
1998 05 17	05 43.25	+17 21.3	5.392	4.551	30.6	6.5	17.7

124P/Mrkos

Date	TT	α_{2000}	δ_{2000}	Δ	r	Elements <i>MPC</i> 25932			
						ϵ	ϕ	m_1	m_2
1997 07 21		20 45.70	-64 27.2	1.896	2.716	135.4	15.2	18.1	19.9
1997 07 31		20 22.80	-63 42.0	1.968	2.776	134.5	15.1	18.3	20.0
1997 08 10		20 03.75	-62 17.0	2.060	2.835	131.4	15.6	18.5	20.2
1997 08 20		19 50.14	-60 23.6	2.172	2.893	126.7	16.3	18.6	20.4
1997 08 30		19 42.04	-58 13.5	2.301	2.951	121.0	17.1	18.8	20.6
1997 09 09		19 38.83	-55 56.2	2.446	3.007	114.5	17.7	19.0	20.8
1997 09 19		19 39.62	-53 38.3	2.604	3.063	107.7	18.2	19.2	21.0
1997 09 29		19 43.52	-51 23.5	2.773	3.118	100.7	18.4	19.4	21.1
1997 10 09		19 49.82	-49 13.5	2.948	3.172	93.6	18.3	19.6	21.3
1997 10 19		19 57.94	-47 09.3	3.128	3.225	86.6	18.0	19.8	21.5
1997 10 29		20 07.42	-45 10.4	3.309	3.277	79.5	17.3	20.0	21.6
1997 11 08		20 17.91	-43 16.6	3.489	3.328	72.5	16.5	20.1	21.7
1997 11 18		20 29.14	-41 27.2	3.666	3.379	65.6	15.4	20.3	21.8
1997 11 28		20 40.87	-39 41.7	3.836	3.428	58.7	14.2	20.4	21.9
1997 12 08		20 52.94	-37 59.5	3.998	3.477	51.9	12.9	20.6	22.0
1997 12 18		21 05.21	-36 20.3	4.149	3.524	45.1	11.4	20.7	22.0
1997 12 28		21 17.55	-34 43.9	4.287	3.571	38.6	9.9	20.8	22.1
1998 01 07		21 29.88	-33 10.0	4.411	3.617	32.2	8.3	20.9	22.1

131P/Mueller 2

Date	TT	α_{2000}	δ_{2000}	Δ	r	Elements <i>MPC</i> 30244			
						ϵ	ϕ	m_1	m_2
1997 07 21		01 09.86	+12 54.9	2.203	2.540	97.3	23.4	16.8	21.8
1997 07 31		01 18.73	+13 44.0	2.068	2.521	104.5	22.9	16.6	21.7
1997 08 10		01 25.96	+14 20.4	1.938	2.504	112.2	22.0	16.4	21.5

M.P.C. 30297

1997 08 20	01 31.26	+14 42.1	1.817	2.487	120.4	20.5	16.3	21.3
1997 08 30	01 34.37	+14 47.1	1.706	2.473	129.3	18.4	16.1	21.1
1997 09 09	01 35.08	+14 33.7	1.610	2.459	138.9	15.6	15.9	20.8
1997 09 19	01 33.42	+14 00.9	1.531	2.448	149.1	12.2	15.8	20.6
1997 09 29	01 29.65	+13 09.6	1.472	2.438	160.0	8.1	15.7	20.3
1997 10 09	01 24.34	+12 02.9	1.437	2.429	171.3	3.6	15.6	20.1
1997 10 19	01 18.43	+10 47.1	1.428	2.422	175.8	1.7	15.6	19.9
1997 10 29	01 12.92	+09 30.4	1.445	2.417	164.7	6.2	15.6	20.2
1997 11 08	01 08.75	+08 21.2	1.487	2.414	153.4	10.6	15.7	20.4
1997 11 18	01 06.66	+07 26.5	1.552	2.412	142.5	14.4	15.8	20.7
1997 11 28	01 07.00	+06 50.1	1.636	2.412	132.2	17.6	15.9	20.9
1997 12 08	01 09.87	+06 33.5	1.736	2.414	122.6	20.1	16.0	21.1
1997 12 18	01 15.15	+06 35.9	1.848	2.418	113.7	21.9	16.2	21.3
1997 12 28	01 22.63	+06 55.2	1.970	2.423	105.4	23.0	16.3	21.5
1998 01 07	01 32.03	+07 28.8	2.097	2.430	97.5	23.6	16.5	21.6
1998 01 17	01 43.10	+08 13.8	2.229	2.439	90.2	23.8	16.6	21.8
1998 01 27	01 55.57	+09 07.3	2.362	2.449	83.2	23.5	16.8	21.9
1998 02 06	02 09.26	+10 06.9	2.495	2.461	76.6	22.9	16.9	22.0
1998 02 16	02 23.97	+11 10.0	2.627	2.475	70.3	22.1	17.0	22.1
1998 02 26	02 39.53	+12 14.6	2.757	2.490	64.2	21.0	17.2	22.2
1998 03 08	02 55.85	+13 18.7	2.882	2.506	58.3	19.7	17.3	22.3
1998 03 18	03 12.77	+14 20.5	3.002	2.524	52.5	18.2	17.4	22.3
1998 03 28	03 30.21	+15 18.6	3.117	2.543	47.0	16.7	17.5	22.4
1998 04 07	03 48.08	+16 11.7	3.225	2.564	41.5	15.0	17.6	22.4
1998 04 17	04 06.27	+16 58.7	3.326	2.585	36.2	13.3	17.7	22.4
1998 04 27	04 24.71	+17 38.7	3.419	2.608	31.0	11.5	17.8	22.5

C/1997 N1 (Tabur)

Date	TT	α_{2000}	δ_{2000}	Δ	r	Elements <i>MPC</i> 30244			
						ϵ	ϕ	m_1	m_2
1997 07 21		07 04.44	-16 53.8	1.162	0.757	39.9	59.6	9.1	
1997 07 26		07 39.25	-12 37.0	1.189	0.661	33.7	58.6	8.6	
1997 07 31		08 11.55	-07 51.7	1.232	0.568	27.2	54.6	8.0	
1997 08 05		08 41.39	-02 40.5	1.287	0.485	20.2	46.3	7.4	
1997 08 10		09 09.23	+02 56.0	1.345	0.423	12.9	32.4	6.9	

1994 VK₈

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
$a, e, i = 42.76, 0.03, 1$ Elements <i>MPC</i> 29138								
1997 07 31		04 17.81	+21 10.5	44.004	43.530	61.6	1.2	23.1
1997 08 10		04 18.32	+21 11.7	43.848	43.530	71.0	1.3	23.1
1997 08 20		04 18.69	+21 12.6	43.683	43.529	80.6	1.3	23.1
1997 08 30		04 18.90	+21 13.1	43.514	43.528	90.2	1.3	23.1
1997 09 09		04 18.94	+21 13.3	43.344	43.528	99.8	1.3	23.1
1997 09 19		04 18.83	+21 13.0	43.180	43.527	109.6	1.2	23.0
1997 09 29		04 18.56	+21 12.4	43.025	43.527	119.5	1.1	23.0
1997 10 09		04 18.15	+21 11.4	42.885	43.526	129.4	1.0	23.0
1997 10 19		04 17.60	+21 10.1	42.764	43.525	139.4	0.9	23.0
1997 10 29		04 16.94	+21 08.5	42.665	43.525	149.6	0.7	23.0
1997 11 08		04 16.19	+21 06.7	42.593	43.524	159.7	0.5	22.9
1997 11 18		04 15.38	+21 04.7	42.550	43.524	170.0	0.2	22.9
1997 11 28		04 14.54	+21 02.7	42.536	43.523	179.6	0.0	22.8
1997 12 08		04 13.70	+21 00.6	42.554	43.522	169.4	0.2	22.9
1997 12 18		04 12.90	+20 58.6	42.602	43.522	159.0	0.5	22.9
1997 12 28		04 12.16	+20 56.8	42.678	43.521	148.6	0.7	23.0

1998 01 07	04 11.51	+20 55.2	42.782	43.521	138.3	0.9	23.0
1998 01 17	04 10.98	+20 53.9	42.908	43.520	128.0	1.0	23.0
1998 01 27	04 10.59	+20 53.0	43.053	43.519	117.7	1.1	23.0
1998 02 06	04 10.35	+20 52.5	43.212	43.519	107.5	1.2	23.0
1998 02 16	04 10.28	+20 52.4	43.380	43.518	97.4	1.3	23.1
1998 02 26	04 10.37	+20 52.7	43.553	43.517	87.3	1.3	23.1
1998 03 08	04 10.62	+20 53.5	43.724	43.517	77.3	1.3	23.1
1998 03 18	04 11.04	+20 54.6	43.888	43.516	67.5	1.2	23.1

1992 AB							
$a, e, i = 3.29, 0.55, 41$							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 07 31	04 50.62	-03 02.9	2.966	2.621	60.6	19.7	19.4
1997 08 10	05 04.35	-02 30.5	2.806	2.560	65.6	21.1	19.3
1997 08 20	05 17.74	-02 03.7	2.640	2.498	70.8	22.5	19.2
1997 08 30	05 30.65	-01 41.2	2.470	2.436	76.2	23.7	19.0
1997 09 09	05 42.93	-01 21.8	2.295	2.373	81.9	24.8	18.8
1997 09 19	05 54.38	-01 03.0	2.118	2.310	87.9	25.8	18.6
1997 09 29	06 04.76	-00 42.0	1.939	2.247	94.2	26.4	18.4
1997 10 09	06 13.75	-00 14.4	1.762	2.185	101.0	26.7	18.1
1997 10 19	06 20.97	+00 25.7	1.586	2.122	108.3	26.5	17.8
1997 10 29	06 25.93	+01 26.5	1.416	2.060	116.4	25.6	17.5
1997 11 08	06 27.98	+02 59.4	1.254	1.999	125.5	23.8	17.1
1997 11 18	06 26.38	+05 19.6	1.104	1.939	135.7	20.9	16.7
1997 11 28	06 20.25	+08 44.8	0.971	1.880	147.5	16.4	16.2
1997 12 08	06 08.78	+13 31.3	0.863	1.823	161.1	10.1	15.6
1997 12 18	05 51.70	+19 41.5	0.785	1.768	175.8	2.3	15.0
1997 12 28	05 29.81	+26 50.0	0.744	1.716	166.5	7.7	15.1
1998 01 07	05 05.56	+34 03.7	0.742	1.667	150.1	17.1	15.4
1998 01 17	04 42.69	+40 32.1	0.771	1.623	134.9	25.4	15.7
1998 01 27	04 24.75	+45 54.7	0.824	1.583	121.8	31.9	15.9
1998 02 06	04 14.18	+50 19.2	0.891	1.548	111.0	36.5	16.2
1998 02 16	04 11.97	+54 03.2	0.964	1.519	102.2	39.5	16.4
1998 02 26	04 18.44	+57 20.4	1.037	1.496	95.1	41.2	16.6
1998 03 08	04 33.99	+60 18.0	1.106	1.481	89.6	42.1	16.7
1998 03 18	04 59.17	+62 55.6	1.170	1.472	85.3	42.3	16.8
1998 03 28	05 34.81	+65 05.2	1.228	1.471	82.0	42.2	16.9
1998 04 07	06 21.20	+66 32.7	1.280	1.478	79.7	41.8	17.0
1998 04 17	07 16.38	+66 59.2	1.328	1.492	78.2	41.2	17.1
1998 04 27	08 15.44	+66 08.7	1.372	1.513	77.3	40.5	17.2
1998 05 07	09 12.16	+63 56.8	1.417	1.541	76.9	39.6	17.3
1998 05 17	10 02.17	+60 32.1	1.463	1.575	76.7	38.7	17.4
1998 05 27	10 44.42	+56 10.3	1.515	1.614	76.5	37.6	17.5
1998 06 06	11 19.84	+51 09.2	1.574	1.658	76.2	36.5	17.6
1998 06 16	11 49.90	+45 44.7	1.644	1.705	75.7	35.2	17.7
1998 06 26	12 15.99	+40 10.1	1.725	1.757	74.7	33.9	17.8
1998 07 06	12 39.23	+34 36.2	1.819	1.811	73.3	32.5	18.0
1998 07 16	13 00.39	+29 11.7	1.925	1.868	71.3	31.0	18.1
1998 07 26	13 20.07	+24 02.0	2.043	1.926	68.9	29.5	18.3
1998 08 05	13 38.69	+19 11.2	2.171	1.986	65.9	27.8	18.4
1998 08 15	13 56.55	+14 41.1	2.307	2.047	62.5	26.0	18.6
1998 08 25	14 13.87	+10 32.3	2.449	2.109	58.7	24.2	18.7
1998 09 04	14 30.81	+06 44.7	2.595	2.171	54.5	22.2	18.8
1998 09 14	14 47.47	+03 17.6	2.743	2.234	50.0	20.2	18.9

1998 09 24	15 03.95	+00 09.7	2.889	2.297	45.3	18.1	19.0
1998 10 04	15 20.30	-02 40.1	3.032	2.360	40.3	15.9	19.1
1998 10 14	15 36.54	-05 12.9	3.170	2.422	35.1	13.7	19.2

C/1997 A1 (NEAT)							
Elements MPC 29284							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 07 31	06 54.83	+43 34.1	3.975	3.181	33.7	10.2	19.0
1997 08 10	06 57.52	+44 56.1	3.877	3.194	41.8	12.2	19.0
1997 08 20	06 59.14	+46 31.9	3.758	3.211	50.5	14.1	18.9
1997 08 30	06 59.17	+48 23.8	3.621	3.230	59.6	15.6	18.9
1997 09 09	06 56.88	+50 34.3	3.472	3.252	69.1	16.8	18.8
1997 09 19	06 51.22	+53 04.5	3.315	3.276	79.0	17.5	18.8
1997 09 29	06 40.67	+55 53.8	3.160	3.303	89.3	17.7	18.7
1997 10 09	06 22.91	+58 56.8	3.013	3.332	99.9	17.2	18.6
1997 10 19	05 54.88	+61 58.7	2.885	3.364	110.4	16.1	18.6
1997 10 29	05 13.48	+64 31.3	2.787	3.398	120.3	14.6	18.5
1997 11 08	04 18.77	+65 52.4	2.728	3.435	128.6	13.0	18.5
1997 11 18	03 18.49	+65 25.5	2.716	3.473	133.7	11.9	18.6
1997 11 28	02 24.89	+63 10.4	2.755	3.514	134.1	11.6	18.7
1997 12 08	01 44.87	+59 43.9	2.843	3.556	129.9	12.3	18.8
1997 12 18	01 18.01	+55 51.1	2.976	3.600	122.4	13.3	18.9
1997 12 28	01 01.09	+52 04.2	3.145	3.646	113.2	14.4	19.1
1998 01 07	00 51.11	+48 40.8	3.340	3.694	103.4	15.0	19.3
1998 01 17	00 45.87	+45 48.1	3.551	3.743	93.5	15.2	19.5
1998 01 27	00 43.89	+43 26.9	3.770	3.793	83.8	15.0	19.7
1998 02 06	00 44.17	+41 35.1	3.990	3.845	74.5	14.3	19.9
1998 02 16	00 46.00	+40 09.3	4.202	3.898	65.5	13.3	20.0

1993 PC							
$a, e, i = 1.15, 0.47, 4$							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 08 10	02 54.04	+19 11.6	1.018	1.446	90.7	44.5	20.5
1997 08 20	03 20.46	+21 40.9	0.892	1.391	93.7	46.5	20.2
1997 08 30	03 51.03	+24 16.8	0.771	1.332	95.9	49.0	19.9
1997 09 09	04 28.07	+26 57.3	0.658	1.267	96.8	52.1	19.5
1997 09 19	05 15.35	+29 30.8	0.555	1.196	95.9	56.6	19.2
1997 09 29	06 18.19	+31 19.7	0.469	1.121	92.0	63.3	18.8
1997 10 09	07 40.17	+30 53.8	0.407	1.040	84.3	72.8	18.7
1997 10 19	09 14.42	+26 18.3	0.382	0.956	72.9	84.6	18.8
1997 10 29	10 42.49	+17 49.8	0.402	0.870	60.7	95.6	19.1

1995 YY ₃							
$a, e, i = 39.30, 0.22, 0$							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ
1997 08 10	04 28.69	+21 32.6	31.086	30.730	68.6	1.8	23.6
1997 08 20	04 29.32	+21 33.9	30.924	30.731	78.1	1.8	23.6
1997 08 30	04 29.75	+21 34.8	30.757	30.732	87.6	1.9	23.6
1997 09 09	04 29.94	+21 35.2	30.589	30.732	97.3	1.9	23.6
1997 09 19	04 29.91	+21 35.0	30.424	30.733	107.0	1.8	23.6
1997 09 29	04 29.65	+21 34.4	30.268	30.734	116.9	1.7	23.6
1997 10 09	04 29.17	+21 33.4	30.126	30.735	126.8	1.5	23.5
1997 10 19	04 28.50	+21 31.9	30.001	30.735	136.9	1.3	23.5
1997 10 29	04 27.66	+21 30.0	29.898	30.736	147.0	1.0	23.5
1997 11 08	04 26.69	+21 27.8	29.821	30.737	157.3	0.7	23.4
1997 11 18	04 25.61	+21 25.4	29.771	30.738	167.6	0.4	23.4
1997 11 28	04 24.48	+21 22.9	29.752	30.738	178.0	0.1	23.3

1997 JULY 20

1997 12 08	04 23.34	+21 20.3	29.764	30.739	171.6	0.3	23.4
1997 12 18	04 22.24	+21 17.8	29.807	30.740	161.2	0.6	23.4
1997 12 28	04 21.22	+21 15.5	29.879	30.741	150.8	0.9	23.5
1998 01 07	04 20.33	+21 13.4	29.978	30.742	140.4	1.2	23.5
1998 01 17	04 19.60	+21 11.8	30.101	30.742	130.0	1.4	23.5
1998 01 27	04 19.07	+21 10.6	30.243	30.743	119.7	1.6	23.5
1998 02 06	04 18.75	+21 09.9	30.401	30.744	109.5	1.7	23.6
1998 02 16	04 18.67	+21 09.8	30.569	30.745	99.3	1.8	23.6
1998 02 26	04 18.81	+21 10.3	30.742	30.746	89.3	1.8	23.6
1998 03 08	04 19.20	+21 11.3	30.914	30.746	79.4	1.8	23.6
1998 03 18	04 19.81	+21 12.9	31.081	30.747	69.5	1.7	23.6
1998 03 28	04 20.63	+21 14.9	31.238	30.748	59.8	1.6	23.6

