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EDITORIAL NOTICE

The Small Bodies Names Committee wishes to point out that the suitability of many names proposed for minor planets seems to have deteriorated in recent months. As more and more minor planets are numbered and named, it indeed becomes more difficult to select new names that are “sufficiently different” from existing names. Nevertheless, proposers of names are encouraged both to be more imaginative in their proposals and to take greater care in preparing citations. Proposers lacking facility with the English language are requested to seek assistance in preparing the citations they submit. The best names are *short* names, and citations should not be potted biographies or touristic travelogues. In the future the Small Bodies Names Committee intends to be more aggressive in rejecting or modifying name proposals it considers unsatisfactory and more ruthless in editing bad citations.

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 28637. 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	$\rho \cos \phi'$	$\rho \sin \phi'$	
472	6.3203	0.71225	+0.69998	Merlette
473	13.3164	0.69479	+0.71682	Remanzacco
628	6.4286	0.62479	+0.77818	Mülheim-Ruhr
629	20.1511	0.69273	+0.71880	JATE Observatory, Szeged
630	7.2367	0.67051	+0.73951	Osenbach

CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Mag.	N Obs.
1988 JA ₁	1991 01 22.33316	08 48 33.60	+20 01 36.0	<i>MPC</i> 17712			1 675
1996 RQ ₂₀	1996 10 11.35505	00 41 04.20	+04 14 39.5	<i>MPC</i> 28172	22.4 R		675
1996 RQ ₂₀	1996 10 11.39858	00 41 03.97	+04 14 38.5	<i>MPC</i> 28172			675
1996 RQ ₂₀	1996 10 11.43550	00 41 03.79	+04 14 37.6	<i>MPC</i> 28172			675

Note 1: 1988 JA₁ = (5430), time corrected.

DELETED OBSERVATION

The following observation is to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Obs.
1953 KC	* 1953 05 25.05379	17 31 52.57	-15 42 28.9	<i>MPC</i> 982		012

IDENTIFICATION CHANGES

Continuation to *MPC* 28638.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	Obs.
1978 VY ₁₆	* 1978 11 01.89461	02 21 36.07	−03 29 50.5	1978 TJ ₇	17.2		095
1986 RU ₁₇	* 1986 09 08.87521	22 10 36.69	−12 43 08.4	1986 QT ₅	16.0	V	095
1987 QX ₁₂	* 1987 08 25.29514	22 04 01.66	−03 41 20.5	1987 QA ₇	17.7		809
1987 QX ₁₂	1987 08 25.30556	22 04 01.09	−03 41 23.8	1987 QA ₇			809
1987 QX ₁₂	1987 08 25.31597	22 04 00.57	−03 41 27.2	1987 QA ₇			809
1989 SW ₁₄	* 1989 09 21.65124	01 53 45.89	−09 37 33.6	1989 RQ ₅	17.5	V	413
1989 SW ₁₄	1989 09 21.71374	01 53 44.09	−09 38 09.9	1989 RQ ₅			413
1990 SS ₂₉	* 1990 09 16.26406	22 27 29.59	−12 16 29.8	1990 QV ₁₀	17.5		675
1990 XF ₂	* 1990 12 14.63264	06 45 46.4	+24 14 19	1990 XL	16		885
1990 XF ₂	1990 12 14.65556	06 45 45.4	+24 14 22	1990 XL			885
1995 UX ₄₉	* 1995 10 23.00313	01 05 59.91	+08 44 10.8	1995 UL ₄₆			010
1995 UX ₄₉	1995 10 23.01406	01 05 59.17	+08 44 06.8	1995 UL ₄₆			010
1995 UX ₄₉	1995 10 23.02535	01 05 58.43	+08 44 03.3	1995 UL ₄₆			010
1996 WN ₃	* 1996 11 30.84759	10 37 20.69	+12 18 27.2	1996 WR ₂			327
1996 WN ₃	1996 11 30.86559	10 37 22.08	+12 18 21.5	1996 WR ₂	18.3	V	327
1996 WN ₃	1996 11 30.88134	10 37 23.32	+12 18 18.1	1996 WR ₂			327

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

- 017 Hoher List. 1-m reflector + CCD. Observer J. Sanner.
- 046 Kleť. 0.57-m *f*/5.2 reflector + CCD. Observers J. Tichá, M. Tichý and Z. Moravec.
- 056 Skalnaté Pleso. 0.3-m *f*/5 astrograph. Observers P. Rychtarčík, J. Svorěn and G. Červák.
- 089 Nikolaev. Zone astrograph. Observer G. Gorel.

- 095 Crimean Astrophysical Observatory. 0.4-m $f/4$ double astrograph. Observers L. I. Chernykh, N. S. Chernykh, V. V. Rumyantsev and A. Militskij. Measured by L. I. Chernykh, N. S. Chernykh and V. V. Rumyantsev.
- 101 Kharkov. 0.16-m $f/0.72$ refractor. Observer P. P. Pavlenko.
- 104 San Marcello Pistoiese. 0.40-m $f/5$ reflector + CCD. Observers L. Tesi, G. Cattani and A. Boattini. Measured by L. Tesi and G. Forti.
- 105 Sternberg Astronomical Institute, Moscow. 0.2-m $f/15$ refractor. Observers S. V. Zhuiko and Y. V. Pakhomov. Measured by N. M. Evstigneeva.
- 108 Montelupo. 0.30-m $f/5.7$ Schmidt-Cassegrain + CCD. Observers M. Tombelli and G. Forti.
- 118 Modra. 0.6-m $f/5.5$ reflector + CCD. Observers A. Galád, P. Kolény, L. Kornoš and A. Pravda.
- 124 Castres. 0.20-m $f/6.2$ reflector + CCD. Observer A. Klotz.
- 323 Perth Observatory, Bickley. 0.3-m astrograph. Observers G. Lowe and T. Smith.
- 327 Xinglong. 0.60-m Schmidt + CCD. Observers J. Zhu, H. J. Yan and L. J. Ma.
- 355 Hadano. 0.20-m $f/6.0$ reflector + CCD. Observer A. Asami.
- 360 Kuma Kogen. 0.60-m $f/6.0$ Ritchey-Chrétien + CCD. Observer A. Nakamura.
- 367 Yatsuka. 0.26-m $f/6.0$ reflector + CCD. Observer H. Abe.
- 385 Nihondaira Observatory Oohira Station. 0.31-m $f/4.7$ reflector + CCD. Observer T. Urata.
- 402 Dynic Astronomical Observatory. 0.60-m $f/3.7$ reflector + CCD. Observer A. Sugie.
- 411 Oizumi. 0.41-m $f/4.3$ reflector + CCD. Observer T. Kobayashi.
- 472 Merlette. 0.20-m $f/10$ reflector + CCD and 0.28-m $f/10$ reflector + CCD. Observer S. Garro. Measured by J. C. Merlin.
- 473 Remanzacco. 0.45-m $f/4.5$ reflector + CCD. Observers P. Blasich, M. Dal Bo, V. Gonano, G. Sostero and F. Verlezza. Measured by F. Verlezza.
- 504 Le Creusot. 0.4-m reflector. Observer J. C. Merlin.
- 540 Linz. 0.3-m $f/5.2$ Schmidt-Cassegrain + CCD. Observers E. Meyer, E. Obermair and H. Raab.
- 557 Ondřejov. 0.65-m $f/3.6$ reflector + CCD. Observers P. Pravec and L. Šarounová.
- 566 Haleakala-NEAT/GEODSS. 1-m $f/2.2$ Ritchey-Chrétien + CCD. Observers E. F. Helin, S. H. Pravdo, K. J. Lawrence, S. Groom, C. Clark, R. Bamberg, S. Levin, J. Lorre, S. Shaklan, R. Byrd, A. Esquibel, C. Cotton and D. Bascon.
- 587 Sormano. 0.5-m reflector + CCD. Observers P. Sicoli, F. Manca, G. Ventre, E. Colzani, M. Cavagna, A. Testa and P. Chiavenna.
- 596 Colleverde di Guidonia. 0.31-m $f/2.8$ Baker-Schmidt + CCD. Observer V. S. Casulli.
- 599 Campo Imperatore. 0.60-m $f/3$ Schmidt + CCD. Observers A. Boattini, S. Casulli, A. Di Paola, A. Vagnozzi, T. Scacciafrotte, V. Risoldi and A. Di Clemente. Measured by A. Boattini, S. Casulli, A. Vagnozzi and G. Forti.
- 605 Marl. 0.2-m $f/10$ Schmidt-Cassegrain + CCD. Observer E. Jung.
- 608 Haleakala-AMOS. 1.2-m reflector + CCD. Observers A. Alday, K. Moore, M. Tranilla, T. Goggia, A. Sylva, D. Nishimoto. Measurers J. Africano, P. Sydney, D. Nishimoto, A. Angara, B. McCartney, D. O'Connell, P. Kervin, B. Kraszewski, V. Soo Hoo.

- 627 Blauvac. 0.26-m $f/4.7$ reflector + CCD. Observer R. Roy. Measured by A. Klotz.
- 628 Mülheim-Ruhr. 0.2-m Schmidt-Cassegrain + CCD. Observer A. Martin.
- 657 Climenhaga Observatory, Victoria. 0.5-m reflector + CCD. Observers J. B. Tatum and D. D. Balam. Measured by D. D. Balam.
- 670 Camarillo. 0.25-m Schmidt-Cassegrain + CCD. Observer J. E. Rogers.
- 675 Palomar. 0.46-m Schmidt. Observers C. S. Shoemaker and E. M. Shoemaker. Measured by J. Hlavac.
- 683 Goodricke-Pigott Observatory. 0.36-m $f/11$ reflector + CCD. Observer R. A. Tucker.
- 691 Kitt Peak. 0.91-m Spacewatch telescope and 2.3-m $f/2$ reflector + CCD. Observers T. Gehrels, J. Montani, J. V. Scotti and S. M. Larson. Measured by T. Gehrels, J. V. Scotti and C. W. Hergenrother.
- 709 Cloudcroft. 0.6-m $f/7$ Ritchey-Chrétien. Observer W. Offutt.
- 711 McDonald Observatory. 0.76-m reflector + CCD. Observer P. J. Shelus.
- 861 Barao Geraldo. 0.20-m $f/6.3$ Schmidt-Cassegrain + CCD. Observer P. R. Holvorcem.
- 864 Kumamoto Civil Astronomical Observatory. 0.41-m $f/5.0$ reflector + CCD. Observer J. Kobayashi. Measurer K. Kinoshita.
- 867 Saji Observatory. 1.03-m $f/4.8$ reflector + CCD. Observers M. Yamanishi, A. Miyamoto, M. Aimoto and T. Oribe.
- 897 YGCO Chiyoda Observatory. 0.25-m $f/6.0$ reflector + CCD and 0.20-m refractor + CCD. Observer T. Kojima.
- 900 Moriyama. 0.25-m $f/6.3$ reflector + CCD. Observer Y. Ikari.
- 954 Teide Observatory. 0.81-m $f/11$ reflector + CCD. Observers J. Licandro, M. Serra and A. Oscoz. Measured by R. Casas.
- 966 Church Stretton. 0.25-m Schmidt-Cassegrain + CCD. Observer S. P. Laurie.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N	Obs.
C/1989 Q1 (Okazaki-Levy-Rudenko)							
C/1989 Q1	1989 11 03.13576		13 55 15.18	+23 23 41.2			056
C/1994 N1 (Nakamura-Nishimura-Machholz)							
C/1994 N1	1994 08 09.00422		01 15 02.45	+64 32 54.1	11.2	T	504
C/1994 N1	1994 09 07.32066		21 46 25.74	-05 54 10.8	12	T	1 675
C/1994 N1	1994 09 07.35590		21 46 16.71	-06 00 25.0			2 675
C/1995 O1 (Hale-Bopp)							
C/1995 O1	1996 04 21.06499		19 45 04.72	-18 08 02.9			056
C/1995 O1	1996 04 21.07709		19 45 04.56	-18 07 58.3			056
C/1995 O1	1996 04 22.07847		19 45 02.75	-18 03 20.4			056
C/1995 O1	1996 04 23.05920		19 44 59.97	-17 58 48.1			056
C/1995 O1	1996 04 23.07778		19 44 59.93	-17 58 43.5			056
C/1995 O1	1996 05 21.93264		19 35 50.82	-15 37 54.4			056
C/1995 O1	1996 05 22.02292		19 35 47.41	-15 37 29.7			056
C/1995 O1	1996 06 21.69792		19 06 59.50	-12 48 39.0			323
C/1995 O1	1996 07 05.93125		18 47 50.26	-11 24 12.6			105
C/1995 O1	1996 07 08.62292		18 43 58.96	-11 08 05.3			323
C/1995 O1	1996 07 09.86354		18 42 11.50	-11 00 43.6			095
C/1995 O1	1996 07 09.87396		18 42 10.65	-11 00 40.5			095
C/1995 O1	1996 07 09.92153		18 42 06.55	-11 00 23.5			056
C/1995 O1	1996 07 09.95139		18 42 03.92	-11 00 13.5			056
C/1995 O1	1996 07 13.94931		18 36 15.22	-10 36 22.7			056

C/1995 O1	1996 07 13.99306	18 36 11.33	-10 36 08.9	056	C/1995 O1	1996 08 16.80972	17 51 52.60	-07 35 29.8	095
C/1995 O1	1996 07 17.89410	18 30 30.56	-10 13 07.5	056	C/1995 O1	1996 08 16.81210	17 51 52.47	-07 35 30.8	101
C/1995 O1	1996 07 17.92153	18 30 28.12	-10 12 58.9	056	C/1995 O1	1996 08 16.81354	17 51 52.41	-07 35 29.0	095
C/1995 O1	1996 07 21.83883	18 24 48.70	-09 50 13.0	056	C/1995 O1	1996 08 16.81632	17 51 52.23	-07 35 27.4	095
C/1995 O1	1996 07 21.85521	18 24 47.28	-09 50 06.6	056	C/1995 O1	1996 08 16.82015	17 51 51.97	-07 35 28.0	095
C/1995 O1	1996 07 22.92037	18 23 15.80	-09 43 59.8	056	C/1995 O1	1996 08 16.82361	17 51 51.78	-07 35 26.8	095
C/1995 O1	1996 07 22.93958	18 23 14.15	-09 43 53.6	056	C/1995 O1	1996 08 16.82743	17 51 51.54	-07 35 25.1	095
C/1995 O1	1996 07 23.82360	18 21 58.79	-09 38 51.6	095	C/1995 O1	1996 08 17.79803	17 50 52.04	-07 31 06.6	101
C/1995 O1	1996 07 23.84448	18 21 57.01	-09 38 43.9	095	C/1995 O1	1996 08 19.76559	17 48 55.68	-07 22 28.5	095
C/1995 O1	1996 07 23.84790	18 21 56.68	-09 38 42.4	095	C/1995 O1	1996 08 19.76906	17 48 55.56	-07 22 27.9	095
C/1995 O1	1996 07 23.86179	18 21 55.49	-09 38 38.6	095	C/1995 O1	1996 08 21.77876	17 47 02.11	-07 13 54.3	095
C/1995 O1	1996 07 23.87638	18 21 54.25	-09 38 33.8	095	C/1995 O1	1996 08 21.80584	17 47 00.52	-07 13 46.9	095
C/1995 O1	1996 07 23.88241	18 21 53.74	-09 38 31.7	056	C/1995 O1	1996 08 30.78180	17 39 45.81	-06 38 20.1	101
C/1995 O1	1996 07 23.88263	18 21 53.71	-09 38 32.4	095	C/1995 O1	1996 08 31.78030	17 39 04.74	-06 34 38.3	101
C/1995 O1	1996 07 23.89965	18 21 52.27	-09 38 25.1	056	C/1995 O1	1996 09 01.74337	17 38 26.39	-06 31 09.4	095
C/1995 O1	1996 08 04.80938	18 05 45.48	-08 33 33.6	095	C/1995 O1	1996 09 01.74823	17 38 26.27	-06 31 08.2	095
C/1995 O1	1996 08 04.81631	18 05 44.85	-08 33 30.3	095	C/1995 O1	1996 09 14.72049	17 32 04.41	-05 47 57.0	095
C/1995 O1	1996 08 04.85243	18 05 42.10	-08 33 19.6	095	C/1995 O1	1996 09 14.72396	17 32 04.42	-05 47 56.3	095
C/1995 O1	1996 08 08.86736	18 00 44.85	-08 13 00.3	056	C/1995 O1	1996 10 02.71905	17 29 46.50	-04 55 07.3	095
C/1995 O1	1996 08 08.90764	18 00 41.91	-08 12 46.2	056	C/1995 O1	1996 10 02.72252	17 29 46.55	-04 55 06.3	095
C/1995 O1	1996 08 11.80451	17 57 18.95	-07 58 41.8	095	C/1995 O1	1996 10 05.70374	17 30 04.09	-04 46 30.5	095
C/1995 O1	1996 08 11.80938	17 57 18.60	-07 58 40.8	095	C/1995 O1	1996 10 05.70721	17 30 04.06	-04 46 28.4	095
C/1995 O1	1996 08 11.81424	17 57 18.25	-07 58 39.0	095	C/1995 O1	1996 10 05.71068	17 30 04.02	-04 46 30.0	095
C/1995 O1	1996 08 11.81552	17 57 18.17	-07 58 38.4	101	C/1995 O1	1996 10 07.71691	17 30 21.89	-04 40 36.7	095
C/1995 O1	1996 08 11.81989	17 57 17.81	-07 58 37.2	095	C/1995 O1	1996 10 07.72038	17 30 21.90	-04 40 38.3	095
C/1995 O1	1996 08 11.82396	17 57 17.55	-07 58 36.1	095	C/1995 O1	1996 10 07.72374	17 30 21.92	-04 40 37.2	095
C/1995 O1	1996 08 11.83021	17 57 17.10	-07 58 35.5	095	C/1995 O1	1996 10 09.69119	17 30 44.12	-04 34 49.9	095
C/1995 O1	1996 08 12.77139	17 56 13.42	-07 54 05.1	095	C/1995 O1	1996 10 09.69466	17 30 44.11	-04 34 48.2	095
C/1995 O1	1996 08 12.77488	17 56 13.18	-07 54 05.4	095	C/1995 O1	1996 10 15.68426	17 32 18.79	-04 16 35.8	095
C/1995 O1	1996 08 12.77799	17 56 12.96	-07 54 05.7	095	C/1995 O1	1996 10 15.68714	17 32 18.87	-04 16 34.7	095
C/1995 O1	1996 08 12.78218	17 56 12.64	-07 54 03.2	095	C/1995 O1	1996 10 15.69155	17 32 18.96	-04 16 34.9	095
C/1995 O1	1996 08 12.78528	17 56 12.45	-07 54 03.2	095	C/1995 O1	1996 10 15.69450	17 32 18.99	-04 16 34.1	095
C/1995 O1	1996 08 12.78912	17 56 12.24	-07 54 02.0	095	C/1995 O1	1996 10 15.69815	17 32 19.07	-04 16 33.4	095
C/1995 O1	1996 08 13.78264	17 55 06.14	-07 49 21.0	095	C/1995 O1	1996 10 15.70162	17 32 19.09	-04 16 32.4	095
C/1995 O1	1996 08 13.78958	17 55 05.57	-07 49 19.5	095	C/1995 O1	1996 10 19.68076	17 33 43.95	-04 03 48.6	095
C/1995 O1	1996 08 14.80553	17 53 59.34	-07 44 36.6	095	C/1995 O1	1996 10 19.68424	17 33 43.95	-04 03 47.7	095
C/1995 O1	1996 08 14.80730	17 53 59.12	-07 44 37.0	101	C/1995 O1	1996 10 19.68771	17 33 44.04	-04 03 46.5	095
C/1995 O1	1996 08 14.81005	17 53 59.01	-07 44 35.7	095	C/1995 O1	1996 10 19.69118	17 33 44.09	-04 03 46.6	095
C/1995 O1	1996 08 14.81595	17 53 58.68	-07 44 33.7	095	C/1995 O1	1996 10 19.69465	17 33 44.30	-04 03 45.9	095
C/1995 O1	1996 08 14.82058	17 53 58.32	-07 44 33.0	095	C/1995 O1	1996 10 19.69812	17 33 44.21	-04 03 44.2	095
C/1995 O1	1996 08 14.82137	17 53 58.42	-07 44 32.0	101	C/1995 O1	1996 10 20.66681	17 34 07.49	-04 00 32.6	095
C/1995 O1	1996 08 14.82636	17 53 58.02	-07 44 31.2	095	C/1995 O1	1996 10 20.67028	17 34 07.57	-04 00 32.4	095
C/1995 O1	1996 08 14.83088	17 53 57.72	-07 44 28.7	095	C/1995 O1	1996 10 20.67375	17 34 07.65	-04 00 31.4	095
C/1995 O1	1996 08 14.83211	17 53 57.61	-07 44 27.8	101	C/1995 O1	1996 10 20.67722	17 34 07.74	-04 00 30.7	095
C/1995 O1	1996 08 15.75963	17 52 58.39	-07 40 14.8	095	C/1995 O1	1996 10 20.68070	17 34 07.87	-04 00 30.7	095
C/1995 O1	1996 08 15.76380	17 52 58.17	-07 40 13.5	095	C/1995 O1	1996 10 20.68417	17 34 07.89	-04 00 29.1	095
C/1995 O1	1996 08 15.76866	17 52 57.83	-07 40 12.9	095	C/1995 O1	1996 11 06.65741	17 43 24.08	-02 55 50.2	095
C/1995 O1	1996 08 15.77144	17 52 57.68	-07 40 11.6	095	C/1995 O1	1996 11 06.66400	17 43 24.31	-02 55 48.8	095
C/1995 O1	1996 08 15.77491	17 52 57.46	-07 40 10.9	095	C/1995 O1	1996 11 06.66904	17 43 24.52	-02 55 46.8	095
C/1995 O1	1996 08 15.77838	17 52 57.28	-07 40 10.4	095	C/1995 O1	1996 11 06.67130	17 43 24.65	-02 55 47.0	095
C/1995 O1	1996 08 16.78999	17 51 53.84	-07 35 34.0	101	C/1995 O1	1996 11 08.67190	17 44 47.95	-02 46 47.4	095
C/1995 O1	1996 08 16.80171	17 51 53.24	-07 35 30.6	101	C/1995 O1	1996 11 08.67659	17 44 48.08	-02 46 46.8	095

C/1995 O1	1996 11 08.68160	17 44 48.34	-02 46 44.3	095	C/1995 O1	1997 02 07.22875	19 56 45.93	+18 40 41.9	017
C/1995 O1	1996 11 15.65272	17 50 05.96	-02 12 27.5	095	C/1995 O1	1997 02 07.22936	19 56 46.04	+18 40 42.8	017
C/1995 O1	1996 11 15.66391	17 50 06.48	-02 12 23.3	095	C/1995 O1	1997 02 07.22999	19 56 46.14	+18 40 44.3	017
C/1995 O1	1996 11 16.65868	17 50 55.16	-02 07 05.4	095	C/1995 O1	1997 02 07.23066	19 56 46.25	+18 40 45.5	017
C/1995 O1	1996 11 16.66354	17 50 55.46	-02 07 03.9	095	C/1995 O1	1997 02 07.23368	19 56 46.76	+18 40 51.6	017
C/1995 O1	1996 11 16.66562	17 50 55.53	-02 07 03.5	095	C/1995 O1	1997 02 07.23434	19 56 46.87	+18 40 53.1	017
C/1995 O1	1996 11 16.66771	17 50 55.65	-02 07 01.5	095	C/1995 O1	1997 02 07.23499	19 56 46.98	+18 40 54.4	017
C/1995 O1	1996 11 16.67188	17 50 55.79	-02 06 59.8	095	C/1995 O1	1997 02 07.23567	19 56 47.09	+18 40 55.9	017
C/1995 O1	1996 11 17.64653	17 51 44.42	-02 01 43.5	095	C/1995 O1	1997 02 07.23634	19 56 47.20	+18 40 57.2	017
C/1995 O1	1996 11 17.65156	17 51 44.62	-02 01 40.1	095	C/1995 O1	1997 02 07.23743	19 56 47.39	+18 40 59.3	017
C/1995 O1	1996 11 17.65660	17 51 44.90	-02 01 40.9	095	C/1995 O1	1997 02 07.23822	19 56 47.52	+18 41 01.0	017
C/1995 O1	1996 11 17.65990	17 51 45.03	-02 01 38.6	095	C/1995 O1	1997 02 07.23899	19 56 47.65	+18 41 02.4	017
C/1995 O1	1996 11 17.66354	17 51 45.21	-02 01 37.0	095	C/1995 O1	1997 02 07.24020	19 56 47.85	+18 41 04.7	017
C/1995 O1	1996 11 17.67031	17 51 45.51	-02 01 35.6	095	C/1995 O1	1997 02 07.24096	19 56 47.98	+18 41 06.3	017
C/1995 O1	1996 11 19.35007	17 53 11.09	-01 52 10.2	897	C/1995 O1	1997 02 07.24213	19 56 48.17	+18 41 08.8	017
C/1995 O1	1996 11 19.37984	17 53 12.61	-01 52 00.0	897	C/1995 O1	1997 02 07.24278	19 56 48.29	+18 41 10.1	017
C/1995 O1	1996 11 25.34919	17 58 35.23	-01 15 44.5	897	C/1995 O1	1997 02 07.24372	19 56 48.44	+18 41 11.8	017
C/1995 O1	1996 11 25.36406	17 58 36.07	-01 15 38.1	897	C/1995 O1	1997 02 07.24444	19 56 48.56	+18 41 13.1	017
C/1995 O1	1996 12 01.34701	18 04 28.42	-00 34 21.1	897	C/1995 O1	1997 02 07.24515	19 56 48.67	+18 41 14.4	017
C/1995 O1	1996 12 01.35594	18 04 28.99	-00 34 17.1	897	C/1995 O1	1997 02 07.24617	19 56 48.85	+18 41 16.1	017
C/1995 O1	1996 12 02.34191	18 05 29.86	-00 26 56.8	897	C/1995 O1	1997 02 07.24677	19 56 48.94	+18 41 17.6	017
C/1995 O1	1996 12 02.36081	18 05 31.02	-00 26 48.3	897	C/1995 O1	1997 02 07.24759	19 56 49.08	+18 41 19.4	017
C/1995 O1	1996 12 08.33799	18 11 57.14	+00 21 08.9	897	C/1995 O1	1997 02 07.24822	19 56 49.19	+18 41 20.5	017
C/1995 O1	1996 12 08.34000	18 11 57.29	+00 21 10.8	897	C/1995 O1	1997 02 07.24887	19 56 49.30	+18 41 21.5	017
C/1995 O1	1996 12 15.69960	18 20 33.46	+01 29 26.5	587	C/1995 O1	1997 02 08.19905	19 59 30.93	+19 12 59.7	046
C/1995 O1	1996 12 20.35425	18 26 23.81	+02 18 41.9	897	C/1995 O1	1997 02 08.20063	19 59 31.20	+19 13 03.0	046
C/1995 O1	1996 12 20.35965	18 26 24.21	+02 18 44.8	897	C/1995 O1	1997 02 08.20672	19 59 32.24	+19 13 15.2	046
C/1995 O1	1996 12 23.35208	18 30 19.82	+02 53 09.5	897	C/1995 O1	1997 02 08.20875	19 59 32.59	+19 13 19.1	046
C/1995 O1	1996 12 23.35919	18 30 20.35	+02 53 14.6	897	C/1995 O1	1997 02 10.20848	20 05 25.78	+20 22 01.3	046
C/1995 O1	1996 12 24.35733	18 31 40.77	+03 05 13.4	897	C/1995 O1	1997 02 10.20913	20 05 25.89	+20 22 02.9	046
C/1995 O1	1997 01 18.19311	19 11 08.91	+09 47 09.4	540	C/1995 O1	1997 02 10.20950	20 05 25.95	+20 22 04.6	017
C/1995 O1	1997 02 02.20021	19 43 29.59	+16 03 40.7	046	C/1995 O1	1997 02 10.21072	20 05 26.18	+20 22 07.0	017
C/1995 O1	1997 02 02.20083	19 43 29.69	+16 03 41.8	046	C/1995 O1	1997 02 10.21145	20 05 26.32	+20 22 07.5	046
C/1995 O1	1997 02 02.20160	19 43 29.81	+16 03 43.1	046	C/1995 O1	1997 02 10.21182	20 05 26.38	+20 22 09.6	017
C/1995 O1	1997 02 02.20434	19 43 30.22	+16 03 48.0	046	C/1995 O1	1997 02 10.21214	20 05 26.45	+20 22 09.1	046
C/1995 O1	1997 02 04.87523	19 50 21.67	+17 25 04.9	360	C/1995 O1	1997 02 10.21304	20 05 26.60	+20 22 12.1	017
C/1995 O1	1997 02 04.87610	19 50 21.79	+17 25 06.5	360	C/1995 O1	1997 02 10.21411	20 05 26.78	+20 22 14.3	017
C/1995 O1	1997 02 07.21606	19 56 43.81	+18 40 16.6	017	C/1995 O1	1997 02 10.21499	20 05 26.94	+20 22 16.1	017
C/1995 O1	1997 02 07.21678	19 56 43.92	+18 40 17.9	017	C/1995 O1	1997 02 10.21600	20 05 27.13	+20 22 17.9	017
C/1995 O1	1997 02 07.21737	19 56 44.03	+18 40 19.6	017	C/1995 O1	1997 02 10.21725	20 05 27.43	+20 22 21.3	017
C/1995 O1	1997 02 07.21806	19 56 44.14	+18 40 20.4	017	C/1995 O1	1997 02 10.21887	20 05 27.63	+20 22 23.9	017
C/1995 O1	1997 02 07.21872	19 56 44.25	+18 40 21.8	017	P/1996 A1 (Jedicke)				
C/1995 O1	1997 02 07.21965	19 56 44.41	+18 40 23.8	017	P/1996 A1	1997 02 04.82292	12 25 40.08	-10 28 36.0	17.9 T 360
C/1995 O1	1997 02 07.22041	19 56 44.54	+18 40 24.9	017	P/1996 A1	1997 02 04.82813	12 25 40.01	-10 28 35.7	360
C/1995 O1	1997 02 07.22118	19 56 44.66	+18 40 26.8	017	C/1996 B2 (Hyakutake)				
C/1995 O1	1997 02 07.22192	19 56 44.79	+18 40 28.2	017	C/1996 B2	1996 03 17.08676	14 55 00.67	-09 55 50.0	089
C/1995 O1	1997 02 07.22264	19 56 44.91	+18 40 29.8	017	C/1996 B2	1996 03 17.09224	14 55 00.56	-09 55 03.4	089
C/1995 O1	1997 02 07.22366	19 56 45.07	+18 40 31.5	017	C/1996 B2	1996 03 17.09606	14 55 00.46	-09 54 34.7	089
C/1995 O1	1997 02 07.22503	19 56 45.31	+18 40 34.5	017	C/1996 B2	1996 03 17.09988	14 55 00.30	-09 54 01.4	089
C/1995 O1	1997 02 07.22568	19 56 45.42	+18 40 36.1	017	C/1996 B2	1996 03 17.10436	14 55 00.21	-09 53 25.5	089
C/1995 O1	1997 02 07.22633	19 56 45.52	+18 40 37.2	017	C/1996 B2	1996 03 17.10834	14 55 00.11	-09 52 53.7	089
C/1995 O1	1997 02 07.22815	19 56 45.83	+18 40 40.7	017					

C/1996 B2	1996 03 19.10347	14 54 04.45	-04 04 52.8	105
C/1996 B2	1996 03 23.04972	14 47 47.86	+23 22 18.7	089
C/1996 B2	1996 03 23.05340	14 47 46.97	+23 24 59.8	089
C/1996 B2	1996 03 23.06416	14 47 44.52	+23 32 52.1	089
C/1996 B2	1996 03 23.06930	14 47 43.44	+23 36 36.3	089
C/1996 B2	1996 03 23.07703	14 47 41.70	+23 42 18.3	3 089
C/1996 B2	1996 03 23.07932	14 47 41.14	+23 43 56.9	3 089
C/1996 B2	1996 03 23.08257	14 47 40.38	+23 46 21.8	3 089
C/1996 B2	1996 03 23.08671	14 47 39.53	+23 49 25.1	3 089
C/1996 B2	1996 03 26.98429	10 36 27.80	+86 09 35.6	3 089
C/1996 B2	1996 03 26.98702	10 34 27.24	+86 10 30.7	3 089
C/1996 B2	1996 04 01.73383	03 11 47.02	+52 38 30.0	089
C/1996 B2	1996 04 01.73645	03 11 46.62	+52 38 03.3	089
C/1996 B2	1996 04 01.74213	03 11 46.04	+52 37 09.1	089
C/1996 B2	1996 04 01.74562	03 11 45.55	+52 36 32.0	089
C/1996 B2	1996 04 01.76975	03 11 42.75	+52 32 30.4	089
C/1996 B2	1996 04 01.78386	03 11 40.98	+52 30 10.2	089
C/1996 B2	1996 04 01.80310	03 11 38.85	+52 26 59.5	089
C/1996 B2	1996 04 01.80656	03 11 38.47	+52 26 25.6	089
C/1996 B2	1996 04 01.81227	03 11 37.84	+52 25 30.1	089
C/1996 B2	1996 04 01.81642	03 11 37.36	+52 24 48.2	089
C/1996 B2	1996 04 04.77818	03 07 24.11	+46 21 23.4	089
C/1996 B2	1996 04 04.78157	03 07 23.83	+46 21 04.0	089
C/1996 B2	1996 04 04.78439	03 07 23.69	+46 20 48.6	089
C/1996 B2	1996 04 04.78678	03 07 23.49	+46 20 35.2	089
C/1996 B2	1996 04 04.78885	03 07 23.39	+46 20 23.3	089
C/1996 B2	1996 04 04.79195	03 07 23.16	+46 20 05.2	089
C/1996 B2	1996 04 04.79440	03 07 23.04	+46 19 52.7	089
C/1996 B2	1996 04 04.79681	03 07 22.84	+46 19 38.6	089
C/1996 B2	1996 04 04.79896	03 07 22.72	+46 19 27.2	089
C/1996 B2	1996 04 05.72963	03 06 24.23	+44 59 12.9	089
C/1996 B2	1996 04 05.73238	03 06 24.04	+44 58 59.8	089
C/1996 B2	1996 04 05.73463	03 06 23.91	+44 58 48.6	089
C/1996 B2	1996 04 05.74000	03 06 23.58	+44 58 22.5	089
C/1996 B2	1996 04 05.74212	03 06 23.50	+44 58 12.3	089
C/1996 B2	1996 04 05.74496	03 06 23.30	+44 57 58.2	089
C/1996 B2	1996 04 05.74697	03 06 23.18	+44 57 48.0	089
C/1996 B2	1996 04 05.75044	03 06 22.94	+44 57 30.7	089
C/1996 B2	1996 04 05.75532	03 06 22.66	+44 57 07.7	089
C/1996 B2	1996 04 05.75729	03 06 22.54	+44 56 57.8	089
C/1996 B2	1996 04 05.76036	03 06 22.36	+44 56 42.9	089
C/1996 B2	1996 04 05.76305	03 06 22.17	+44 56 30.0	089
C/1996 B2	1996 05 23.91146	02 45 40.75	-11 42 40.8	323
C/1996 B2	1996 05 28.90729	02 57 59.60	-18 16 48.8	323

C/1996 J1 (Evans-Drinkwater)

C/1996 J1	1996 05 22.89308	10 52 29.37	-21 50 32.4	472
C/1996 J1	1996 05 22.90105	10 52 29.43	-21 50 28.0	472

P/1996 N2 (Elst-Pizarro)

P/1996 N2	1996 12 14.11896	22 14 57.39	-11 06 42.7	20.4 T	691
P/1996 N2	1996 12 14.12169	22 14 57.58	-11 06 41.8	20.4 T	691
P/1996 N2	1996 12 14.12410	22 14 57.78	-11 06 40.7	20.4 T	691

P/1996 N2	1996 12 15.09867	22 16 09.92	-11 00 09.9	20.3 T	691
P/1996 N2	1996 12 15.10105	22 16 10.06	-11 00 09.0	20.2 T	691
P/1996 N2	1996 12 15.10331	22 16 10.24	-11 00 08.0	20.1 T	691

C/1996 P2 (Russell-Watson)

C/1996 P2	1996 11 28.52048	00 55 12.07	-30 42 50.3		897
C/1996 P2	1996 12 01.52647	00 55 21.49	-30 12 19.4		897
C/1996 P2	1996 12 01.53753	00 55 21.62	-30 12 13.6		897
C/1996 P2	1997 02 09.43767	01 31 04.03	-17 55 33.6	16.7 T	360
C/1996 P2	1997 02 09.44097	01 31 04.16	-17 55 32.4		360

C/1996 Q1 (Tabur)

C/1996 Q1	1996 10 05.04896	08 12 08.85	+44 20 25.3		105
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C/1996 R1 (Hergenrother-Spahr)

C/1996 R1	1996 12 01.36262	20 30 08.56	-21 10 27.1	17.2 T	897
C/1996 R1	1996 12 01.36956	20 30 08.74	-21 10 30.2		897
C/1996 R1	1996 12 01.37650	20 30 08.84	-21 10 34.9		897

P/1996 R2 (Lagerkvist)

P/1996 R2	1996 11 15.49001	22 32 45.79	-11 24 09.7		897
P/1996 R2	1996 11 15.50389	22 32 46.26	-11 24 03.9	17.1 T	897
P/1996 R2	1996 12 02.38531	22 46 56.28	-09 37 23.2	17.7 T	897
P/1996 R2	1996 12 02.40615	22 46 57.39	-09 37 15.1		897
P/1996 R2	1996 12 02.41713	22 46 58.11	-09 37 10.8		897
P/1996 R2	1996 12 29.82428	23 18 30.54	-05 50 52.2		587
P/1996 R2	1997 01 10.79351	23 34 38.75	-03 56 16.4		587
P/1996 R2	1997 01 10.80173	23 34 39.35	-03 56 10.3		587
P/1996 R2	1997 01 11.76024	23 35 59.80	-03 46 41.7		587
P/1996 R2	1997 01 11.76284	23 36 00.16	-03 46 39.6	4	587
P/1996 R2	1997 01 11.76759	23 36 00.49	-03 46 36.7		587
P/1996 R2	1997 01 12.72216	23 37 20.81	-03 37 06.8	5	587
P/1996 R2	1997 01 12.72980	23 37 21.45	-03 37 03.1	5	587

C/1997 A1 (NEAT)

C/1997 A1	1997 01 15.91678	09 28 40.76	+18 14 44.6	17.5 T	599
C/1997 A1	1997 01 15.94884	09 28 36.73	+18 15 22.3		599
C/1997 A1	1997 01 15.96544	09 28 34.65	+18 15 44.1		599
C/1997 A1	1997 01 18.81324	09 22 30.55	+19 14 40.4	16.2 T	864
C/1997 A1	1997 01 18.82130	09 22 29.44	+19 14 50.6		864
C/1997 A1	1997 01 20.69479	09 18 20.66	+19 54 00.5	17.1 T	402
C/1997 A1	1997 01 20.69722	09 18 20.33	+19 54 03.6		402
C/1997 A1	1997 01 20.70000	09 18 19.96	+19 54 06.1		402
C/1997 A1	1997 01 28.80359	08 59 06.49	+22 44 08.9		104
C/1997 A1	1997 01 28.80799	08 59 05.77	+22 44 14.6		104
C/1997 A1	1997 01 29.55951	08 57 13.48	+22 59 45.5	16.2 T	900
C/1997 A1	1997 01 29.57205	08 57 11.53	+23 00 01.3	16.5 T	900
C/1997 A1	1997 01 31.64306	08 51 58.15	+23 42 35.2	16.9 T	360
C/1997 A1	1997 01 31.64774	08 51 57.42	+23 42 40.9		360
C/1997 A1	1997 02 01.61894	08 49 28.83	+24 02 23.9		355
C/1997 A1	1997 02 01.63570	08 49 26.23	+24 02 44.8	17.0 T	355
C/1997 A1	1997 02 01.79481	08 49 02.02	+24 05 54.5		108
C/1997 A1	1997 02 01.84773	08 48 54.00	+24 06 58.6		108
C/1997 A1	1997 02 01.85742	08 48 52.48	+24 07 09.6	17.2 T	108
C/1997 A1	1997 02 03.45144	08 44 46.06	+24 39 09.5	17.6 T	566

C/1997 A1	1997 02 03.46003	08 44 44.73	+24 39 20.7	17.8 T	566	P/1997 B1	1997 02 03.67395	09 58 14.18	+16 00 09.7		355
C/1997 A1	1997 02 03.46939	08 44 43.27	+24 39 31.4	17.7 T	566	P/1997 B1	1997 02 03.69410	09 58 13.39	+16 00 00.2		355
C/1997 A1	1997 02 03.58593	08 44 25.21	+24 41 49.6		897	P/1997 B1	1997 02 03.69966	09 58 13.21	+15 59 58.3		355
C/1997 A1	1997 02 03.59400	08 44 24.05	+24 41 59.0	17.1 T	897	P/1997 B1	1997 02 03.90250	09 58 06.63	+15 58 23.2		557
C/1997 A1	1997 02 05.49502	08 39 27.96	+25 19 18.2	16.5 T	402	P/1997 B1	1997 02 03.90515	09 58 06.52	+15 58 22.5	17.7 N	557
C/1997 A1	1997 02 05.49757	08 39 27.55	+25 19 20.6		402	P/1997 B1	1997 02 03.90781	09 58 06.39	+15 58 21.0		557
C/1997 A1	1997 02 05.50000	08 39 27.13	+25 19 23.6		402	P/1997 B1	1997 02 03.91046	09 58 06.32	+15 58 19.7		557
C/1997 A1	1997 02 06.35308	08 37 13.53	+25 35 53.1	18.4 T	608	P/1997 B1	1997 02 03.99157	09 58 03.41	+15 57 43.2	17.8 N	046
C/1997 A1	1997 02 06.39178	08 37 07.42	+25 36 37.7	18.3 T	608	P/1997 B1	1997 02 03.99368	09 58 03.32	+15 57 42.3		046
C/1997 A1	1997 02 06.43070	08 37 01.27	+25 37 22.2	18.0 T	566	P/1997 B1	1997 02 03.99625	09 58 03.25	+15 57 41.0		046
C/1997 A1	1997 02 06.44089	08 36 59.68	+25 37 33.8	17.9 T	566	P/1997 B1	1997 02 04.23674	09 57 55.23	+15 55 53.1	17.8 N	709
C/1997 A1	1997 02 06.44961	08 36 58.35	+25 37 44.0	17.9 T	566	P/1997 B1	1997 02 04.24705	09 57 54.83	+15 55 48.3	17.8 N	709
C/1997 A1	1997 02 07.36353	08 34 35.10	+25 55 07.2	17.9 T	566	P/1997 B1	1997 02 04.25889	09 57 54.40	+15 55 43.1	17.8 N	709
C/1997 A1	1997 02 07.37196	08 34 33.68	+25 55 16.9	18.5 T	566	P/1997 B1	1997 02 04.26837	09 57 54.05	+15 55 38.8	17.8 N	709
C/1997 A1	1997 02 07.38035	08 34 32.20	+25 55 26.8	18.3 T	566	P/1997 B1	1997 02 04.34843	09 57 51.45	+15 55 03.6	17.9 T	608
C/1997 A1	1997 02 07.88524	08 33 12.78	+26 04 54.9		108	P/1997 B1	1997 02 04.39337	09 57 49.77	+15 54 43.8	18.0 T	608
C/1997 A1	1997 02 07.89566	08 33 11.33	+26 05 09.3		108	P/1997 B1	1997 02 04.43548	09 57 48.20	+15 54 23.5	18.4 N	566
C/1997 A1	1997 02 09.60469	08 28 42.54	+26 36 48.8	17.0 T	360	P/1997 B1	1997 02 04.45648	09 57 47.41	+15 54 13.8	18.2 N	566
C/1997 A1	1997 02 09.61285	08 28 41.26	+26 36 57.6		360	P/1997 B1	1997 02 04.47186	09 57 46.49	+15 54 05.6	17.5 N	657
C/1997 A1	1997 02 09.87381	08 28 00.30	+26 41 42.0	17.9 T	046	P/1997 B1	1997 02 04.47527	09 57 46.68	+15 54 05.7	18.3 N	566
C/1997 A1	1997 02 09.87609	08 27 59.90	+26 41 44.7		046	P/1997 B1	1997 02 04.48063	09 57 46.28	+15 54 00.2	17.7 N	657
C/1997 A1	1997 02 09.87846	08 27 59.62	+26 41 47.0		046	P/1997 B1	1997 02 04.48720	09 57 46.07	+15 53 55.3	17.5 N	657
C/1997 A1	1997 02 10.46181	08 26 27.62	+26 52 22.5	18.3 T	608	P/1997 B1	1997 02 04.60091	09 57 42.51	+15 53 05.5	17.3 N	897
C/1997 A1	1997 02 10.50172	08 26 21.28	+26 53 05.5	17.1 T	608	P/1997 B1	1997 02 04.61927	09 57 41.84	+15 52 58.1	17.1 N	897
P/1997 B1 (Kobayashi)						P/1997 B1	1997 02 04.69071	09 57 39.25	+15 52 23.6		327
P/1997 B1	1997 01 30.70931	10 00 20.77	+16 29 55.6	18 N	411	P/1997 B1	1997 02 04.69541	09 57 39.12	+15 52 22.1		327
P/1997 B1	1997 01 30.72829	10 00 20.04	+16 29 48.0		411	P/1997 B1	1997 02 04.70008	09 57 38.88	+15 52 19.5		327
P/1997 B1	1997 01 31.66902	09 59 51.71	+16 22 47.8		411	P/1997 B1	1997 02 04.70484	09 57 38.75	+15 52 17.7	17.5 T	327
P/1997 B1	1997 01 31.68528	09 59 51.20	+16 22 40.5		411	P/1997 B1	1997 02 04.74323	09 57 37.22	+15 52 01.0	17.5 T	360
P/1997 B1	1997 02 01.52586	09 59 25.23	+16 16 22.0		411	P/1997 B1	1997 02 04.74844	09 57 37.02	+15 51 58.6		360
P/1997 B1	1997 02 01.60542	09 59 22.53	+16 15 47.2		411	P/1997 B1	1997 02 04.75486	09 57 36.76	+15 51 55.6		360
P/1997 B1	1997 02 01.76377	09 59 17.02	+16 14 35.2		411	P/1997 B1	1997 02 05.35028	09 57 16.47	+15 47 24.4	18.0 T	608
P/1997 B1	1997 02 01.77053	09 59 16.75	+16 14 31.5		411	P/1997 B1	1997 02 05.39242	09 57 14.87	+15 47 05.3	18.0 T	608
P/1997 B1	1997 02 02.59105	09 58 50.59	+16 08 22.9	17.6 N	367	P/1997 B1	1997 02 05.54201	09 57 09.63	+15 45 53.4	17.8 T	402
P/1997 B1	1997 02 02.60067	09 58 50.28	+16 08 18.0		367	P/1997 B1	1997 02 05.54444	09 57 09.53	+15 45 52.4		402
P/1997 B1	1997 02 02.83560	09 58 42.63	+16 06 28.4	17.7 N	046	P/1997 B1	1997 02 05.54653	09 57 09.46	+15 45 51.4		402
P/1997 B1	1997 02 02.83896	09 58 42.51	+16 06 27.4		046	P/1997 B1	1997 02 05.54965	09 57 09.33	+15 45 49.7		402
P/1997 B1	1997 02 02.84227	09 58 42.36	+16 06 25.5		046	P/1997 B1	1997 02 06.39447	09 56 38.70	+15 39 17.2		657
P/1997 B1	1997 02 02.84439	09 58 42.28	+16 06 24.7		046	P/1997 B1	1997 02 06.39957	09 56 38.52	+15 39 15.2		657
P/1997 B1	1997 02 02.85437	09 58 42.09	+16 06 20.3		046	P/1997 B1	1997 02 06.40985	09 56 38.07	+15 39 10.3		657
P/1997 B1	1997 02 02.85667	09 58 41.92	+16 06 18.9		046	P/1997 B1	1997 02 06.65525	09 56 29.22	+15 37 18.6		385
P/1997 B1	1997 02 03.20292	09 58 30.41	+16 03 43.9	17.8 N	709	P/1997 B1	1997 02 06.65969	09 56 29.08	+15 37 17.0		385
P/1997 B1	1997 02 03.20808	09 58 30.24	+16 03 41.5	17.7 N	709	P/1997 B1	1997 02 06.66390	09 56 28.90	+15 37 15.0		385
P/1997 B1	1997 02 03.21508	09 58 30.00	+16 03 38.4	17.8 N	709	P/1997 B1	1997 02 06.69046	09 56 27.89	+15 37 01.8		411
P/1997 B1	1997 02 03.22051	09 58 29.81	+16 03 36.0	17.7 N	709	P/1997 B1	1997 02 06.69864	09 56 27.60	+15 36 58.3		411
P/1997 B1	1997 02 03.23778	09 58 29.17	+16 03 28.2	17.6 N	709	P/1997 B1	1997 02 06.97288	09 56 17.76	+15 34 49.8	17.9 T	046
P/1997 B1	1997 02 03.25034	09 58 28.71	+16 03 22.6	17.3 T	709	P/1997 B1	1997 02 06.97521	09 56 17.70	+15 34 48.6		046
P/1997 B1	1997 02 03.56081	09 58 18.31	+16 01 00.5		897	P/1997 B1	1997 02 06.97823	09 56 17.58	+15 34 47.2		046
P/1997 B1	1997 02 03.56689	09 58 18.02	+16 00 58.0		897	P/1997 B1	1997 02 07.96752	09 55 41.29	+15 27 06.2		108
P/1997 B1	1997 02 03.57109	09 58 17.97	+16 00 55.4	17.4 N	897	P/1997 B1	1997 02 07.98347	09 55 40.50	+15 26 58.9		108
P/1997 B1	1997 02 03.57119	09 58 17.91	+16 00 55.8		411	P/1997 B1	1997 02 07.99235	09 55 40.15	+15 26 54.2		108
P/1997 B1	1997 02 03.57627	09 58 17.69	+16 00 54.0		411	P/1997 B1	1997 02 08.73716	09 55 12.14	+15 21 06.6	17.3 T	900