1992 QN

 $a, e, i = 1.19, 0.36, 10$ Elements *MPC* 28615

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 08 20		13 27.10	-20 31.9	0.862	0.963	61.3	67.1	19.0
1997 08 30		14 22.28	-25 19.4	0.875	1.023	65.3	63.7	19.0
1997 09 09		15 18.35	-28 37.0	0.910	1.084	68.7	59.9	19.1
1997 09 19		16 12.96	-30 22.1	0.965	1.144	71.0	56.1	19.2
1997 09 29		17 04.08	-30 46.4	1.037	1.201	72.2	52.6	19.4
1997 10 09		17 50.65	-30 08.7	1.122	1.256	72.3	49.3	19.6
1997 10 19		18 32.49	-28 47.6	1.218	1.307	71.6	46.3	19.8
1997 10 29		19 09.99	-26 57.8	1.321	1.355	70.0	43.6	19.9
1997 11 08		19 43.84	-24 49.5	1.429	1.399	67.8	41.0	20.1
1997 11 18		20 14.69	-22 29.4	1.540	1.439	65.2	38.6	20.3
1997 11 28		20 43.15	-20 01.6	1.652	1.475	62.1	36.2	20.4

74P/Smirnova-Chernykh

Elements *MPC* 25513

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 08 20		01 28.14	+01 35.5	4.022	4.686	125.8	10.1	18.1	22.5
1997 08 30		01 26.25	+01 14.0	3.903	4.680	135.8	8.6	18.0	22.4
1997 09 09		01 23.08	+00 46.7	3.804	4.675	146.2	6.9	17.9	22.3
1997 09 19		01 18.80	+00 15.3	3.729	4.668	156.7	4.9	17.9	22.1
1997 09 29		01 13.66	-00 18.0	3.681	4.662	166.8	2.8	17.9	22.0
1997 10 09		01 08.03	-00 50.5	3.663	4.656	172.5	1.6	17.8	21.9
1997 10 19		01 02.30	-01 19.7	3.676	4.649	166.1	3.0	17.8	22.0
1997 10 29		00 56.92	-01 43.2	3.718	4.642	155.8	5.0	17.9	22.1
1997 11 08		00 52.26	-01 58.9	3.789	4.635	145.0	7.0	17.9	22.2
1997 11 18		00 48.65	-02 05.7	3.884	4.628	134.3	8.8	17.9	22.4
1997 11 28		00 46.30	-02 03.0	3.999	4.621	123.8	10.2	18.0	22.5

1995 WY₂ $a, e, i = 45.64, 0.05, 2$ Elements *MPC* 29319

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 08 20		05 23.05	+23 12.9	48.084	47.674	65.5	1.1	24.0
1997 08 30		05 23.47	+23 13.4	47.924	47.674	75.1	1.2	24.0
1997 09 09		05 23.74	+23 13.6	47.756	47.674	84.7	1.2	24.0
1997 09 19		05 23.86	+23 13.8	47.586	47.674	94.4	1.2	24.0
1997 09 29		05 23.82	+23 13.8	47.417	47.674	104.2	1.2	23.9
1997 10 09		05 23.64	+23 13.7	47.257	47.673	114.1	1.1	23.9
1997 10 19		05 23.31	+23 13.5	47.108	47.673	124.1	1.0	23.9
1997 10 29		05 22.85	+23 13.2	46.976	47.673	134.2	0.9	23.9
1997 11 08		05 22.28	+23 12.7	46.865	47.673	144.3	0.7	23.9
1997 11 18		05 21.61	+23 12.2	46.779	47.673	154.5	0.5	23.8
1997 11 28		05 20.87	+23 11.5	46.720	47.673	164.8	0.3	23.8

M.P.C. 30299

1997 12 08	05 20.08	+23 10.9	46.691	47.673	175.1	0.1	23.8
1997 12 18	05 19.28	+23 10.1	46.693	47.672	174.5	0.1	23.8
1997 12 28	05 18.50	+23 09.4	46.725	47.672	164.2	0.3	23.8
1998 01 07	05 17.76	+23 08.7	46.788	47.672	153.8	0.5	23.8
1998 01 17	05 17.10	+23 08.1	46.878	47.672	143.5	0.7	23.9
1998 01 27	05 16.53	+23 07.6	46.993	47.672	133.1	0.9	23.9
1998 02 06	05 16.09	+23 07.1	47.129	47.672	122.9	1.0	23.9
1998 02 16	05 15.78	+23 06.9	47.281	47.671	112.7	1.1	23.9
1998 02 26	05 15.62	+23 06.7	47.446	47.671	102.6	1.2	23.9
1998 03 08	05 15.61	+23 06.8	47.616	47.671	92.6	1.2	24.0
1998 03 18	05 15.76	+23 06.9	47.789	47.671	82.6	1.2	24.0
1998 03 28	05 16.07	+23 07.3	47.957	47.671	72.8	1.1	24.0
1998 04 07	05 16.51	+23 07.8	48.117	47.671	63.0	1.1	24.0

52P/Harrington-Abell

Elements *MPC* 27081

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 08 30		23 18.12	-02 09.8	3.153	4.143	167.0	3.1		22.4
1997 09 09		23 10.96	-02 39.7	3.093	4.099	177.3	0.7		22.1
1997 09 19		23 03.57	-03 11.7	3.063	4.055	169.3	2.6		22.3
1997 09 29		22 56.50	-03 43.0	3.064	4.009	157.9	5.4		22.4
1997 10 09		22 50.27	-04 10.5	3.093	3.964	146.4	8.0		22.5

99P/Kowal 1

Elements *MPC* 20775

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 08 30		23 42.34	-05 16.4	6.170	7.140	162.6	2.4	21.3	22.5
1997 09 09		23 38.54	-05 39.7	6.148	7.148	172.9	1.0	21.3	22.4
1997 09 19		23 34.59	-06 02.9	6.156	7.157	174.7	0.7	21.3	22.3
1997 09 29		23 30.72	-06 24.6	6.195	7.165	164.5	2.1	21.3	22.5

C/1997 D1 (Mueller)

Elements *MPC* 30063

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 08 30		08 27.62	+24 59.9	3.067	2.300	34.0	14.2	13.6	
1997 09 09		08 27.02	+23 20.2	2.907	2.279	43.1	17.6	13.4	
1997 09 19		08 24.79	+21 35.0	2.723	2.263	52.8	20.7	13.2	
1997 09 29		08 20.30	+19 40.9	2.520	2.252	63.2	23.4	13.0	
1997 10 09		08 12.69	+17 33.3	2.302	2.248	74.3	25.3	12.8	
1997 10 19		08 00.77	+15 05.5	2.079	2.249	86.5	26.2	12.6	
1997 10 29		07 43.05	+12 08.4	1.861	2.257	100.0	25.7	12.4	
1997 11 08		07 17.73	+08 31.5	1.665	2.270	115.1	23.3	12.2	
1997 11 18		06 43.45	+04 09.1	1.512	2.288	131.3	18.9	12.0	
1997 11 28		06 00.69	-00 45.9	1.427	2.312	146.2	13.7	11.9	
1997 12 08		05 13.39	-05 31.0	1.428	2.342	151.6	11.6	12.0	
1997 12 18		04 28.15	-09 15.8	1.518	2.376	142.6	14.6	12.2	
1997 12 28		03 50.34	-11 39.4	1.681	2.415	128.0	18.7	12.5	
1998 01 07		03 21.77	-12 54.3	1.894	2.458	113.5	21.5	12.8	
1998 01 17		03 01.62	-13 23.6	2.135	2.506	100.3	22.7	13.1	
1998 01 27		02 48.14	-13 26.3	2.389	2.557	88.3	22.6	13.5	
1998 02 06		02 39.69	-13 14.9	2.642	2.611	77.4	21.6	13.8	
1998 02 16		02 34.92	-12 57.2	2.887	2.669	67.5	20.0	14.1	
1998 02 26		02 32.87	-12 37.7	3.117	2.730	58.3	18.0	14.3	
1998 03 08		02 32.82	-12 19.6	3.328	2.793	49.8	15.8	14.6	
1998 03 18		02 34.22	-12 05.0	3.516	2.858	42.2	13.5	14.8	
1998 03 28		02 36.68	-11 55.4	3.679	2.926	35.6	11.5	15.0	
1998 04 07		02 39.89	-11 52.1	3.815	2.995	30.5	9.8	15.2	

OPPOSITION DATA

Planet	Opposition	α_{2000}	δ_{2000}	V	$\dot{\alpha}$	$\dot{\delta}$	ϕ_{MIN}	MPC
1989 RB	97 06 20.0	17 54.71	-62 18.7	16.5	-1.66	- 4.0	19.0/14.1	22081
1989 YB ₆	97 06 20.0	17 54.97	-10 55.2	17.3	-0.84	- 3.7	4.2/20.7	26757
1981 EH ₂₃	97 06 20.0	17 55.07	-23 35.9	17.8	-1.05	+ 0.5	0.1/20.1	24239
1981 DF ₁	97 06 20.1	17 55.00	-37 11.9	18.4	-1.03	+ 2.6	5.0/20.6	26914
1991 VE ₄	97 06 20.1	17 55.30	-15 23.8	16.6	-1.09	- 1.1	3.9/20.2	29299
2175 T-1	97 06 20.2	17 55.67	-13 48.2	18.3	-1.01	0.0	3.8/20.2	24764
1996 EV	97 06 20.3	17 55.91	-04 25.8	18.2	-0.98	- 1.0	7.3/20.4	28890
1990 QK ₄	97 06 20.3	17 56.04	-18 59.9	17.5	-1.07	- 0.2	2.0/20.3	28885
1981 EH ₃	97 06 20.4	17 56.33	-22 19.5	17.7	-1.06	+ 3.5	0.5/20.4	28882
1031 T-2	97 06 20.4	17 56.50	-11 11.7	18.9	-1.02	+ 0.7	5.4/20.2	24236
1991 RX ₂₅	97 06 20.5	17 56.72	-23 10.1	15.9	-1.15	- 3.9	0.1/20.5	26925
1981 TP	97 06 20.6	17 57.18	-24 45.9	17.1	-0.88	- 0.1	0.4/20.6	25536
1993 HR ₁	97 06 20.6	17 57.30	-21 18.0	16.4	-0.99	- 2.0	1.0/20.7	23980
(7757)	97 06 20.7	17 57.55	+06 16.0	14.7	-0.98	+20.4	15.5/12.3	30259
1994 PC ₁₀	97 06 20.7	17 57.96	-24 49.3	17.8	-1.04	- 0.5	0.7/20.8	24914
1990 VK ₄	97 06 20.8	17 58.02	-17 13.0	19.0	-0.98	- 1.0	2.2/20.9	24739
1993 EQ	97 06 20.8	17 58.06	-35 49.1	16.4	-1.23	- 0.8	5.4/20.8	29102
1993 FO ₃₁	97 06 20.8	17 58.12	-28 20.5	18.3	-1.10	- 0.9	2.3/20.8	27915
1980 FH ₃	97 06 20.9	17 58.73	-10 51.2	17.7	-0.81	+ 0.1	4.0/20.9	23235
1994 PM ₂₈	97 06 20.9	17 58.73	-30 37.2	18.5	-1.14	- 1.0	3.5/20.9	26905
(7179)	97 06 21.0	17 58.92	-21 55.7	17.0	-0.88	+ 0.1	0.5/21.0	27899
4845 P-L	97 06 21.0	17 59.03	-07 58.2	18.4	-0.78	- 0.2	4.6/21.0	23245
1994 YN	97 06 21.0	17 59.20	-19 02.7	17.3	-1.06	- 4.1	1.6/21.3	24751
1992 GR	97 06 21.1	17 59.16	-33 34.0	16.6	-1.10	- 3.6	3.5/20.7	27121
1994 PR ₃₉	97 06 21.1	17 59.41	-17 14.1	18.1	-1.11	- 0.5	3.0/21.1	27107
5111 T-3	97 06 21.1	17 59.43	-40 43.0	17.7	-1.22	- 6.1	7.3/19.7	16040
1992 EE ₃₂	97 06 21.1	17 59.60	-16 52.9	18.3	-0.96	+ 0.2	2.4/21.2	26758
1966 CM	97 06 21.3	18 00.48	-04 22.9	17.5	-0.89	- 2.5	6.9/22.1	30286
(6888)	97 06 21.4	18 00.80	-21 22.2	16.7	-0.99	+ 1.1	0.7/21.5	26887
1993 QH ₃	97 06 21.4	18 00.84	-23 38.5	16.9	-0.92	+ 0.2	0.1/21.5	29137
1994 TU ₁	97 06 21.5	18 00.92	-34 51.6	16.9	-1.17	+ 1.6	5.4/21.7	30292
1993 MC	97 06 21.7	18 01.69	-03 14.5	15.1	-0.81	+ 6.4	10.2/20.0	30291
1993 FA ₅	97 06 21.7	18 01.78	-13 24.1	17.2	-1.06	- 0.7	4.1/21.8	30291
1993 JF ₁	97 06 21.7	18 01.83	-26 40.0	17.6	-1.08	- 0.8	1.2/21.7	29944
1981 RQ	97 06 21.7	18 02.18	-43 15.9	17.0	-1.27	+ 1.5	7.8/21.9	26923
1994 LY ₁	97 06 21.9	18 02.63	-14 39.9	18.5	-1.07	- 3.1	3.7/22.3	26744
(6913)	97 06 21.9	18 02.73	-21 46.6	16.1	-1.13	- 2.3	0.7/22.0	26893
1985 RU	97 06 21.9	18 03.01	-46 33.5	16.7	-1.44	+ 4.4	10.7/22.5	22492
1281 T-2	97 06 22.0	18 03.36	-04 57.8	18.4	-0.89	+ 0.7	6.1/22.0	27732
1981 EO ₂₁	97 06 22.1	18 03.73	-25 19.5	18.8	-1.10	+ 0.3	0.7/22.2	29132
1981 EJ ₁₁	97 06 22.2	18 04.00	-26 23.3	16.9	-1.00	+ 2.3	1.5/22.3	26917
1995 BG ₁	97 06 22.3	18 04.18	-24 40.2	17.6	-0.84	- 0.4	0.3/22.3	27327
1986 QR ₁	97 06 22.5	18 05.10	-31 22.4	16.4	-1.08	+ 0.2	3.6/22.5	17819
3100 T-1	97 06 22.5	18 05.13	-13 53.2	17.7	-0.93	+ 0.9	3.2/22.5	22087
(7038)	97 06 22.5	18 05.19	-23 59.0	17.1	-0.83	- 0.2	0.2/22.5	29587
1995 CF	97 06 22.6	18 05.46	-20 12.6	17.5	-0.81	- 1.3	0.9/22.7	24906
1981 EW ₃₄	97 06 22.7	18 05.96	-35 04.7	20.1	-1.16	+ 0.3	4.4/22.7	26921
1993 FZ ₁₈	97 06 22.7	18 05.96	-27 41.4	15.1	-1.04	- 4.9	2.2/22.5	28588