P/1997 B1	1997 02 08.75692	09 55 11.27	+15 20 57.6		900	C/1997 BA ₆	1997 02 06.84304	09 20 11.29	+12 57 02.7	19.2 N	6 557
P/1997 B1	1997 02 08.98734	09 55 02.71	+15 19 08.5		108	C/1997 BA ₆	1997 02 07.32733	09 19 57.01	+12 57 04.2	19.6 N	691
P/1997 B1	1997 02 09.01957	09 55 01.65	+15 18 52.3		108	C/1997 BA ₆	1997 02 07.34908	09 19 56.34	+12 57 04.6	19.4 N	691
P/1997 B1	1997 02 09.34062	09 54 49.65	+15 16 23.7		670	C/1997 BA ₆	1997 02 07.35625	09 19 56.11	+12 57 05.7	19.3 N	608
P/1997 B1	1997 02 09.36424	09 54 48.74	+15 16 09.6		670	C/1997 BA ₆	1997 02 07.37071	09 19 55.71	+12 57 04.7	19.6 N	691
P/1997 B1	1997 02 09.39896	09 54 47.29	+15 15 56.4	18 N	670	C/1997 BA ₆	1997 02 07.40538	09 19 54.80	+12 57 06.7	18.7 N	608
P/1997 B1	1997 02 09.67882	09 54 36.70	+15 13 43.4	17.4 T	360	C/1997 BA ₆	1997 02 08.20034	09 19 31.45	+12 57 10.5	19.3 N	709
P/1997 B1	1997 02 09.68507	09 54 36.45	+15 13 40.3		360	C/1997 BA ₆	1997 02 08.20492	09 19 31.30	+12 57 10.6	18.9 N	709
P/1997 B1	1997 02 09.69149	09 54 36.17	+15 13 37.3		360	C/1997 BA ₆	1997 02 08.21667	09 19 30.93	+12 57 10.8	19.1 N	709
P/1997 B1	1997 02 09.76285	09 54 33.28	+15 13 03.1	18.2 T	402	C/1997 BA ₆	1997 02 08.24356	09 19 30.17	+12 57 11.1	19.1 N	709
P/1997 B1	1997 02 09.76528	09 54 33.14	+15 13 02.0		402	C/1997 BA ₆	1997 02 08.26899	09 19 29.44	+12 57 11.5	18.6 N	5 709
P/1997 B1	1997 02 09.76771	09 54 33.03	+15 13 00.6		402	C/1997 BA ₆	1997 02 08.29662	09 19 28.59	+12 57 11.6	19.1 N	608
P/1997 B1	1997 02 09.96773	09 54 25.76	+15 11 24.7		557	C/1997 BA ₆	1997 02 08.34127	09 19 27.30	+12 57 11.3	19.1 N	608
P/1997 B1	1997 02 09.98081	09 54 25.24	+15 11 18.9		557	C/1997 BA ₆	1997 02 09.94670	09 18 39.98	+12 57 22.6	18.6 N	046
P/1997 B1	1997 02 09.98348	09 54 25.14	+15 11 17.5		557	C/1997 BA ₆	1997 02 09.94943	09 18 39.85	+12 57 22.7		046
P/1997 B1	1997 02 10.01910	09 54 23.76	+15 11 00.9	18.0 T	046	C/1997 BA ₆	1997 02 09.95226	09 18 39.75	+12 57 23.2		046
P/1997 B1	1997 02 10.02138	09 54 23.65	+15 10 59.6		046	C/1997 BA ₆	1997 02 09.99589	09 18 38.41	+12 57 22.5	18.6 N	046
P/1997 B1	1997 02 10.02549	09 54 23.48	+15 10 57.7		046	C/1997 BA ₆	1997 02 09.99863	09 18 38.31	+12 57 24.1		046
P/1997 B1	1997 02 11.56882	09 53 24.48	+14 58 45.2		385	C/1997 BA ₆	1997 02 10.19906	09 18 32.51	+12 57 24.8	20.3 N	709
P/1997 B1	1997 02 11.57321	09 53 24.29	+14 58 43.2		385	C/1997 BA ₆	1997 02 10.20819	09 18 32.24	+12 57 25.0	20.3 N	709
P/1997 B1	1997 02 11.57741	09 53 24.14	+14 58 41.3		385	C/1997 BA ₆	1997 02 10.21431	09 18 32.06	+12 57 25.1	20.1 N	709
P/1997 B1	1997 02 11.65082	09 53 21.10	+14 58 05.8		411	C/1997 BA ₆	1997 02 10.22213	09 18 31.82	+12 57 24.9	20.1 N	709
P/1997 B1	1997 02 11.65487	09 53 20.97	+14 58 04.1		411	C/1997 BA ₆	1997 02 10.23120	09 18 31.53	+12 57 24.9	20.3 N	709
P/1997 B1	1997 02 11.66008	09 53 20.73	+14 58 01.0		355	C/1997 BA ₆	1997 02 10.87398	09 18 12.59	+12 57 28.5	18.6 N	046
P/1997 B1	1997 02 11.66358	09 53 20.58	+14 57 59.7		355	C/1997 BA ₆	1997 02 10.87586	09 18 12.54	+12 57 29.4		046
P/1997 B1	1997 02 11.66979	09 53 20.32	+14 57 56.6		355	C/1997 BA ₆	1997 02 10.87874	09 18 12.46	+12 57 30.5		046
P/1997 B1	1997 02 11.69201	09 53 19.43	+14 57 46.3	17.7 T	897	C/1997 BA ₆	1997 02 11.17848	09 18 03.63	+12 57 31.4	20.5 N	709
P/1997 B1	1997 02 11.70222	09 53 18.99	+14 57 41.2		897	C/1997 BA ₆	1997 02 11.18692	09 18 03.40	+12 57 31.4	20.4 N	709
P/1997 B1	1997 02 12.52217	09 52 47.72	+14 51 08.3		411	C/1997 BA ₆	1997 02 11.19094	09 18 03.23	+12 57 31.5	20.5 N	709
P/1997 B1	1997 02 12.53477	09 52 47.18	+14 51 01.8		411	C/1997 BA ₆	1997 02 11.19499	09 18 03.14	+12 57 31.7	20.4 N	709
P/1997 B1	1997 02 14.00715	09 51 49.74	+14 39 08.9	17.8 T	966	C/1997 BA ₆	1997 02 11.19903	09 18 03.02	+12 57 31.4	20.5 N	709
P/1997 B1	1997 02 14.05253	09 51 47.99	+14 38 46.3		966	C/1997 BA ₆	1997 02 11.20306	09 18 02.91	+12 57 31.5	20.4 N	709
P/1997 B1	1997 02 14.52622	09 51 29.84	+14 34 58.6		411	C/1997 BA ₆	1997 02 11.20708	09 18 02.81	+12 57 31.8	20.3 N	709
P/1997 B1	1997 02 14.53704	09 51 29.43	+14 34 53.6		411	C/1997 BA ₆	1997 02 13.28425	09 17 01.61	+12 57 45.9		711
P/1997 B1	1997 02 14.55812	09 51 28.53	+14 34 43.1		411	C/1997 BA ₆	1997 02 13.69514	09 16 49.48	+12 57 49.6	19.3 N	7 360
P/1997 B1	1997 02 14.58854	09 51 27.35	+14 34 27.9	17.1 T	367	C/1997 BA ₆	1997 02 13.69583	09 16 49.56	+12 57 48.9	18.9 N	402
P/1997 B1	1997 02 14.59236	09 51 27.16	+14 34 26.2		367	C/1997 BA ₆	1997 02 13.69948	09 16 49.37	+12 57 50.0		402
C/1997 BA ₆ (Spacewatch)						C/1997 BA ₆	1997 02 13.70174	09 16 49.25	+12 57 49.3		7 360
C/1997 BA ₆	1997 01 11.45087	09 32 15.19	+12 57 01.0	20.0 N	691	C/1997 BA ₆	1997 02 13.70324	09 16 49.25	+12 57 50.5		402
C/1997 BA ₆	1997 01 11.47279	09 32 14.64	+12 57 01.2	20.0 N	691	C/1997 BA ₆	1997 02 13.71215	09 16 48.98	+12 57 49.1		7 360
C/1997 BA ₆	1997 01 11.49466	09 32 14.12	+12 57 00.4	20.0 N	691	C/1997 BA ₆	1997 02 13.90544	09 16 43.40	+12 57 49.9		8 587
C/1997 BA ₆	1997 01 31.36963	09 23 20.03	+12 56 21.7	19.4 N	691	C/1997 BA ₆	1997 02 14.85757	09 16 15.43	+12 57 56.7		5 587
C/1997 BA ₆	1997 01 31.39270	09 23 19.39	+12 56 22.1	19.5 N	691	C/1997 BA ₆	1997 02 14.90399	09 16 14.04	+12 57 56.6		5 587
C/1997 BA ₆	1997 01 31.41460	09 23 18.73	+12 56 21.9	19.7 N	691	P/1997 C1 (Gehrels)					
C/1997 BA ₆	1997 02 02.29761	09 22 24.22	+12 56 32.4	19.6 N	691	P/1997 C1	1997 02 01.36102	09 11 33.00	+12 17 35.0	17.9 T	691
C/1997 BA ₆	1997 02 02.36435	09 22 22.24	+12 56 32.8	19.7 N	691	P/1997 C1	1997 02 01.38901	09 11 32.08	+12 17 38.9		691
C/1997 BA ₆	1997 02 02.39675	09 22 21.30	+12 56 32.9	19.7 N	691	P/1997 C1	1997 02 01.41641	09 11 31.13	+12 17 43.0		691
C/1997 BA ₆	1997 02 03.33640	09 21 53.94	+12 56 38.2	19.7 N	691	P/1997 C1	1997 02 02.01610	09 11 11.05	+12 19 13.4	17.9 T	046
C/1997 BA ₆	1997 02 03.34764	09 21 53.62	+12 56 38.3	19.6 N	691	P/1997 C1	1997 02 02.01816	09 11 11.00	+12 19 13.4		046
C/1997 BA ₆	1997 02 03.35883	09 21 53.31	+12 56 38.3	19.4 N	691	P/1997 C1	1997 02 02.02000	09 11 10.99	+12 19 13.8		046
C/1997 BA ₆	1997 02 06.81337	09 20 12.19	+12 57 01.4		6 557	P/1997 C1	1997 02 02.02227	09 11 10.87	+12 19 14.6		046
C/1997 BA ₆	1997 02 06.81646	09 20 12.14	+12 57 01.0		6 557	P/1997 C1	1997 02 02.02534	09 11 10.71	+12 19 14.8		046

P/1997 C1	1997 02 02.12767	09 11 07.29	+12 19 30.0	17.9	T	046
P/1997 C1	1997 02 02.13094	09 11 07.17	+12 19 30.2			046
P/1997 C1	1997 02 02.13375	09 11 06.98	+12 19 31.0			046
P/1997 C1	1997 02 02.15372	09 11 06.61	+12 19 34.2	18.0	T	709
P/1997 C1	1997 02 02.15743	09 11 06.49	+12 19 34.7	17.9	T	709
P/1997 C1	1997 02 02.17132	09 11 06.01	+12 19 37.2	17.9	T	709
P/1997 C1	1997 02 02.17826	09 11 05.79	+12 19 38.2	18.0	T	709
P/1997 C1	1997 02 02.18521	09 11 05.53	+12 19 39.3	18.0	T	709
P/1997 C1	1997 02 02.19215	09 11 05.29	+12 19 40.3	18.0	T	709
P/1997 C1	1997 02 02.19910	09 11 05.07	+12 19 41.5	18.1	T	709
P/1997 C1	1997 02 02.50728	09 10 54.60	+12 20 28.6	17.1	T	367
P/1997 C1	1997 02 02.51690	09 10 54.20	+12 20 28.8			367
P/1997 C1	1997 02 02.60030	09 10 51.27	+12 20 41.0			327
P/1997 C1	1997 02 02.60463	09 10 51.16	+12 20 41.3			327
P/1997 C1	1997 02 02.60896	09 10 51.05	+12 20 41.7			327
P/1997 C1	1997 02 02.61329	09 10 50.87	+12 20 43.4	17.8	T	327
P/1997 C1	1997 02 02.81785	09 10 44.12	+12 21 15.3	18.0	T	046
P/1997 C1	1997 02 02.82204	09 10 43.93	+12 21 16.1			046
P/1997 C1	1997 02 02.82769	09 10 43.84	+12 21 16.5			046
P/1997 C1	1997 02 02.88035	09 10 41.76	+12 21 26.5	17.5	T	540
P/1997 C1	1997 02 02.89616	09 10 41.31	+12 21 27.5			540
P/1997 C1	1997 02 02.90784	09 10 40.97	+12 21 29.6			540
P/1997 C1	1997 02 02.95108	09 10 39.47	+12 21 35.7	17.0	T	966
P/1997 C1	1997 02 02.95374	09 10 39.30	+12 21 38.6			966
P/1997 C1	1997 02 03.00616	09 10 37.57	+12 21 44.7			966
P/1997 C1	1997 02 03.00869	09 10 37.61	+12 21 46.5			966
P/1997 C1	1997 02 03.06723	09 10 35.47	+12 21 53.4	17.9	T	7 118
P/1997 C1	1997 02 03.32052	09 10 26.99	+12 22 32.2	21.0	N	691
P/1997 C1	1997 02 03.32442	09 10 26.86	+12 22 32.7	17.8	T	691
P/1997 C1	1997 02 03.32823	09 10 26.71	+12 22 32.9	17.8	T	691
P/1997 C1	1997 02 03.52529	09 10 20.11	+12 23 05.6			897
P/1997 C1	1997 02 03.53935	09 10 19.71	+12 23 05.9	17.7	T	897
P/1997 C1	1997 02 03.55322	09 10 19.17	+12 23 08.7	17.6	T	897
P/1997 C1	1997 02 03.64445	09 10 16.05	+12 23 23.2	17.3	T	355
P/1997 C1	1997 02 03.65579	09 10 15.59	+12 23 23.4			355
P/1997 C1	1997 02 03.94023	09 10 06.08	+12 24 07.1	18.4	N	557
P/1997 C1	1997 02 03.94352	09 10 05.95	+12 24 07.3	17.8	T	557
P/1997 C1	1997 02 03.94649	09 10 05.83	+12 24 07.7			557
P/1997 C1	1997 02 03.94969	09 10 05.75	+12 24 08.5			557
P/1997 C1	1997 02 04.53461	09 09 45.95	+12 25 40.0			897
P/1997 C1	1997 02 04.55015	09 09 45.53	+12 25 42.6			897
P/1997 C1	1997 02 04.59351	09 09 44.12	+12 25 48.6			327
P/1997 C1	1997 02 04.59859	09 09 43.84	+12 25 49.1			327
P/1997 C1	1997 02 04.60383	09 09 43.65	+12 25 49.8	18.3	T	327
P/1997 C1	1997 02 04.60885	09 09 43.54	+12 25 50.9			327
P/1997 C1	1997 02 04.62545	09 09 42.79	+12 25 53.4			897
P/1997 C1	1997 02 04.70972					

P/1997 C1	1997 02 06.34093	09 08 45.09	+12 30 19.4	18.1 T	683
P/1997 C1	1997 02 06.34900	09 08 44.83	+12 30 20.7	18.4 T	683
P/1997 C1	1997 02 06.35633	09 08 44.57	+12 30 21.8	17.9 T	683
P/1997 C1	1997 02 06.63615	09 08 35.13	+12 31 05.0		385
P/1997 C1	1997 02 06.64494	09 08 34.84	+12 31 06.0		385
P/1997 C1	1997 02 06.85256	09 08 28.00	+12 31 37.3	17.4 T	596
P/1997 C1	1997 02 06.86286	09 08 27.68	+12 31 40.4		596
P/1997 C1	1997 02 06.87316	09 08 27.34	+12 31 41.3		596
P/1997 C1	1997 02 06.88491	09 08 26.98	+12 31 43.2		596
P/1997 C1	1997 02 06.96416	09 08 24.20	+12 31 55.2	18.0 T	046
P/1997 C1	1997 02 06.96659	09 08 24.12	+12 31 55.7		046
P/1997 C1	1997 02 06.96868	09 08 24.09	+12 31 56.2		046
P/1997 C1	1997 02 07.29693	09 08 13.03	+12 32 48.5	17.8 T	683
P/1997 C1	1997 02 07.30404	09 08 12.78	+12 32 49.5	17.9 T	683
P/1997 C1	1997 02 07.31287	09 08 12.50	+12 32 50.6	18.3 T	683
P/1997 C1	1997 02 07.31940	09 08 12.03	+12 32 50.9	18.0 T	691
P/1997 C1	1997 02 07.34120	09 08 11.31	+12 32 54.3	18.0 T	691
P/1997 C1	1997 02 07.36282	09 08 10.56	+12 32 57.8	18.0 T	691
P/1997 C1	1997 02 07.83867	09 07 55.18	+12 34 12.0	17.8 T	596
P/1997 C1	1997 02 07.84897	09 07 54.61	+12 34 13.7		596
P/1997 C1	1997 02 07.87464	09 07 53.82	+12 34 16.0		596
P/1997 C1	1997 02 09.65851	09 06 54.44	+12 38 55.0	17.9 T	360
P/1997 C1	1997 02 09.66319	09 06 54.28	+12 38 55.8		360
P/1997 C1	1997 02 09.66840	09 06 54.10	+12 38 56.7		360
P/1997 C1	1997 02 09.75069	09 06 51.28	+12 39 09.3	17.4 T	402
P/1997 C1	1997 02 09.75660	09 06 51.07	+12 39 10.3		402
P/1997 C1	1997 02 10.01032	09 06 42.76	+12 39 50.0	18.0 T	046
P/1997 C1	1997 02 10.01238	09 06 42.70	+12 39 49.8		046
P/1997 C1	1997 02 10.01441	09 06 42.61	+12 39 50.0		046
P/1997 C1	1997 02 11.28885	09 06 00.84	+12 43 08.5	20.9 N	691
P/1997 C1	1997 02 11.29683	09 06 00.58	+12 43 10.1	17.8 T	691
P/1997 C1	1997 02 11.30423	09 06 00.32	+12 43 11.2	17.8 T	691
P/1997 C1	1997 02 11.58395	09 05 51.23	+12 43 55.5		385
P/1997 C1	1997 02 11.59242	09 05 50.88	+12 43 56.0		385
P/1997 C1	1997 02 11.61206	09 05 50.26	+12 43 58.4	17.6 T	897
P/1997 C1	1997 02 11.63373	09 05 49.60	+12 44 03.4		897
P/1997 C1	1997 02 11.66014	09 05 48.66	+12 44 06.5	17.7 T	897
P/1997 C1	1997 02 13.66076	09 04 44.33	+12 49 16.8	17.8 T	402
P/1997 C1	1997 02 13.67494	09 04 43.81	+12 49 19.8		402
P/1997 C1	1997 02 15.26898	09 03 53.49	+12 53 23.6	20.9 N	691
P/1997 C1	1997 02 15.30027	09 03 52.48	+12 53 28.4	18.2 T	691
P/1997 C1	1997 02 15.32997	09 03 51.51	+12 53 32.8	18.3 T	691
6P/d'Arrest					
6P	1995 06 26.05178	21 50 17.69	+09 07 30.6		472
6P	1995 06 26.06338	21 50 19.75	+09 07 27.0		472
9P/Tempel 1					
9P	1996 12 14.26721	03 33 35.34	+17 15 21.6	21.6 T	691
9P	1996 12 14.27237	03 33 35.17	+17 15 21.2	21.9 T	691
9P	1996 12 14.27954	03 33 34.93	+17 15 20.4	22.6 T	691

10P/Tempel 2													
10P	1997 02 13.29589	09 15 49.85	+21 02 42.2	20.6 T	691		29P	1997 02 09.79097	12 10 07.24	-09 35 37.7	16.3 N	360	
10P	1997 02 13.30544	09 15 49.47	+21 02 44.6	20.4 T	691		29P	1997 02 11.76606	12 09 36.30	-09 35 22.5		897	
10P	1997 02 13.31555	09 15 49.00	+21 02 47.7	20.7 T	691		29P	1997 02 11.77751	12 09 36.12	-09 35 22.0		897	
10P	1997 02 15.28265	09 14 23.96	+21 10 37.0	20.5 T	691		32P/Comas Solá						
10P	1997 02 15.31301	09 14 22.63	+21 10 43.9	20.3 T	691		32P	1997 02 09.81910	14 24 40.65	-02 37 21.6	17.0 T	360	
10P	1997 02 15.34245	09 14 21.33	+21 10 51.1	20.1 T	691		32P	1997 02 09.82483	14 24 40.74	-02 37 21.7		360	
22P/Kopff							44P/Reinmuth 2						
22P	1996 05 13.74757	18 46 51.00	-15 52 31.6		323		44P	1994 11 29.11771	01 26 17.20	+20 31 29.1		9 675	
22P	1996 05 21.07197	18 56 04.35	-15 46 41.5		472		44P	1994 11 29.15573	01 26 17.47	+20 31 17.3		9 675	
22P	1996 05 21.08017	18 56 04.87	-15 46 41.3		472		46P/Wirtanen						
22P	1996 05 24.67153	19 00 07.55	-15 45 48.4		323		46P	1996 12 06.41638	21 50 18.92	-24 45 10.0		897	
22P	1996 06 21.72083	19 19 40.28	-17 01 47.0		323		46P	1996 12 06.42450	21 50 19.84	-24 45 04.1		897	
22P	1996 12 01.45759	22 21 25.23	-14 45 57.9		897		46P	1996 12 06.43145	21 50 20.51	-24 44 59.2		897	
22P	1996 12 01.46454	22 21 25.95	-14 45 53.2		897		46P	1997 01 14.76133	23 16 50.33	-13 19 36.7		627	
22P	1997 02 09.41319	00 18 33.73	-02 01 09.8	15.8 T	360		46P	1997 01 14.76886	23 16 51.48	-13 19 26.0		627	
22P	1997 02 09.41649	00 18 34.04	-02 01 06.7		360		46P	1997 01 14.78028	23 16 53.20	-13 19 10.6		627	
23P/Brorsen-Metcalf							46P	1997 02 09.42118	00 29 04.17	-02 38 11.4	12.1 T	360	
23P	1989 08 06.98299	04 24 15.71	+40 30 56.3		056		46P	1997 02 09.42396	00 29 04.68	-02 38 06.8		360	
23P	1989 08 07.00764	04 24 34.52	+40 31 43.0		056		57P/du Toit-Neujmin-Delporte						
23P	1989 08 07.04861	04 25 06.94	+40 33 04.1		056		57P	1996 11 16.60750	02 05 20.45	+10 17 20.6		897	
23P	1989 08 07.06250	04 25 17.46	+40 33 27.3		056		57P	1996 11 16.62139	02 05 20.15	+10 17 19.4		897	
23P	1989 08 10.94306	05 17 20.56	+41 52 43.2		056		57P	1996 11 16.62976	02 05 19.69	+10 17 17.4		897	
23P	1989 08 10.95208	05 17 27.91	+41 52 48.8		056		65P/Gunn						
23P	1989 08 10.97072	05 17 42.99	+41 52 58.8		056		65P	1989 03 07.00278	15 20 34.45	-10 07 10.7		056	
23P	1989 08 10.97708	05 17 48.21	+41 53 01.7		056		65P	1989 03 07.12917	15 20 37.08	-10 07 19.4		056	
23P	1989 08 25.04491	08 01 21.01	+35 40 32.0		056		67P/Churyumov-Gerasimenko						
23P	1989 08 25.05127	08 01 24.59	+35 40 12.0		056		67P	1996 12 14.52897	13 31 31.75	-04 53 37.5		A 691	
23P	1989 09 02.10937	09 02 23.59	+28 26 08.1		056		67P	1996 12 14.53528	13 31 31.98	-04 53 38.8	21.0 T	A 691	
24P/Schaumasse							67P	1996 12 14.53981	13 31 32.37	-04 53 41.3	21.3 T	A 691	
24P	1993 02 15.91598	04 16 55.46	+39 26 13.8		504		69P/Taylor						
24P	1993 03 11.87880	05 58 38.31	+46 53 17.6		504		69P	1991 01 19.25420	07 20 35.69	+25 36 07.2		675	
24P	1993 03 11.87961	05 58 39.06	+46 53 17.9	9.6 T	504		69P	1991 01 19.29410	07 20 33.88	+25 36 53.9		675	
26P/Grigg-Skjellerup							71P/Clark						
26P	1996 12 14.31304	05 21 24.78	-00 33 02.5		691		71P	1996 12 15.21225	02 57 29.23	+15 50 17.6	21.8 T	691	
26P	1996 12 14.31595	05 21 24.55	-00 33 03.1		691		71P	1996 12 15.21699	02 57 29.05	+15 50 17.1	21.6 T	691	
26P	1996 12 15.29932	05 20 15.96	-00 38 21.4	21.1 T	691		71P	1996 12 15.22796	02 57 28.64	+15 50 15.9	21.8 T	691	
26P	1996 12 15.30356	05 20 15.66	-00 38 22.7	21.1 T	691		73P/Schwassmann-Wachmann 3						
26P	1996 12 15.30584	05 20 15.50	-00 38 23.2	21.2 T	691		73P-B	1996 12 14.23182	03 26 46.59	+16 12 24.2	22.4 T	691	
29P/Schwassmann-Wachmann 1							73P-C	1996 12 14.23182	03 26 48.04	+16 12 33.1	22.2 T	691	
29P	1993 02 15.92910	05 11 58.79	+30 07 34.6	12.5 T	504		73P-B	1996 12 14.23566	03 26 46.53	+16 12 24.1	21.9 T	691	
29P	1996 11 30.80952	12 03 40.61	-06 59 16.7	13.1 T	897		73P-C	1996 12 14.23566	03 26 47.98	+16 12 33.2	21.8 T	691	
29P	1996 11 30.82341	12 03 40.96	-06 59 19.1		897		73P-B	1996 12 14.25289	03 26 45.74	+16 12 24.3	22.4 T	691	
29P	1996 12 07.83433	12 06 21.08	-07 26 23.6	13.6 T	897		73P-C	1996 12 14.25289	03 26 47.20	+16 12 32.4	22.3 T	691	
29P	1996 12 07.83641	12 06 21.21	-07 26 24.1		897		81P/Wild 2						
29P	1997 02 04.81372	12 11 15.97	-09 35 01.5	12.9 T	360		81P	1996 12 14.44250	08 22 33.81	+16 35 27.5	12.6 T	691	
29P	1997 02 04.81753	12 11 15.92	-09 35 01.5	16.9 N	360		81P	1996 12 14.44654	08 22 33.83	+16 35 27.5	12.6 T	691	
29P	1997 02 07.06162	12 10 46.67	-09 35 31.0		118		81P	1996 12 14.45109	08 22 33.86	+16 35 27.6	12.6 T	691	
29P	1997 02 07.07212	12 10 46.51	-09 35 30.9	14.0 T	118		81P	1996 12 14.65921	08 22 35.88	+16 35 27.4		897	
29P	1997 02 09.78698	12 10 07.30	-09 35 37.9	12.9 T	360								

1P	1996 12	14.67154	08 22	35.97	+16 35	27.5	12.8	T	897
1P	1997 01	12.66020	08 13	48.59	+17 40	50.1	12.0	T	867
1P	1997 01	12.68531	08 13	47.47	+17 40	56.7			867
1P	1997 01	12.74660	08 13	44.64	+17 41	12.5			867
1P	1997 01	13.86627	08 12	56.96	+17 46	13.2	11	T	473
1P	1997 01	14.90188	08 12	11.10	+17 51	01.2			473
1P	1997 01	16.86442	08 10	41.27	+18 00	23.9			473
1P	1997 01	16.88964	08 10	40.07	+18 00	30.7			473
1P	1997 01	26.01398	08 03	09.10	+18 48	14.9			124
1P	1997 01	26.01835	08 03	08.86	+18 48	16.2			124
1P	1997 01	26.02085	08 03	08.76	+18 48	17.6			124
1P	1997 01	28.61727	08 00	57.77	+19 02	39.6			900
1P	1997 01	28.62289	08 00	57.48	+19 02	41.6			900
1P	1997 01	29.91166	07 59	53.39	+19 09	50.3	10.1	T	627
1P	1997 01	29.91499	07 59	53.21	+19 09	51.2	10.1	T	627
1P	1997 01	29.92496	07 59	52.68	+19 09	54.7	10.1	T	627
1P	1997 02	01.55556	07 57	44.19	+19 24	36.1	10.2	T	360
1P	1997 02	01.55920	07 57	43.99	+19 24	37.2			360
1P	1997 02	01.56916	07 57	43.45	+19 24	41.4	10.4	T	355
1P	1997 02	01.57638	07 57	43.07	+19 24	43.5			355
1P	1997 02	01.63331	07 57	40.13	+19 25	02.4	10.0	T	900
1P	1997 02	01.64168	07 57	39.73	+19 25	04.7			900
1P	1997 02	01.91678	07 57	26.90	+19 26	34.6	10.6	T	628
1P	1997 02	01.96207	07 57	24.68	+19 26	51.1	10.7	T	605
1P	1997 02	01.96470	07 57	24.47	+19 26	50.1	10.6	T	628
1P	1997 02	01.97384	07 57	24.03	+19 26	55.1	10.7	T	605
1P	1997 02	04.14455	07 55	42.70	+19 39	05.1	10.2	T	861
1P	1997 02	04.14951	07 55	42.45	+19 39	07.1	10.3	T	861
1P	1997 02	05.05810	07 55	02.01	+19 44	05.7	10.2	T	861
1P	1997 02	05.15666	07 54	57.18	+19 44	38.6	10.2	T	861
1P	1997 02	06.89492	07 53	42.81	+19 53	55.0	13.9	N	954
1P	1997 02	06.99124	07 53	38.12	+19 54	23.2			118
1P	1997 02	06.99484	07 53	38.25	+19 54	27.8	13.8	N	954
1P	1997 02	06.99890	07 53	37.80	+19 54	25.9	10.5	T	118
1P	1997 02	07.04192	07 53	36.09	+19 54	42.8	13.8	N	954
1P	1997 02	07.78715	07 53	06.06	+19 58	40.0			108
1P	1997 02	07.81016	07 53	05.00	+19 58	47.6			108
1P	1997 02	07.86237	07 53	02.62	+19 59	01.7			954
1P	1997 02	07.91762	07 53	00.26	+19 59	19.4			954
1P	1997 02	07.97330	07 52	57.85	+19 59	38.4			954
1P	1997 02	08.85301	07 52	23.63	+20 04	20.8	13.9	N	954
1P	1997 02	08.89766	07 52	21.76	+20 04	35.6	13.9	N	954
1P	1997 02	09.12799	07 52	12.00	+20 05	47.6	13.9	N	954
1P	1997 02	09.76738	07						

91P/Russell 3									
91P	1997 02	18.06427	11 44 35.70	−19 09 48.7	18.1	T	A	118	
93P/Lovas 1									
93P	1989 11	18.75486	07 12 48.63	+45 36 57.3				056	
93P	1989 11	18.81944	07 12 51.30	+45 37 14.6				056	
93P	1989 11	19.80208	07 13 30.23	+45 41 41.9				056	
93P	1989 11	19.87708	07 13 33.02	+45 42 01.9				056	
93P	1989 11	20.83750	07 14 07.55	+45 46 05.5				056	
93P	1989 11	20.89861	07 14 09.18	+45 46 22.0				056	
93P	1989 11	23.94595	07 15 35.58	+45 58 35.0				056	
93P	1989 11	24.01100	07 15 36.83	+45 58 49.6				056	
93P	1989 11	29.79931	07 16 45.86	+46 17 18.8				056	
93P	1989 11	29.87865	07 16 46.12	+46 17 34.6				056	
93P	1989 12	27.79641	06 59 46.47	+45 37 11.2				056	
93P	1989 12	27.90081	06 59 40.36	+45 36 31.8				056	
93P	1989 12	29.77593	06 57 51.35	+45 24 08.8				056	
93P	1989 12	30.70081	06 56 58.05	+45 17 35.2				056	
93P	1989 12	30.76250	06 56 54.45	+45 17 10.4				056	
93P	1990 01	01.71325	06 55 02.77	+45 02 23.9				056	
94P/Russell 4									
94P	1997 01	20.71111	12 22 51.56	+06 58 51.0	16.7	T		402	
94P	1997 01	20.71736	12 22 51.80	+06 58 51.1				402	
94P	1997 01	20.72153	12 22 51.96	+06 58 50.8				402	
94P	1997 02	04.83472	12 29 48.51	+07 08 28.2	16.7	T		360	
94P	1997 02	04.83854	12 29 48.56	+07 08 28.5				360	
100P/Hartley 1									
100P	1997 01	20.81389	13 34 34.07	+20 38 32.5	18.3	T		402	
100P	1997 01	20.81910	13 34 34.43	+20 38 32.4				402	
100P	1997 01	20.82604	13 34 34.89	+20 38 30.7				402	
100P	1997 02	04.84635	13 48 54.51	+20 08 13.5	18.4	T		360	
100P	1997 02	04.85226	13 48 54.73	+20 08 13.3				360	
100P	1997 02	08.18698	13 51 17.00	+20 03 25.2	18.3	T		046	
100P	1997 02	08.18943	13 51 17.11	+20 03 24.9				046	
100P	1997 02	08.19412	13 51 17.28	+20 03 24.4				046	
111P/Helin-Roman-Crockett									
111P	1996 12	14.41156	08 04 24.03	+22 02 55.3	20.3	T		691	
111P	1996 12	14.41749	08 04 23.87	+22 02 55.9	20.6	T		691	
111P	1996 12	14.41977	08 04 23.82	+22 02 56.4	20.5	T		691	
111P	1997 01	11.65347	07 47 13.15	+23 21 53.0	19.5	T		360	
111P	1997 01	11.65868	07 47 12.95	+23 21 52.6				360	
111P	1997 01	12.65644	07 46 28.72	+23 24 41.2	19.4	T		867	
111P	1997 01	12.68254	07 46 27.45	+23 24 45.0	19.3				

118P	1996 12 14.33583	05 30 38.34	+07 58 42.4	13.0 T	691	119P	1997 01 29.50551	06 45 29.34	+17 56 14.3	16.0 T	900
118P	1996 12 14.33866	05 30 38.22	+07 58 42.6	13.0 T	691	119P	1997 01 29.52539	06 45 28.75	+17 56 16.4		900
118P	1996 12 14.34093	05 30 38.12	+07 58 42.8	13.0 T	691	119P	1997 02 02.84196	06 43 33.69	+17 58 29.2		118
118P	1996 12 14.62016	05 30 26.52	+07 59 09.7	13.3 T	897	119P	1997 02 02.84196	06 43 33.69	+17 58 29.2		118
118P	1996 12 14.64065	05 30 25.59	+07 59 11.6		897	119P	1997 02 02.87529	06 43 32.84	+17 58 30.5	16.7 T	118
118P	1997 01 24.85662	05 15 41.89	+11 47 17.0		118	119P	1997 02 02.87529	06 43 32.84	+17 58 30.5	16.7 T	118
118P	1997 01 24.86135	05 15 41.91	+11 47 19.0	14.2 T	118	119P	1997 02 09.54184	06 41 19.16	+18 02 12.0	16.4 T	360
118P	1997 01 26.97265	05 16 15.05	+12 04 24.5		118	119P	1997 02 09.54549	06 41 19.08	+18 02 12.2		360
118P	1997 01 26.97554	05 16 15.11	+12 04 26.5		118	119P	1997 02 09.78444	06 41 15.43	+18 02 19.4	17.2 T	046
118P	1997 01 26.97865	05 16 15.12	+12 04 28.1	14.3 T	118	119P	1997 02 09.78647	06 41 15.41	+18 02 19.5		046
118P	1997 01 28.58155	05 16 46.63	+12 17 35.4	13.7 T	900	119P	1997 02 09.79052	06 41 15.34	+18 02 19.4		046
118P	1997 01 28.59086	05 16 46.76	+12 17 40.3	13.7 T	900	120P/Mueller 1					
118P	1997 01 29.89361	05 17 16.22	+12 28 20.7		108	120P	1996 12 14.34598	06 08 21.61	+36 13 40.7	19.6 T	691
118P	1997 01 29.92361	05 17 16.84	+12 28 31.9		108	120P	1996 12 14.34890	06 08 21.44	+36 13 40.8	19.6 T	691
118P	1997 01 30.42552	05 17 29.41	+12 32 43.7	13.1 T	360	120P	1996 12 14.35176	06 08 21.33	+36 13 41.1	19.6 T	691
118P	1997 01 30.43003	05 17 29.48	+12 32 45.5		360	121P/Shoemaker-Holt 2					
118P	1997 02 01.53693	05 18 26.10	+12 50 06.6	14.2 T	900	121P	1996 11 30.79516	10 33 15.52	+20 28 26.7	14.3 T	897
118P	1997 02 01.54623	05 18 26.39	+12 50 10.8		900	121P	1996 11 30.80329	10 33 16.05	+20 28 28.0		897
118P	1997 02 01.76920	05 18 33.13	+12 51 59.9		108	121P	1996 12 07.84400	10 39 38.19	+20 51 59.7		897
118P	1997 02 01.80867	05 18 34.15	+12 52 19.3		108	121P	1996 12 07.84882	10 39 38.43	+20 52 00.8	15.0 T	897
118P	1997 02 01.84999	05 18 35.40	+12 52 40.0	15.1 T	605	121P	1997 01 12.66564	10 55 34.68	+24 56 39.6	16.2 T	867
118P	1997 02 01.86641	05 18 35.93	+12 52 46.9	14.9 T	605	121P	1997 01 12.69237	10 55 34.59	+24 56 54.2		867
118P	1997 02 01.87487	05 18 36.11	+12 52 53.0	15.0 T	605	121P	1997 01 29.64926	10 52 05.56	+27 45 44.8	14.4 T	900
118P	1997 02 05.02215	05 20 19.19	+13 18 56.6	14.2 T	861	121P	1997 01 29.66905	10 52 05.08	+27 45 56.4	14.4 T	900
118P	1997 02 05.11558	05 20 22.41	+13 19 42.6	14.1 T	861	121P	1997 01 31.65417	10 51 14.31	+28 05 57.6	14.9 T	360
118P	1997 02 07.78059	05 22 05.66	+13 41 28.5		108	121P	1997 01 31.65868	10 51 14.18	+28 06 00.2		360
118P	1997 02 07.79245	05 22 06.11	+13 41 36.9		108	121P	1997 02 01.67619	10 50 46.03	+28 16 09.9		355
118P	1997 02 08.75295	05 22 46.57	+13 49 26.2	13.7 T	046	121P	1997 02 01.68212	10 50 45.88	+28 16 14.8	14.8 T	355
118P	1997 02 08.75422	05 22 46.63	+13 49 26.9		046	121P	1997 02 14.93877	10 43 05.04	+30 19 49.2	15.3 T	605
118P	1997 02 08.75544	05 22 46.69	+13 49 27.6		046	121P	1997 02 14.94306	10 43 04.77	+30 19 49.1	15.2 T	605
118P	1997 02 09.50434	05 23 19.23	+13 55 35.6	13.3 T	360	121P	1997 02 14.95965	10 43 04.19	+30 19 58.3	15.2 T	605
118P	1997 02 09.50781	05 23 19.37	+13 55 37.1		360	126P/IRAS					
118P	1997 02 10.81357	05 24 19.00	+14 06 12.3		118	126P	1996 09 18.56917	22 15 51.32	-50 03 27.2	12.5 T	B 864
118P	1997 02 10.81766	05 24 19.20	+14 06 14.3		118	126P	1996 09 18.57130	22 15 50.93	-50 03 22.3		B 864
118P	1997 02 10.82108	05 24 19.35	+14 06 15.8		118	126P	1996 11 19.41288	21 51 27.12	-04 51 26.9		897
118P	1997 02 11.11476	05 24 32.90	+14 08 46.4		5 861	126P	1996 11 19.42869	21 51 28.04	-04 50 55.6		897
118P	1997 02 11.11942	05 24 33.11	+14 08 47.1	14.3 T	861	126P	1996 11 25.44406	21 57 16.72	-01 37 59.5		897
118P	1997 02 11.81431	05 25 06.71	+14 14 17.4		118	126P	1996 11 25.45794	21 57 17.48	-01 37 33.4		897
118P	1997 02 11.81709	05 25 06.88	+14 14 18.7		118	126P	1996 12 02.42584	22 04 50.11	+01 51 19.6	13.6 T	897
118P	1997 02 11.81933	05 25 06.97	+14 14 20.3		118	126P	1996 12 02.43973	22 04 51.01	+01 51 43.6		897
118P	1997 02 14.88226	05 27 44.38	+14 38 49.3	14.2 T	605	126P	1997 01 21.76154	23 17 45.17	+22 18 56.4		118
118P	1997 02 14.89603	05 27 45.09	+14 38 55.5	14.2 T	605	126P	1997 01 21.76856	23 17 45.86	+22 19 05.3		118
119P/Parker-Hartley						126P	1997 01 24.72689	23 22 51.40	+23 22 08.4		118
119P	1996 11 16.70039	07 25 15.99	+18 34 06.5		897	126P	1997 01 24.73350	23 22 52.12	+23 22 16.5	15.5 T	118
119P	1996 11 16.73229	07 25 15.80	+18 34 02.5	16.5 T	897	126P	1997 01 26.74443	23 26 22.51	+24 04 46.6		118
119P	1996 12 14.36809	07 16 32.05	+17 54 50.1	16.9 T	691	126P	1997 01 26.75424	23 26 23.54	+24 04 59.1	15.2 T	118
119P	1996 12 14.37036	07 16 31.97	+17 54 50.1	16.9 T	691	126P	1997 01 30.41476	23 32 52.37	+25 21 35.7	15.0 T	360
119P	1996 12 14.37264	07 16 31.88	+17 54 50.2	16.9 T	691	126P	1997 01 30.41823	23 32 52.76	+25 21 39.9		360
119P	1996 12 19.62706	07 13 15.26	+17 51 33.2		897	126P	1997 02 09.43056	23 51 15.31	+28 46 30.1	15.0 T	360
119P	1996 12 19.64313	07 13 14.54	+17 51 32.0	16.2 T	897	126P	1997 02 09.43333	23 51 15.62	+28 46 33.0		360
119P	1996 12 19.65354	07 13 14.05	+17 51 31.7	15.9 T	897	126P	1997 02 09.73493	23 51 49.79	+28 52 37.4	14.4 T	046
119P	1997 01 27.01328	06 46 45.00	+17 55 00.1	16.8 T	118						

126P	1997 02 09.73624	23 51 49.93	+28 52 38.1		046
126P	1997 02 09.73796	23 51 50.14	+28 52 40.5		046
126P	1997 02 16.76953	00 05 20.28	+31 12 30.4	16.7 T	118
126P	1997 02 16.77237	00 05 20.61	+31 12 33.3	16.8 T	118
126P	1997 02 16.77685	00 05 21.22	+31 12 39.3		118

Note 1: trailed image. 2: declination uncertain. 3: position uncertain.
 4: measurement difficult. 5: faint image. 6: weak image. 7: poor distribution of reference stars. 8: involved with star. 9: image out of focus. A: very faint image. B: poor sky.

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

1994 CO ₁₇	1994 02 16.02222	11 16 20.28	+11 32 16.7	18.4	010
1994 CO ₁₇	1994 02 16.03750	11 16 19.54	+11 32 23.0		010
1994 EL ₃	1995 09 02.00833	22 53 56.72	-04 52 07.1	18.0	010
1994 EL ₃	1995 09 02.01875	22 53 56.31	-04 52 16.0		010
1994 EL ₃	1995 09 02.02656	22 53 55.91	-04 52 23.0		010
1994 EL ₃	1995 09 27.92431	22 36 55.80	-10 04 11.2	18.3	010
1994 EL ₃	1995 09 27.93507	22 36 55.54	-10 04 17.5		010
1994 EL ₃	1995 09 27.94514	22 36 55.34	-10 04 21.7		010
1995 QN	1995 09 02.00833	23 06 29.00	-06 13 26.4	18.0	010
1995 QN	1995 09 02.01875	23 06 28.56	-06 13 31.5		010
1995 QN	1995 09 02.02656	23 06 28.19	-06 13 36.1		010
1995 SL	1993 01 28.01528	09 39 28.18	+13 28 15.2		010
1995 SL	1993 01 28.02569	09 39 27.53	+13 28 17.6		010
1995 SL	1993 01 28.03611	09 39 26.87	+13 28 18.2		010
1995 SH ₃₂	1995 09 02.00833	22 50 29.72	-07 03 40.2	19.0	010
1995 SH ₃₂	1995 09 02.01875	22 50 29.08	-07 03 42.0		010
1995 SH ₃₂	1995 09 02.02656	22 50 28.80	-07 03 45.6		010
1996 BO ₂	1993 08 16.07431	23 22 39.33	-03 34 58.8	18.5	010
1996 BO ₂	1993 08 16.08472	23 22 38.95	-03 35 00.1		010
1996 BO ₂	1993 08 16.09514	23 22 38.56	-03 35 03.8		010
1996 VC ₂	1994 01 17.87481	05 09 09.80	+22 13 31.4	17.8	010
1996 VC ₂	1994 01 17.88888	05 09 09.44	+22 13 30.5	17.8	010
1996 VC ₂	1994 01 17.90034	05 09 09.11	+22 13 29.5	17.8	010
1996 VD ₃	1995 09 02.00833	23 04 26.79	-04 44 09.8	18.2	010
1996 VD ₃	1995 09 02.01875	23 04 26.33	-04 44 12.5		010
1996 VD ₃	1995 09 02.02656	23 04 26.04	-04 44 16.6		010
1996 VD ₃	1995 09 26.95625	22 47 55.92	-06 39 01.9	18.4	010
1996 VD ₃	1995 09 26.96667	22 47 55.56	-06 39 03.4		010
1996 VD ₃	1995 09 26.97708	22 47 55.13	-06 39 06.2		010
1996 XA ₉	1995 09 02.00833	22 52 46.31	-07 24 00.6	18.4	010
1996 XA ₉	1995 09 02.01875	22 52 45.83	-07 24 03.8		010
1996 XA ₉	1995 09 02.02656	22 52 45.57	-07 24 06.4		010
3187 T-2	1994 02 16.02222	11 13 57.97	+12 49 11.9	18.4	010
3187 T-2	1994 02 16.03750	11 13 57.16	+12 49 15.8		010
2372 T-3	1993 09 18.92086	22 39 23.06	-02 56 28.0	18.3	010
2372 T-3	1993 09 18.93194	22 39 22.77	-02 56 31.0		010
2372 T-3	1993 09 18.94282	22 39 22.32	-02 56 33.6		010

012 Uccle

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0.85-m *f*/2.5 Schmidt + CCD

PPM

1994 CM ₂	1997 01 13.81969	04 41 59.04	+26 49 14.5	16.4 V	012
1994 CM ₂	1997 01 13.82766	04 41 58.89	+26 49 11.4	16.6 V	012
1994 CM ₂	1997 01 13.85078	04 41 58.43	+26 49 04.0	16.5 V	012
1994 CM ₂	1997 01 14.83012	04 41 41.71	+26 43 54.5	16.6 V	012
1994 CM ₂	1997 01 14.86045	04 41 41.17	+26 43 45.1	16.6 V	012
1994 CM ₂	1997 01 14.89507	04 41 40.55	+26 43 34.2	16.7 V	012
1996 XG ₉	1997 01 13.78716	04 39 56.26	+27 06 27.2	18.1 V	012
1996 XG ₉	1997 01 13.81969	04 39 55.31	+27 06 25.0	18.1 V	012
1996 XG ₉	1997 01 13.84329	04 39 54.61	+27 06 24.9	17.8 V	012
1996 XG ₉	1997 01 14.85135	04 39 24.49	+27 06 14.1		012
1996 XG ₉	1997 01 14.87779	04 39 23.71	+27 06 13.8		012
1996 XG ₉	1997 01 14.91502	04 39 22.59	+27 06 13.2		012
1996 XG ₉	1997 02 10.94872	04 36 02.93	+27 09 31.8	18.6 V	012
1996 XG ₉	1997 02 10.96762	04 36 03.16	+27 09 31.6	19.1 V	012
1996 XG ₉	1997 02 10.98632	04 36 03.47	+27 09 32.9	19.4 V	012
1997 AC ₂₂	* 1997 01 13.78716	04 40 04.53	+26 44 19.6	17.4 V	012
1997 AC ₂₂	1997 01 13.81969	04 40 04.04	+26 44 13.2	17.3 V	012
1997 AC ₂₂	1997 01 13.84329	04 40 03.70	+26 44 07.5	17.4 V	012
1997 AC ₂₂	1997 01 14.85135	04 39 50.68	+26 40 30.8		012
1997 AD ₂₂	* 1997 01 13.82766	04 43 04.04	+27 05 18.6	17.7 V	012
1997 AD ₂₂	1997 01 13.85078	04 43 03.44	+27 05 17.3	17.3 V	012
1997 AD ₂₂	1997 01 14.84206	04 42 39.24	+27 04 23.5	17.7 V	012
1997 AD ₂₂	1997 01 14.86841	04 42 38.59	+27 04 22.1		012
1997 BY	1997 01 16.00000	08 59 07.54	+16 53 14.2	17.5	012
1997 BY	1997 01 16.03055	08 59 06.19	+16 53 18.4		012
(4768)	1997 02 11.03837	10 40 29.94	+00 18 15.3	17.6 V	012
(4768)	1997 02 11.05331	10 40 29.19	+00 18 16.1	17.5 V	012
(4768)	1997 02 11.06765	10 40 28.56	+00 18 16.4	17.7 V	012

033 Tautenburg

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Germany [boerg@tls.tautenburg.de]

1.3-m Schmidt telescope

PPM

1980 UM ₁	1995 02 03.91701	08 37 54.13	+12 11 34.6		033
1980 UM ₁	1995 02 03.95729	08 37 51.42	+12 11 40.0	17.6	033
1988 PG ₂	1992 12 29.96042	06 17 14.93	+19 51 48.3	18.3	033
1988 PG ₂	1992 12 30.05069	06 17 08.65	+19 52 03.0		033
1988 PG ₂	1993 01 01.00278	06 15 01.66	+19 57 00.7		033
1989 SY ₁₃	1995 01 30.82778	06 25 37.92	+25 50 08.7	18.5	033
1989 SY ₁₃	1995 01 30.87083	06 25 36.30	+25 49 54.4		033
1990 TH ₁₂	1995 02 03.91701	08 36 35.90	+10 58 27.0		033
1990 TH ₁₂	1995 02 03.95729	08 36 33.41	+10 58 35.1	17.1	033
1992 YN ₅	* 1992 12 29.96042	06 13 44.36	+20 25 40.0	18.0	033
1992 YN ₅	1992 12 30.05069	06 13 38.07	+20 25 23.4		033
1992 YN ₅	1993 01 01.00278	06 11 31.03	+20 18 55.5		033
1992 YO ₅	* 1992 12 29.96042	06 20 16.56	+19 20 40.9	17.9	033
1992 YO ₅	1992 12 30.05069	06 20 10.32	+19 20 45.7		033
1992 YO ₅	1993 01 01.00278	06 18 02.19	+19 22 20.0		033
1992 YP ₅	* 1992 12 29.96042	06 21 59.17	+21 09 43.2	17.6	033
1992 YP ₅	1992 12 30.05069	06 21 53.03	+21 09 49.4		033
1992 YP ₅	1993 01 01.00278	06 19 46.25	+21 12 14.0		033
1992 YQ ₅	* 1992 12 29.96042	06 22 35.27	+20 03 40.9	17.5	033

1992 YQ ₅	1992 12 30.05069	06 22 28.75	+20 03 59.4		033
1992 YQ ₅	1993 01 01.00278	06 20 13.59	+20 10 36.2		033
1993 FZ ₅₇	1995 10 25.92188	01 56 47.25	+12 16 06.4		033
1993 FZ ₅₇	1995 10 25.96563	01 56 44.91	+12 15 50.7	20.1	033
1993 SH ₂	1995 03 05.03958	11 42 50.27	+02 22 42.1	19.0	033
1993 SH ₂	1995 03 05.08889	11 42 47.41	+02 22 55.7		033
1994 AH ₃	1992 09 26.88264	23 29 16.02	+04 38 22.3		033
1994 CS ₈	1995 03 23.92153	11 11 50.87	+11 59 13.8	18.4	033
1994 CS ₈	1995 03 23.96458	11 11 49.65	+11 59 21.3		033
1994 RY ₁	1994 08 05.06319	22 15 39.72	+04 37 56.1	15.5	033
1996 VE ₆	1994 03 04.94167	10 57 24.49	+05 08 09.8	18.8	033
1996 VE ₆	1994 03 04.98333	10 57 22.09	+05 08 27.0		033
1996 XV ₁₉	1992 12 29.96042	06 15 42.25	+20 18 11.9	17.8	033
1996 XV ₁₉	1992 12 30.05069	06 15 36.17	+20 18 14.9		033
1996 XV ₁₉	1993 01 01.00278	06 13 31.37	+20 19 27.7		033
(1827)	1995 02 03.91701	08 32 38.19	+10 37 17.6		033
(2313)	1995 02 03.95729	08 32 35.92	+10 37 27.7	16.1	033
(2313)	1992 12 29.96042	06 23 36.92	+21 11 23.1	17.1	033
(2988)	1992 12 30.05069	06 23 30.73	+21 11 25.0		033
(2988)	1992 12 29.96042	06 20 04.30	+21 18 25.0	16.6	033
(2988)	1992 12 30.05069	06 19 58.36	+21 18 53.0		033
(3113)	1993 01 01.00278	06 17 54.57	+21 28 52.9		033
(3113)	1995 02 03.91701	08 34 48.52	+11 41 20.5		033
(3113)	1995 02 03.95729	08 34 46.12	+11 41 33.6	17.3	033