(7048)	97 06 22.9	18 06.85	-26 03.2	17.5	-0.92	- 0.1	0.9/22.9	27435
1981 ER ₄₀	97 06 23.0	18 07.53	-24 56.7	19.5	-1.06	+ 0.3	0.6/23.1	22271
(6853)	97 06 23.1	18 07.48	-33 17.8	17.6	-1.22	- 0.2	4.0/23.0	26729
1987 SR ₁₇	97 06 23.1	18 07.63	-16 13.3	16.6	-1.07	+ 2.1	3.5/23.0	24760
3261 T-3	97 06 23.1	18 07.76	-24 07.0	17.1	-0.88	- 0.6	0.2/23.1	26913
6077 P-L	97 06 23.2	18 07.93	-27 52.7	18.5	-0.89	+ 0.1	1.4/23.2	22966
5148 T-2	97 06 23.2	18 08.30	-30 55.0	16.1	-1.19	+ 2.7	3.6/23.4	29142
4233 T-2	97 06 23.3	18 08.39	-18 19.4	20.0	-0.98	- 0.9	1.9/23.4	27117
(6987)	97 06 23.4	18 08.74	-22 50.5	17.3	-0.93	+ 0.9	0.2/23.4	27099
1993 FF ₂₆	97 06 23.4	18 09.01	-30 23.7	18.0	-1.22	+ 0.3	2.9/23.4	29944
1985 CN	97 06 23.5	18 09.32	-09 34.0	19.2	-0.98	- 1.0	4.7/23.8	25537
(6990)	97 06 23.5	18 09.42	-21 42.6	17.1	-0.82	- 0.7	0.5/23.6	27099
1994 TQ ₁	97 06 23.6	18 09.57	-31 56.5	15.7	-1.08	- 4.8	4.3/23.0	24572
(7805)	97 06 23.7	18 10.31	-20 13.9	16.6	-1.08	- 2.7	1.5/23.9	30271
1995 AO ₄	97 06 23.7	18 10.39	-25 37.0	17.0	-0.97	+ 0.8	0.8/23.8	28617
(6887)	97 06 23.7	18 10.42	-30 00.1	16.4	-1.22	- 2.5	2.9/23.5	26886
(7393)	97 06 23.7	18 10.47	-35 30.4	15.2	-1.26	- 2.7	5.8/23.2	28824
1989 UX ₅	97 06 23.8	18 10.66	-24 48.8	17.8	-0.57	- 0.6	0.3/23.8	27454
1991 LW ₁	97 06 23.8	18 10.68	-22 40.9	16.1	-0.83	- 1.0	0.3/23.9	27120
1987 UE ₁	97 06 23.9	18 10.92	+16 36.1	18.7	-0.98	+ 3.5	15.8/20.6	28613
1991 RA ₅	97 06 23.9	18 11.12	-29 35.0	17.9	-1.18	+ 0.2	2.6/23.9	26758
5170 T-3	97 06 23.9	18 11.27	-07 46.8	16.5	-0.92	- 2.8	6.1/25.0	27732
1993 NA ₂	97 06 24.0	18 11.30	-15 53.9	17.7	-0.94	- 2.4	2.5/24.3	28616
6647 P-L	97 06 24.0	18 11.46	-28 21.0	16.1	-1.09	- 1.7	2.4/23.9	22087
1993 FM ₁₄	97 06 24.2	18 12.17	-31 34.6	16.5	-1.20	- 2.1	3.4/23.9	28616
1978 VW ₉	97 06 24.2	18 12.31	-27 34.0	17.2	-1.02	- 1.5	1.9/24.1	27302
1996 BZ	97 06 24.4	18 12.92	-18 26.4	17.8	-1.02	- 2.6	1.9/24.6	27111
6245 P-L	97 06 24.4	18 13.28	-02 05.2	18.0	-0.88	+ 0.5	8.5/25.0	22701
(7655)	97 06 24.4	18 13.36	-22 13.7	18.0	-1.04	- 1.7	0.4/24.5	29900
3024 P-L	97 06 24.4	18 13.36	-29 15.6	16.7	-1.10	+ 4.3	2.3/25.0	28319
1997 LL ₆	97 06 24.5	18 13.36	-17 23.1	14.2	-0.86	- 3.6	3.6/25.0	30284
1989 GA ₃	97 06 24.5	18 13.51	-21 27.4	17.7	-1.05	+ 0.1	0.8/24.6	27933
1978 SA ₅	97 06 24.5	18 13.65	-22 04.0	17.9	-1.15	- 0.3	0.5/24.6	27118
1996 BB ₂	97 06 24.8	18 14.86	-35 03.7	18.3	-1.19	+ 2.0	4.3/25.0	26928
1996 DV ₁	97 06 24.9	18 15.09	-28 15.0	18.7	-0.98	+ 0.8	1.8/24.9	27316
3025 T-2	97 06 25.0	18 15.45	-21 24.5	18.1	-1.11	- 1.4	0.9/25.1	28608
1994 TA ₃	97 06 25.0	18 15.82	-33 29.1	17.0	-1.23	- 1.3	4.7/24.7	29138
1986 JD	97 06 25.1	18 15.84	-20 21.8	15.5	-0.97	- 7.9	1.6/25.4	30288
1981 EJ ₂₄	97 06 25.1	18 16.21	-35 00.1	18.0	-1.11	- 0.9	5.3/24.8	26919
1994 TF ₁₅	97 06 25.2	18 16.20	-27 17.0	14.6	-1.04	+ 1.1	2.2/25.2	26905
1981 EE ₁	97 06 25.2	18 16.44	-19 32.7	17.6	-1.02	- 1.2	1.5/25.4	22074
1981 ES ₂₆	97 06 25.2	18 16.50	-19 27.2	18.1	-1.00	+ 0.1	1.7/25.3	26920
1985 TU	97 06 25.2	18 16.52	-22 00.9	17.6	-1.00	+ 0.1	0.5/25.3	24759
4526 P-L	97 06 25.2	18 16.60	-27 09.1	16.9	-1.08	- 0.3	1.4/25.2	26761
1996 YL ₃	97 06 25.2	18 16.68	-20 00.6	17.8	-0.82	- 0.4	1.0/25.4	27323
1993 QV ₄	97 06 25.3	18 16.73	-26 11.2	17.9	-0.93	- 0.5	1.0/25.3	29662
(6933)	97 06 25.4	18 17.06	-24 38.9	16.2	-0.98	+ 0.7	0.5/25.4	26897
4310 T-3	97 06 25.4	18 17.38	-28 32.0	17.1	-1.11	- 3.7	2.5/25.1	30294
(6920)	97 06 25.4	18 17.48	-26 06.5	15.9	-1.09	- 3.2	1.1/25.3	26894
1993 TP ₂₆	97 06 25.5	18 17.44	-21 00.7	17.7	-0.84	- 1.2	0.8/25.6	29662
1994 UZ	97 06 25.5	18 17.47	-26 23.9	17.6	-1.13	- 0.3	1.2/25.4	29138

1997 JULY 20

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1078 T-3 97 06 25.5 18 17.91 -09 52.2 18.3 -0.94 + 3.5 5.0/25.3 30294
 1981 ED₁₅ 97 06 25.7 18 18.36 -24 40.0 17.8 -1.06 + 0.7 0.5/25.7 25423
 1990 VV₁ 97 06 25.7 18 18.45 -09 45.1 17.1 -0.98 + 1.9 5.3/25.6 24761
 1993 DB₁ 97 06 25.8 18 18.72 -23 21.2 15.5 -1.07 - 0.6 0.0/25.8 30291
 4075 P-L 97 06 25.8 18 18.96 -24 17.6 18.7 -1.06 - 0.3 0.4/25.8 22701
 1993 JB₁ 97 06 25.9 18 19.13 -16 47.2 17.9 -1.03 + 1.1 2.5/26.0 23992
 6605 P-L 97 06 25.9 18 19.43 -18 43.2 18.0 -0.96 - 1.0 1.6/26.1 23986
 1990 WO₄ 97 06 25.9 18 19.46 -16 59.7 20.1 -0.91 - 0.2 2.0/26.1 27934
 1993 BY₄ 97 06 26.0 18 19.89 -25 18.4 18.6 -1.17 + 0.1 0.9/26.0 23980
 2164 P-L 97 06 26.1 18 20.03 -24 30.4 16.6 -1.06 + 0.8 0.5/26.1 22086
 1995 BQ₂ 97 06 26.1 18 20.25 +03 11.8 19.7 -0.76 + 2.4 6.9/26.0 25431
 1995 YJ₃ 97 06 26.1 18 20.26 -18 09.9 18.1 -0.98 - 2.1 1.9/26.4 27560
 1984 SL 97 06 26.2 18 20.75 -09 47.8 16.3 -0.94 - 1.4 4.9/26.7 25061
 1988 RY₅ 97 06 26.4 18 21.29 -20 11.2 16.4 -0.91 - 0.4 1.2/26.5 29912
 3020 T-2 97 06 26.4 18 21.53 -46 49.1 17.1 -1.21 - 1.3 9.3/25.0 22972
 1995 AF 97 06 26.6 18 22.07 -30 14.5 14.7 -1.07 + 5.1 3.0/26.8 28889
 6556 P-L 97 06 26.9 18 23.51 -07 22.5 18.0 -0.86 - 0.9 6.3/27.5 28892
 1981 EF₄₇ 97 06 27.0 18 23.91 -28 08.2 19.8 -0.93 - 0.5 1.6/26.9 18421
 5134 T-3 97 06 27.0 18 24.07 -16 25.1 18.8 -1.06 - 2.4 2.7/27.4 24915
 1993 OX₂ 97 06 27.0 18 24.14 -16 03.7 18.9 -0.91 - 1.8 2.8/27.4 30291
 1981 WE₉ 97 06 27.1 18 24.56 -17 47.8 16.5 -1.08 - 0.5 2.7/27.4 25537
 (7487) 97 06 27.2 18 24.56 -20 22.1 16.3 -0.97 - 4.5 1.0/27.5 29087
 4817 P-L 97 06 27.2 18 24.78 -11 27.1 19.3 -0.97 - 0.6 4.6/27.7 15904
 1994 WG₂ 97 06 27.2 18 24.83 -15 26.0 17.0 -0.90 - 1.4 2.7/27.6 28854
 1964 VN₁ 97 06 27.3 18 25.14 -28 38.4 18.6 -1.12 - 2.9 2.0/27.0 27117
 1978 VO₈ 97 06 27.4 18 25.63 -22 23.0 17.4 -0.86 - 1.1 0.3/27.5 30287
 1996 CZ 97 06 27.5 18 26.04 -15 46.7 19.4 -0.94 - 0.2 2.4/27.8 30292
 (6825) 97 06 27.7 18 26.59 -33 33.5 16.2 -1.23 - 0.8 4.8/27.3 26552
 1996 BX₁ 97 06 27.7 18 26.72 -17 55.2 17.0 -1.05 - 4.4 2.0/28.2 30292
 1990 VN₄ 97 06 27.7 18 26.92 -03 44.2 18.1 -0.89 + 0.9 7.6/28.4 30273
 1993 FV₂₇ 97 06 27.9 18 27.89 -24 12.5 17.1 -1.12 + 0.1 0.4/28.0 26580
 (6993) 97 06 28.0 18 27.87 -21 27.0 16.5 -0.84 - 1.0 0.6/28.1 29076
 (7382) 97 06 28.1 18 28.70 -21 47.2 17.3 -0.85 - 1.0 0.4/28.3 28821
 1994 WS₃ 97 06 28.2 18 29.11 -16 15.8 18.6 -0.91 - 0.2 2.1/28.5 28889
 1975 SE₂ 97 06 28.5 18 30.41 -33 04.9 18.4 -1.15 - 2.8 4.1/27.9 22072
 1994 YA₁ 97 06 28.7 18 30.94 -20 44.1 18.5 -0.90 - 1.7 0.8/28.9 27327
 1995 BB 97 06 28.8 18 31.32 -24 03.7 17.0 -0.93 - 0.4 0.3/28.8 28889
 1990 QN₇ 97 06 28.8 18 31.45 -28 10.7 16.0 -0.97 - 1.8 2.6/28.6 24228
 4260 T-1 97 06 28.8 18 31.54 -22 22.0 17.6 -0.89 - 1.5 0.3/28.9 30293
 5046 T-3 97 06 28.8 18 31.57 -19 44.8 18.3 -1.07 - 3.1 1.4/29.1 26577
 1996 CA₃ 97 06 28.9 18 31.64 -24 08.6 16.4 -0.86 - 1.3 0.3/28.9 27123
 1979 SO 97 06 28.9 18 31.88 -36 46.3 17.2 -1.10 - 1.3 5.3/28.1 22967
 1985 QD₆ 97 06 28.9 18 31.93 -19 05.5 17.1 -0.99 - 3.6 2.0/29.3 30288
 1978 SB₃ 97 06 29.0 18 32.06 -29 04.9 16.3 -1.12 + 0.2 2.5/28.8 30287
 (7537) 97 06 29.1 18 32.71 -24 10.0 17.3 -0.86 - 1.1 0.3/29.1 29295
 1992 RQ 97 06 29.2 18 33.17 -21 52.9 17.1 -0.88 - 1.5 0.5/29.4 28615
 1992 BZ 97 06 29.2 18 33.30 -25 08.5 17.1 -1.05 - 1.8 0.7/29.2 27567
 1987 SR₁₂ 97 06 29.3 18 33.47 -14 20.6 15.7 -0.93 - 1.2 4.6/29.8 27727
 1990 TO₄ 97 06 29.3 18 33.64 -27 11.2 18.5 -1.03 - 3.6 1.4/29.1 21974
 1987 QG₆ 97 06 29.4 18 33.80 +08 15.1 19.2 -1.05 - 2.8 12.2/30.0 25648
 1981 EG₂₀ 97 06 29.5 18 34.25 -33 55.2 17.2 -0.99 + 0.5 4.4/29.1 26918

1990 UR 97 06 29.5 18 34.26 -26 17.0 16.5 -1.10 - 0.5 1.4/29.4 30289
 1981 EK₂₂ 97 06 29.5 18 34.40 -23 02.8 18.4 -0.90 - 0.5 0.1/29.6 27930
 (6955) 97 06 29.5 18 34.47 -24 33.5 15.6 -0.88 - 0.9 0.5/29.5 27092
 1996 FJ₅ 97 06 29.7 18 35.14 -47 49.6 16.6 -1.32 - 1.6 9.1/27.8 27115
 (7778) 97 06 29.7 18 35.31 +14 02.6 14.2 -0.81 +16.1 20.4/19.1 30264
 (7780) 97 06 29.8 18 35.39 -03 40.3 16.7 -0.88 + 0.5 8.7/30.7 30265
 (7024) 97 06 29.9 18 35.89 -22 59.9 16.3 -0.88 - 0.7 7.4/10.0 27296
 1993 FL₃₉ 97 06 30.0 18 36.17 -28 19.8 16.3 -0.93 - 2.1 2.8/29.6 30291
 1993 DF₂ 97 06 30.0 18 36.17 -16 07.9 16.3 -1.03 - 2.7 3.3/30.5 24393
 1237 T-2 97 06 30.2 18 37.21 -25 14.0 18.0 -0.91 - 0.7 0.7/30.1 27939
 1992 QR 97 06 30.4 18 37.78 +12 23.4 16.5 -1.13 - 8.4 17.1/05.7 20829
 4071 T-3 97 06 30.5 18 38.52 -27 57.2 18.3 -1.14 - 2.6 1.9/30.2 29142
 1990 WR₂ 97 06 30.6 18 38.74 -24 15.5 17.5 -1.02 - 3.3 0.4/30.5 28885
 1996 CH₁ 97 06 30.6 18 39.06 -20 03.1 16.6 -1.04 - 2.9 1.2/30.9 30292
 1993 TT₁₉ 97 06 30.6 18 39.08 -25 59.8 18.5 -0.89 - 1.3 0.9/30.5 27715
 1996 AN₂ 97 06 30.8 18 39.71 -19 36.2 17.8 -1.06 - 3.2 1.4/01.1 27315
 1994 VP 97 06 30.9 18 40.11 -36 34.9 17.2 -1.17 - 4.6 7.0/29.4 28617
 2369 T-3 97 07 01.0 18 40.72 -22 49.7 18.8 -1.10 + 0.3 0.1/01.1 24120
 1989 OL 97 07 01.1 18 41.17 -42 04.0 16.7 -1.16 - 5.8 8.5/28.7 28884
 (6728) 97 07 01.2 18 41.09 -26 39.1 16.7 -1.16 - 1.2 1.6/31.0 26886
 1978 VT₈ 97 07 01.3 18 41.96 -17 40.5 17.6 -0.85 + 0.1 1.8/01.7 30287
 1981 EY₁₀ 97 07 01.5 18 42.54 -18 05.7 17.5 -1.02 - 0.5 2.1/01.8 30287
 1981 EF₂₅ 97 07 01.5 18 42.59 -23 16.7 19.0 -1.04 - 1.2 0.1/01.5 27118
 1982 U₈ 97 07 01.5 18 42.62 -13 25.6 16.0 -0.98 + 5.0 4.9/01.4 21103
 (6897) 97 07 01.5 18 42.82 -20 32.3 18.1 -1.04 - 1.1 0.9/01.8 26889
 1985 RB₃ 97 07 01.5 18 42.84 -31 48.3 18.5 -1.16 - 1.5 3.4/30.9 10836
 1988 XV₂ 97 07 01.6 18 43.17 -23 44.9 17.8 -1.18 + 0.3 0.3/01.7 30288
 1994 YJ₁ 97 07 01.7 18 43.24 -30 44.9 17.0 -1.00 - 1.8 2.8/01.1 27717
 1993 FN₁₄ 97 07 01.7 18 43.25 -27 03.2 16.7 -1.17 - 3.8 1.9/01.3 30274
 1992 EX₇ 97 07 01.8 18 43.69 -30 05.4 20.4 -1.08 0.0 2.5/01.5 25639
 2151 T-3 97 07 02.0 18 44.48 -39 48.0 17.3 -1.28 + 0.2 7.5/01.2 23681
 1992 LE 97 07 02.2 18 45.22 -00 07.2 15.8 -0.69 - 7.1 11.1/06.0 20826
 4084 P-L 97 07 02.2 18 45.38 -19 18.3 16.9 -0.88 - 0.1 1.8/02.4 30293
 1989 TB₁₁ 97 07 02.3 18 45.73 -28 31.3 16.4 -1.03 - 0.3 2.1/02.0 30289
 1994 PQ₃₁ 97 07 02.3 18 45.80 -17 18.2 18.1 -1.06 - 0.8 2.3/02.7 30291
 1989 AC₇ 97 07 02.4 18 46.16 -21 16.7 17.8 -0.84 - 1.3 0.6/02.6 30288
 (7783) 97 07 02.4 18 46.47 -26 32.8 16.4 -1.45 -16.3 1.7/01.8 30266
 1987 YA 97 07 02.7 18 47.75 -19 27.5 17.8 -1.14 - 0.5 1.5/03.0 30288
 1994 PR₂₀ 97 07 02.8 18 48.13 -18 51.5 17.6 -1.06 - 2.3 1.7/03.2 30291
 1989 BW₁ 97 07 03.0 18 48.63 -22 56.4 17.9 -1.08 - 2.4 0.0/03.0 30288
 1995 BJ₁ 97 07 03.0 18 48.78 -23 10.8 16.9 -0.81 - 1.4 0.1/03.0 30292
 1989 AF₃ 97 07 03.0 18 48.92 -21 07.6 17.3 -1.08 - 3.7 0.7/03.3 30288
 1995 CE₁ 97 07 03.1 18 49.39 -30 19.9 19.0 -0.88 - 0.5 2.1/02.7 25084
 1990 QJ₅ 97 07 03.2 18 49.35 -27 44.6 17.2 -1.14 - 1.7 2.1/02.8 30289
 1996 AJ₂ 97 07 03.2 18 49.42 -21 41.3 17.6 -1.04 - 2.6 0.5/03.3 30277
 1994 VB₃ 97 07 03.3 18 49.92 -14 58.1 16.5 -1.02 - 0.7 4.0/03.8 24764
 1993 SA₆ 97 07 03.3 18 50.11 -20 58.6 17.7 -0.83 - 1.3 0.6/03.5 29137
 3226 T-3 97 07 03.4 18 50.26 -38 34.8 18.3 -1.13 - 2.2 5.3/02.0 28620
 (7756) 97 07 03.4 18 50.48 -20 16.8 16.6 -0.84 - 5.5 0.8/03.8 30259
 1990 WU₅ 97 07 03.5 18 50.64 -19 25.8 18.1 -0.95 - 2.4 1.3/03.8 30289
 1981 EZ₆ 97 07 03.7 18 51.47 -18 59.8 19.8 -1.05 + 0.4 1.4/03.9 26916