046 Kleť

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

Measurer M. Tichý

0.57-m reflector + CCD

GSC

1991 CS	1997 02 10.14843	12 46 11.20	-22 32 22.4	16.9 V	046
1991 CS	1997 02 10.14972	12 46 11.23	-22 32 13.3		046
1991 CS	1997 02 10.15087	12 46 11.25	-22 32 05.5		046
1994 NF ₁	1997 02 10.16265	14 54 05.61	-06 26 56.1	18.3 V	046
1994 NF ₁	1997 02 10.16639	14 54 05.88	-06 26 56.0		046
1994 NF ₁	1997 02 10.17497	14 54 06.36	-06 26 56.8		046
1994 PC ₁	1997 01 22.69561	01 27 35.10	+18 14 15.7	13.5 V	046
1994 PC ₁	1997 01 22.69637	01 27 34.08	+18 14 34.8		046
1994 PC ₁	1997 01 22.70420	01 27 23.24	+18 17 56.6		046
1994 PC ₁	1997 01 22.70490	01 27 22.27	+18 18 14.6		046
1994 PC ₁	1997 01 26.75269	00 01 03.47	+39 31 58.2	14.2 V	046
1994 PC ₁	1997 01 26.75611	00 00 59.44	+39 32 38.9		046
1994 PC ₁	1997 01 26.75689	00 00 58.55	+39 32 48.2		046
1995 PB	1997 02 07.14899	10 32 35.61	+00 24 08.5	17.9 V	046
1995 PB	1997 02 07.15339	10 32 35.43	+00 24 09.9		046
1995 PB	1997 02 07.15601	10 32 35.31	+00 24 11.1		046
1995 PB	1997 02 10.07034	10 30 33.85	+00 41 42.2	17.8 V	046
1995 PB	1997 02 10.07221	10 30 33.77	+00 41 42.8		046
1995 PB	1997 02 10.07417	10 30 33.67	+00 41 43.5		046
1995 TF	1997 02 10.04860	09 42 46.38	+33 10 16.5	18.3 V	046
1995 TF	1997 02 10.05043	09 42 46.29	+33 10 16.9		046

1995 TF	1997 02 10.05257	09 42 46.13	+33 10 17.2		046	1995 WN ₆	1997 02 04.05858	12 18 46.26	+18 23 10.4	17.0 V	046
1995 TF	1997 02 10.99209	09 41 40.65	+33 11 42.5	18.2 V	046	1995 WN ₆	1997 02 04.06220	12 18 46.19	+18 23 12.1		046
1995 TF	1997 02 10.99377	09 41 40.48	+33 11 42.7		046	1995 WN ₆	1997 02 04.06436	12 18 46.16	+18 23 13.0		046
1995 TF	1997 02 10.99545	09 41 40.38	+33 11 42.6		046	1995 WV ₂₆	1995 11 10.96409	01 37 50.84	+10 18 19.4	16.7 R	046
1995 UR ₁	1997 02 10.09868	10 47 47.18	+31 45 58.9	17.7 V	046	1995 WV ₂₆	1995 11 10.96698	01 37 50.74	+10 18 18.7		046
1995 UR ₁	1997 02 10.10072	10 47 47.02	+31 45 59.4		046	1995 WV ₂₆	1995 11 10.97047	01 37 50.59	+10 18 17.5		046
1995 UR ₁	1997 02 10.10280	10 47 46.92	+31 46 00.0		046	1996 BF	1997 02 07.17247	12 51 12.90	-25 17 43.8	17.9 V	046
1995 UR ₁	1997 02 11.01431	10 46 52.66	+31 50 34.9	17.6 V	046	1996 BF	1997 02 07.17414	12 51 12.86	-25 17 44.2		046
1995 UR ₁	1997 02 11.02010	10 46 52.28	+31 50 36.3		046	1996 BF	1997 02 07.17943	12 51 12.81	-25 17 45.8		046
1995 UR ₁	1997 02 11.02222	10 46 52.14	+31 50 36.9		046	1996 FG ₃	1997 02 10.08745	10 34 15.89	+06 01 18.8	17.6 V	046
1995 UN ₂	1997 02 07.15961	11 45 55.77	+02 44 39.7	19.1 V	046	1996 FG ₃	1997 02 10.08940	10 34 15.57	+06 01 19.4		046
1995 UN ₂	1997 02 07.16163	11 45 55.77	+02 44 39.6		046	1996 FG ₃	1997 02 10.09153	10 34 15.24	+06 01 21.0		046
1995 UN ₂	1997 02 07.16347	11 45 55.66	+02 44 40.3		046	1996 TL ₆₆	1997 02 01.75046	01 55 23.42	+13 55 17.5	V	046
1995 UN ₂	1997 02 07.16575	11 45 55.60	+02 44 40.9		046	1996 TL ₆₆	1997 02 01.75316	01 55 23.41	+13 55 20.0	V	046
1995 UN ₂	1997 02 08.17412	11 45 31.04	+02 48 25.4	18.9 V	r 046	1996 TL ₆₆	1997 02 02.74716	01 55 26.32	+13 55 19.6	V	046
1995 UN ₂	1997 02 08.17609	11 45 31.03	+02 48 27.1		r 046	1996 VQ	1997 01 28.72095	02 19 47.63	+21 03 02.6	17.7 V	046
1995 UN ₂	1997 02 08.17810	11 45 30.96	+02 48 27.5		r 046	1996 VQ	1997 01 28.72289	02 19 47.72	+21 03 03.2		046
1995 UN ₂	1997 02 10.10869	11 44 40.35	+02 55 58.1	19.0 V	046	1996 VQ	1997 01 28.72475	02 19 47.83	+21 03 03.7		046
1995 UN ₂	1997 02 10.11267	11 44 40.10	+02 55 58.8		046	1996 VQ	1997 01 29.72456	02 20 36.60	+21 07 57.1	17.5 V	046
1995 UN ₂	1997 02 10.11869	11 44 39.99	+02 56 00.1		046	1996 VQ	1997 01 29.72637	02 20 36.71	+21 07 58.0		046
1995 UP ₂	1997 02 10.03995	09 34 52.41	+30 13 09.7	18.0 V	046	1996 VQ	1997 01 29.72853	02 20 36.80	+21 07 58.4		046
1995 UP ₂	1997 02 10.04190	09 34 52.30	+30 13 10.0		046	1996 VM ₅	1997 01 28.72949	03 09 08.78	+15 57 33.7	18.5 V	046
1995 UP ₂	1997 02 10.04411	09 34 52.16	+30 13 10.4		046	1996 VM ₅	1997 01 28.73181	03 09 08.84	+15 57 33.5		046
1995 UP ₂	1997 02 10.94163	09 33 59.85	+30 15 15.4	17.9 V	046	1996 VM ₅	1997 01 28.73473	03 09 08.98	+15 57 34.6		046
1995 UP ₂	1997 02 10.94360	09 33 59.73	+30 15 15.8		046	1996 VM ₅	1997 02 02.72558	03 12 52.36	+16 23 27.4	18.2 V	046
1995 UP ₂	1997 02 10.94578	09 33 59.60	+30 15 15.9		046	1996 VM ₅	1997 02 02.72950	03 12 52.54	+16 23 29.0		046
1995 UR ₂	1997 02 10.05686	10 19 44.14	+04 20 19.0	18.3 V	046	1996 VM ₅	1997 02 02.73147	03 12 52.63	+16 23 29.3		046
1995 UR ₂	1997 02 10.05939	10 19 43.99	+04 20 19.9		046	1996 XE ₉	1997 02 08.76931	05 33 28.69	+19 43 38.2	18.2 V	046
1995 UR ₂	1997 02 10.06337	10 19 43.78	+04 20 20.8		046	1996 XE ₉	1997 02 08.77314	05 33 28.81	+19 43 37.6		046
1995 UR ₂	1997 02 11.00516	10 18 55.74	+04 23 54.9	18.4 V	046	1996 XE ₉	1997 02 08.77499	05 33 28.84	+19 43 37.7		046
1995 UR ₂	1997 02 11.00713	10 18 55.67	+04 23 54.7		046	1996 XE ₉	1997 02 09.75618	05 33 57.10	+19 42 36.0		046
1995 US ₂	1997 02 03.12344	11 49 03.65	-07 08 07.3	17.7 V	046	1996 XE ₉	1997 02 09.76001	05 33 57.20	+19 42 35.8		046
1995 US ₂	1997 02 03.12568	11 49 03.60	-07 08 07.6		046	1996 XQ ₁₃	1997 02 08.75947	04 38 08.99	+15 11 31.1	18.2 V	046
1995 US ₂	1997 02 03.12953	11 49 03.54	-07 08 07.8		046	1996 XQ ₁₃	1997 02 08.76144	04 38 09.03	+15 11 30.9		046
1995 US ₂	1997 02 04.04727	11 48 46.38	-07 09 06.8	17.8 V	046	1996 XQ ₁₃	1997 02 08.76347	04 38 09.05	+15 11 31.4		046
1995 US ₂	1997 02 04.05191	11 48 46.29	-07 09 07.1		046	1996 XQ ₁₃	1997 02 09.74397	04 38 31.42	+15 11 58.2	18.1 V	046
1995 US ₂	1997 02 04.05414	11 48 46.24	-07 09 07.2		046	1996 XQ ₁₃	1997 02 09.74589	04 38 31.48	+15 11 58.8		046
1995 UA ₇	1997 02 06.94233	09 31 45.12	+20 37 06.3	17.6 V	046	1996 XQ ₁₃	1997 02 09.74970	04 38 31.54	+15 11 59.0		046
1995 UA ₇	1997 02 06.94691	09 31 44.84	+20 37 08.2		046	1996 XT ₁₄	1997 02 01.72971	04 19 26.04	+29 41 16.5	19.7 V	046
1995 UA ₇	1997 02 06.95023	09 31 44.62	+20 37 09.4		046	1996 XT ₁₄	1997 02 01.73346	04 19 26.11	+29 41 18.5		046
1995 UA ₇	1997 02 07.12869	09 31 33.21	+20 38 16.8	17.5 V	046	1996 XT ₁₄	1997 02 06.82501	04 21 58.71	+30 30 52.4	19.7 V	046
1995 UA ₇	1997 02 07.13065	09 31 33.12	+20 38 18.2		046	1996 XT ₁₄	1997 02 06.82738	04 21 58.78	+30 30 53.8		046
1995 UA ₇	1997 02 07.13282	09 31 32.96	+20 38 18.4		046	1996 XT ₁₄	1997 02 06.83214	04 21 58.97	+30 30 56.0		046
1995 WS ₄	1997 02 03.10596	11 22 24.49	-07 18 56.5	18.3 V	046	1996 XW ₁₈	1997 02 09.83494	08 05 09.03	+22 50 10.4	17.7 V	046
1995 WS ₄	1997 02 03.10808	11 22 24.43	-07 18 56.5		046	1996 XW ₁₈	1997 02 09.83887	08 05 08.80	+22 50 11.6		046
1995 WS ₄	1997 02 03.11183	11 22 24.34	-07 18 56.9		046	1996 XW ₁₈	1997 02 09.84281	08 05 08.57	+22 50 12.9		046
1995 WS ₄	1997 02 04.03681	11 22 04.07	-07 20 10.9	18.2 V	046	1996 XW ₁₈	1997 02 10.80575	08 04 16.80	+22 54 57.2	17.8 V	046
1995 WS ₄	1997 02 04.04112	11 22 03.94	-07 20 11.1		046	1996 XW ₁₈	1997 02 10.80771	08 04 16.67	+22 54 57.9		046
1995 WS ₄	1997 02 04.04330	11 22 03.90	-07 20 11.4		046	1996 XW ₁₈	1997 02 10.81014	08 04 16.54	+22 54 58.4		046
1995 WN ₆	1997 02 03.13472	12 19 02.16	+18 16 18.6	17.4 V	046	1997 AX ₁₂	1997 02 02.06837	08 45 59.33	+22 51 51.0	17.6 V	046
1995 WN ₆	1997 02 03.13661	12 19 02.13	+18 16 19.5		046	1997 AX ₁₂	1997 02 02.07025	08 45 59.26	+22 51 51.7		046
1995 WN ₆	1997 02 03.13844	12 19 02.10	+18 16 20.2		046	1997 AX ₁₂	1997 02 02.07209	08 45 59.15	+22 51 52.6		046

1997 AX ₁₂	1997 02 02.07432	08 45 59.05	+22 51 53.5		046	1997 AY ₁₄	1997 02 09.85881	08 25 18.08	+14 27 26.9		046
1997 AW ₁₄	1997 01 14.77551	07 33 26.27	+21 18 12.5	18.5 V	046	1997 AN ₁₆	1997 01 16.02409	08 07 03.69	+34 35 18.5	19.2 V	046
1997 AW ₁₄	1997 01 14.78054	07 33 25.83	+21 18 14.8		046	1997 AN ₁₆	1997 01 16.02597	08 07 03.54	+34 35 18.6		046
1997 AW ₁₄	1997 01 14.78333	07 33 25.77	+21 18 15.7		046	1997 AN ₁₆	1997 01 16.03061	08 07 03.30	+34 35 18.4		046
1997 AW ₁₄	1997 01 15.90494	07 32 13.03	+21 24 16.9	18.4 V	046	1997 AN ₁₆	1997 01 17.04810	08 06 05.44	+34 37 15.8	19.3 V	046
1997 AW ₁₄	1997 01 15.90841	07 32 12.76	+21 24 17.4		046	1997 AN ₁₆	1997 01 17.05006	08 06 05.27	+34 37 15.7		046
1997 AW ₁₄	1997 01 15.91189	07 32 12.58	+21 24 18.7		046	1997 AN ₁₆	1997 01 17.05219	08 06 05.11	+34 37 16.2		046
1997 AW ₁₄	1997 01 16.86108	07 31 11.55	+21 29 21.7	18.5 V	046	1997 AN ₁₆	1997 01 17.92541	08 05 15.38	+34 38 50.9	19.2 V	046
1997 AW ₁₄	1997 01 16.86455	07 31 11.31	+21 29 23.4		046	1997 AN ₁₆	1997 01 17.92743	08 05 15.35	+34 38 51.0		046
1997 AW ₁₄	1997 01 16.87097	07 31 10.87	+21 29 25.0		046	1997 AN ₁₆	1997 01 17.92969	08 05 15.17	+34 38 51.6		046
1997 AW ₁₄	1997 01 17.90534	07 30 04.47	+21 34 54.0	18.4 V	046	1997 AN ₁₆	1997 01 17.93166	08 05 15.03	+34 38 51.9		046
1997 AW ₁₄	1997 01 17.91054	07 30 04.13	+21 34 55.6		046	1997 AO ₁₆	1997 01 16.05220	08 46 55.46	+00 13 31.7	19.5 V	046
1997 AW ₁₄	1997 01 17.91402	07 30 03.96	+21 34 57.0		046	1997 AO ₁₆	1997 01 16.05439	08 46 55.34	+00 13 31.2		046
1997 AW ₁₄	1997 02 02.77098	07 15 13.02	+22 50 32.5	18.5 V	046	1997 AO ₁₆	1997 01 16.05672	08 46 55.22	+00 13 31.4		046
1997 AW ₁₄	1997 02 02.77300	07 15 12.96	+22 50 33.6		046	1997 AO ₁₆	1997 01 17.06566	08 45 59.78	+00 12 29.2	19.4 V	046
1997 AW ₁₄	1997 02 02.77678	07 15 12.78	+22 50 34.8		046	1997 AO ₁₆	1997 01 17.06752	08 45 59.64	+00 12 28.9		046
1997 AW ₁₄	1997 02 06.88530	07 12 27.18	+23 06 35.1	18.9 V	046	1997 AO ₁₆	1997 01 17.07262	08 45 59.31	+00 12 28.9		046
1997 AW ₁₄	1997 02 06.88718	07 12 27.14	+23 06 35.7		046	1997 AO ₁₆	1997 01 17.98905	08 45 08.52	+00 11 43.8	19.3 V	046
1997 AX ₁₄	1997 01 14.78054	07 33 36.60	+21 17 25.5	18.3 V	046	1997 AO ₁₆	1997 01 17.99116	08 45 08.41	+00 11 44.6		046
1997 AX ₁₄	1997 01 14.78333	07 33 36.40	+21 17 26.9		046	1997 AO ₁₆	1997 01 17.99310	08 45 08.29	+00 11 43.8		046
1997 AX ₁₄	1997 01 15.90494	07 32 29.22	+21 23 10.1	18.2 V	046	1997 AP ₁₆	1997 01 16.06466	08 55 25.76	+19 59 12.8	19.3 V	046
1997 AX ₁₄	1997 01 15.90841	07 32 28.95	+21 23 11.6		046	1997 AP ₁₆	1997 01 16.06837	08 55 25.49	+19 59 14.1		046
1997 AX ₁₄	1997 01 15.91189	07 32 28.73	+21 23 12.6		046	1997 AP ₁₆	1997 01 16.07116	08 55 25.31	+19 59 15.6		046
1997 AX ₁₄	1997 01 16.86108	07 31 32.23	+21 28 00.5	18.5 V	046	1997 AP ₁₆	1997 01 17.07784	08 54 26.48	+20 05 23.7	19.5 V	046
1997 AX ₁₄	1997 01 16.87097	07 31 31.63	+21 28 03.3		046	1997 AP ₁₆	1997 01 17.07978	08 54 26.35	+20 05 23.3		046
1997 AX ₁₄	1997 01 16.87396	07 31 31.44	+21 28 04.1		046	1997 AP ₁₆	1997 01 17.08201	08 54 26.23	+20 05 24.8		046
1997 AX ₁₄	1997 01 17.90534	07 30 30.30	+21 33 15.1	18.3 V	046	1997 AP ₁₆	1997 01 18.01712	08 53 30.82	+20 11 08.0	19.3 V	046
1997 AX ₁₄	1997 01 17.91054	07 30 30.02	+21 33 16.9		046	1997 AP ₁₆	1997 01 18.01903	08 53 30.69	+20 11 09.2		046
1997 AX ₁₄	1997 01 17.91402	07 30 29.79	+21 33 17.7		046	1997 AM ₁₇	1997 01 16.84700	06 53 45.11	+21 02 36.4	17.6 V	046
1997 AX ₁₄	1997 02 06.89389	07 13 09.91	+23 01 28.2	18.5 V	046	1997 AM ₁₇	1997 01 17.88157	06 52 53.56	+21 01 46.6		046
1997 AX ₁₄	1997 02 06.89804	07 13 09.77	+23 01 28.8		046	1997 AM ₁₇	1997 01 17.89209	06 52 53.03	+21 01 46.1		046
1997 AX ₁₄	1997 02 06.90102	07 13 09.65	+23 01 28.8		046	1997 AM ₁₇	1997 01 17.89451	06 52 52.86	+21 01 45.3		046
1997 AX ₁₄	1997 02 09.79701	07 11 13.41	+23 11 59.4	18.6 V	046	1997 AN ₁₇	1997 01 16.82683	06 52 16.73	+20 46 36.4	15.6 V	046
1997 AX ₁₄	1997 02 09.79905	07 11 13.31	+23 11 59.8		046	1997 AN ₁₇	1997 01 16.83093	06 52 16.41	+20 46 33.9		046
1997 AX ₁₄	1997 02 09.80257	07 11 13.14	+23 12 00.3		046	1997 AN ₁₇	1997 01 16.83384	06 52 16.18	+20 46 32.2		046
1997 AY ₁₄	1997 01 15.13101	08 49 36.69	+15 11 18.0	18.5 V	046	1997 AN ₁₇	1997 01 17.83714	06 51 00.80	+20 36 33.0	15.6 V	046
1997 AY ₁₄	1997 01 15.13288	08 49 36.60	+15 11 18.0		046	1997 AN ₁₇	1997 01 17.84137	06 51 00.47	+20 36 30.5		046
1997 AY ₁₄	1997 01 15.13479	08 49 36.50	+15 11 18.2		046	1997 AN ₁₇	1997 01 17.84455	06 51 00.23	+20 36 28.6		046
1997 AY ₁₄	1997 01 15.98314	08 48 50.22	+15 09 39.5	18.7 V	046	1997 AN ₁₇	1997 01 26.88597	06 41 13.67	+19 11 04.1	16.1 V	046
1997 AY ₁₄	1997 01 15.98816	08 48 49.92	+15 09 39.5		046	1997 AN ₁₇	1997 01 26.89043	06 41 13.39	+19 11 01.9		046
1997 AY ₁₄	1997 01 15.99156	08 48 49.77	+15 09 39.0		046	1997 AN ₁₇	1997 01 26.89272	06 41 13.27	+19 11 01.0		046
1997 AY ₁₄	1997 01 16.93550	08 47 57.64	+15 07 51.7	18.5 V	046	1997 AN ₁₇	1997 01 28.75343	06 39 35.17	+18 54 37.7	16.1 V	046
1997 AY ₁₄	1997 01 16.93854	08 47 57.53	+15 07 51.1		046	1997 AN ₁₇	1997 01 28.75943	06 39 34.85	+18 54 34.7		046
1997 AY ₁₄	1997 01 16.94271	08 47 57.29	+15 07 50.4		046	1997 AN ₁₇	1997 01 28.76169	06 39 34.74	+18 54 33.5		046
1997 AY ₁₄	1997 01 17.99858	08 46 58.39	+15 05 51.7	18.3 V	046	1997 AN ₁₇	1997 02 06.84079	06 33 30.83	+17 41 27.3	16.4 V	046
1997 AY ₁₄	1997 01 18.00110	08 46 58.20	+15 05 50.9		046	1997 AN ₁₇	1997 02 06.84293	06 33 30.76	+17 41 26.3		046
1997 AY ₁₄	1997 01 18.00301	08 46 58.10	+15 05 51.0		046	1997 AN ₁₇	1997 02 06.84477	06 33 30.71	+17 41 25.6		046
1997 AY ₁₄	1997 02 02.79231	08 31 48.33	+14 38 48.0	18.2 V	046	1997 AN ₁₇	1997 02 10.75362	06 31 53.91	+17 13 28.4	17.0 V	046
1997 AY ₁₄	1997 02 02.79426	08 31 48.21	+14 38 47.8		046	1997 AN ₁₇	1997 02 10.75500	06 31 53.86	+17 13 27.9		046
1997 AY ₁₄	1997 02 02.79823	08 31 47.99	+14 38 47.3		046	1997 AN ₁₇	1997 02 10.75616	06 31 53.85	+17 13 27.3		046
1997 AY ₁₄	1997 02 09.85491	08 25 18.33	+14 27 27.3	18.4 V	046	1997 AN ₁₇	1997 02 15.84443	06 30 39.73	+16 40 08.5	16.7 V	046
1997 AY ₁₄	1997 02 09.85690	08 25 18.20	+14 27 27.0		046	1997 AN ₁₇	1997 02 15.84850	06 30 39.68	+16 40 07.0		046