3347 T-2	97 07 03.7	18 51.58	-24 06.7	18.0	-1.09	- 2.8	0.5/03.6	16038	1990 ST ₁₅	97 07 07.2	19 06.31	-27 55.4	15.3	-1.11	+ 1.9	2.5/07.0	28316
1296 T-2	97 07 03.7	18 51.68	-19 50.2	17.8	-0.97	- 1.8	1.3/04.0	30294	1981 VN	97 07 07.3	19 06.55	-44 56.7	17.1	-1.22	- 3.7	7.9/04.3	21564
1993 FZ ₇	97 07 03.8	18 52.25	-28 25.1	18.1	-1.16	- 2.9	2.4/03.4	30291	(7584)	97 07 07.4	19 07.10	-22 15.7	17.4	-0.88	- 2.3	0.1/07.5	29597
(7459)	97 07 04.0	18 52.64	-32 05.8	15.3	-1.01	- 2.2	4.2/03.2	29079	1991 UE ₅	97 07 07.5	19 07.19	-25 39.2	18.1	-1.13	+ 0.5	1.1/07.3	27120
(7467)	97 07 04.1	18 53.26	-41 42.0	16.9	-1.83	-12.1	9.9/30.8	29080	1978 CK	97 07 07.6	19 07.46	-35 58.4	16.9	-1.03	+ 2.9	4.0/07.0	25536
6745 P-L	97 07 04.1	18 53.38	-21 09.2	18.4	-0.81	- 1.4	0.5/04.3	27328	1993 XB	97 07 07.7	19 07.98	-11 37.3	17.8	-0.81	- 0.7	3.9/08.7	30275
1988 DJ ₂	97 07 04.2	18 53.66	-24 31.1	17.4	-1.12	- 1.0	0.7/04.1	30288	4052 T-3	97 07 07.7	19 08.10	-33 17.3	17.2	-1.17	- 4.2	4.8/06.4	24758
(7222)	97 07 04.2	18 53.85	-22 06.4	17.2	-0.84	- 1.7	0.2/04.3	28059	1991 TV ₄	97 07 07.7	19 08.30	-20 11.3	15.2	-1.01	- 4.2	1.2/08.1	30290
(6870)	97 07 04.3	18 53.93	+11 18.8	16.5	-1.14	-10.7	16.2/11.0	26733	1993 FY ₁₁	97 07 07.8	19 08.43	-33 35.1	16.2	-0.99	- 2.4	5.9/06.6	24393
1981 EE ₁₉	97 07 04.3	18 54.18	-19 16.9	16.9	-0.94	- 1.0	1.7/04.6	26918	1993 FL ₄₁	97 07 07.8	19 08.46	-17 18.3	18.1	-1.05	- 3.1	2.3/08.4	26759
2157 T-3	97 07 04.3	18 54.19	-18 10.1	18.0	-1.08	0.0	1.9/04.6	22432	1996 AV ₁	97 07 07.8	19 08.47	-21 23.8	18.1	-1.02	- 2.7	0.5/08.0	27111
1991 TL	97 07 04.5	18 54.81	-15 21.4	17.0	-0.98	- 5.0	3.9/05.4	29317	1996 DL	97 07 07.8	19 08.48	-17 03.7	17.8	-1.01	- 3.0	2.1/08.5	26910
6634 P-L	97 07 04.6	18 55.38	-24 44.3	18.3	-0.84	- 1.8	0.6/04.5	23130	2582 P-L	97 07 07.8	19 08.77	-27 45.4	19.9	-1.09	- 2.1	2.0/07.3	24114
1982 UE ₇	97 07 04.6	18 55.40	-21 00.3	17.3	-0.85	- 1.2	0.6/04.8	29654	(7006)	97 07 08.0	19 09.16	-16 19.4	18.9	-0.99	- 2.8	2.4/08.7	27292
1985 SX ₂	97 07 04.6	18 55.50	-26 41.1	17.1	-1.02	- 0.4	1.4/04.4	22698	1987 QF ₆	97 07 08.0	19 09.16	+07 39.8	18.8	-0.98	- 3.2	10.3/11.5	30288
1981 QJ ₃	97 07 04.9	18 56.37	-20 16.8	17.0	-0.85	- 1.9	0.9/05.0	21101	(7035)	97 07 08.1	19 09.69	-23 21.3	17.4	-0.81	- 1.3	0.2/08.0	27299
1994 UD	97 07 04.9	18 56.82	-27 22.3	17.1	-1.15	- 3.9	1.8/04.5	27122	1988 UC	97 07 08.2	19 10.12	-26 09.1	16.7	-0.92	- 1.9	1.3/07.8	28613
1990 OS ₁	97 07 05.0	18 57.09	-41 41.4	16.3	-1.23	+ 0.8	9.3/04.1	28614	1992 EC ₁	97 07 08.4	19 10.87	+15 33.3	19.7	-0.89	- 2.3	11.9/14.8	20342
1996 BK	97 07 05.1	18 57.19	-33 38.9	18.8	-1.21	+ 1.1	3.9/04.5	27123	1993 PP ₅	97 07 08.4	19 11.17	-13 34.3	17.8	-0.86	- 2.6	4.3/09.5	24584
1984 SJ ₇	97 07 05.1	18 57.31	-27 02.2	16.3	-1.20	+ 2.7	2.0/05.0	29654	1994 VZ	97 07 08.4	19 11.18	-11 52.0	16.6	-0.98	+ 0.5	5.2/09.3	30292
1996 ER ₂	97 07 05.1	18 57.64	-20 51.6	18.1	-1.03	- 0.4	0.8/05.3	30293	(7787)	97 07 08.7	19 12.16	-21 38.0	17.4	-0.99	- 4.2	0.3/08.8	30267
1991 LK ₂	97 07 05.2	18 57.67	-27 23.4	17.4	-0.87	- 2.5	1.5/04.7	28614	3538 P-L	97 07 08.7	19 12.36	-23 09.4	16.5	-1.14	+ 1.2	0.4/08.7	28891
4247 P-L	97 07 05.3	18 58.17	-21 50.3	17.0	-1.04	- 0.9	0.4/05.4	24241	(6901)	97 07 08.7	19 12.44	-21 18.8	15.6	-1.61	+12.7	0.5/08.7	26890
(7010)	97 07 05.3	18 58.19	-33 23.6	16.9	-1.22	- 0.9	4.5/04.5	28818	1991 EY ₃	97 07 08.7	19 12.45	-23 29.5	17.6	-0.92	- 1.2	0.4/08.7	27934
1981 EC ₁₃	97 07 05.3	18 58.37	-27 30.4	18.8	-0.95	+ 0.7	1.7/05.1	30090	(6819)	97 07 08.8	19 12.48	-20 30.3	15.5	-1.04	+ 2.0	1.0/08.9	26551
1991 RT ₄	97 07 05.4	18 58.49	-23 09.8	18.1	-1.13	- 0.4	0.2/05.4	24565	1981 EV ₃	97 07 08.8	19 12.50	-16 50.8	18.1	-1.00	+ 0.9	2.5/09.2	26915
1295 T-1	97 07 05.4	18 58.50	-14 30.8	18.2	-0.85	- 1.2	2.8/06.1	27328	1981 EC ₁₄	97 07 08.8	19 12.64	-26 18.0	18.6	-1.06	+ 0.2	1.7/08.5	22270
1981 EN ₂₁	97 07 05.4	18 58.66	-19 59.6	17.8	-0.88	- 1.3	1.0/05.7	27930	1989 CB ₃	97 07 08.9	19 13.11	-18 53.9	17.7	-1.08	0.0	1.4/09.2	26924
1990 VQ ₅	97 07 05.4	18 58.75	-15 31.2	17.3	-0.93	- 4.6	2.8/06.4	26925	1981 EH ₂₄	97 07 09.0	19 13.66	-25 40.2	19.0	-0.92	- 1.7	1.1/08.7	23132
1982 OF	97 07 05.4	18 58.79	-25 18.5	15.5	-1.07	+ 0.8	1.2/05.3	23788	(7795)	97 07 09.1	19 13.64	-16 45.7	17.8	-1.02	- 5.3	2.4/09.9	30269
(6882)	97 07 05.6	18 59.27	-23 10.4	14.9	-1.10	+ 6.4	0.2/05.6	26736	1990 RN ₃	97 07 09.1	19 13.69	-11 07.7	15.1	-0.84	- 3.1	5.9/10.6	29942
(7759)	97 07 05.6	18 59.64	-21 46.9	14.8	-0.93	- 2.8	0.5/05.8	30260	1981 EL ₁₄	97 07 09.1	19 13.80	-38 10.1	19.2	-1.06	+ 0.2	5.4/07.7	26917
1991 GP ₃	97 07 05.7	18 59.96	-18 54.4	16.4	-0.82	- 0.8	1.6/06.1	27912	1981 EW ₁₇	97 07 09.1	19 13.99	-19 32.5	18.5	-1.03	- 1.6	1.0/09.5	27726
1991 PF ₁₀	97 07 05.8	19 00.50	-19 53.4	16.4	-1.10	- 2.7	1.4/06.2	30290	1989 GJ ₂	97 07 09.4	19 15.05	-11 42.3	17.1	-1.02	+ 0.2	4.4/10.3	30288
2648 P-L	97 07 05.9	19 00.70	-25 21.1	19.4	-1.07	- 1.9	1.0/05.7	24409	1992 EB ₂₆	97 07 09.4	19 15.13	-34 43.1	19.4	-1.14	- 0.5	4.3/08.3	27713
1996 DF	97 07 05.9	19 00.85	-18 34.8	16.0	-1.02	- 3.9	1.7/06.4	28890	1992 EP ₁₀	97 07 09.5	19 15.25	-02 09.2	18.0	-0.88	- 5.2	7.9/12.8	27455
1993 ST ₃	97 07 06.0	19 01.13	-34 09.4	16.1	-1.07	- 3.7	4.7/04.6	30275	1994 TO ₁₅	97 07 09.7	19 16.19	-38 40.2	16.7	-1.15	- 1.0	8.0/08.2	26759
1990 TM ₅	97 07 06.2	19 02.07	-15 15.0	16.2	-1.00	+ 2.0	3.6/06.6	28614	1992 PD ₂	97 07 09.7	19 16.37	-10 07.5	15.5	-0.79	- 0.9	5.1/11.1	30290
1981 QF	97 07 06.4	19 03.04	-28 15.4	17.1	-1.08	- 0.8	2.5/06.0	30287	1986 QT ₁	97 07 09.7	19 16.38	-26 31.9	17.2	-1.11	- 2.1	1.7/09.3	24407
1981 EB ₁₁	97 07 06.5	19 03.42	-21 52.4	17.0	-0.95	+ 0.7	0.4/06.6	22429	1987 SN ₁₁	97 07 09.7	19 16.42	-19 59.1	18.3	-0.81	- 1.7	0.7/10.0	22698
3098 T-3	97 07 06.6	19 03.39	-15 24.3	20.0	-0.95	- 1.7	2.7/07.3	27565	1986 PU ₁	97 07 09.8	19 16.74	-26 01.2	17.1	-1.05	- 2.3	1.8/09.4	30288
1989 AK	97 07 06.7	19 03.77	-24 08.4	18.3	-0.82	- 1.9	0.4/06.5	23789	(6872)	97 07 09.9	19 16.89	-16 46.3	15.5	-1.08	- 1.0	2.6/10.4	26734
9538 P-L	97 07 06.7	19 04.06	-20 14.9	16.7	-1.05	- 2.2	1.1/07.0	26583	1996 EE ₂	97 07 10.0	19 17.35	-14 47.2	16.7	-1.04	- 2.5	3.3/10.9	27114
1991 VP ₁	97 07 06.9	19 05.00	-20 00.8	17.0	-1.08	- 3.6	1.0/07.3	29943	1992 JB ₂	97 07 10.0	19 17.68	-05 02.7	15.1	-0.89	+ 0.1	6.6/11.7	22956
4113 P-L	97 07 07.0	19 05.21	-19 34.9	18.0	-1.02	- 1.5	1.1/07.3	27457	(7602)	97 07 10.2	19 18.27	-26 06.5	16.3	-0.94	+ 1.5	1.4/09.9	29601
4806 P-L	97 07 07.1	19 05.50	-19 12.3	18.9	-0.95	- 2.0	1.2/07.5	22701	1997 NZ	97 07 10.2	19 18.52	-20 50.9	14.6	-1.04	+ 5.8	0.6/10.3	30284
1981 DN	97 07 07.1	19 05.66	-26 52.6	19.0	-1.12	+ 0.8	1.6/06.9	22696	(6982)	97 07 10.3	19 18.66	+00 33.4	15.5	-0.84	+ 0.1	10.1/12.5	27098
1981 EF ₂	97 07 07.1	19 05.75	-25 41.1	16.2	-1.09	+ 1.5	1.3/07.0	29653	1981 EQ ₁₀	97 07 10.3	19 18.89	-23 43.6	19.6	-1.06	- 1.1	0.5/10.2	27725
1996 DG ₂	97 07 07.1	19 05.75	-21 42.3	16.3	-0.84	- 1.6	0.3/07.3	27731	1981 EW ₂₄	97 07 10.4	19 18.91	-19 11.5	16.6	-0.87	- 2.1	1.1/10.8	27726
1996 HF ₁₈	97 07 07.2	19 05.86	-18 28.0	18.0	-0.80	- 0.9	1.1/07.6	27720	1993 DG ₂	97 07 10.4	19 18.99	-17 57.5	16.6	-1.06	- 5.3	1.8/11.0	30291
1980 FY ₂	97 07 07.2	19 06.19	-23 40.9	17.7	-0.87	- 1.3	0.4/07.2	25061	1993 NO	97 07 10.4	19 19.31	-22 49.9	17.8	-1.01	- 1.8	0.2/10.4	27455

1979 MC ₉	97 07 10.4	19 19.31	-17 40.4	18.6	-0.92	- 2.2	2.3/11.0	26755
1981 EP ₂₇	97 07 10.4	19 19.37	-03 15.1	17.6	-0.80	- 2.3	6.6/13.0	23132
4882 P-L	97 07 10.5	19 19.38	-38 47.0	18.5	-1.13	- 1.7	6.4/08.6	21978
1993 FA ₄₅	97 07 10.5	19 19.80	-33 00.3	15.4	-0.83	- 0.3	6.3/09.4	23528
1994 YC ₁	97 07 10.7	19 20.46	-22 33.2	18.0	-0.84	- 1.7	0.1/10.7	28617
1985 UF ₃	97 07 10.9	19 21.10	-01 12.3	16.0	-0.89	- 1.4	8.3/13.2	26924
(7202)	97 07 11.0	19 21.81	-28 34.8	16.0	-1.05	+ 0.2	2.6/10.5	27905
1990 RP ₉	97 07 11.2	19 22.21	-14 42.4	15.6	-0.98	+ 1.0	3.6/11.8	29134
(7723)	97 07 11.2	19 22.66	-21 36.5	16.1	-1.12	- 6.3	0.2/11.4	30250
1988 XB ₅	97 07 11.4	19 23.39	-28 06.6	16.8	-1.14	- 3.7	2.6/10.7	29656
1976 GL ₈	97 07 11.5	19 23.81	-18 24.6	15.2	-0.97	+ 2.0	1.7/11.9	30286
(7363)	97 07 11.6	19 24.08	-08 56.8	16.8	-0.85	- 2.2	4.2/13.4	28579
(6936)	97 07 11.6	19 24.25	-20 15.6	16.9	-0.95	- 3.2	0.6/11.9	26898
(6951)	97 07 11.8	19 24.69	-23 29.1	17.1	-0.85	- 1.8	0.5/11.6	27091
1987 WJ ₁	97 07 11.8	19 24.74	-32 11.6	17.0	-0.91	- 2.2	3.2/10.4	29911
1994 UT	97 07 11.8	19 25.07	-18 54.2	16.7	-1.08	0.0	1.3/12.2	29622
1036 T-3	97 07 11.8	19 25.09	-31 08.8	18.6	-0.90	- 0.5	2.5/10.9	24910
(6980)	97 07 11.9	19 25.02	-23 05.9	15.6	-0.90	- 3.0	0.4/11.7	27097
1996 FW ₄	97 07 11.9	19 25.08	-24 06.9	17.2	-0.84	- 2.1	0.7/11.6	28890
4303 T-3	97 07 12.0	19 25.64	-34 24.7	18.6	-0.92	- 2.5	3.7/10.3	27565
1992 OP ₁	97 07 12.1	19 26.15	-03 24.1	17.0	-0.84	+ 1.9	6.6/13.7	27309
1995 BY	97 07 12.2	19 26.26	-25 47.9	16.5	-0.90	- 2.0	1.3/11.7	28617
1993 GC ₁	97 07 12.4	19 27.44	-29 03.7	14.8	-1.03	- 5.4	3.6/11.3	27326
4157 P-L	97 07 12.4	19 27.47	-22 51.1	17.7	-1.11	- 1.5	0.4/12.4	24764
1986 RS ₂	97 07 12.5	19 27.82	-14 36.0	16.4	-0.99	- 2.6	3.3/13.5	26924
1993 TG	97 07 12.6	19 27.96	-06 56.8	15.9	-0.80	- 2.1	5.3/15.0	30291
1993 EE	97 07 12.7	19 28.47	-18 40.4	16.8	-1.04	- 4.4	1.4/13.2	30291
1993 SL ₆	97 07 12.7	19 28.57	-18 59.6	17.3	-0.88	- 2.2	1.0/13.1	30291
1994 TY ₂	97 07 12.9	19 29.54	-38 20.1	17.8	-1.19	- 2.1	5.5/10.7	29945
1988 FM	97 07 13.0	19 29.87	-44 36.6	16.6	-1.25	- 0.8	8.9/10.4	29133
4614 P-L	97 07 13.1	19 29.99	-31 20.4	17.4	-0.98	- 1.7	3.4/11.9	29668
1993 NB ₂	97 07 13.2	19 30.53	-22 05.7	17.1	-1.02	- 1.6	0.1/13.2	24763
9070 P-L	97 07 13.3	19 31.11	-09 08.9	16.4	-0.89	- 1.0	4.9/14.8	28892
(7779)	97 07 13.3	19 31.20	-61 44.2	17.3	-1.87	- 3.9	16.4/07.1	30265
1996 DK ₁	97 07 13.6	19 31.98	-18 37.4	17.5	-1.01	- 3.9	1.1/14.1	29947
1986 CF ₂	97 07 13.6	19 32.24	-33 45.4	16.2	-1.18	+ 3.3	4.5/12.8	30288
(7049)	97 07 13.7	19 32.74	-23 09.8	17.2	-1.10	- 3.5	0.6/13.6	29893
1996 DD ₃	97 07 13.9	19 33.16	-27 22.1	18.8	-1.07	- 2.6	2.0/13.1	30278
1991 YX	97 07 13.9	19 33.31	-17 39.5	16.7	-1.05	- 4.9	1.7/14.6	28886
1993 TG ₂₆	97 07 14.0	19 33.78	-36 38.8	17.6	-0.97	- 2.5	4.7/11.8	28616
1994 PE ₃₃	97 07 14.2	19 34.56	-21 52.2	16.6	-1.12	- 0.4	0.1/14.2	26566
1990 RM ₅	97 07 14.3	19 34.87	-23 11.1	15.7	-0.93	- 2.2	0.8/14.1	30289
3557 P-L	97 07 15.0	19 37.71	-24 18.3	17.5	-1.13	- 0.8	1.1/14.7	28892
1993 HH ₇	97 07 15.0	19 37.82	-25 50.9	16.0	-1.08	- 1.7	2.1/14.5	30291
(6834)	97 07 15.1	19 38.01	-30 04.0	15.0	-0.90	- 3.2	4.5/13.8	26554
4203 T-3	97 07 15.1	19 38.31	-01 27.0	17.8	-0.87	- 3.7	7.4/18.7	27117
1984 SS ₁	97 07 15.1	19 38.36	-15 35.9	18.6	-1.04	- 2.1	2.2/16.0	14786
(7739)	97 07 15.2	19 38.55	-17 18.7	17.3	-1.03	- 3.6	1.7/15.9	30254
1981 EZ	97 07 15.2	19 38.80	-23 28.4	18.7	-1.04	- 2.4	0.7/15.0	27453
4831 P-L	97 07 15.3	19 38.87	-41 41.9	18.9	-1.17	- 1.2	6.6/12.6	29141
1984 EL	97 07 15.3	19 38.95	-28 25.1	17.2	-0.84	- 2.6	2.1/14.3	27454

(7212)	97 07 15.3	19 39.00	-13 54.6	16.4	-0.96	- 3.4	3.6/16.5	27907
9575 P-L	97 07 15.3	19 39.08	-25 00.0	16.9	-1.10	- 4.9	1.8/14.8	27732
1985 CU ₁	97 07 15.3	19 39.20	-43 24.0	18.1	-1.51	+ 3.2	7.7/13.6	19673
1990 RF ₂	97 07 15.4	19 39.40	-18 22.0	15.2	-0.94	- 1.6	1.6/15.9	26757
1994 PA	97 07 15.4	19 39.68	-13 31.2	17.0	-1.09	- 0.2	3.6/16.4	27456
(6983)	97 07 15.5	19 39.68	-22 02.3	15.3	-0.81	- 4.5	0.2/15.4	27098
1991 TR ₆	97 07 15.5	19 39.97	-22 02.0	16.7	-1.06	- 0.4	0.3/15.5	24741
1994 XK	97 07 15.5	19 40.02	-30 05.3	16.2	-1.04	- 4.7	4.0/14.1	30292
1991 TC ₃	97 07 15.6	19 40.17	-26 19.5	17.7	-1.16	- 1.6	2.1/15.0	25065
1981 EO ₂₆	97 07 15.6	19 40.32	-21 26.7	17.9	-0.88	- 1.8	0.0/15.7	27726
1990 SL ₇	97 07 15.6	19 40.52	-25 42.0	18.3	-1.08	- 3.5	1.7/15.0	24761
1993 FJ ₂₉	97 07 15.9	19 41.40	-23 54.2	16.6	-1.15	+ 0.6	1.3/15.7	23526
1981 DE	97 07 15.9	19 41.51	-14 15.9	16.7	-1.01	- 0.9	2.8/16.8	26914
1996 EJ	97 07 16.0	19 42.06	-08 40.7	15.8	-0.86	- 6.1	4.5/18.6	27457
1992 DV ₉	97 07 16.4	19 43.27	-16 17.4	20.5	-0.98	- 2.5	1.8/17.1	27308
2244 T-2	97 07 16.4	19 43.35	-19 46.3	18.1	-0.93	- 2.6	0.7/16.7	17977
4192 T-1	97 07 16.4	19 43.69	-27 09.1	16.1	-1.03	- 3.9	2.8/15.5	30293
1995 BV	97 07 16.5	19 43.94	-23 15.4	17.6	-0.80	- 2.3	0.6/16.3	27568
1990 WE ₉	97 07 16.6	19 44.24	-17 50.8	17.1	-0.96	- 3.6	1.6/17.2	30289
(7176)	97 07 16.6	19 44.26	-12 07.1	16.5	-0.89	- 0.5	3.1/17.8	27899
1994 VM ₇	97 07 16.6	19 44.50	-26 05.0	17.9	-1.07	- 3.2	1.8/15.9	27122
1989 US ₁	97 07 16.7	19 44.49	-45 02.1	16.3	-1.23	- 3.8	9.6/11.9	27307
1989 SZ ₃	97 07 16.7	19 44.59	-21 19.8	16.6	-0.91	- 4.4	0.0/16.7	24562
1993 TB ₁₉	97 07 16.7	19 44.93	-25 28.2	18.8	-0.94	- 3.1	1.6/16.1	27312
1981 EP ₂₅	97 07 16.8	19 45.15	-19 17.3	18.7	-0.86	- 2.0	0.6/17.2	24911
1994 SH ₁₁	97 07 16.9	19 45.61	-33 18.2	16.7	-1.15	- 2.1	5.3/15.2	28854
1991 RJ ₇	97 07 17.1	19 46.17	-20 52.2	15.8	-1.09	- 0.5	0.2/17.2	26758
1981 EZ ₂₇	97 07 17.1	19 46.22	-23 03.9	16.6	-0.97	- 2.9	0.9/16.8	29653
(6919)	97 07 17.1	19 46.23	-17 47.5	16.7	-1.04	- 4.9	1.4/17.7	26894
1991 GW ₁₀	97 07 17.1	19 46.33	-37 48.7	19.5	-1.01	- 1.3	5.5/14.8	27711
1979 QX ₂	97 07 17.2	19 46.78	-25 23.9	15.9	-0.95	- 0.2	2.2/16.7	17955
1989 TU ₁	97 07 17.5	19 47.85	-15 09.9	17.5	-0.97	- 0.8	2.0/18.3	30272
1995 CN	97 07 17.5	19 47.95	-20 18.5	18.6	-0.89	- 4.8	0.3/17.7	28075
1986 QB ₃	97 07 17.5	19 47.95	-23 15.2	16.3	-0.83	- 3.0	0.7/17.2	30288
1981 EW ₁₅	97 07 17.5	19 48.11	-32 45.1	20.7	-0.96	- 0.8	3.2/16.0	26918
1992 RF ₇	97 07 17.6	19 48.44	-28 37.0	17.1	-0.86	- 2.5	2.5/16.4	30290
1997 NU ₁	97 07 17.7	19 48.50	-19 29.9	18.1	-0.89	- 2.1	0.6/17.9	30284
1996 BL ₃	97 07 17.7	19 48.64	-15 47.9	18.2	-0.97	- 4.3	2.1/18.6	26753
(7201)	97 07 17.7	19 48.65	-33 25.5	16.0	-1.14	- 4.2	5.1/15.6	27905
1989 EJ ₆	97 07 17.7	19 48.69	-20 52.3	18.8	-0.78	- 2.1	0.1/17.8	28842
1981 EG ₃₄	97 07 17.7	19 48.93	-08 53.4	19.7	-0.95	- 3.0	4.9/19.7	23857
1982 JD ₁	97 07 17.8	19 49.15	-04 35.2	16.3	-0.91	- 1.9	7.9/20.6	26756
1994 YD ₁	97 07 17.9	19 49.66	-20 10.6	17.5	-0.94	- 1.8	0.3/18.1	25084
(7789)	97 07 18.1	19 50.27	-22 36.9	15.7	-1.11	+ 0.2	0.8/17.9	30267
1993 RP ₃	97 07 18.2	19 50.54	-10 25.0	16.2	-0.96	+ 0.5	3.6/19.4	24745
4114 T-1	97 07 18.2	19 50.59	-24 21.0	16.9	-1.04	- 4.0	1.5/17.7	28620
1976 UJ ₄	97 07 18.2	19 50.65	-23 44.9	16.6	-0.97	- 3.6	1.0/17.8	27323
1993 PU ₇	97 07 18.3	19 50.93	-22 39.5	17.2	-0.94	- 1.9	0.6/18.1	29103
(6886)	97 07 18.3	19 51.12	-25 11.1	16.0	-0.97	- 5.0	1.4/17.6	26886
1988 CT ₂	97 07 18.3	19 51.36	-20 22.4	16.2	-0.94	- 4.3	0.3/18.5	28883
1987 BS ₁	97 07 18.4	19 51.60	-20 42.1	16.6	-1.04	+ 1.1	0.1/18.5	25225

1988 VY	97 07 18.5	19 51.86	-18 16.4	17.6	-0.86	- 2.3	0.9/19.0	27710	1993 TS ₁₅	97 07 22.9	20 09.40	-17 45.0	17.7	-0.90	- 3.7	1.0/23.4	24111
1981 EW ₁₃	97 07 18.5	19 51.91	-19 42.6	18.1	-1.01	- 2.1	0.5/18.7	24239	1991 VL ₁	97 07 22.9	20 09.71	-23 44.1	16.2	-1.03	- 7.6	1.8/22.2	29660
1984 WC ₂	97 07 18.6	19 52.12	-15 46.3	17.4	-0.92	- 0.3	1.8/19.3	25225	4140 T-3	97 07 22.9	20 09.73	-20 41.0	18.9	-0.93	- 4.5	0.2/22.9	27929
1984 UT	97 07 18.6	19 52.20	+01 13.3	17.7	-0.86	- 0.1	6.9/21.6	30288	1981 ED ₂₀	97 07 23.0	20 10.02	-27 29.5	18.1	-1.10	- 2.6	2.7/21.8	26918
1996 GG ₅	97 07 18.7	19 52.58	-27 16.8	17.5	-1.05	- 4.8	2.9/17.5	27560	1993 KR	97 07 23.1	20 10.39	+13 00.4	18.0	-1.01	- 1.1	11.9/30.2	26744
1362 T-2	97 07 18.7	19 53.02	-31 34.7	19.5	-1.17	- 2.2	4.4/17.2	24237	1996 FO ₅	97 07 23.1	20 10.44	-34 32.8	17.7	-1.16	- 2.3	5.3/20.7	30293
(7354)	97 07 18.8	19 53.23	-24 33.5	17.7	-0.82	- 2.7	1.1/18.2	28576	1979 ML ₁	97 07 23.2	20 10.52	-14 29.8	16.5	-1.02	+ 1.0	2.7/24.0	30287
1994 YE ₁	97 07 18.8	19 53.37	-15 17.5	15.7	-1.03	+ 1.9	2.2/19.5	30292	4812 P-L	97 07 23.2	20 10.84	-21 10.2	19.2	-0.85	- 2.7	0.4/23.1	25224
1996 BJ	97 07 18.8	19 53.42	-20 24.6	17.7	-1.07	- 1.6	0.2/19.0	30292	1994 VB ₇	97 07 23.2	20 10.95	-15 20.1	17.6	-1.00	- 2.8	1.8/24.1	29622
1990 SD ₅	97 07 18.9	19 53.80	-27 10.9	17.1	-1.02	- 2.7	3.0/18.0	29611	1978 VP ₃	97 07 23.3	20 11.01	-23 34.3	18.8	-0.85	- 3.4	1.1/22.6	27302
1992 QE ₂	97 07 19.0	19 53.72	+00 01.6	16.4	-0.75	- 4.2	8.3/23.0	30290	1990 QZ ₁	97 07 23.3	20 11.20	-28 48.2	16.9	-1.11	- 1.2	3.4/22.0	26925
1989 EZ ₂	97 07 19.0	19 53.83	-15 36.4	18.0	-1.07	- 0.3	2.2/19.7	26900	3097 P-L	97 07 23.4	20 11.32	-18 28.0	16.3	-0.92	+ 1.5	0.7/23.6	15423
1981 FP	97 07 19.0	19 54.08	-17 03.6	18.4	-0.98	- 3.3	1.6/20.0	22697	4098 P-L	97 07 23.4	20 11.50	-07 25.8	19.0	-0.82	- 2.6	4.0/25.8	27320
6513 P-L	97 07 19.1	19 54.40	-42 16.7	17.0	-1.20	+ 1.3	9.3/16.6	23786	1993 DD ₁	97 07 23.4	20 11.68	-28 31.5	16.7	-1.17	- 2.7	3.7/22.0	29102
(7022)	97 07 19.1	19 54.51	+01 18.0	17.3	-0.87	- 1.5	7.8/22.8	27296	1992 SD ₁₃	97 07 23.5	20 12.02	-01 00.2	16.4	-0.74	- 2.5	6.9/27.4	30290
1995 BQ ₈	97 07 19.2	19 54.55	-22 34.3	18.5	-0.85	- 3.1	0.6/18.9	27917	1992 GA	97 07 23.6	20 12.55	-23 13.5	17.4	-1.06	+ 1.2	1.2/23.3	26758
1989 TB ₅	97 07 19.4	19 55.53	-12 45.2	17.3	-0.86	- 4.3	3.1/20.9	28613	1993 SQ ₁₃	97 07 23.7	20 12.57	-21 14.4	17.8	-0.89	- 2.9	0.4/23.5	27916
1996 BV ₃	97 07 19.7	19 56.83	-27 43.8	15.4	-0.96	- 6.6	3.4/18.3	30292	1981 EE ₃₂	97 07 23.7	20 12.65	-10 19.4	19.3	-0.96	- 2.3	3.7/25.4	26921
1990 TU ₈	97 07 19.9	19 57.57	-25 32.1	15.9	-0.94	- 2.1	2.6/19.2	30289	1993 TL ₂₈	97 07 23.8	20 12.90	-19 50.7	19.0	-0.80	- 3.0	0.0/23.8	25068
1992 DZ ₂	97 07 20.0	19 57.99	-22 34.3	17.3	-1.01	- 3.0	0.7/19.7	27935	5211 T-2	97 07 23.8	20 12.96	-06 47.7	17.2	-0.82	- 1.8	4.0/26.2	22972
1992 DF ₁	97 07 20.1	19 58.34	-01 38.1	18.5	-1.03	- 9.1	7.5/24.3	23978	1985 UC	97 07 23.8	20 13.01	-52 18.3	15.9	-1.29	+ 2.5	15.7/18.2	29940
1992 EX ₁₇	97 07 20.1	19 58.46	-07 45.5	16.9	-0.98	- 3.1	5.0/22.3	27121	1996 DF ₁	97 07 23.9	20 13.59	-22 12.1	15.9	-0.94	- 0.6	1.1/23.6	30293
(7337)	97 07 20.2	19 58.72	-28 39.5	16.0	-1.10	- 0.6	3.6/19.1	28572	1984 DQ	97 07 24.0	20 13.73	-30 21.9	16.8	-1.18	+ 2.4	4.5/22.9	29133
2114 T-3	97 07 20.3	19 59.31	-06 16.9	16.5	-0.80	- 1.7	5.2/22.8	22822	1986 QL ₂	97 07 24.0	20 13.89	-23 54.7	16.1	-0.85	- 1.6	1.4/23.3	29133
7604 P-L	97 07 20.5	19 59.81	-24 20.2	16.6	-1.02	- 4.2	1.5/19.8	27938	1989 VK	97 07 24.1	20 14.36	-16 49.5	17.9	-1.01	- 1.9	1.2/24.7	27933
(7308)	97 07 20.6	20 00.52	-16 49.6	16.3	-0.86	0.0	1.3/21.2	28291	1993 YF	97 07 24.3	20 15.03	-20 21.2	18.4	-0.81	- 3.2	0.2/24.2	23791
(6979)	97 07 20.7	20 00.88	-45 55.8	15.2	-1.26	+ 1.5	11.5/16.8	27097	1984 HO ₁	97 07 24.3	20 15.16	-26 53.0	16.8	-1.11	- 2.7	3.5/23.1	29940
1993 FL ₈₄	97 07 20.8	20 01.18	-05 15.1	15.4	-0.90	- 4.7	7.7/23.8	27730	1996 JX ₇	97 07 24.3	20 15.24	-20 51.9	18.9	-0.80	- 3.1	0.3/24.2	27452
(7433)	97 07 20.9	20 01.49	-00 27.0	17.5	-0.94	- 4.3	8.2/25.2	28834	2808 P-L	97 07 24.5	20 15.70	-16 59.5	18.6	-0.97	- 3.5	1.0/25.0	26929
2303 T-2	97 07 21.2	20 02.93	-21 56.0	19.1	-1.07	- 3.8	0.6/21.0	24579	1991 ES ₁	97 07 24.5	20 15.76	-04 45.8	16.1	-0.85	- 5.7	5.1/27.9	30289
(6967)	97 07 21.3	20 03.05	-27 30.0	16.7	-1.13	- 4.0	2.9/20.0	27094	(6774)	97 07 24.5	20 15.99	-21 17.7	16.6	-1.10	- 3.7	0.6/24.3	26385
1991 AS ₁	97 07 21.3	20 03.13	-39 22.2	17.5	-1.40	+ 3.8	6.2/19.5	25226	9094 P-L	97 07 24.6	20 16.31	-01 05.0	17.6	-0.86	- 3.1	9.2/28.2	27123
1994 XV	97 07 21.3	20 03.19	+09 51.4	20.2	-0.97	+ 0.1	9.6/25.0	25071	1985 PO	97 07 24.7	20 16.89	-17 11.9	16.4	-0.90	- 4.8	1.1/25.3	29654
1981 EF ₃₂	97 07 21.3	20 03.29	-15 36.9	18.6	-1.03	+ 1.0	2.1/22.0	26921	(6972)	97 07 24.8	20 17.28	-09 44.4	16.2	-0.90	- 3.0	3.4/26.8	27095
1986 RB ₁₂	97 07 21.4	20 03.45	-07 02.0	15.2	-0.84	+ 1.6	4.6/23.1	22698	(6927)	97 07 24.9	20 17.43	-17 42.3	16.0	-0.98	- 5.6	0.8/25.4	27696
1987 RV ₃	97 07 21.4	20 03.61	-12 26.6	15.9	-0.90	- 1.8	4.2/22.8	24760	1989 WF ₁	97 07 24.9	20 17.58	-37 18.0	17.6	-1.06	- 5.1	6.0/20.9	29913
(6851)	97 07 21.5	20 03.73	-19 32.4	16.9	-1.08	- 5.0	0.4/21.7	29076	1992 QL ₂	97 07 25.1	20 18.28	-06 07.2	15.3	-0.82	- 0.8	4.9/27.6	30290
1989 XD ₂	97 07 21.5	20 03.98	-19 09.8	17.3	-0.93	- 6.1	0.5/21.8	21973	1991 BK	97 07 25.2	20 18.80	-26 25.2	18.7	-0.94	- 3.6	2.0/23.9	29658
1994 YU ₂	97 07 21.5	20 03.99	+07 02.7	18.3	-0.93	- 7.7	10.0/27.9	25071	(6985)	97 07 25.2	20 18.85	-30 21.2	16.5	-1.07	- 4.2	4.2/23.1	27098
(7687)	97 07 21.5	20 04.00	-10 24.0	17.1	-1.01	- 3.7	4.1/23.4	29908	1994 PW ₁₆	97 07 25.3	20 19.07	-18 40.5	16.5	-1.10	- 1.5	0.4/25.5	26422
4069 P-L	97 07 21.6	20 04.40	-06 50.2	17.5	-0.77	- 2.6	4.3/24.2	28892	(6999)	97 07 25.4	20 19.26	-14 25.9	17.6	-1.00	- 5.4	2.0/26.5	27101
(7791)	97 07 21.7	20 04.53	-14 49.8	18.2	-0.75	- 4.0	1.5/22.8	30268	(6970)	97 07 25.8	20 21.22	-21 41.7	16.2	-1.00	- 6.3	0.9/25.4	27095
(7105)	97 07 21.8	20 04.96	-18 42.6	18.3	-0.99	- 3.8	0.6/22.1	27697	1993 HC ₁	97 07 25.8	20 21.35	-63 43.9	18.8	-2.09	+ 1.9	16.9/19.5	23539
1987 DN ₆	97 07 22.0	20 06.00	-19 33.3	18.5	-0.93	- 2.2	0.2/22.2	28612	1988 JW	97 07 25.9	20 21.34	-25 45.7	15.0	-0.88	-11.9	2.9/24.1	26579
1989 AL ₃	97 07 22.1	20 06.15	-19 05.7	17.3	-1.03	- 5.4	0.5/22.3	29941	1995 BP ₁	97 07 26.0	20 21.55	-31 54.6	15.8	-1.03	- 8.4	4.8/22.7	29622
1975 SU ₁	97 07 22.3	20 07.04	-18 33.6	17.7	-0.78	- 2.6	0.5/22.6	28083	1993 SO ₂	97 07 26.0	20 21.80	-07 38.6	18.1	-0.83	- 3.2	4.0/28.5	30080
1992 ES ₁₃	97 07 22.3	20 07.05	-16 44.5	17.7	-1.01	- 3.0	1.4/22.9	24762	(6843)	97 07 26.0	20 21.88	-34 22.5	16.9	-1.13	- 2.4	5.3/23.3	26727
1996 EG ₂	97 07 22.3	20 07.27	-05 07.4	16.7	-0.85	- 6.6	6.0/25.9	29947	(6960)	97 07 26.1	20 22.15	-21 42.6	15.7	-0.81	- 2.6	0.8/25.7	27093
1996 AF ₂	97 07 22.4	20 07.60	-23 49.9	15.8	-1.10	- 0.3	1.5/22.0	26928	1990 QO	97 07 26.1	20 22.32	+03 23.2	16.7	-1.00	- 9.3	9.3/31.7	30289
1971 UM	97 07 22.8	20 09.02	-25 16.7	15.7	-1.03	- 3.2	2.4/21.9	28610	1990 QN ₂	97 07 26.3	20 22.74	-29 30.9	16.2	-1.10	+ 0.5	4.9/24.7	25440
1990 RS ₆	97 07 22.8	20 09.19	-28 35.3	17.9	-1.11	- 1.0	3.5/21.6	26740	1991 GK ₄	97 07 26.3	20 23.08	-17 40.8	17.2	-0.87	- 2.8	0.6/26.7	27934