1997 AN ₁₇	1997 02 15.85068	06 30 39.69	+16 40 06.5		046	1997 BB	1997 01 18.02873	09 10 35.67	+16 34 06.9	18.7 V	046
1997 AN ₁₇	1997 02 15.85440	06 30 39.66	+16 40 04.8		046	1997 BB	1997 01 18.03125	09 10 35.52	+16 34 05.9		046
1997 AZ ₁₇	1997 02 02.89792	09 36 05.70	+20 17 44.4	16.6 V	046	1997 BB	1997 01 18.03323	09 10 35.37	+16 34 07.1		046
1997 AZ ₁₇	1997 02 02.90023	09 36 05.53	+20 17 45.3		046	1997 BB	1997 01 18.03513	09 10 35.19	+16 34 06.5		046
1997 AZ ₁₇	1997 02 02.90209	09 36 05.42	+20 17 45.9		046	1997 BB	1997 01 19.14899	09 09 26.86	+16 35 53.2	18.8 V	046
1997 AZ ₁₇	1997 02 02.90405	09 36 05.29	+20 17 46.6		046	1997 BB	1997 01 19.15108	09 09 26.78	+16 35 53.9		046
1997 AZ ₁₇	1997 02 02.90609	09 36 05.19	+20 17 47.0		046	1997 BB	1997 01 19.15293	09 09 26.67	+16 35 53.9		046
1997 AZ ₁₇	1997 02 03.97896	09 34 59.75	+20 23 45.6	16.8 V	046	1997 BC	1997 01 18.03990	09 11 21.92	+19 58 26.6	19.1 V	046
1997 AZ ₁₇	1997 02 03.98079	09 34 59.63	+20 23 46.1		046	1997 BC	1997 01 18.04199	09 11 21.91	+19 58 27.2		046
1997 AZ ₁₇	1997 02 03.98264	09 34 59.51	+20 23 46.7		046	1997 BC	1997 01 18.04402	09 11 21.72	+19 58 26.4		046
1997 AZ ₁₇	1997 02 03.98484	09 34 59.38	+20 23 47.5		046	1997 BC	1997 01 19.16378	09 10 24.52	+20 01 49.8	19.2 V	046
1997 AZ ₁₇	1997 02 03.98678	09 34 59.25	+20 23 48.1		046	1997 BC	1997 01 19.16580	09 10 24.46	+20 01 49.3		046
1997 AZ ₁₇	1997 02 07.12869	09 31 44.58	+20 40 42.9	16.1 V	046	1997 BC	1997 02 02.09005	08 57 32.84	+20 42 20.0		046
1997 AZ ₁₇	1997 02 07.13065	09 31 44.46	+20 40 44.0		046	1997 BC	1997 02 02.09198	08 57 32.62	+20 42 19.5		046
1997 AZ ₁₇	1997 02 07.13282	09 31 44.32	+20 40 44.3		046	1997 BC	1997 02 02.09390	08 57 32.53	+20 42 20.7		046
1997 AF ₁₈	1997 01 17.07784	08 54 16.18	+20 04 46.5	19.4 V	046	1997 BC	1997 02 09.90468	08 50 12.91	+21 00 49.2	19.0 V	046
1997 AF ₁₈	1997 01 17.07978	08 54 16.07	+20 04 46.8		046	1997 BC	1997 02 09.91052	08 50 12.54	+21 00 49.6		046
1997 AF ₁₈	1997 01 17.08201	08 54 15.94	+20 04 47.4		046	1997 BC	1997 02 09.91260	08 50 12.47	+21 00 50.0		046
1997 AJ ₁₈	1997 01 17.94924	08 15 29.07	+12 31 53.7	18.9 V	046	1997 BD	1997 01 18.03990	09 11 41.43	+19 57 46.1	19.1 V	046
1997 AJ ₁₈	1997 01 17.95125	08 15 28.94	+12 31 53.6		046	1997 BD	1997 01 18.04402	09 11 41.29	+19 57 46.7		046
1997 AJ ₁₈	1997 01 17.95324	08 15 28.83	+12 31 53.9		046	1997 BD	1997 01 18.04608	09 11 41.18	+19 57 47.2		046
1997 AK ₁₈	1997 01 17.96266	08 24 25.97	+23 30 50.6	18.3 V	046	1997 BD	1997 01 19.16378	09 10 49.41	+20 02 03.6	19.2 V	046
1997 AK ₁₈	1997 01 17.96440	08 24 25.86	+23 30 51.1		046	1997 BD	1997 01 19.16580	09 10 49.30	+20 02 03.4		046
1997 AK ₁₈	1997 01 17.96613	08 24 25.75	+23 30 51.4		046	1997 BD	1997 01 19.16992	09 10 49.14	+20 02 05.4		046
1997 AK ₁₈	1997 02 07.02473	08 03 45.09	+24 21 40.1	18.6 V	046	1997 BD	1997 02 07.10350	08 54 47.93	+21 11 19.4	18.7 V	046
1997 AK ₁₈	1997 02 07.02843	08 03 44.89	+24 21 40.4		046	1997 BD	1997 02 07.10539	08 54 47.79	+21 11 19.9		046
1997 AK ₁₈	1997 02 07.03056	08 03 44.83	+24 21 40.8		046	1997 BD	1997 02 07.10838	08 54 47.75	+21 11 19.8		046
1997 AK ₁₈	1997 02 09.81707	08 01 25.80	+24 24 54.6	18.5 V	046	1997 BE	1997 01 19.17819	09 25 41.90	+18 16 48.3	18.8 V	046
1997 AK ₁₈	1997 02 09.82110	08 01 25.58	+24 24 55.1		046	1997 BE	1997 01 19.18155	09 25 41.75	+18 16 48.6		046
1997 AL ₁₈	1997 01 17.97306	08 41 16.34	+21 54 22.8	18.5 V	046	1997 BE	1997 01 19.18875	09 25 41.41	+18 16 48.9		046
1997 AL ₁₈	1997 01 17.97538	08 41 16.25	+21 54 23.2		046	1997 BE	1997 02 02.11216	09 13 07.47	+18 31 33.6	18.8 V	046
1997 AL ₁₈	1997 01 17.97750	08 41 16.07	+21 54 24.9		046	1997 BE	1997 02 02.11602	09 13 07.14	+18 31 33.7		046
1997 AL ₁₈	1997 02 07.04271	08 19 50.12	+24 27 32.8	18.8 V	046	1997 BG	1997 01 21.93160	09 49 20.48	+16 17 02.5	18.5 V	046
1997 AL ₁₈	1997 02 07.04671	08 19 49.93	+24 27 34.1		046	1997 BG	1997 01 21.93359	09 49 20.32	+16 17 05.4		046
1997 AL ₁₈	1997 02 07.04876	08 19 49.86	+24 27 34.7		046	1997 BG	1997 01 21.93595	09 49 20.20	+16 17 07.3		046
1997 AL ₁₈	1997 02 09.84666	08 17 04.06	+24 45 18.2	18.8 V	046	1997 BG	1997 02 06.92574	09 32 11.28	+21 49 28.0	17.5 V	046
1997 AL ₁₈	1997 02 09.84861	08 17 03.95	+24 45 18.5		046	1997 BG	1997 02 06.93017	09 32 10.96	+21 49 33.5		046
1997 AL ₁₈	1997 02 09.85060	08 17 03.86	+24 45 19.2		046	1997 BG	1997 02 06.93762	09 32 10.39	+21 49 42.9		046
1997 AM ₁₈	1997 01 18.00866	08 47 20.77	+15 24 35.9	18.8 V	046	1997 BG	1997 02 08.13487	09 30 43.80	+22 14 22.1	17.8 V	046
1997 AM ₁₈	1997 01 18.01062	08 47 20.68	+15 24 37.0		046	1997 BG	1997 02 08.13711	09 30 43.65	+22 14 24.9		046
1997 AM ₁₈	1997 01 18.01278	08 47 20.55	+15 24 37.2		046	1997 BG	1997 02 08.13919	09 30 43.45	+22 14 27.6		046
1997 AM ₁₈	1997 01 19.13426	08 46 26.87	+15 34 02.7		046	1997 BG	1997 02 10.90075	09 27 23.46	+23 10 31.9	17.7 V	046
1997 AM ₁₈	1997 01 19.15630	08 46 25.83	+15 34 13.9	18.5 V	046	1997 BG	1997 02 10.90243	09 27 23.29	+23 10 34.2		046
1997 AM ₁₈	1997 01 19.15862	08 46 25.71	+15 34 14.2		046	1997 BG	1997 02 10.90411	09 27 23.18	+23 10 36.1		046
1997 AM ₁₈	1997 02 02.80646	08 34 23.72	+17 38 37.3	18.7 V	046	1997 BQ	1997 01 21.89208	11 05 30.87	+61 44 30.7		046
1997 AM ₁₈	1997 02 02.80819	08 34 23.57	+17 38 37.9		046	1997 BQ	1997 01 21.89442	11 05 31.75	+61 44 37.1		046
1997 AM ₁₈	1997 02 02.81275	08 34 23.30	+17 38 40.4		046	1997 BQ	1997 01 21.89591	11 05 32.41	+61 44 41.9		046
1997 AM ₁₈	1997 02 09.86297	08 28 52.93	+18 35 52.7	18.8 V	046	1997 BQ	1997 01 21.89708	11 05 32.85	+61 44 45.7		046
1997 AM ₁₈	1997 02 09.86699	08 28 52.83	+18 35 54.4		046	1997 BQ	1997 01 21.89919	11 05 33.72	+61 44 51.1	17.5 V	046
1997 AM ₁₈	1997 02 09.86919	08 28 52.64	+18 35 55.1		046	1997 BQ	1997 01 26.92001	11 46 58.75	+65 33 24.2	17.2 V	046
1997 AQ ₁₈	1997 02 09.77061	06 57 12.92	+15 00 29.0		F 046	1997 BQ	1997 01 26.92142	11 46 59.63	+65 33 28.3		046
1997 AQ ₁₈	1997 02 09.77916	06 57 12.15	+15 00 24.9	19.0 V	F 046	1997 BQ	1997 01 26.92260	11 47 00.30	+65 33 31.3		046

1997 BQ	1997 01 26.92427	11 47 01.27	+65 33 36.0		046	1997 CU ₁	1997 02 03.90884	06 42 03.95	+20 46 23.5		046
1997 BQ	1997 02 10.19711	15 19 36.88	+69 26 24.4	16.7 V	046	1997 CU ₁	1997 02 03.91222	06 42 03.92	+20 46 23.2		046
1997 BQ	1997 02 10.19828	15 19 38.08	+69 26 22.5		046	1997 CV ₁	* 1997 02 02.77098	07 14 43.38	+22 50 55.5	17.9 V	046
1997 BR	1997 01 26.93334	10 11 04.26	+27 28 42.2		046	1997 CV ₁	1997 02 02.77300	07 14 43.28	+22 50 55.9		046
1997 BR	1997 01 26.93459	10 11 04.21	+27 28 45.8		046	1997 CV ₁	1997 02 02.77487	07 14 43.12	+22 50 56.7		046
1997 BR	1997 01 26.93576	10 11 04.14	+27 28 49.3		046	1997 CV ₁	1997 02 02.77678	07 14 43.05	+22 50 56.4		046
1997 BR	1997 01 26.93735	10 11 04.11	+27 28 53.0		046	1997 CV ₁	1997 02 03.92196	07 13 41.99	+22 53 46.5	17.9 V	046
1997 BR	1997 02 02.14748	10 06 27.38	+32 30 11.5	16.7 V	046	1997 CV ₁	1997 02 03.92552	07 13 41.82	+22 53 46.9		046
1997 BR	1997 02 02.14969	10 06 27.25	+32 30 18.2		046	1997 CV ₁	1997 02 03.92737	07 13 41.71	+22 53 47.1		046
1997 BR	1997 02 02.15157	10 06 27.13	+32 30 23.9		046	1997 CW ₁	* 1997 02 02.89792	09 35 38.45	+20 14 57.6	18.3 V	046
1997 BR	1997 02 10.03309	09 56 34.65	+39 27 58.3	16.7 V	046	1997 CW ₁	1997 02 02.90023	09 35 38.31	+20 14 59.5		046
1997 BR	1997 02 10.03441	09 56 34.50	+39 28 02.6		046	1997 CW ₁	1997 02 02.90309	09 35 38.17	+20 15 00.3		046
1997 BR	1997 02 10.03567	09 56 34.39	+39 28 06.6		046	1997 CW ₁	1997 02 02.90405	09 35 38.11	+20 15 01.6		046
1997 CQ ₁	* 1997 02 02.01610	09 10 53.69	+12 20 59.4	17.8 V	046	1997 CW ₁	1997 02 02.90609	09 35 37.96	+20 15 03.0		046
1997 CQ ₁	1997 02 02.01816	09 10 53.59	+12 21 00.5		046	1997 CW ₁	1997 02 03.97896	09 34 39.04	+20 24 57.3	18.3 V	046
1997 CQ ₁	1997 02 02.02000	09 10 53.52	+12 21 01.5		046	1997 CW ₁	1997 02 03.98079	09 34 38.93	+20 24 58.2		046
1997 CQ ₁	1997 02 02.02227	09 10 53.40	+12 21 02.7		046	1997 CW ₁	1997 02 03.98264	09 34 38.83	+20 24 59.3		046
1997 CQ ₁	1997 02 02.02534	09 10 53.26	+12 21 04.5		046	1997 CW ₁	1997 02 03.98484	09 34 38.69	+20 25 00.5		046
1997 CQ ₁	1997 02 02.88333	09 10 14.29	+12 28 42.5	17.8 V	046	1997 CW ₁	1997 02 03.98678	09 34 38.59	+20 25 01.6		046
1997 CQ ₁	1997 02 02.88527	09 10 14.23	+12 28 43.4		046	1997 CJ ₃	1997 02 07.13660	09 55 27.64	+16 08 54.7	18.4 V	046
1997 CQ ₁	1997 02 02.88714	09 10 14.12	+12 28 44.6		046	1997 CJ ₃	1997 02 07.13851	09 55 27.54	+16 08 55.7		046
1997 CQ ₁	1997 02 02.88905	09 10 14.01	+12 28 45.6		046	1997 CJ ₃	1997 02 07.14101	09 55 27.42	+16 08 57.0		046
1997 CQ ₁	1997 02 02.89094	09 10 13.95	+12 28 46.8		046	1997 CJ ₃	1997 02 07.14354	09 55 27.27	+16 08 58.5		046
1997 CR ₁	* 1997 02 02.07955	08 53 48.12	+17 00 34.9	18.2 V	046	1997 CJ ₃	1997 02 08.14341	09 54 36.51	+16 17 29.8	18.5 V	046
1997 CR ₁	1997 02 02.08166	08 53 48.00	+17 00 35.5		046	1997 CJ ₃	1997 02 08.14794	09 54 36.24	+16 17 32.0		046
1997 CR ₁	1997 02 02.08365	08 53 47.89	+17 00 36.0		046	1997 CJ ₃	1997 02 08.15023	09 54 36.14	+16 17 33.1		046
1997 CR ₁	1997 02 02.08554	08 53 47.80	+17 00 36.7		046	1997 CM ₄	* 1997 02 03.97896	09 34 44.49	+20 31 12.0	18.5 V	046
1997 CR ₁	1997 02 02.86649	08 53 07.59	+17 04 12.3	17.9 V	046	1997 CM ₄	1997 02 03.98079	09 34 44.36	+20 31 12.0		046
1997 CR ₁	1997 02 02.86816	08 53 07.48	+17 04 12.8		046	1997 CM ₄	1997 02 03.98264	09 34 44.26	+20 31 12.3		046
1997 CR ₁	1997 02 02.86984	08 53 07.41	+17 04 13.2		046	1997 CM ₄	1997 02 03.98484	09 34 44.08	+20 31 13.1		046
1997 CR ₁	1997 02 02.87152	08 53 07.32	+17 04 13.8		046	1997 CM ₄	1997 02 03.98678	09 34 43.94	+20 31 13.2		046
1997 CR ₁	1997 02 02.87319	08 53 07.24	+17 04 14.2		046	1997 CM ₄	1997 02 06.94233	09 31 18.88	+20 41 26.6	18.1 V	046
1997 CR ₁	1997 02 02.87488	08 53 07.17	+17 04 14.5		046	1997 CM ₄	1997 02 06.94432	09 31 18.75	+20 41 27.2		046
1997 CR ₁	1997 02 02.87655	08 53 07.07	+17 04 15.0		046	1997 CM ₄	1997 02 06.94691	09 31 18.57	+20 41 27.8		046
1997 CS ₁	* 1997 02 02.07955	08 54 03.52	+17 00 26.0	18.6 V	046	1997 CM ₄	1997 02 06.95023	09 31 18.32	+20 41 28.1		046
1997 CS ₁	1997 02 02.08166	08 54 03.36	+17 00 26.2		046	1997 CO ₅	1997 02 06.81190	09 08 25.81	+18 15 41.2	16.9 V	046
1997 CS ₁	1997 02 02.08365	08 54 03.19	+17 00 26.8		046	1997 CO ₅	1997 02 06.81422	09 08 25.57	+18 15 37.8		046
1997 CS ₁	1997 02 02.08554	08 54 03.06	+17 00 27.0		046	1997 CO ₅	1997 02 06.81650	09 08 25.35	+18 15 34.8		046
1997 CS ₁	1997 02 02.86649	08 53 10.61	+17 01 46.9	18.5 V	046	1997 CO ₅	1997 02 07.82061	09 06 49.30	+17 51 32.4		046
1997 CS ₁	1997 02 02.86816	08 53 10.46	+17 01 47.0		046	1997 CO ₅	1997 02 07.90174	09 06 41.34	+17 49 37.2	17.0 V	046
1997 CS ₁	1997 02 02.87152	08 53 10.31	+17 01 47.0		046	1997 CO ₅	1997 02 07.90402	09 06 41.15	+17 49 34.1		046
1997 CS ₁	1997 02 02.87319	08 53 10.15	+17 01 48.0		046	1997 CO ₅	1997 02 07.90635	09 06 40.88	+17 49 31.2		046
1997 CS ₁	1997 02 02.87488	08 53 10.03	+17 01 47.4		046	1997 CO ₅	1997 02 09.91900	09 03 36.67	+17 02 21.8	17.3 V	046
1997 CS ₁	1997 02 02.87655	08 53 09.90	+17 01 48.1		046	1997 CO ₅	1997 02 09.92030	09 03 36.57	+17 02 20.2		046
1997 CU ₁	* 1997 02 02.76049	06 42 37.34	+20 45 23.8	18.1 V	046	1997 CO ₅	1997 02 09.92172	09 03 36.42	+17 02 18.2		046
1997 CU ₁	1997 02 02.76243	06 42 37.23	+20 45 23.2		046	1997 CO ₅	1997 02 10.84057	09 02 16.42	+16 41 13.7	17.2 V	046
1997 CU ₁	1997 02 02.76459	06 42 37.19	+20 45 23.3		046	1997 CO ₅	1997 02 10.84182	09 02 16.30	+16 41 12.1		046
1997 CU ₁	1997 02 02.76652	06 42 37.07	+20 45 23.3		046	1997 CO ₅	1997 02 10.84321	09 02 16.17	+16 41 10.3		046
1997 CU ₁	1997 02 03.90212	06 42 04.12	+20 46 22.7	18.1 V	046	1997 CO ₅	1997 02 10.84512	09 02 16.01	+16 41 07.6		046
1997 CU ₁	1997 02 03.90380	06 42 04.11	+20 46 22.7		046	1997 CT ₅	* 1997 02 07.02473	08 04 12.44	+24 19 27.7	16.8 V	046
1997 CU ₁	1997 02 03.90549	06 42 04.04	+20 46 23.4		046	1997 CT ₅	1997 02 07.02843	08 04 12.20	+24 19 27.2		046
1997 CU ₁	1997 02 03.90716	06 42 03.99	+20 46 23.3		046	1997 CT ₅	1997 02 07.03056	08 04 12.07	+24 19 26.9		046

1997 CT ₅	1997 02 07.94413	08 03 17.51	+24 17 39.5	17.0 V	046	1997 CM ₁₃	1997 02 09.96274	09 27 46.93	+20 59 38.0		046
1997 CT ₅	1997 02 07.94606	08 03 17.39	+24 17 39.2		046	1997 CM ₁₃	1997 02 09.96536	09 27 46.84	+20 59 39.7		046
1997 CT ₅	1997 02 07.94791	08 03 17.28	+24 17 39.1		046	1997 CN ₁₃	* 1997 02 07.96274	08 47 16.55	+17 23 16.2	17.4 V	046
1997 CU ₅	* 1997 02 07.07385	08 48 33.37	+17 13 01.9	18.2 V	046	1997 CN ₁₃	1997 02 07.96462	08 47 16.43	+17 23 17.0		046
1997 CU ₅	1997 02 07.07584	08 48 33.29	+17 13 02.8		046	1997 CN ₁₃	1997 02 07.96751	08 47 16.26	+17 23 18.2		046
1997 CU ₅	1997 02 07.07829	08 48 33.10	+17 13 04.1		046	1997 CN ₁₃	1997 02 09.88257	08 45 22.97	+17 36 27.7	17.4 V	046
1997 CU ₅	1997 02 07.08094	08 48 32.96	+17 13 05.0		046	1997 CN ₁₃	1997 02 09.88448	08 45 22.88	+17 36 28.5		046
1997 CU ₅	1997 02 07.96274	08 47 42.57	+17 19 32.6	18.2 V	046	1997 CN ₁₃	1997 02 09.88635	08 45 22.76	+17 36 29.2		046
1997 CU ₅	1997 02 07.96462	08 47 42.48	+17 19 33.6		046	1997 CN ₁₃	1997 02 09.88924	08 45 22.56	+17 36 30.6		046
1997 CU ₅	1997 02 07.96751	08 47 42.30	+17 19 34.8		046	1997 CO ₁₃	* 1997 02 07.99056	08 49 29.94	+17 03 10.0	19.0 V	046
1997 CV ₅	* 1997 02 06.92574	09 31 41.95	+21 53 19.6	18.1 V	046	1997 CO ₁₃	1997 02 07.99427	08 49 29.71	+17 03 10.8		046
1997 CV ₅	1997 02 06.92830	09 31 41.77	+21 53 19.8		046	1997 CO ₁₃	1997 02 08.01291	08 49 28.78	+17 03 14.2	18.9 V	046
1997 CV ₅	1997 02 06.93017	09 31 41.66	+21 53 20.5		046	1997 CO ₁₃	1997 02 08.01966	08 49 28.42	+17 03 15.8		046
1997 CV ₅	1997 02 06.93294	09 31 41.49	+21 53 21.0		046	1997 CO ₁₃	1997 02 09.89397	08 47 52.29	+17 09 16.4	19.0 V	046
1997 CV ₅	1997 02 06.93762	09 31 41.22	+21 53 22.4		046	1997 CO ₁₃	1997 02 09.89633	08 47 52.13	+17 09 16.9		046
1997 CV ₅	1997 02 08.12339	09 30 31.62	+21 57 34.5	17.9 V	046	1997 CO ₁₃	1997 02 09.90034	08 47 51.95	+17 09 17.8		046
1997 CV ₅	1997 02 08.12529	09 30 31.49	+21 57 34.9		046	1997 CV ₁₃	* 1997 02 09.92524	09 05 21.88	+18 41 51.9	18.4 V	046
1997 CV ₅	1997 02 08.12716	09 30 31.38	+21 57 35.0		046	1997 CV ₁₃	1997 02 09.92909	09 05 21.64	+18 41 53.2		046
1997 CV ₅	1997 02 08.12946	09 30 31.26	+21 57 35.5		046	1997 CV ₁₃	1997 02 09.93110	09 05 21.49	+18 41 53.4		046
1997 CW ₅	* 1997 02 06.92574	09 32 05.60	+21 49 02.8	17.7 V	046	1997 CV ₁₃	1997 02 10.85777	09 04 26.98	+18 46 33.5	18.2 V	046
1997 CW ₅	1997 02 06.92830	09 32 05.44	+21 49 03.2		046	1997 CV ₁₃	1997 02 10.86177	09 04 26.77	+18 46 34.9		046
1997 CW ₅	1997 02 06.93017	09 32 05.33	+21 49 03.2		046	1997 CV ₁₃	1997 02 10.86420	09 04 26.50	+18 46 35.3		046
1997 CW ₅	1997 02 06.93294	09 32 05.17	+21 49 03.5		046	1997 CV ₁₃	1997 02 10.86803	09 04 26.28	+18 46 36.6		046
1997 CW ₅	1997 02 06.93762	09 32 04.87	+21 49 03.9		046	1997 CV ₁₃	1997 02 10.88191	09 04 25.56	+18 46 40.6		046
1997 CW ₅	1997 02 08.11500	09 30 55.19	+21 50 14.1	17.6 V	046	1997 CW ₁₃	* 1997 02 09.92524	09 05 29.67	+18 41 22.8	18.4 V	046
1997 CW ₅	1997 02 08.11749	09 30 55.06	+21 50 14.2		046	1997 CW ₁₃	1997 02 09.92909	09 05 29.42	+18 41 23.8		046
1997 CW ₅	1997 02 08.11980	09 30 54.90	+21 50 14.4		046	1997 CW ₁₃	1997 02 09.93110	09 05 29.24	+18 41 24.2		046
1997 CZ ₅	1997 02 07.80332	04 28 42.19	+19 31 37.5	15.0 V	046	1997 CW ₁₃	1997 02 10.85777	09 04 28.98	+18 46 11.7	18.2 V	046
1997 CZ ₅	1997 02 07.80462	04 28 42.35	+19 31 35.5		046	1997 CW ₁₃	1997 02 10.86177	09 04 28.73	+18 46 12.6		046
1997 CZ ₅	1997 02 07.80582	04 28 42.55	+19 31 33.2		046	1997 CW ₁₃	1997 02 10.86420	09 04 28.49	+18 46 13.0		046
1997 CZ ₅	1997 02 07.80750	04 28 42.79	+19 31 30.5		046	1997 CW ₁₃	1997 02 10.86803	09 04 28.30	+18 46 13.9		046
1997 CZ ₅	1997 02 07.80912	04 28 43.00	+19 31 27.7		046	1997 CW ₁₃	1997 02 10.88191	09 04 27.34	+18 46 19.1		046
1997 CZ ₅	1997 02 08.71209	04 31 00.02	+19 05 29.8	15.0 V	046	4206 P-L	1997 02 06.98488	07 47 47.56	+34 48 18.5	18.5 V	046
1997 CZ ₅	1997 02 08.71735	04 31 00.78	+19 05 21.1		046	4206 P-L	1997 02 06.98686	07 47 47.40	+34 48 18.3		046
1997 CZ ₅	1997 02 08.72940	04 31 02.57	+19 05 00.5		046	4206 P-L	1997 02 06.98934	07 47 47.30	+34 48 17.6		046
1997 CZ ₅	1997 02 08.73060	04 31 02.75	+19 04 58.4		046	4206 P-L	1997 02 06.99155	07 47 47.14	+34 48 17.2		046
1997 CZ ₅	1997 02 08.73177	04 31 02.92	+19 04 56.4		046	4206 P-L	1997 02 07.93381	07 46 48.79	+34 45 28.0	18.5 V	046
1997 CZ ₅	1997 02 09.72220	04 33 32.73	+18 37 02.1	15.2 V	046	4206 P-L	1997 02 07.93572	07 46 48.66	+34 45 27.6		046
1997 CZ ₅	1997 02 09.72347	04 33 32.92	+18 37 00.0		046	4206 P-L	1997 02 07.93939	07 46 48.48	+34 45 27.4		046
1997 CZ ₅	1997 02 09.72485	04 33 33.12	+18 36 57.7		046	1277 T-2	1997 01 17.85991	06 52 19.32	+21 01 36.8	18.0 V	046
1997 CZ ₅	1997 02 09.72609	04 33 33.30	+18 36 55.6		046	1277 T-2	1997 01 17.86164	06 52 19.26	+21 01 36.2		046
1997 CZ ₅	1997 02 10.73270	04 36 05.37	+18 09 09.0	15.2 V	046	1277 T-2	1997 01 17.87197	06 52 18.70	+21 01 36.5		046
1997 CZ ₅	1997 02 10.73579	04 36 05.82	+18 09 04.0		046	(529)	1997 01 26.90797	04 13 32.69	+25 47 45.5	14.7 V	046
1997 CZ ₅	1997 02 10.73701	04 36 06.01	+18 09 02.0		046	(529)	1997 01 26.90919	04 13 32.70	+25 47 45.7		046
1997 CZ ₅	1997 02 16.73388	04 51 09.07	+15 35 17.4	14.9 V	046	(529)	1997 01 26.91159	04 13 32.72	+25 47 45.9		046
1997 CZ ₅	1997 02 16.73490	04 51 09.17	+15 35 15.5		046	(529)	1997 02 02.71764	04 15 11.34	+26 01 27.3	14.6 V	046
1997 CZ ₅	1997 02 16.73718	04 51 09.51	+15 35 12.3		046	(529)	1997 02 02.71884	04 15 11.36	+26 01 27.4		046
1997 CM ₁₃	* 1997 02 06.94233	09 31 08.95	+20 41 24.6	18.7 V	046	(529)	1997 02 02.72124	04 15 11.41	+26 01 27.7		046
1997 CM ₁₃	1997 02 06.94432	09 31 08.87	+20 41 25.0		046	(2060)	1997 02 02.18404	13 58 33.87	-12 37 11.4	16.6 V	046
1997 CM ₁₃	1997 02 06.94691	09 31 08.63	+20 41 26.4		046	(2060)	1997 02 02.18814	13 58 33.91	-12 37 11.3		046
1997 CM ₁₃	1997 02 06.95023	09 31 08.44	+20 41 28.0		046	(2060)	1997 02 02.19045	13 58 33.92	-12 37 11.3		046
1997 CM ₁₃	1997 02 09.95875	09 27 47.24	+20 59 37.4		046	(4179)	1997 02 17.78969	07 58 56.49	+20 48 16.2	16.4 V	046