1982 UJ ₇	97 07 26.4	20 23.16	-20 08.2	17.1	-0.80	- 3.3	0.2/26.2	29654
1993 VV ₇	97 07 26.4	20 23.56	-31 26.6	17.2	-1.12	-14.9	4.2/22.7	24914
1994 XQ	97 07 26.6	20 24.26	-09 08.5	16.1	-0.88	- 4.4	5.2/28.8	30292
1991 YL ₁	97 07 26.7	20 24.75	-19 30.1	17.8	-1.02	- 3.2	0.1/26.7	27556
1982 VB ₄	97 07 26.8	20 24.89	-24 52.3	17.9	-0.98	- 3.7	1.9/25.7	24759
1989 SF ₁	97 07 26.9	20 25.15	-10 34.4	16.1	-0.81	- 6.8	3.7/29.1	30288
(6950)	97 07 27.1	20 25.92	-32 27.6	16.3	-1.00	- 7.3	4.9/23.8	27090
1988 GF	97 07 27.1	20 26.08	+05 34.7	15.3	-0.84	- 1.2	10.9/01.6	30288
1989 PU	97 07 27.2	20 26.39	-04 43.9	15.4	-0.81	-26.0	6.4/01.9	22599
1991 AK	97 07 27.2	20 26.42	-20 43.4	16.6	-0.94	- 2.6	0.5/26.9	27325
(7209)	97 07 27.2	20 26.62	-26 04.4	16.1	-1.06	0.0	2.7/26.1	27906
1995 AH	97 07 27.3	20 26.93	-17 30.8	17.3	-0.91	- 4.8	0.6/27.7	28889
1993 FG ₂₃	97 07 27.4	20 27.30	-16 39.2	16.3	-1.08	- 2.9	1.1/27.9	26926
3039 P-L	97 07 27.4	20 27.30	-09 25.7	17.6	-0.90	- 1.4	3.6/29.2	26414
1996 DQ ₂	97 07 27.4	20 27.44	-23 05.9	17.0	-0.95	- 5.3	1.6/26.6	28890
1992 FW ₁	97 07 27.5	20 27.48	+12 31.7	19.4	-0.92	- 4.6	10.5/04.0	28615
1040 T-2	97 07 27.5	20 27.87	-16 27.9	18.3	-1.02	- 3.7	1.1/28.1	26912
1993 FZ ₄₉	97 07 27.6	20 27.94	-22 45.0	16.7	-1.02	- 1.8	1.8/27.0	27916
(7294)	97 07 27.7	20 28.26	-27 07.2	16.8	-0.95	- 4.4	2.7/25.9	29076
1983 XN ₁	97 07 27.7	20 28.61	-21 12.8	16.7	-0.89	- 0.7	0.7/27.4	29654
1996 AA ₁	97 07 27.8	20 28.66	-18 26.0	15.7	-1.03	- 2.8	0.3/27.9	28618
1984 UD	97 07 27.8	20 28.78	-33 47.2	17.5	-1.05	- 3.1	5.1/24.6	30287
(6956)	97 07 28.1	20 30.15	-10 51.8	17.1	-0.96	- 2.4	3.0/29.7	27092
2206 P-L	97 07 28.2	20 30.29	-11 20.7	18.5	-0.88	- 3.8	2.6/29.8	28891
1987 UZ ₁	97 07 28.2	20 30.41	+30 23.0	17.4	-1.16	+ 2.3	22.5/07.3	23779
1996 GU ₈	97 07 28.2	20 30.43	-23 43.8	17.4	-0.90	- 4.2	1.8/27.2	27451
(7045)	97 07 28.2	20 30.59	-25 10.1	17.4	-1.08	- 2.1	2.4/27.1	27434
1988 RH ₁₀	97 07 28.2	20 30.68	-19 01.8	16.2	-0.88	- 3.3	0.0/28.3	27933
1076 T-3	97 07 28.3	20 30.98	-19 46.5	16.2	-1.14	+ 1.0	0.4/28.3	28893
1992 DJ ₈	97 07 28.5	20 31.76	-12 05.9	18.5	-0.93	- 3.7	2.5/30.0	25650
1981 EJ ₂	97 07 28.7	20 32.30	-05 08.3	17.7	-0.85	0.0	5.5/31.2	26914
1993 FB ₁₈	97 07 28.8	20 32.78	-23 41.1	15.5	-0.91	- 6.6	2.5/27.6	29662
1990 SC ₄	97 07 29.0	20 33.80	+12 37.5	17.5	-0.93	- 4.8	11.2/05.5	24912
1986 QP ₂	97 07 29.1	20 34.06	-18 34.2	16.5	-0.78	- 3.9	0.1/29.2	27119
1993 FA ₂₇	97 07 29.2	20 34.27	-06 01.4	15.3	-0.83	- 2.4	7.0/31.9	30291
1995 BQ ₃	97 07 29.2	20 34.36	-12 23.0	16.9	-0.87	- 6.5	2.3/30.8	30093
1214 T-3	97 07 29.2	20 34.50	-24 00.6	16.7	-0.93	- 0.5	1.8/28.3	22972
1996 JN ₆	97 07 29.3	20 34.78	-19 24.9	17.2	-0.83	- 4.0	0.2/29.2	29925
1996 HV ₂₄	97 07 29.4	20 35.15	-06 50.2	17.9	-0.78	- 2.8	3.8/01.0	30094
1992 SB ₁	97 07 29.4	20 35.26	-42 29.0	15.6	-1.10	+ 0.6	8.3/24.8	23519
(7400)	97 07 29.4	20 35.26	-16 49.6	16.5	-0.82	- 3.7	0.7/29.9	28826
1996 HT ₁₄	97 07 29.7	20 36.33	-19 17.0	17.4	-0.78	- 3.4	0.2/29.6	29947
1981 EH ₆	97 07 29.7	20 36.54	-14 41.9	20.9	-0.81	- 2.6	1.0/30.6	26915
(7349)	97 07 29.8	20 36.53	-19 04.2	17.2	-0.89	- 4.3	0.2/29.7	28575
1995 DH	97 07 29.8	20 36.54	+02 59.3	16.4	-0.86	-11.5	7.7/05.2	24908
1981 EJ ₃₅	97 07 29.8	20 36.54	-13 18.0	20.8	-0.95	- 4.8	1.8/31.0	22271
(6994)	97 07 29.9	20 36.95	-19 40.3	16.7	-0.82	- 2.9	0.4/29.7	27696
2203 T-2	97 07 30.2	20 38.18	-06 58.4	20.2	-0.89	- 4.5	4.3/01.8	27564
1994 TM ₁₄	97 07 30.2	20 38.28	-08 28.4	16.7	-0.95	- 4.4	3.9/01.5	30093
1995 CD ₂	97 07 30.2	20 38.40	+12 35.8	17.4	-0.75	- 0.9	9.3/06.7	30277
2079 P-L	97 07 30.2	20 38.44	-22 38.5	17.3	-0.92	- 2.0	1.4/29.4	27938

(6948)	97 07 30.4	20 39.08	-22 35.6	17.9	-1.02	- 3.6	1.5/29.6	27090
2679 P-L	97 07 30.4	20 39.24	-13 58.2	17.9	-0.88	- 6.1	2.3/31.6	27116
2030 T-2	97 07 30.5	20 39.29	-22 18.9	19.1	-0.98	- 3.0	1.6/29.7	17977
1975 SR	97 07 30.6	20 39.66	-13 42.7	17.0	-0.87	- 4.0	2.4/31.7	27118
1996 BL ₁₇	97 07 30.6	20 40.04	-26 27.4	16.9	-1.08	- 5.9	3.3/28.8	27568
(6868)	97 07 30.7	20 40.02	-19 03.2	16.4	-0.91	- 4.7	0.2/30.6	26733
1981 ES ₂₈	97 07 30.8	20 40.47	-26 26.0	19.2	-1.06	- 2.6	2.9/29.2	26920
6328 P-L	97 07 30.8	20 40.54	-22 49.1	18.0	-0.97	- 2.9	1.6/29.9	27328
1977 DF ₂	97 07 31.0	20 41.44	-25 11.1	17.4	-0.94	- 2.4	2.4/29.6	28610
1993 FD ₁₉	97 07 31.1	20 41.89	-16 09.7	16.4	-0.99	- 7.5	0.9/31.7	26742
1990 SN ₆	97 07 31.2	20 42.30	-19 09.4	15.6	-0.93	- 6.6	0.4/31.0	27119
1987 DH ₆	97 07 31.3	20 42.55	-16 31.7	16.5	-0.90	- 3.0	0.7/31.7	30288
1993 TZ ₁₆	97 07 31.4	20 43.05	-11 16.2	18.0	-0.83	- 4.7	2.7/02.1	23240
1996 GG ₂₀	97 07 31.4	20 43.12	-17 28.7	16.2	-0.83	- 4.2	0.3/31.7	28890
1994 TN ₃	97 07 31.4	20 43.12	-21 14.0	18.9	-1.02	- 3.7	1.1/30.8	27327
1996 BD ₂	97 07 31.5	20 43.40	-21 19.3	17.6	-1.08	- 3.6	1.5/30.9	29139
1996 HT ₁₇	97 07 31.5	20 43.41	-17 02.6	17.4	-0.83	- 4.0	0.4/31.8	30293
1981 EU ₄₁	97 07 31.6	20 43.63	-14 40.7	19.3	-0.99	- 4.0	1.3/01.4	24557
1996 GC ₁₈	97 07 31.7	20 43.89	-18 14.4	17.7	-0.90	- 3.8	0.0/31.7	28862
(7037)	97 07 31.7	20 43.94	-09 21.4	15.6	-0.83	- 0.6	2.8/02.5	27300
4157 T-3	97 07 31.7	20 43.95	-12 15.2	17.6	-0.98	- 6.0	2.3/02.1	27124
1993 JX	97 07 31.8	20 44.30	-09 23.5	18.2	-0.99	- 3.6	3.5/02.7	22958
1995 YN ₃	97 07 31.8	20 44.31	-12 05.9	16.6	-1.08	- 1.5	2.6/02.0	26761
1990 YX	97 07 31.9	20 44.98	-25 30.0	18.3	-1.01	- 2.8	2.6/30.4	29134
1992 RJ ₅	97 07 31.9	20 45.09	-22 09.3	16.9	-0.83	- 4.1	1.5/31.0	27729
1990 SS ₉	97 08 01.0	20 45.46	-21 24.8	17.4	-1.03	- 5.2	1.3/31.3	27567
1994 YX	97 08 01.1	20 45.43	-15 24.7	17.4	-0.96	- 2.2	1.0/01.6	24752
1991 GA ₆	97 08 01.1	20 45.47	-17 24.7	16.9	-0.85	- 3.0	0.2/01.2	28316
1991 TD ₆	97 08 01.1	20 45.66	-14 33.1	17.9	-1.08	- 3.1	1.5/01.9	24390
1996 EU ₃	97 08 01.1	20 45.71	-29 44.3	17.0	-1.11	- 0.4	5.4/30.0	27719
(6855)	97 08 01.3	20 46.23	-23 29.1	16.1	-1.14	+ 0.2	2.5/31.4	26730
(7686)	97 08 01.3	20 46.66	-24 12.3	16.8	-1.12	- 2.3	2.6/31.2	29908
3398 T-3	97 08 01.4	20 46.87	-16 22.8	17.0	-1.02	- 5.1	0.7/01.8	27732
1989 SA	97 08 01.6	20 47.84	-36 49.6	16.1	-1.01	- 8.1	7.6/27.0	22081
(7011)	97 08 01.8	20 48.36	-27 30.9	16.7	-1.15	- 2.9	4.2/30.8	27293
2237 T-2	97 08 01.8	20 48.45	-10 29.5	17.7	-0.88	- 4.2	3.1/03.6	23988
1991 VF ₂	97 08 01.8	20 48.54	-08 03.0	17.7	-1.00	- 4.1	3.8/04.0	27325
1993 FO ₄₀	97 08 01.8	20 48.63	-21 33.2	16.5	-1.07	- 4.7	1.7/01.1	29944
(6818)	97 08 01.9	20 48.76	-24 59.7	16.8	-1.12	- 3.4	2.9/31.4	26550
1990 TU ₁₁	97 08 02.0	20 49.21	-19 32.2	17.9	-1.00	- 3.2	0.6/01.7	28614
3064 T-1	97 08 02.5	20 51.16	-17 23.5	17.4	-1.01	- 4.0	0.1/02.6	26754
(6837)	97 08 02.6	20 51.47	-30 20.8	16.9	-1.00	- 1.2	3.9/31.0	26555
(6959)	97 08 02.8	20 52.23	-35 15.3	15.2	-1.07	+ 0.6	6.7/30.4	27093
1992 RT ₇	97 08 02.8	20 52.39	-17 33.3	16.0	-0.87	- 1.3	0.0/02.9	28317
1996 HR	97 08 03.0	20 52.90	-24 44.4	17.9	-0.90	- 4.8	2.5/01.2	30293
2496 T-3	97 08 03.0	20 53.13	-04 31.4	17.1	-0.78	- 3.2	4.3/06.2	16038
1993 TO ₁₅	97 08 03.3	20 54.09	-14 12.3	18.0	-0.86	- 3.9	1.2/04.0	30291
1990 UO ₂	97 08 03.5	20 54.89	+25 58.2	16.2	-1.01	+ 3.6	18.6/10.7	22494
5192 T-3	97 08 03.7	20 55.52	-32 21.4	18.0	-0.88	- 4.5	4.6/30.8	27458
1992 EN ₁₇	97 08 03.7	20 55.65	-21 52.5	18.4	-1.03	- 4.6	1.7/02.7	27309
1992 AO ₂	97 08 03.8	20 56.04	-20 35.8	17.2	-0.95	- 7.2	1.2/03.0	28886