(4179)	1997 02 17.79094	07 58 56.52	+20 48 15.9		046
(4179)	1997 02 17.79218	07 58 56.53	+20 48 15.9		046
(5131)	1997 02 08.74519	04 39 25.08	+08 56 49.5	18.0 V	046
(5131)	1997 02 08.74720	04 39 25.02	+08 56 51.9		046
(5131)	1997 02 08.74970	04 39 24.98	+08 56 54.9		046
(5145)	1997 02 02.16564	13 22 43.90	+17 29 59.1	17.2 V	046
(5145)	1997 02 02.16737	13 22 43.90	+17 29 59.6		046
(5145)	1997 02 02.17084	13 22 43.91	+17 29 59.9		046
(5593)	1997 02 08.75947	04 37 52.85	+15 12 46.0	17.3 V	046
(5593)	1997 02 08.76144	04 37 52.92	+15 12 46.6		046
(5593)	1997 02 08.76551	04 37 53.06	+15 12 47.8		046
(6076)	1997 02 17.77578	08 40 08.74	+16 38 57.8	16.2 V	046
(6076)	1997 02 17.77725	08 40 08.67	+16 38 58.5		046
(6076)	1997 02 17.77868	08 40 08.59	+16 38 58.9		046

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Observers L. I. Chernykh, N. S. Chernykh, L. G. Karachkina, L. V. Zhuravleva

0.4-m $f/4$ double astrograph

PPM

1995 UP ₄	1991 09 15.93056	01 09 22.22	-06 13 07.5	16.0	095
1995 UP ₄	1991 09 15.94456	01 09 21.61	-06 13 12.7	16.0	095
1996 VE ₆	1992 09 03.91319	23 52 52.12	+00 35 44.3	16.0	095
1996 VE ₆	1992 09 03.92708	23 52 51.64	+00 35 40.0	16.0	095
1996 VE ₆	1992 09 29.82977	23 33 21.51	-02 27 18.1	16.5	095
1996 VE ₆	1992 09 29.84366	23 33 20.92	-02 27 22.2	16.5	095
1996 VP ₇	1991 11 05.91068	02 43 53.24	+14 30 29.8	16.0	095
1996 VP ₇	1991 11 05.91764	02 43 53.13	+14 30 31.6	16.0	095
1996 YW ₂	1992 09 28.96243	01 12 26.43	+17 31 34.8	15.5	095
1996 YW ₂	1992 09 28.96936	01 12 25.89	+17 31 34.2	15.5	095

098 Asiago Observatory, Cima Ekar

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Observer U. Munari

Measurers M. Tombelli, G. Forti

0.67-m $f/3.2$ Schmidt

1990 RK ₇	1997 01 30.92646	08 35 46.50	+20 00 53.8		098
1990 RK ₇	1997 01 30.94697	08 35 45.25	+20 01 00.0	17.0 V	098
1990 RK ₇	1997 01 31.83785	08 34 57.24	+20 04 39.2		098
1990 RK ₇	1997 01 31.85868	08 34 56.18	+20 04 43.2		098
1994 NT ₁	1997 01 30.92646	08 36 37.51	+19 54 15.0		098
1994 NT ₁	1997 01 30.94697	08 36 36.25	+19 54 27.2	16.5 V	098
1994 NT ₁	1997 01 31.83785	08 35 48.19	+20 03 00.9		098
1994 NT ₁	1997 01 31.85868	08 35 47.14	+20 03 12.1		098
1995 SU	1997 01 30.92646	08 39 37.59	+19 54 00.2		098
1995 SU	1997 01 30.94697	08 39 36.09	+19 54 03.4	17.5 V	098
1995 SU	1997 01 31.83785	08 38 35.15	+19 55 34.0		098
1995 SU	1997 01 31.85868	08 38 33.79	+19 55 36.6		098
1996 RG ₁	1994 01 18.90346	07 27 54.71	+32 25 25.5	16.5 R	098

1996 RG ₁	1994 01 18.92569	07 27 52.91	+32 25 23.2		098
1996 XG ₃₂	1997 01 07.97837	04 12 19.23	+19 54 09.7		098
1996 XG ₃₂	1997 01 07.99932	04 12 18.75	+19 54 07.8	18.0 V	098
1997 AN ₂₁	1997 01 30.92646	08 38 53.53	+19 44 26.7		098
1997 AN ₂₁	1997 01 30.94697	08 38 52.06	+19 44 24.8	16.5 V	098
1997 AN ₂₁	1997 01 31.83785	08 37 50.12	+19 42 08.1		098
1997 AN ₂₁	1997 01 31.85868	08 37 48.77	+19 42 02.7		098
1997 BX ₆	* 1997 01 30.92646	08 39 42.48	+19 54 38.0		098
1997 BX ₆	1997 01 30.94697	08 39 40.86	+19 54 42.3	18.0 V	098
1997 BX ₆	1997 01 31.83785	08 38 37.47	+19 57 07.2		098
1997 BX ₆	1997 01 31.85868	08 38 35.95	+19 57 11.1		098
(3323)	1997 01 30.92646	08 34 14.18	+19 55 35.8		098
(3323)	1997 01 30.94697	08 34 12.79	+19 55 40.0	16.5 V	098
(3323)	1997 01 31.83785	08 33 19.07	+19 58 45.3		098
(3323)	1997 01 31.85868	08 33 17.81	+19 58 47.4		098

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

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

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

0.40-m $f/5$ reflector + CCD

GSC

1986 RE ₁	1995 02 02.13519	13 11 57.07	-09 01 19.2	19.1 V	104
1986 RE ₁	1995 02 02.14028	13 11 57.11	-09 01 19.1		104
1986 RE ₁	1995 02 02.14583	13 11 57.15	-09 01 19.6		104
1986 RE ₁	1995 02 02.15139	13 11 57.25	-09 01 19.6		104
1986 RE ₁	1995 02 02.15949	13 11 57.38	-09 01 18.5		104
1994 PA ₁	1997 02 06.99977	10 29 09.88	+01 17 52.9	16.2 V	104
1994 PA ₁	1997 02 07.00984	10 29 09.33	+01 17 57.4		104
1995 UP ₆	1997 01 28.77014	07 41 14.70	+02 18 17.0		104
1995 UP ₆	1997 01 28.77465	07 41 14.51	+02 18 17.7		104
1995 UP ₆	1997 01 28.77986	07 41 14.28	+02 18 18.5		104
1996 OO ₂	1997 02 06.89502	04 00 27.26	+31 09 32.8	18.3 V	104
1996 OO ₂	1997 02 06.90972	04 00 27.84	+31 09 28.8		104
1996 UL ₁	1997 01 30.78611	02 09 12.30	+07 28 59.0		104
1996 UL ₁	1997 01 30.79063	02 09 12.52	+07 29 00.2		104
1996 UL ₁	1997 01 30.79549	02 09 12.79	+07 29 01.5		104
1996 VS	1997 01 30.74068	01 25 26.59	+05 03 26.2		104
1996 VS	1997 01 30.75035	01 25 27.05	+05 03 28.8		104
1996 VS	1997 01 30.76860	01 25 27.99	+05 03 33.5		104
1996 XF ₂	1997 02 06.87002	04 06 50.40	+25 05 07.7	18.7 V	104
1996 XF ₂	1997 02 06.88044	04 06 50.80	+25 05 09.8		104
1996 XN ₂₆	1997 02 06.88837	04 14 21.30	+22 22 58.1	18.7 V	104
1996 XN ₂₆	1997 02 06.90428	04 14 21.70	+22 23 00.6		104
1997 AY ₂₁	1997 01 28.74149	07 47 29.22	+20 54 00.8		104
1997 AY ₂₁	1997 01 28.74618	07 47 28.98	+20 54 02.5		104
1997 AY ₂₁	1997 01 28.75069	07 47 28.70	+20 54 04.8		104
1997 AY ₂₁	1997 01 29.75214	07 46 35.27	+20 59 14.0		104
1997 AY ₂₁	1997 01 29.75764	07 46 34.95	+20 59 15.9		104
1997 AY ₂₁	1997 01 29.76215	07 46 34.73	+20 59 17.0		104
1997 AY ₂₁	1997 01 30.81758	07 45 39.53	+21 04 37.5		104
1997 AY ₂₁	1997 01 30.82188	07 45 39.31	+21 04 38.7		104

1997 AY ₂₁	1997 01 30.82685	07 45 39.04	+21 04 39.9		104
1997 BJ ₃	* 1997 01 28.80359	08 58 45.28	+22 45 36.9	18.5 V	104
1997 BJ ₃	1997 01 28.80799	08 58 45.07	+22 45 38.7		104
1997 BJ ₃	1997 01 28.81250	08 58 44.90	+22 45 40.4		104
1997 BJ ₃	1997 01 28.82325	08 58 44.18	+22 45 44.8		104
1997 BJ ₃	1997 01 29.78163	08 57 48.98	+22 52 37.4		104
1997 BJ ₃	1997 01 29.78646	08 57 48.71	+22 52 40.6		104
1997 BJ ₃	1997 01 29.79132	08 57 48.40	+22 52 43.5		104
1997 BJ ₃	1997 01 30.84867	08 56 47.03	+23 00 19.3		104
1997 BJ ₃	1997 01 30.85421	08 56 46.74	+23 00 21.7		104
1997 BJ ₃	1997 01 30.85868	08 56 46.46	+23 00 23.5		104
1997 CA ₁₇	* 1997 02 07.04045	09 31 30.78	+07 03 01.8	17.2 V	104
1997 CA ₁₇	1997 02 07.06678	09 31 29.55	+07 03 03.2		104

106 Crni vrh

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0.36-m *f*/6.7 Schmidt-Cassegrain + CCD

GSC

1997 BR ₈	* 1997 01 30.95652	06 44 46.84	+17 59 03.7		106
1997 BR ₈	1997 01 30.98017	06 44 45.88	+17 59 10.6		106
1997 BR ₈	1997 02 01.87646	06 43 29.26	+18 09 58.6		106
1997 BR ₈	1997 02 10.85652	06 38 35.26	+18 59 12.4	18.0 R	106
1997 CQ ₁₃	* 1997 02 01.87646	06 42 49.71	+18 06 50.5		106
1997 CQ ₁₃	1997 02 01.91825	06 42 48.40	+18 06 57.4		106
1997 CQ ₁₃	1997 02 02.75872	06 42 22.90	+18 09 26.7		106
1997 CQ ₁₃	1997 02 02.76854	06 42 22.54	+18 09 27.2		106
1997 CQ ₁₃	1997 02 02.87063	06 42 19.34	+18 09 47.0		106
1997 CQ ₁₃	1997 02 06.95714	06 40 29.29	+18 21 43.3		106
1997 CQ ₁₃	1997 02 08.77038	06 39 48.52	+18 26 59.0	18.2 R	106
1997 CQ ₁₃	1997 02 09.78641	06 39 27.69	+18 29 53.2	18.2 R	106
1997 CQ ₁₃	1997 02 09.82976	06 39 26.78	+18 30 00.5	18.2 R	106

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Observers M. Tombelli, G. Forti

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

GSC

1984 BC	1997 02 01.94311	10 32 58.07	+20 24 57.1		108
1984 BC	1997 02 01.95068	10 32 58.20	+20 25 10.9		108
1984 BC	1997 02 01.95943	10 32 58.50	+20 25 27.0	16.5 V	108
1984 BC	1997 02 08.01950	10 35 09.12	+23 29 48.3		108
1984 BC	1997 02 08.02625	10 35 09.19	+23 30 00.1	17.0 V	108
1994 PA ₁	1997 02 01.93563	10 32 12.17	+00 45 51.4		108
1994 PA ₁	1997 02 01.96447	10 32 11.09	+00 46 04.2	15.7 V	108
1994 PA ₁	1997 02 08.00527	10 28 30.93	+01 24 45.9		108
1994 PA ₁	1997 02 08.01192	10 28 30.57	+01 24 48.0		108
1994 PA ₁	1997 02 08.01676	10 28 30.55	+01 24 48.7	17.0 V	108
1997 AX ₁₂	1997 01 29.90294	08 48 28.51	+22 25 11.8		108
1997 AX ₁₂	1997 01 29.90855	08 48 28.17	+22 25 16.4		108
1997 AX ₁₂	1997 01 29.91605	08 48 27.91	+22 25 21.0		108
1997 AX ₁₂	1997 02 01.81843	08 46 11.75	+22 49 49.6		108
1997 AX ₁₂	1997 02 01.84103	08 46 10.63	+22 50 01.1		108

1997 AX ₁₂	1997 02 08.89032	08 41 11.66	+23 41 07.2		108
1997 AX ₁₂	1997 02 08.91186	08 41 10.79	+23 41 17.5	18.0 V	108
1997 BR	1997 01 29.93521	10 09 11.35	+29 50 04.1	16.5 V	108
1997 BR	1997 02 01.87220	10 06 44.91	+32 16 09.9		108
1997 BR	1997 02 01.87691	10 06 44.66	+32 16 22.9		108
1997 BX ₆	1997 02 07.83763	08 30 31.47	+20 13 57.6		108
1997 BX ₆	1997 02 07.84525	08 30 31.05	+20 13 56.8		108
1997 BX ₆	1997 02 07.85440	08 30 30.29	+20 13 59.5	17.8 V	108
1997 BX ₆	1997 02 07.86862	08 30 29.57	+20 14 01.0		108
1997 CO ₅	1997 02 08.92532	09 05 06.20	+17 25 30.6		108
1997 CO ₅	1997 02 08.93116	09 05 05.74	+17 25 21.3		108
1997 CO ₅	1997 02 08.93817	09 05 05.09	+17 25 11.8		108
1997 CO ₅	1997 02 09.04281	09 04 55.14	+17 22 44.3	17.0 V	108
1997 CA ₁₇	1997 02 08.95170	09 29 54.29	+07 06 45.1		108
1997 CA ₁₇	1997 02 09.00088	09 29 51.73	+07 06 50.6		108
1997 CA ₁₇	1997 02 09.00964	09 29 51.09	+07 06 50.3	17.0 V	108
(1627)	1997 02 07.91092	08 20 52.15	+18 31 12.1		108
(1627)	1997 02 07.92834	08 20 50.85	+18 31 20.1	16.8 V	108
(3122)	1997 02 07.96101	09 09 45.06	+33 56 10.0		108
(3122)	1997 02 07.97161	09 09 43.48	+33 56 05.2		108
(3122)	1997 02 07.97859	09 09 42.67	+33 56 01.8	16.5 V	108
(3199)	1997 02 08.02830	10 51 50.30	+37 30 52.3	15.5 V	108
(3199)	1997 02 08.03056	10 51 49.73	+37 30 50.0		108
(3199)	1997 02 08.03536	10 51 48.51	+37 30 43.8	15.5 V	108

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Observers P. Antolini, F. Castellani, G. Pinazzi

0.60-m *f*/3.0 reflector + CCD

GSC

1996 XT ₂	1997 01 28.76307	05 03 54.53	+39 37 22.8	17.5 V	112
1996 XT ₂	1997 01 28.85088	05 03 53.29	+39 38 08.9		112
1996 XT ₂	1997 01 28.92373	05 03 52.36	+39 38 44.8		112
1996 XG ₅	1997 01 28.89978	05 05 31.20	+25 54 12.5	18.4 V	112
1996 XG ₅	1997 01 28.91294	05 05 31.39	+25 54 11.9		112
1996 XG ₅	1997 01 29.86457	05 05 39.17	+25 54 32.3		112

118 Modra

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

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Observers A. Galád, P. Kolény, L. Kornoš, A. Pravda

0.6-m *f*/5.5 reflector + CCD

GSC

1949 QL	1997 02 02.89468	07 14 12.78	+28 48 03.0		118
1949 QL	1997 02 02.89891	07 14 12.54	+28 48 02.4	17.7 R	118
1949 QL	1997 02 03.77795	07 13 27.54	+28 45 42.9		118
1949 QL	1997 02 03.79192	07 13 26.81	+28 45 40.8	17.8 R	118
1949 QL	1997 02 03.79926	07 13 26.42	+28 45 39.7		118
1984 BC	1997 02 03.11214	10 33 26.17	+20 59 38.6		r 118
1984 BC	1997 02 03.11505	10 33 26.25	+20 59 43.9	17.3 R	r 118
1991 VH	1997 02 02.11024	12 11 41.19	+04 47 16.2		118
1991 VH	1997 02 02.11674	12 11 41.33	+04 47 29.2		118

1993 MZ	1997 02 07.13535	13 03 18.80	-12 01 01.2	19	R	118	1996 YG ₁	1997 01 26.78458	07 19 28.32	+34 06 33.7	18.5 R	118
1993 MZ	1997 02 07.14753	13 03 18.67	-12 01 03.9			118	1996 YG ₁	1997 02 03.96016	07 11 40.63	+34 28 23.2	18.6 R	118
1993 MZ	1997 02 07.15633	13 03 18.65	-12 01 06.2			118	1996 YG ₁	1997 02 03.96593	07 11 40.32	+34 28 23.6		118
1994 AM ₃	1997 02 02.74263	03 57 11.43	+29 35 44.6			118	1996 YH ₁	1996 12 30.93483	07 04 16.54	+17 57 42.4	18.4 R	118
1994 AM ₃	1997 02 02.75094	03 57 11.77	+29 35 43.8	18.6 R		118	1996 YH ₁	1996 12 30.93854	07 04 16.34	+17 57 43.3		118
1994 AM ₃	1997 02 10.75301	04 04 00.01	+29 25 58.8			118	1996 YH ₁	1997 01 08.04459	06 56 01.98	+18 26 47.6		118
1994 AM ₃	1997 02 10.75833	04 04 00.29	+29 25 58.6			118	1996 YH ₁	1997 01 08.05331	06 56 01.38	+18 26 48.4	18.6 R	118
1994 AM ₃	1997 02 16.78814	04 10 20.69	+29 21 45.5	17.9 R		118	1996 YH ₁	1997 01 11.90880	06 52 09.15	+18 41 03.4	18.8 R	118
1994 AM ₃	1997 02 16.79853	04 10 21.41	+29 21 44.9			118	1996 YH ₁	1997 01 13.04456	06 51 01.66	+18 45 14.9	18.7 R	118
1994 PC	1997 02 01.82686	05 33 56.12	+19 27 11.5			118	1996 YH ₁	1997 01 14.92478	06 49 12.10	+18 52 13.4	18.6 R	118
1994 PC	1997 02 01.83610	05 33 56.71	+19 27 20.9			118	1996 YH ₁	1997 01 14.93338	06 49 11.61	+18 52 15.1	18.7 R	118
1994 PC	1997 02 02.80065	05 35 02.76	+19 43 43.4			118	1996 YH ₁	1997 01 14.93588	06 49 11.44	+18 52 15.9	18.9 R	118
1994 PC	1997 02 02.80881	05 35 03.31	+19 43 51.7	18.0 R		118	1996 YH ₁	1997 01 26.84015	06 38 49.66	+19 35 31.8		118
1995 OX ₁	1997 02 02.89468	07 14 18.36	+28 47 33.9			118	1996 YH ₁	1997 01 26.85780	06 38 48.85	+19 35 35.5	18.8 R	118
1995 OX ₁	1997 02 02.90701	07 14 17.67	+28 47 35.3		r	118	1996 YH ₁	1997 02 03.90332	06 33 27.84	+20 03 11.1		118
1995 OX ₁	1997 02 03.79192	07 13 32.45	+28 48 41.0	18.7 R		118	1996 YH ₁	1997 02 03.91740	06 33 27.35	+20 03 13.7	19.0 R	118
1995 OX ₁	1997 02 03.79926	07 13 32.05	+28 48 41.7			118	1997 AC ₁₁	1997 01 27.08593	13 46 11.82	+77 30 09.9	17.4 R	118
1995 PV	1997 02 10.86765	07 02 31.46	+30 56 54.8			118	1997 AC ₁₁	1997 01 27.09122	13 46 33.32	+77 31 02.9		118
1995 PV	1997 02 10.87671	07 02 31.10	+30 56 53.2			118	1997 AC ₁₁	1997 01 27.09529	13 46 49.91	+77 31 44.7		118
1995 QD ₂	1997 02 07.13535	13 02 59.92	-11 55 45.2			118	1997 AC ₁₁	1997 01 27.09942	13 47 06.64	+77 32 26.8	17.6 R	118
1995 QD ₂	1997 02 07.14753	13 02 59.95	-11 55 47.7			118	1997 AX ₁₂	1997 02 02.04608	08 46 00.39	+22 51 40.2	17.8 R	118
1995 QD ₂	1997 02 07.15633	13 02 59.99	-11 55 49.8			118	1997 AX ₁₂	1997 02 02.05059	08 46 00.16	+22 51 42.3		118
1995 QD ₂	1997 02 10.12272	13 03 09.20	-12 04 32.7			118	1997 AX ₁₂	1997 02 02.05399	08 46 00.00	+22 51 43.9		118
1995 QD ₂	1997 02 10.14058	13 03 09.14	-12 04 36.4			118	1997 AQ ₁₈	1997 01 21.81535	07 40 48.81	+18 41 32.7		118
1995 UY ₄₄	1997 02 07.01481	11 53 52.04	+13 03 30.4		r	118	1997 AQ ₁₈	1997 01 21.83377	07 40 45.00	+18 41 17.2	17.9 R	118
1995 UY ₄₄	1997 02 07.02794	11 53 51.66	+13 03 35.1		r	118	1997 AQ ₁₈	1997 01 26.99627	07 24 52.89	+17 30 42.6	17.6 R	118
1995 UY ₄₄	1997 02 10.05528	11 52 05.83	+13 18 07.9		r	118	1997 AQ ₁₈	1997 01 27.00241	07 24 51.84	+17 30 37.6		118
1995 UY ₄₄	1997 02 10.05824	11 52 05.70	+13 18 08.5		r	118	1997 AG ₂₂	* 1997 01 14.98674	08 11 35.28	+18 01 06.6		118
1996 AD ₂	1997 02 07.09582	13 06 07.69	+09 10 18.1			118	1997 AG ₂₂	1997 01 14.99045	08 11 35.02	+18 01 07.8	18.1 R	118
1996 AD ₂	1997 02 07.10160	13 06 07.66	+09 10 19.7	18.9 R		118	1997 AG ₂₂	1997 01 15.00657	08 11 33.84	+18 01 10.3	18.3 R	118
1996 AD ₂	1997 02 10.08624	13 05 55.42	+09 25 05.7			118	1997 AG ₂₂	1997 01 15.01005	08 11 33.60	+18 01 10.9		118
1996 AD ₂	1997 02 10.11341	13 05 55.22	+09 25 13.4	18.5 R		118	1997 AG ₂₂	1997 01 15.01622	08 11 33.16	+18 01 12.0		118
1996 YF ₁	1997 02 03.94516	07 29 51.49	+40 44 20.2	17.6 R		118	1997 AG ₂₂	1997 01 26.90362	07 57 47.34	+18 38 57.4		118
1996 YF ₁	1997 02 03.95331	07 29 51.29	+40 44 24.0			118	1997 AG ₂₂	1997 01 26.91145	07 57 46.76	+18 38 59.8		118
1996 YF ₁	1997 02 10.88646	07 28 59.03	+41 27 43.6			118	1997 AG ₂₂	1997 01 26.93796	07 57 44.95	+18 39 04.4	18.2 R	118
1996 YF ₁	1997 02 10.89095	07 28 59.03	+41 27 44.8			118	1997 AG ₂₂	1997 01 31.80634	07 52 26.85	+18 53 34.6	18.5 R	118
1996 YF ₁	1997 02 10.90071	07 28 59.03	+41 27 47.2			118	1997 AG ₂₂	1997 02 02.01302	07 51 11.25	+18 56 59.5	18.2 R	118
1996 YG ₁	1996 12 30.95297	07 49 11.37	+31 36 39.4	18.3 R		118	1997 AG ₂₂	1997 02 03.01609	07 50 10.20	+18 59 46.8		118
1996 YG ₁	1996 12 30.95575	07 49 11.21	+31 36 40.4			118	1997 AG ₂₂	1997 02 03.02220	07 50 09.81	+18 59 48.0	18.5 R	118
1996 YG ₁	1996 12 30.96660	07 49 10.52	+31 36 45.1			118	1997 AG ₂₂	1997 02 03.82819	07 49 22.07	+19 01 59.8		118
1996 YG ₁	1997 01 08.08444	07 40 26.10	+32 32 53.8			118	1997 AG ₂₂	1997 02 03.83190	07 49 21.82	+19 02 00.6	17.9 R	118
1996 YG ₁	1997 01 08.09240	07 40 25.53	+32 32 56.9	18.1 R		118	1997 AG ₂₂	1997 02 06.88730	07 46 27.80	+19 09 59.7	18.5 R	118
1996 YG ₁	1997 01 11.86543	07 36 08.18	+32 56 23.1			118	1997 AG ₂₂	1997 02 06.89732	07 46 27.24	+19 10 01.0		118
1996 YG ₁	1997 01 11.87411	07 36 07.51	+32 56 26.5	17.9 R		118	1997 AG ₂₂	1997 02 06.93154	07 46 25.31	+19 10 06.2		118
1996 YG ₁	1997 01 12.83267	07 35 01.48	+33 02 04.1	18.0 R		118	1997 AG ₂₂	1997 02 08.86896	07 44 42.95	+19 14 50.7		118
1996 YG ₁	1997 01 12.83971	07 35 00.99	+33 02 06.5			118	1997 AG ₂₂	1997 02 08.88186	07 44 42.22	+19 14 52.0	18.5 R	118
1996 YG ₁	1997 01 14.94806	07 32 35.30	+33 13 59.3	18.3 R		118	1997 BR	1997 02 02.12833	10 06 28.58	+32 29 13.4	16.8 R	118
1996 YG ₁	1997 01 14.95222	07 32 35.01	+33 14 00.5	18.3 R		118	1997 BR	1997 02 02.13043	10 06 28.45	+32 29 19.7		118
1996 YG ₁	1997 01 14.95593	07 32 34.74	+33 14 01.7	18.4 R		118	1997 BR	1997 02 02.13598	10 06 28.10	+32 29 36.5		118
1996 YG ₁	1997 01 24.83581	07 21 31.16	+33 59 37.2		S	118	1997 BR	1997 02 10.95228	09 55 07.78	+40 17 30.6	17.5 R	118
1996 YG ₁	1997 01 24.84601	07 21 30.52	+33 59 39.8	18.1 R	S	118	1997 BR	1997 02 10.95381	09 55 07.66	+40 17 36.2		118
1996 YG ₁	1997 01 26.77405	07 19 28.97	+34 06 31.5			118	1997 BR	1997 02 10.95713	09 55 07.28	+40 17 46.4		118