1990 QB	97 08 03.9	20 56.28	-35 17.8	15.9	-1.65	+ 6.8	8.5/01.8	27325
1996 DP	97 08 03.9	20 56.64	-17 10.9	16.9	-0.92	- 4.4	9.1/24.0	30292
1993 VG ₁	97 08 04.0	20 57.02	-34 39.1	15.8	-0.99	- 6.7	6.7/30.0	27558
4129 T-2	97 08 04.0	20 57.12	-27 05.7	17.0	-1.10	- 3.0	4.4/02.0	27732
1985 UO ₃	97 08 04.3	20 57.93	-54 52.3	17.4	-1.42	- 0.7	13.6/25.2	27119
1994 LT	97 08 04.4	20 58.40	-53 55.6	16.9	-1.31	-16.1	17.5/20.0	24409
1997 MB ₉	97 08 04.5	20 58.61	-10 11.0	17.3	-0.94	+ 2.3	2.2/05.7	30284
1164 T-3	97 08 04.5	20 58.77	+00 02.3	17.9	-0.80	- 1.8	6.0/08.6	30286
1981 EY ₁₉	97 08 04.6	20 59.04	-15 43.4	17.0	-0.84	- 3.3	0.5/04.9	28314
1982 BM	97 08 04.6	20 59.08	-16 41.0	17.5	-0.90	- 2.8	0.1/04.7	28883
1989 AN ₅	97 08 04.7	20 59.40	-17 53.3	18.1	-0.77	- 6.1	0.3/04.5	30272
(6976)	97 08 04.7	20 59.58	-28 12.6	15.1	-0.91	- 8.8	5.3/01.4	27096
1982 SP ₆	97 08 04.7	20 59.75	-29 37.6	16.7	-0.95	- 1.4	4.1/02.0	29654
1994 UC ₂	97 08 04.9	21 00.45	-08 24.2	17.3	-1.02	- 3.0	3.6/06.8	28617
1993 QN	97 08 05.0	21 00.55	-19 10.7	14.2	-1.78	+16.7	1.1/05.0	22817
1996 GJ ₁₉	97 08 05.0	21 00.88	-14 42.4	17.9	-0.82	- 4.0	0.8/05.6	30293
1995 BW	97 08 05.1	21 00.93	-21 47.2	16.5	-0.91	- 3.5	1.7/04.0	27568
4511 P-L	97 08 05.1	21 01.03	-11 08.1	19.8	-0.96	- 6.9	2.6/06.6	27123
1989 SZ ₂	97 08 05.3	21 01.68	-02 33.2	17.3	-0.80	- 7.2	6.0/09.0	30289
1990 TG ₁₃	97 08 05.3	21 01.97	-34 02.9	18.4	-1.09	- 5.4	6.0/31.8	29658
1993 TQ	97 08 05.3	21 01.98	-31 10.4	15.8	-0.93	- 5.7	6.0/01.3	25441
1985 SM ₂	97 08 05.4	21 02.15	+00 54.5	16.5	-0.87	- 3.0	6.1/09.8	27324
(7067)	97 08 05.4	21 02.29	-34 38.7	16.0	-0.92	- 4.0	5.8/31.7	27440
1991 CL	97 08 05.4	21 02.42	-18 26.3	16.5	-0.83	- 7.5	0.5/05.0	28845
1992 UM ₉	97 08 05.5	21 02.58	-08 36.0	16.4	-0.73	- 4.6	2.8/07.7	27310
3089 T-1	97 08 05.5	21 02.64	-13 38.0	18.5	-1.00	- 3.8	1.3/06.3	30285
1990 QO ₅	97 08 05.5	21 02.76	-19 49.1	16.9	-0.95	- 4.6	1.4/04.8	24761
1993 LZ ₁	97 08 05.5	21 02.83	-09 45.3	15.8	-0.99	- 1.1	3.2/07.0	27455
1989 ET ₁	97 08 05.6	21 03.02	-27 36.6	16.8	-1.10	- 3.9	4.1/03.1	27103
1989 WU ₄	97 08 05.7	21 03.45	-13 11.8	18.1	-0.89	- 2.8	1.3/06.6	30273
1977 EM ₅	97 08 05.8	21 04.01	-04 27.6	16.7	-0.90	- 7.1	5.2/09.0	27930
1996 KO ₁	97 08 05.9	21 04.40	-12 20.3	17.9	-0.92	- 5.8	1.6/07.1	27453
1994 WP ₁	97 08 06.0	21 04.51	-13 02.6	19.0	-0.92	- 3.1	1.2/06.9	30276
6761 P-L	97 08 06.0	21 04.68	-07 20.1	18.1	-0.73	- 5.1	2.8/08.6	22087
(7017)	97 08 06.1	21 04.90	-18 38.1	17.5	-0.93	- 6.6	0.7/05.6	27295
1989 TA ₁₆	97 08 06.2	21 05.43	-12 12.8	16.7	-0.85	- 3.5	2.0/07.4	30289
1993 YO	97 08 06.2	21 05.49	-30 41.2	18.2	-0.81	- 6.1	4.1/02.2	27456
1993 XS	97 08 06.2	21 05.49	-19 31.2	18.5	-0.77	- 3.6	0.8/05.6	28589
4161 T-1	97 08 06.2	21 05.53	+03 40.3	15.8	-0.74	- 8.7	8.5/12.9	29142
1981 EQ ₅	97 08 06.3	21 05.95	-10 54.4	19.2	-0.97	- 3.3	2.0/07.7	26915
3178 T-2	97 08 06.4	21 06.14	-21 40.9	17.7	-0.87	- 3.4	1.8/05.2	27323
1990 OW ₂	97 08 06.5	21 06.31	-29 07.0	16.5	-1.02	- 7.3	5.5/02.9	29657
1991 LU ₁	97 08 06.6	21 06.86	-07 47.6	18.0	-0.77	- 3.6	2.9/08.9	27556
1993 SQ ₂	97 08 06.8	21 07.47	+01 51.0	16.0	-0.69	- 9.9	8.0/13.1	29137
1995 BA ₃	97 08 06.8	21 07.63	-18 29.6	17.7	-0.86	- 3.9	0.6/06.3	28889
1997 NH	97 08 07.0	21 08.60	-14 15.6	19.1	-0.90	- 5.5	0.8/07.7	30284
1990 ST ₈	97 08 07.1	21 08.85	-24 09.5	17.5	-0.90	- 4.2	3.9/05.2	21974
1991 FN	97 08 07.1	21 08.94	-51 32.4	16.2	-1.90	+ 4.4	16.3/01.5	26420
(6968)	97 08 07.2	21 09.03	-19 40.6	16.8	-1.05	- 4.6	1.3/06.4	27095
1982 DW ₃	97 08 07.2	21 09.07	-16 57.1	16.8	-1.00	- 6.1	0.2/07.1	29654
1984 QM	97 08 07.3	21 09.42	-17 16.9	15.2	-0.97	- 0.7	0.5/07.1	27305

(6911)	97 08 07.4	21 09.81	+29 09.3	14.7	-0.91	- 4.6	21.9/25.6	26892
2127 T-2	97 08 07.6	21 10.82	-16 53.2	18.4	-0.94	- 3.2	0.2/07.5	22088
1993 SG ₁	97 08 07.8	21 11.22	+02 24.5	15.3	-0.60	-11.3	9.0/14.6	30291
(6992)	97 08 07.8	21 11.34	-18 43.7	14.9	-0.76	- 7.2	0.9/07.1	27100
1993 VV ₄	97 08 07.9	21 11.62	-27 43.4	17.4	-0.83	- 5.0	3.6/04.7	27447
1996 JS ₅	97 08 07.9	21 11.74	-12 55.7	17.8	-0.75	- 4.6	1.1/08.8	30278
1994 UP ₁₁	97 08 08.0	21 12.05	-21 41.8	15.6	-1.03	- 6.0	2.5/06.6	28888
1995 DB ₁	97 08 08.1	21 12.49	-31 13.2	17.1	-0.91	- 2.7	4.6/04.3	27456
1991 TX ₄	97 08 08.1	21 12.75	-23 13.2	17.7	-1.13	- 3.0	2.8/06.6	29943
1989 AK ₆	97 08 08.2	21 12.96	-18 56.5	18.2	-0.75	- 5.7	0.9/07.4	27443
1992 RM ₇	97 08 08.3	21 13.14	-19 25.0	18.2	-0.81	- 3.8	1.0/07.4	23134
1997 MR ₈	97 08 08.3	21 13.15	-17 37.4	18.0	-0.88	- 9.5	0.6/07.8	30284
1988 VR ₂	97 08 08.3	21 13.28	-30 04.6	17.9	-0.88	- 5.5	3.9/04.3	23133
1996 HH ₁	97 08 08.5	21 14.18	-16 40.1	17.7	-1.01	- 6.7	0.3/08.4	27318
1995 CW ₁	97 08 08.7	21 14.82	+25 29.0	17.9	-0.80	- 1.9	15.0/22.1	25432
4028 P-L	97 08 08.8	21 15.12	-04 44.4	18.1	-0.87	- 4.6	4.0/11.7	22971
1993 KP	97 08 08.8	21 15.35	-10 24.3	15.8	-0.88	- 6.1	2.6/10.4	22827
(6845)	97 08 08.8	21 15.48	-23 16.4	15.5	-0.96	- 7.7	3.4/06.8	26727
(6995)	97 08 08.8	21 15.50	-24 06.0	16.7	-0.96	- 4.2	3.4/06.9	29586
1994 PZ	97 08 08.9	21 15.43	-14 13.9	15.9	-0.87	- 7.3	0.9/09.4	30291
1978 QC ₃	97 08 08.9	21 15.52	-16 50.1	15.8	-0.81	- 7.7	0.3/08.7	30287
(6917)	97 08 09.1	21 16.23	-12 19.6	16.8	-0.99	- 6.3	1.5/10.0	26894
1987 SQ ₁₇	97 08 09.1	21 16.58	-22 02.9	14.3	-1.03	+ 0.3	3.3/07.9	16026
(6809)	97 08 09.1	21 16.65	-23 27.9	15.9	-1.08	- 2.1	3.2/07.5	26548
(7462)	97 08 09.3	21 17.07	-18 40.2	16.8	-1.10	- 2.4	1.1/08.7	29079
1986 RP ₅	97 08 09.3	21 17.24	-36 20.5	16.6	-1.01	- 1.3	6.9/04.0	26166
(7095)	97 08 09.7	21 18.66	-17 06.3	17.6	-0.78	- 4.7	0.5/09.4	27550
1989 TT	97 08 09.8	21 18.89	+02 18.3	16.8	-0.79	-10.3	7.4/15.6	29657
2241 T-3	97 08 09.8	21 19.12	-14 49.2	20.0	-0.94	- 3.4	0.3/10.1	30286
2546 P-L	97 08 09.8	21 19.17	+02 06.1	17.8	-0.81	- 7.0	6.2/15.2	27732
1988 CO ₁	97 08 10.4	21 21.17	-16 49.6	17.0	-0.96	- 6.1	0.5/10.0	27727
1989 EE	97 08 10.5	21 21.64	+01 03.1	18.8	-0.68	- 7.0	3.9/15.7	21107
(7186)	97 08 10.8	21 22.71	-08 52.0	16.3	-1.03	- 1.7	2.4/12.3	27901
6742 P-L	97 08 10.9	21 23.24	-18 37.4	19.2	-1.03	- 5.6	1.3/10.1	20347
1979 MS ₂	97 08 11.0	21 23.73	-10 48.4	18.3	-0.95	- 5.0	2.0/12.3	24383
1979 QT ₁	97 08 11.2	21 24.16	-13 56.1	15.9	-0.97	- 5.3	0.6/11.6	24383
1981 EJ ₃₁	97 08 11.2	21 24.35	-10 52.9	19.5	-0.91	- 6.5	1.7/12.5	26921
(7009)	97 08 11.3	21 24.68	-14 00.3	16.5	-0.96	- 5.0	0.6/11.6	27293
1982 TS ₁	97 08 11.5	21 25.39	-01 39.9	16.7	-0.78	- 2.7	4.4/15.1	27442
1994 YA ₂	97 08 11.5	21 25.45	-41 16.2	17.6	-1.31	+ 1.8	9.1/06.1	29663
1994 UJ	97 08 11.6	21 25.87	-23 05.5	16.1	-0.94	- 5.7	4.0/09.4	29663
1981 EJ ₂₂	97 08 11.7	21 26.40	-05 30.8	16.7	-0.74	- 7.5	4.6/14.8	22492
1986 JC	97 08 11.8	21 26.79	-26 17.4	15.5	-0.80	- 9.0	5.7/08.2	26924
1994 TL ₃	97 08 11.8	21 26.83	+02 53.1	17.6	-0.92	- 4.4	7.9/16.7	30092
1996 JK	97 08 11.9	21 26.85	-26 42.8	15.3	-0.81	- 6.5	4.0/08.3	27457
1981 EK ₂₅	97 08 11.9	21 26.90	-14 18.7	16.2	-0.91	- 2.8	0.3/12.1	30287
(7315)	97 08 11.9	21 27.23	-12 04.7	17.1	-0.88	- 5.2	1.0/12.8	28292
1994 SQ ₇	97 08 12.0	21 27.51	-16 35.7	18.7	-1.02	- 5.1	0.6/11.7	24584
3033 T-2	97 08 12.0	21 27.61	-19 29.9	17.0	-0.84	- 4.4	1.6/10.9	27939
1992 SF ₁₁	97 08 12.2	21 28.33	-13 35.7	18.4	-0.73	- 3.8	0.4/12.7	25331
1996 DY ₁	97 08 12.3	21 28.36	-17 03.3	17.8	-1.00	- 5.9	0.8/11.7	27316

1989 WD ₃	97 08 12.3	21 28.44	-07 04.6	18.2	-0.84	- 3.7	2.5/14.4	18632
2723 P-L	97 08 12.6	21 29.67	-10 16.1	18.8	-0.96	- 6.3	1.8/14.0	26414
1995 CH	97 08 12.7	21 29.89	-17 57.1	18.1	-0.83	- 9.1	1.1/11.7	30277
1993 UZ ₂	97 08 12.7	21 29.90	-56 14.3	17.6	-1.26	-10.5	14.7/25.0	23126
1978 VE ₁₁	97 08 12.7	21 30.07	-03 43.7	17.9	-1.00	- 4.1	4.5/15.6	29653
(6988)	97 08 12.7	21 30.12	-09 14.4	16.5	-0.90	- 4.7	2.1/14.3	27099
1981 DJ ₃	97 08 12.8	21 30.59	-08 22.6	19.9	-0.85	- 2.6	2.0/14.5	26914
1981 EG ₅	97 08 12.9	21 30.67	-15 00.0	15.4	-1.06	+ 1.1	0.1/12.9	25647
1978 UP ₂	97 08 12.9	21 30.74	-34 47.5	15.3	-1.11	- 1.0	10.3/08.0	29939
1993 FJ ₅₀	97 08 12.9	21 30.80	-16 12.5	16.3	-1.07	- 4.0	0.6/12.6	26927
1981 ES ₄₀	97 08 13.0	21 31.05	-04 46.2	19.0	-0.83	- 5.6	3.3/15.8	26922
5193 T-3	97 08 13.1	21 31.53	-10 55.9	16.8	-0.75	- 8.1	1.2/14.3	22702
1987 SZ ₂	97 08 13.5	21 33.04	-28 35.6	16.8	-1.12	- 2.9	6.4/09.9	28613
1995 BS ₁	97 08 13.6	21 33.62	-17 00.6	15.9	-0.83	-11.0	0.9/12.8	29106
1990 QZ ₈	97 08 13.8	21 33.96	-15 51.0	18.0	-0.96	- 6.1	0.5/13.4	21974
1996 HW	97 08 13.9	21 34.36	-39 08.6	16.6	-1.16	- 0.7	9.4/07.7	27457
1993 RQ ₅	97 08 14.0	21 34.95	-06 50.2	17.4	-0.81	- 5.8	2.5/16.3	28317
1990 VG ₆	97 08 14.2	21 35.86	-09 10.4	16.7	-0.85	- 6.8	1.7/15.8	24564
1996 CY ₂	97 08 14.3	21 36.23	-17 46.6	17.0	-1.01	- 5.9	1.4/13.4	27112
1981 EC ₂₆	97 08 14.4	21 36.30	-15 58.6	19.6	-0.97	- 4.4	0.6/14.0	27118
(6965)	97 08 14.5	21 36.66	-16 18.4	16.2	-0.88	- 7.1	0.8/13.9	27094
1995 DL ₁	97 08 14.5	21 36.76	-39 12.0	19.0	-0.85	- 3.9	5.7/06.9	27568
1991 GZ ₉	97 08 14.5	21 36.81	-06 56.5	18.2	-0.84	- 2.9	2.1/16.5	22700
1990 VB ₁₄	97 08 14.6	21 37.23	-12 46.4	16.7	-0.98	- 4.1	0.6/15.0	24912
1981 EE ₃₈	97 08 14.7	21 37.37	-13 44.3	18.6	-0.86	- 3.5	0.2/14.8	21967
1982 DP ₁	97 08 14.9	21 38.17	-24 39.2	17.8	-1.07	- 4.6	4.0/12.1	29654
1976 SR ₅	97 08 15.0	21 38.50	-27 54.0	16.9	-1.09	- 3.6	5.7/11.3	29652
(6856)	97 08 15.0	21 38.54	-12 53.0	16.0	-0.99	- 4.3	0.5/15.3	26730
(6916)	97 08 15.1	21 39.00	-08 54.3	14.7	-1.14	+ 4.2	2.2/16.0	26893
1989 AT	97 08 15.1	21 39.03	-26 58.1	16.7	-0.80	- 6.1	3.7/11.1	27324
1988 CU ₁	97 08 15.2	21 39.38	-14 51.0	17.4	-0.96	- 4.2	0.3/15.0	27102
(7001)	97 08 15.3	21 39.63	-11 59.2	16.0	-0.91	- 7.9	0.8/15.9	27291
1990 RW ₈	97 08 15.3	21 39.87	-04 01.6	16.8	-0.94	+ 0.3	5.2/17.6	27711
1981 EN ₁₆	97 08 15.4	21 40.15	-14 37.9	19.7	-1.03	- 2.2	0.2/15.3	21967
3176 T-3	97 08 15.4	21 40.18	-14 36.8	17.9	-0.78	- 3.9	0.2/15.3	27569
1992 JS ₂	97 08 15.5	21 40.44	+07 16.5	16.4	-0.81	- 5.9	8.0/22.3	27729
4064 T-2	97 08 15.5	21 40.51	-05 24.6	17.4	-0.89	- 8.2	3.4/18.2	27328
1971 UD ₁	97 08 15.5	21 40.66	-16 10.5	16.7	-0.97	- 5.8	1.1/14.9	29939
(7172)	97 08 15.7	21 41.44	-17 52.2	17.2	-0.94	- 5.4	1.4/14.7	27898
1995 DR ₆	97 08 15.8	21 41.59	-17 11.5	17.0	-0.78	- 3.6	1.3/14.9	28087
1990 WD ₂	97 08 16.0	21 42.53	-21 33.9	17.5	-0.92	- 6.6	2.8/13.7	29134
1989 CX ₂	97 08 16.1	21 42.80	-02 32.8	17.0	-0.80	- 2.0	3.8/19.0	27728
(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
1983 PX	97 08 16.5	21 44.10	+01 01.0	15.7	-0.64	- 7.4	6.6/21.6	27726

1978 RE ₃	97 08 16.6	21 44.55	-12 25.9	17.1	-0.94	- 3.8	0.5/16.9	22967
(6969)	97 08 16.7	21 45.10	-12 24.5	15.7	-0.94	- 9.0	0.5/17.1	27095
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
9062 P-L	97 08 17.3	21 47.09	-08 36.9	16.5	-0.87	- 4.2	2.0/18.6	27321
1994 TC ₃	97 08 17.3	21 47.40	-11 07.3	15.9	-0.87	- 4.8	1.2/18.0	24914
(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 47.96	+05 48.6	15.5	-0.77	- 7.8	7.7/23.9	27123
1981 EV ₄₅	97 08 17.6	21 48.22	-10 54.6	18.7	-0.83	- 3.3	0.9/18.3	20811
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 17.8	21 48.92	-14 52.4	16.1	-0.91	- 4.3	0.7/17.3	27725
1981 EJ ₃₇	97 08 17.8	21 49.38	-14 28.7	19.3	-1.04	- 2.2	0.5/17.6	26922
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
1992 WY ₄	97 08 18.2	21 50.60	+19 53.7	16.1	-1.23	+ 2.3	15.3/25.7	27936
1989 GH ₄	97 08 18.4	21 51.32	-17 12.4	17.0	-1.04	- 2.7	1.8/17.4	28613
1989 AS ₁	97 08 18.4	21 51.44	-18 14.8	16.5	-1.03	- 5.1	2.0/17.0	28315
2777 P-L	97 08 18.5	21 51.77	-11 35.1	16.2	-0.89	- 6.6	0.6/19.0	29668
1990 QC ₆	97 08 18.5	21 51.85	-14 02.1	16.7	-0.98	- 5.4	0.5/18.3	27307
(6889)	97 08 18.6	21 51.92	-23 01.5	15.1	-0.81	- 6.5	5.3/15.4	26887
1992 EW ₇	97 08 18.6	21 52.03	-10 32.3	15.5	-0.87	- 4.6	1.1/19.3	27729
1993 HH ₁	97 08 18.6	21 52.11	-12 08.0	16.4	-1.00	- 5.0	10.2/08.0	29944
1979 SU ₂	97 08 18.6	21 52.13	-02 21.7	16.0	-0.91	- 4.4	4.6/21.6	21965
1981 EK ₁₁	97 08 18.6	21 52.31	+04 29.4	16.9	-0.87	- 5.6	7.8/23.9	27303
(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	27935
1975 SJ ₁	97 08 18.8	21 52.65	+03 30.7	18.0	-0.69	- 6.0	5.0/24.3	27929
1991 CU	97 08 18.8	21 52.66	-14 30.0	15.1	-0.79	- 9.5	0.6/18.3	29613
1083 T-3	97 08 18.8	21 52.81	-11 45.2	18.6	-0.97	- 2.5	9.6/30.0	25337
1985 QP ₅	97 08 18.8	21 53.11	-28 24.3	16.4	-1.16	+ 1.7	6.5/15.6	28315
1981 RF ₇	97 08 19.1	21 54.06	-20 17.6	16.1	-0.95	- 0.2	3.2/17.3	24581
9515 P-L	97 08 19.2	21 54.13	-19 16.5	17.1	-0.92	- 4.6	5.5/17.3	28892
1993 TU ₃₈	97 08 19.2	21 54.27	-19 20.1	17.4	-0.83	- 5.5	2.2/17.2	29662
1993 OG ₁₃	97 08 19.2	21 54.37	-11 30.1	17.2	-0.98	- 4.4	0.5/19.6	25082
1993 US	97 08 19.3	21 54.89	-11 31.7	16.8	-0.82	- 5.3	0.4/19.7	29318
2116 T-2	97 08 19.4	21 54.98	-13 20.8	18.1	-0.99	- 5.2	0.2/19.2	28892
1989 SY ₁₃	97 08 19.6	21 55.65	-02 04.1	18.1	-0.92	- 1.7	3.4/22.3	29134
1981 EE ₂₈	97 08 19.6	21 56.00	-16 19.1	17.0	-0.84	- 4.0	1.3/18.6	27726
1996 JL	97 08 19.6	21 56.03	+01 12.5	16.8	-0.77	- 5.8	5.2/24.0	27319
(6808)	97 08 19.7	21 55.99	-24 43.1	16.2	-1.12	- 2.6	5.1/16.7	26548
1994 YN ₁	97 08 19.7	21 56.18	-19 54.9	16.6	-0.91	- 5.7	3.3/17.5	27122
1981 EJ ₄₇	97 08 19.7	21 56.25	-08 36.1	19.9	-0.87	- 7.6	1.5/21.0	26923
1994 SB	97 08 20.0	21 57.41	-06 38.8	15.9	-1.06	- 3.1	2.3/21.6	30292
1994 VT	97 08 20.1	21 57.90	-12 55.7	17.8	-0.97	- 4.4	0.2/20.1	28888
1991 GX ₇	97 08 20.2	21 57.82	-22 09.5	17.1	-0.97	- 2.0	3.5/17.6	22814
1994 YX ₁	97 08 20.2	21 57.87	-16 09.1	17.3	-0.87	- 3.7	1.3/19.2	28889
1992 RX ₆	97 08 20.2	21 58.19	-23 07.7	17.1	-0.89	- 1.9	3.5/17.4	29660
1992 EV ₁₅	97 08 20.3	21 58.21	-11 19.5	17.8	-0.95	- 5.9	0.4/20.6	27729

9072 P-L	97 08 20.4	21 58.66	-03 23.2	18.3	-0.79	- 5.3	3.0/23.2	27321	1989 SE	97 08 23.3	22 09.62	-22 47.4	16.0	-0.95	+ 1.2	6.0/20.5	29657
1996 JU	97 08 20.4	21 58.83	-04 17.7	17.7	-0.87	-12.7	2.6/23.3	28077	1993 VL ₃	97 08 23.4	22 09.64	-15 57.9	17.0	-0.80	- 4.9	1.5/22.0	27447
1996 JJ ₁	97 08 20.4	21 58.89	-05 04.5	17.6	-0.72	- 6.9	2.4/22.9	27562	1991 GB ₁	97 08 23.4	22 10.00	-50 27.4	16.5	-1.85	+ 6.0	18.9/15.5	26757
(6857)	97 08 20.6	21 59.51	-05 32.2	15.9	-1.11	- 0.7	3.0/22.2	26730	3178 T-3	97 08 23.5	22 10.22	-12 27.8	18.5	-0.80	- 4.4	0.4/23.2	25337
1993 OY ₂	97 08 20.7	22 00.00	-28 57.2	16.9	-1.28	+ 6.3	7.9/18.1	26903	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 DD	97 08 20.8	22 00.34	-16 40.2	16.8	-1.03	- 5.2	1.9/19.6	30278	1979 QC ₁	97 08 23.8	22 11.11	-09 13.7	15.9	-1.17	+ 2.3	0.9/24.0	21965
1981 EW ₁₁	97 08 20.8	22 00.35	-09 43.8	20.3	-0.94	- 5.0	0.9/21.6	26917	(6957)	97 08 23.8	22 11.54	-09 25.1	16.6	-0.88	- 5.3	0.6/24.4	27092
1993 HL ₆	97 08 20.9	22 00.80	+00 30.3	16.5	-0.97	- 6.9	5.0/24.9	28888	1989 UG ₃	97 08 23.9	22 11.61	-18 58.5	16.6	-0.89	- 5.9	3.0/21.5	30289
1994 WU ₁	97 08 21.0	22 00.92	-00 12.6	16.8	-0.71	-13.8	5.0/25.7	27327	1996 GR ₂₀	97 08 23.9	22 11.89	-15 42.8	17.6	-0.77	- 4.4	1.4/22.6	28890
1993 OA ₇	97 08 21.1	22 01.16	-15 38.2	17.1	-0.93	- 6.2	1.3/20.1	27730	(7005)	97 08 24.0	22 11.87	-04 59.9	16.8	-0.83	- 8.0	2.5/26.0	27292
(7274)	97 08 21.1	22 01.53	-29 05.0	17.0	-1.15	- 1.9	6.7/16.9	28283	1996 GE ₂₀	97 08 24.2	22 12.84	-19 08.1	16.8	-0.86	- 4.8	3.0/21.8	27560
1996 GM ₂₀	97 08 21.2	22 01.58	-13 25.2	17.5	-0.78	- 4.2	0.4/20.8	28863	1996 CJ ₁	97 08 24.2	22 12.89	-17 48.5	18.7	-1.02	- 5.3	2.5/22.3	27123
1993 TX	97 08 21.3	22 02.23	-35 58.9	15.3	-1.01	- 2.4	11.1/13.5	30291	1996 HW ₂₀	97 08 24.2	22 12.99	-11 21.5	16.9	-0.72	- 5.0	0.1/24.2	27938
1986 QO ₂	97 08 21.3	22 02.23	-13 31.4	15.6	-0.74	- 4.8	0.5/20.9	27324	1981 ES ₁₀	97 08 24.3	22 13.06	-05 27.4	19.5	-0.96	- 4.4	2.2/25.9	22270
1987 UU ₄	97 08 21.3	22 02.26	-23 34.5	17.3	-1.05	- 4.8	4.3/18.1	27566	1994 XB ₅	97 08 24.4	22 13.32	+02 45.2	20.1	-0.87	- 5.4	4.5/28.6	25084
1990 EN ₄	97 08 21.4	22 02.29	-14 07.3	18.1	-0.85	- 2.2	0.7/20.8	25440	1981 EG ₂₂	97 08 24.4	22 13.33	-16 52.7	18.7	-1.08	- 1.6	2.2/23.0	26919
1993 KQ ₂	97 08 21.5	22 02.66	-23 49.8	17.5	-0.95	-14.8	4.4/17.2	26759	1981 EU ₂₅	97 08 24.4	22 13.48	-07 22.0	16.6	-0.75	- 8.6	1.7/25.7	26919
1995 DK ₁	97 08 21.5	22 02.69	-16 38.0	16.0	-0.70	- 6.4	1.2/20.0	27937	(7029)	97 08 24.4	22 13.54	-07 36.6	15.9	-0.67	- 6.8	1.0/25.6	27298
1995 BH ₁	97 08 21.5	22 02.80	-10 55.1	17.3	-0.93	- 3.9	0.5/21.8	27109	1991 FG	97 08 24.4	22 13.61	+04 15.8	18.8	-0.75	- 5.7	3.9/29.5	27934
1981 UZ ₉	97 08 21.5	22 03.05	-25 24.0	16.4	-1.16	- 5.1	5.9/17.7	27566	(6915)	97 08 24.6	22 14.10	-26 40.7	16.4	-0.89	- 6.6	5.4/19.5	26893
1986 QJ ₂	97 08 21.6	22 03.35	-16 37.9	16.7	-0.82	- 2.8	1.6/20.4	25225	1980 PF	97 08 24.6	22 14.42	-04 21.0	15.4	-1.06	+ 1.6	3.4/26.1	24238
1976 YR ₁	97 08 21.6	22 03.38	-21 00.7	17.5	-0.98	- 6.0	3.3/18.9	27725	(6964)	97 08 24.6	22 14.43	-03 27.3	15.6	-0.81	- 7.6	3.4/27.1	27094
(7439)	97 08 21.7	22 03.57	-19 16.3	17.5	-0.89	- 4.9	2.5/19.6	28835	(6939)	97 08 24.6	22 14.47	-33 42.3	17.5	-1.07	- 1.6	8.2/18.4	27088
1981 EQ ₄₃	97 08 21.8	22 03.76	-10 25.2	19.9	-0.93	- 5.6	0.6/22.2	24406	1984 SB ₁	97 08 24.7	22 14.49	-16 11.1	15.6	-1.03	+ 0.9	2.8/23.5	29133
1991 VW ₃	97 08 21.9	22 04.13	-09 05.0	14.8	-0.83	- 4.5	1.5/22.7	29943	2193 T-3	97 08 25.0	22 15.95	-13 50.3	18.1	-0.95	- 4.1	1.1/24.2	24910
1981 EC ₁₂	97 08 21.9	22 04.16	-03 24.0	18.9	-0.94	- 4.3	3.1/24.3	26917	1992 CJ ₃	97 08 25.1	22 15.91	-07 50.6	17.4	-0.95	- 7.5	1.2/26.0	27567
1978 QY ₁	97 08 21.9	22 04.27	-08 57.3	16.6	-0.86	- 7.2	1.2/22.8	28314	1993 GN ₁	97 08 25.1	22 16.20	-03 28.8	18.0	-1.00	- 5.3	2.8/27.3	28887
2678 P-L	97 08 21.9	22 04.48	-13 43.0	19.5	-0.92	- 5.7	0.7/21.4	27328	5137 T-2	97 08 25.2	22 16.28	+09 29.1	19.4	-0.82	- 7.0	6.8/01.3	20833
1265 T-2	97 08 22.0	22 04.64	-09 51.5	18.7	-0.88	- 5.1	0.6/22.6	26095	(7344)	97 08 25.3	22 16.90	-01 58.3	16.9	-0.78	- 9.1	2.8/28.4	28574
1989 TF ₁₄	97 08 22.0	22 04.69	-17 42.0	16.5	-0.89	- 5.0	2.3/20.3	29611	1988 BJ	97 08 25.4	22 17.01	+11 29.8	17.4	-1.57	+ 6.0	10.6/29.0	22079
(7013)	97 08 22.2	22 05.40	-12 41.8	16.3	-0.85	- 4.2	0.4/22.0	27294	4735 P-L	97 08 25.6	22 17.79	-15 57.8	18.1	-1.04	- 5.4	2.4/24.1	29948
1987 DF ₆	97 08 22.3	22 05.84	-12 06.4	16.3	-1.00	- 0.8	0.1/22.3	18286	1992 BM	97 08 25.6	22 18.17	-13 55.3	16.8	-1.10	- 2.9	1.4/24.8	28615
1991 OK ₁	97 08 22.4	22 06.14	-05 19.0	16.4	-0.80	- 2.0	1.9/24.2	20930	1975 SK	97 08 25.7	22 18.13	-14 33.4	16.7	-0.77	- 4.5	1.3/24.5	29652
(7099)	97 08 22.4	22 06.35	-14 39.4	16.9	-0.76	- 4.4	0.9/21.6	27551	1992 CD ₁	97 08 25.8	22 18.53	-07 39.1	16.9	-0.92	- 6.2	1.0/26.7	27567
1975 UF	97 08 22.5	22 06.67	-13 43.6	16.5	-0.75	- 4.9	0.7/21.9	29652	1981 ED ₁₁	97 08 26.0	22 19.27	-07 52.2	18.6	-1.04	- 0.8	1.2/26.7	22270
1993 UL	97 08 22.6	22 06.71	+05 56.7	16.6	-0.67	- 9.4	7.3/29.3	29318	1992 SS ₂₆	97 08 26.0	22 19.29	-17 27.2	14.7	-0.91	- 0.5	2.4/24.2	29300
1991 RK ₇	97 08 22.6	22 07.13	-06 06.1	16.6	-1.04	- 3.9	2.5/24.2	26758	1992 OM ₇	97 08 26.0	22 19.35	-06 45.7	16.5	-0.84	- 3.8	1.3/27.1	27935
4668 P-L	97 08 22.7	22 07.08	-23 44.8	17.5	-1.04	- 3.3	4.9/19.3	28892	1992 FV ₁	97 08 26.0	22 19.39	-24 41.3	16.3	-0.97	- 3.6	5.0/22.0	29660
2016 P-L	97 08 22.7	22 07.26	-02 39.8	16.4	-0.74	- 6.5	3.5/25.7	28891	1991 EB	97 08 26.2	22 19.90	-05 46.3	16.9	-0.86	- 4.7	1.5/27.6	25440
(7015)	97 08 22.7	22 07.34	-12 55.1	17.8	-0.93	- 7.0	0.5/22.3	27294	1981 VK	97 08 26.2	22 20.02	-11 24.3	15.6	-0.76	- 4.1	0.4/25.9	27931
(7036)	97 08 22.8	22 07.55	+00 06.3	16.6	-0.77	- 3.2	3.3/26.3	27300	1992 EH ₄	97 08 26.3	22 20.60	-13 09.1	17.8	-0.93	- 6.3	1.0/25.5	27935
1981 ED ₁₈	97 08 22.9	22 08.15	-08 32.3	17.4	-0.79	- 5.0	1.0/23.9	26918	4302 T-1	97 08 26.4	22 20.76	-19 22.8	18.2	-0.92	- 4.5	3.1/23.7	29668
1991 NE ₇	97 08 23.0	22 08.27	-03 55.2	16.5	-0.76	- 3.3	2.5/25.3	28316	1990 EZ ₅	97 08 26.4	22 21.01	-10 04.0	17.5	-0.77	- 4.4	0.1/26.6	27325
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 WM ₁	97 08 26.5	22 21.05	-37 33.0	17.3	-1.07	- 4.3	9.6/17.4	27559
1988 EC	97 08 23.1	22 08.95	-21 24.4	15.2	-1.78	+10.9	5.6/22.2	27324	1144 T-3	97 08 26.6	22 21.41	-11 10.2	17.3	-0.86	- 2.0	0.3/26.4	22088
1994 VJ ₇	97 08 23.2	22 09.05	-09 33.4	15.1	-0.94	- 3.8	0.9/23.7	27327	(7018)	97 08 26.6	22 21.57	-14 25.2	16.2	-0.92	- 7.5	1.7/25.3	27295
1990 QX ₁	97 08 23.2	22 09.11	-13 08.0	17.2	-0.99	- 5.4	0.7/22.7	25062	1987 RN ₆	97 08 26.6	22 21.72	-19 28.3	16.5	-0.79	- 4.9	3.0/23.7	30288
1987 SO ₅	97 08 23.2	22 09.18	-17 15.6	16.4	-0.85	- 2.2	1.8/21.6	22698	(6925)	97 08 26.6	22 21.79	+08 49.5	16.0	-0.72	- 7.5	6.6/02.7	26895
1996 HJ ₂₀	97 08 23.2	22 09.33	-14 05.0	17.7	-0.83	- 4.8	1.0/22.5	27720	1981 EG ₁₅	97 08 26.6	22 21.80	-05 51.7	17.6	-0.99	- 5.6	2.1/28.0	27725
1990 VD ₄	97 08 23.2	22 09.34	-10 04.9	16.0	-0.89	- 6.1	0.6/23.7	27567	1993 TL ₃₂	97 08 26.7	22 21.96	-13 10.1	17.0	-0.83	- 5.7	1.1/25.8	27730
3777 T-3	97 08 23.3	22 09.60	-13 12.7	17.9	-0.92	- 5.2	0.8/22.8	25337	2078 T-3	97 08 26.7	22 22.05	-12 38.0	16.0	-0.97	- 2.7	0.9/26.1	28620