1997 BX ₅	* 1997 01 26.86730	08 00 54.48	+20 07 14.8		118	1997 CZ ₅	1997 02 16.83718	04 51 24.21	+15 32 48.2		118
1997 BX ₅	1997 01 26.88113	08 00 53.78	+20 07 18.4		118	1997 CJ ₆	* 1997 02 06.88730	07 46 25.00	+19 10 45.8	19.2 R	118
1997 BX ₅	1997 01 26.89332	08 00 53.23	+20 07 21.7	18.7 R	118	1997 CJ ₆	1997 02 06.89732	07 46 24.51	+19 10 47.5		118
1997 BX ₅	1997 01 31.98760	07 56 48.26	+20 29 52.8	18.8 R	118	1997 CJ ₆	1997 02 06.93154	07 46 22.94	+19 10 53.7		118
1997 BX ₅	1997 01 31.99223	07 56 48.06	+20 29 53.8	18.7 R	118	1997 CJ ₆	1997 02 08.86896	07 45 00.68	+19 17 17.8		118
1997 BX ₅	1997 02 01.86469	07 56 07.85	+20 33 38.1	18.9 R	118	1997 CJ ₆	1997 02 08.89985	07 44 59.29	+19 17 23.1	19.2 R	118
1997 BX ₅	1997 02 01.87368	07 56 07.41	+20 33 40.5		118	1997 CJ ₆	1997 02 09.96521	07 44 16.06	+19 20 49.2	19.4 R	118
1997 BX ₅	1997 02 06.83561	07 52 29.03	+20 54 05.0		118	1997 DA	* 1997 02 16.91359	07 59 13.71	+20 49 24.6	18.4 R	118
1997 BX ₅	1997 02 06.84525	07 52 28.59	+20 54 07.2		118	1997 DA	1997 02 16.91946	07 59 13.45	+20 49 26.1	17.9 R	118
1997 BX ₅	1997 02 06.86134	07 52 27.91	+20 54 11.1	19.1 R	118	1997 DA	1997 02 17.93308	07 58 37.54	+20 54 10.1		118
1997 BX ₅	1997 02 14.76213	07 47 31.17	+21 23 13.9	19.1 R	118	1997 DA	1997 02 17.94672	07 58 36.89	+20 54 15.8		118
1997 BX ₅	1997 02 14.76374	07 47 31.18	+21 23 13.5	19.0 R	118	1997 DA	1997 02 17.96729	07 58 36.18	+20 54 19.3	18.1 R	118
1997 BX ₅	1997 02 14.76591	07 47 31.06	+21 23 14.4		118	(699)	1997 02 11.02074	08 51 17.98	-03 25 55.0		118
1997 BZ ₅	* 1997 01 26.90889	07 57 40.76	+18 30 08.4		118	(699)	1997 02 11.02888	08 51 17.56	-03 25 53.2		118
1997 BZ ₅	1997 01 26.92448	07 57 39.85	+18 30 11.6		118	(1362)	1997 02 11.13057	13 26 27.07	+18 20 36.8		118
1997 BZ ₅	1997 01 26.95212	07 57 38.32	+18 30 16.4	17.5 R	118	(1362)	1997 02 11.14096	13 26 27.00	+18 20 41.9		118
1997 BZ ₅	1997 02 01.97719	07 52 26.48	+18 48 38.5	18.3 R	118	(1862)	1997 01 21.72719	02 15 00.70	+21 09 35.6		118
1997 BZ ₅	1997 02 01.98042	07 52 26.30	+18 48 39.0	18.2 R	118	(1862)	1997 01 21.74421	02 15 03.76	+21 09 49.3	18.2 R	118
1997 BZ ₅	1997 02 02.99646	07 51 37.44	+18 51 35.0	18.1 R	118	(1866)	1997 02 11.08436	13 43 07.01	+54 28 41.4		118
1997 BZ ₅	1997 02 03.83694	07 50 58.29	+18 53 59.3	18.1 R	118	(1866)	1997 02 11.08720	13 43 06.89	+54 28 44.1		118
1997 BZ ₅	1997 02 03.84819	07 50 57.73	+18 54 01.4		118	(2062)	1997 02 03.18567	16 38 34.94	+07 42 29.1		118
1997 BZ ₅	1997 02 06.93755	07 48 40.80	+19 02 31.2	18.2 R	118	(2062)	1997 02 03.18760	16 38 35.58	+07 42 29.1	17.6 R	118
1997 BZ ₅	1997 02 06.94477	07 48 40.48	+19 02 32.2		118	(2204)	1997 02 01.84797	06 27 54.52	-07 30 26.3		118
1997 BZ ₅	1997 02 11.97988	07 45 28.70	+19 15 08.3		118	(2204)	1997 02 01.85198	06 27 54.60	-07 30 19.0		118
1997 BZ ₅	1997 02 11.98547	07 45 28.50	+19 15 09.3		118	(3199)	1997 02 02.09135	11 15 12.49	+39 00 26.5		118
1997 BZ ₅	1997 02 11.98936	07 45 28.35	+19 15 10.0		118	(3199)	1997 02 02.09788	11 15 10.96	+39 00 21.6		118
1997 CP ₁	* 1997 02 02.84196	06 43 12.81	+17 57 27.9		118	(3199)	1997 02 11.06063	10 39 43.53	+36 32 32.2		118
1997 CP ₁	1997 02 02.85594	06 43 12.58	+17 57 32.9		118	(3199)	1997 02 11.06616	10 39 42.19	+36 32 25.3		118
1997 CP ₁	1997 02 02.87529	06 43 12.09	+17 57 38.0	17.9 R	118	(3388)	1997 02 11.15396	14 45 15.11	+19 44 57.5		118
1997 CP ₁	1997 02 03.73964	06 42 55.11	+18 01 57.0		118	(3388)	1997 02 11.17655	14 45 16.31	+19 45 10.1		118
1997 CP ₁	1997 02 03.74964	06 42 54.85	+18 02 00.3		118	(3858)	1997 02 02.72086	03 44 27.81	+29 39 52.7		118
1997 CP ₁	1997 02 03.75733	06 42 54.69	+18 02 02.5	18.2 R	118	(3858)	1997 02 02.73235	03 44 28.37	+29 39 51.2	18.0 R	118
1997 CT ₁	* 1997 02 01.89194	07 52 26.59	+18 19 06.7	17.9 R	118	(3858)	1997 02 10.72436	03 51 44.00	+29 28 09.4		118
1997 CT ₁	1997 02 01.89797	07 52 26.33	+18 19 07.0		118	(3858)	1997 02 10.73962	03 51 44.89	+29 28 08.4		118
1997 CT ₁	1997 02 03.87213	07 51 10.72	+18 22 26.0		118	(3908)	1997 01 26.72266	05 39 15.11	+20 32 06.8	18.2 R	118
1997 CT ₁	1997 02 03.87634	07 51 10.54	+18 22 26.4		118	(3908)	1997 01 26.72672	05 39 15.37	+20 32 07.1		118
1997 CT ₁	1997 02 03.88255	07 51 10.30	+18 22 27.1	18.2 R	118	(3908)	1997 02 02.81777	05 48 06.31	+20 33 53.5		118
1997 CL ₄	* 1997 02 03.87213	07 51 10.15	+18 25 35.9	18.9 R	118	(3908)	1997 02 02.82477	05 48 06.82	+20 33 53.4	18.5 R	118
1997 CL ₄	1997 02 03.87634	07 51 09.94	+18 25 35.5		118	(4179)	1997 02 16.91359	07 58 43.12	+20 48 29.1	16.7 R	118
1997 CL ₄	1997 02 03.88255	07 51 09.59	+18 25 35.2		118	(4179)	1997 02 16.93038	07 58 43.27	+20 48 28.8	16.4 R	118
1997 CL ₄	1997 02 06.81041	07 48 41.33	+18 24 06.4	19.0 R	118	(4179)	1997 02 16.93617	07 58 43.34	+20 48 28.7		118
1997 CL ₄	1997 02 06.81366	07 48 41.19	+18 24 06.3		118	(4954)	1997 02 02.16899	13 00 40.59	-01 44 42.7		118
1997 CL ₄	1997 02 06.82133	07 48 40.79	+18 24 05.7		118	(4954)	1997 02 02.17618	13 00 40.41	-01 44 44.7		118
1997 CL ₄	1997 02 09.00734	07 46 56.33	+18 22 52.4	18.7 R	F 118	(4957)	1997 02 01.76231	05 19 19.08	-14 49 20.8		118
1997 CZ ₅	1997 02 10.76654	04 36 10.32	+18 08 14.0		118	(4957)	1997 02 01.80686	05 19 18.63	-14 49 18.3		118
1997 CZ ₅	1997 02 10.77221	04 36 11.16	+18 08 04.7		118	(5131)	1997 02 01.74153	04 43 25.32	+06 53 52.1		118
1997 CZ ₅	1997 02 10.77569	04 36 11.67	+18 07 58.9		118	(5131)	1997 02 01.74891	04 43 24.99	+06 54 00.0		118
1997 CZ ₅	1997 02 11.83116	04 38 50.83	+17 39 30.0		118	(5131)	1997 02 02.78536	04 42 41.13	+07 12 20.9		118
1997 CZ ₅	1997 02 11.83393	04 38 51.23	+17 39 25.5	14.9 R	118	(5131)	1997 02 02.79226	04 42 40.82	+07 12 28.3	18.4 R	118
1997 CZ ₅	1997 02 11.83622	04 38 51.57	+17 39 21.7		118	(5131)	1997 02 10.78968	04 38 39.34	+09 32 11.4		118
1997 CZ ₅	1997 02 16.83185	04 51 23.44	+15 32 55.9	15.2 R	118	(5131)	1997 02 10.79374	04 38 39.24	+09 32 15.4		118
1997 CZ ₅	1997 02 16.83429	04 51 23.79	+15 32 52.4		118	(5131)	1997 02 16.80490	04 37 25.82	+11 14 19.2	17.8 R	r 118

M.P.C. 28931

1997 FEB. 22

(5131)	1997 02 16.80878	04 37 25.83	+11 14 23.1		r 118
(5261)	1997 02 02.76311	04 41 32.11	-01 11 32.0		118
(5261)	1997 02 02.77081	04 41 32.43	-01 11 31.5	18.7 R	118
(5507)	1997 02 10.97815	08 01 19.16	+22 39 29.2		118
(5507)	1997 02 10.98095	08 01 18.96	+22 39 29.5		118
(5587)	1997 02 02.06451	10 05 58.66	-08 59 18.1		118
(5587)	1997 02 02.07302	10 05 58.17	-08 59 16.3		118
(5626)	1997 01 24.69905	01 49 38.78	+05 42 13.8		118
(5626)	1997 01 24.70478	01 49 40.05	+05 42 20.9		118
(5626)	1997 01 24.70873	01 49 40.91	+05 42 26.2	16.4 R	118
(5626)	1997 02 01.72074	02 19 07.45	+08 29 54.2		118
(5626)	1997 02 01.72729	02 19 08.87	+08 30 02.0		118
(5693)	1997 02 11.03807	09 57 15.22	+22 04 20.9		118
(5693)	1997 02 11.04826	09 57 13.55	+22 04 30.1		118

120 Višnjan

K. Korlević, Istarska 5, HR-51463 Višnjan, Croatia [kkorlevic@x400.srce.hr]

Observers K. Korlević, V. Brcić

Measurer K. Korlević

0.41-m $f/4.3$ reflector + CCD

GSC

1997 AP ₂₃	* 1997 01 13.85561	08 55 52.07	+05 34 53.8		120
1997 AP ₂₃	1997 01 13.91314	08 55 49.44	+05 34 55.5	18.1 R	120
1997 AP ₂₃	1997 01 14.88309	08 55 06.51	+05 35 09.8		120
1997 AP ₂₃	1997 01 14.89240	08 55 06.07	+05 35 10.1		120
1997 AP ₂₃	1997 01 14.90564	08 55 05.45	+05 35 10.3		120

124 Castres

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

0.20-m $f/6.15$ reflector + CCD

GSC

1989 FG	1997 02 10.01877	11 05 27.76	+12 54 57.6	16.5	124
1989 FG	1997 02 10.02742	11 05 27.44	+12 55 00.3	16.5	124
1989 FG	1997 02 10.03605	11 05 27.02	+12 55 03.4	16.5	124
1991 CS	1997 02 08.13943	12 44 56.68	-26 07 44.5	17.2	124
1991 CS	1997 02 08.14159	12 44 56.76	-26 07 29.8	17.3	124
1991 CS	1997 02 08.14374	12 44 56.75	-26 07 17.0	17.1	124
1991 PY ₂	1997 02 15.94118	07 44 56.71	+25 44 41.2	16.7	124
1991 PY ₂	1997 02 15.95368	07 44 56.19	+25 44 36.9	16.5	124
1991 PY ₂	1997 02 15.97243	07 44 55.50	+25 44 30.8	16.5	124
1991 VH	1997 02 08.11097	12 13 24.04	+08 24 29.9	16.3	124
1991 VH	1997 02 08.11543	12 13 24.01	+08 24 41.8	16.3	124
1991 VH	1997 02 08.11787	12 13 24.01	+08 24 46.4	16.6	124
1991 VH	1997 02 08.12233	12 13 23.98	+08 24 57.3	16.5	124
1997 BQ ₃	1997 02 10.01877	11 05 52.17	+12 55 59.9	16.6	124
1997 BQ ₃	1997 02 10.02742	11 05 51.74	+12 56 04.2	16.5	124
1997 BQ ₃	1997 02 10.03390	11 05 51.50	+12 56 07.8	16.7	124
1997 BQ ₃	1997 02 10.03605	11 05 51.48	+12 56 08.8	17.0	124
1997 BQ ₃	1997 02 16.09917	11 01 54.45	+13 49 11.7		124
1997 BQ ₃	1997 02 16.10542	11 01 54.09	+13 49 15.1	16.8	124
1997 BQ ₃	1997 02 16.11167	11 01 53.86	+13 49 18.6	16.9	124
1997 BQ ₃	1997 02 16.11479	11 01 53.65	+13 49 20.2		124

1997 BQ ₃	1997 02 16.93414	11 01 19.79	+13 56 32.4	16.7	124
1997 BQ ₃	1997 02 16.94713	11 01 19.16	+13 56 39.3	16.7	124
1997 BQ ₃	1997 02 16.96009	11 01 18.63	+13 56 46.1	16.6	124
(173)	1997 01 25.94327	07 04 22.22	+09 50 09.4	11.6	124
(173)	1997 01 25.95445	07 04 21.70	+09 50 14.7	11.6	124
(173)	1997 01 25.96004	07 04 21.44	+09 50 17.4	11.7	124
(451)	1997 01 25.99329	08 01 02.50	+32 20 26.7	10.9	124
(451)	1997 01 25.99892	08 01 02.18	+32 20 28.3	11.0	124
(451)	1997 01 26.00454	08 01 01.86	+32 20 30.4	10.9	124
(471)	1997 01 25.96842	07 43 27.69	+34 33 54.4	10.5	124
(471)	1997 01 25.97655	07 43 27.20	+34 33 57.3	10.4	124
(471)	1997 01 25.98030	07 43 26.97	+34 33 58.2	10.4	124
(2120)	1997 02 09.94775	10 01 20.21	-12 34 42.5	16.5	124
(2120)	1997 02 09.95638	10 01 19.81	-12 34 40.8	16.4	124
(2120)	1997 02 09.96069	10 01 19.62	-12 34 39.8	16.5	124
(4179)	1997 01 26.03256	08 03 26.45	+20 17 14.1	14.2	124
(4179)	1997 01 26.03735	08 03 26.22	+20 17 15.3	14.2	124
(4179)	1997 01 26.04527	08 03 25.80	+20 17 16.8	14.3	124
(5407)	1997 01 26.05102	08 22 43.26	+22 26 06.2	15.3	124
(5407)	1997 01 26.05852	08 22 42.60	+22 26 13.3	15.3	124
(5407)	1997 01 26.06602	08 22 41.89	+22 26 20.0	15.5	124
(5407)	1997 01 29.91787	08 17 13.95	+23 26 04.9	15.5	124
(5407)	1997 01 29.93662	08 17 12.26	+23 26 22.3	15.5	124
(5407)	1997 01 29.95537	08 17 10.53	+23 26 40.6	15.5	124
(5407)	1997 01 31.90911	08 14 22.78	+23 56 36.4	15.4	124
(5407)	1997 01 31.98550	08 14 15.87	+23 57 46.7	15.5	124
(5407)	1997 02 01.04856	08 14 10.26	+23 58 44.5	15.5	124
(7188)	1997 02 10.01986	11 05 27.36	+13 02 03.9	17.3	124
(7188)	1997 02 10.02418	11 05 27.19	+13 02 05.6	17.2	124
(7188)	1997 02 10.03281	11 05 26.67	+13 02 09.5	17.2	124

127 Bornheim

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0.19-m $f/4$ FFC + CCD

GSC

1986 AJ	1997 01 14.00567	07 34 55.12	+20 13 04.7		127
1986 AJ	1997 01 14.01271	07 34 54.47	+20 13 00.6		127
1986 AJ	1997 01 14.91130	07 33 30.19	+20 04 35.9		127
1986 AJ	1997 01 14.91811	07 33 29.51	+20 04 32.1		127
1988 VM ₉	1997 01 13.95376	06 59 13.11	+36 07 15.1		127
1988 VM ₉	1997 01 13.95729	06 59 12.87	+36 07 15.2		127
1988 VM ₉	1997 01 14.86300	06 58 14.09	+36 07 32.5		127
1988 VM ₉	1997 01 14.86672	06 58 13.88	+36 07 32.5		127
1989 WS ₂	1997 01 13.99543	07 35 06.12	+23 04 02.7		127
1989 WS ₂	1997 01 14.00249	07 35 05.63	+23 04 06.2		127
1989 WS ₂	1997 01 14.92552	07 34 04.82	+23 11 15.9		127
1989 WS ₂	1997 01 14.92905	07 34 04.58	+23 11 17.2		127
(5909)	1997 01 13.95376	06 59 06.45	+35 55 56.0		127
(5909)	1997 01 13.95729	06 59 06.18	+35 55 56.4		127
(5909)	1997 01 14.86300	06 58 01.31	+35 56 13.8		127
(5909)	1997 01 14.86672	06 58 01.06	+35 56 13.9		127
(7369)	1997 01 13.98380	07 33 14.57	+10 17 22.4		127

(7369)	1997 01 13.98727	07 33 14.25	+10 17 20.2	127	1986 QA ₁	1996 11 08.86573	08 12 18.79	+23 00 33.3		327	
(7369)	1997 01 14.89884	07 31 56.66	+10 08 49.0	127	1986 QA ₁	1996 11 08.88314	08 12 19.40	+23 00 33.2		327	
(7369)	1997 01 14.90602	07 31 56.04	+10 08 44.9	127	1986 QA ₁	1996 11 08.90076	08 12 19.97	+23 00 33.2	18.1 V	327	
(7369)	1997 01 16.83227	07 29 14.66	+09 51 21.5	127	1988 DF ₂	1997 01 18.79814	10 21 18.25	+12 43 05.8		327	
(7369)	1997 01 16.84170	07 29 13.89	+09 51 16.2	127	1988 DF ₂	1997 01 18.81340	10 21 17.75	+12 43 07.6	17.5	327	
323 Perth											
J. Biggs, Perth Observatory, Bickley, WA 6076, Australia											
[rbiggsjd@cc.curtin.edu.au]											
Observers G. Lowe, T. Smith											
0.3-m astrograph											
(1425)	1996 03 19.75555	12 07 48.23	−02 53 39.1	323	1988 DF ₂	1997 01 18.82859	10 21 17.25	+12 43 09.7		327	
(1803)	1996 03 19.71250	11 39 38.94	−18 05 40.2	323	1988 DF ₂	1997 02 01.76622	10 11 47.25	+13 27 55.0		327	
(1922)	1996 05 13.59236	12 36 57.13	−20 18 11.5	323	1988 DF ₂	1997 02 01.78069	10 11 46.62	+13 27 58.2	17.5	327	
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 L. C. Deng, Z. Y. Zheng, Y. J. Chen, C. M. Ma, R. Chen, J. Zhu,											
X. Y. Li, X. Zhou, L. J. Ma, H. J. Yan											
Measurers Y. J. Chen, C. M. Ma, J. Zhu, X. Zhou, L. J. Ma, X. Y. Li											
0.60-m Schmidt + CCD											
1978 RV ₁	1997 01 11.69786	08 17 07.25	+19 26 56.0	18.1	327	1990 QM ₁	1997 01 06.43646	01 25 09.94	+05 58 23.7		327
1978 RV ₁	1997 01 11.71343	08 17 06.25	+19 26 59.7		327	1990 QM ₁	1997 01 06.44733	01 25 10.44	+05 58 27.3		327
1978 RV ₁	1997 01 11.72894	08 17 05.25	+19 27 02.8		327	1990 QM ₁	1997 01 06.45780	01 25 10.94	+05 58 30.6	18.9	327
1982 OD	1997 01 27.65231	08 05 53.88	+20 54 20.7		327	1990 QR ₁	1997 01 26.70725	08 03 57.88	+20 08 58.2	17.8	327
1982 OD	1997 01 27.66671	08 05 53.00	+20 54 25.6	17.9	327	1990 QR ₁	1997 01 26.72167	08 03 57.12	+20 09 01.3		327
1982 OD	1997 01 27.68150	08 05 52.25	+20 54 30.2		327	1990 QR ₁	1997 01 26.73597	08 03 56.25	+20 09 03.3		327
1982 OD	1997 02 04.65991	07 58 42.88	+21 39 03.7		327	1990 QR ₁	1997 02 05.57878	07 55 22.75	+20 36 55.2		327
1982 OD	1997 02 04.66983	07 58 42.25	+21 39 07.1	18.4	327	1990 QR ₁	1997 02 05.58838	07 55 22.25	+20 36 57.3		327
1982 OD	1997 02 04.67964	07 58 41.75	+21 39 10.1		327	1990 QR ₁	1997 02 05.59803	07 55 21.75	+20 36 58.7	18.2	327
1982 OD	1997 02 06.60306	07 57 04.62	+21 49 13.7		327	1990 RV	1997 01 06.43115	01 30 38.88	+06 22 35.2		327
1982 OD	1997 02 06.61069	07 57 04.25	+21 49 15.7	18.1	327	1990 RV	1997 01 06.44198	01 30 39.25	+06 22 38.3	18.0	327
1982 OD	1997 02 06.61524	07 57 04.00	+21 49 17.5		327	1990 RV	1997 01 06.45257	01 30 39.62	+06 22 41.2		327
1984 UX	1997 01 25.49527	01 59 52.75	+19 27 10.7	16.9	327	1990 RW ₇	1997 01 06.43646	01 28 36.38	+05 30 52.5		327
1984 UX	1997 01 25.49998	01 59 53.31	+19 27 13.5		327	1990 RW ₇	1997 01 06.44733	01 28 36.88	+05 30 55.8	18.3	327
1984 UX	1997 01 25.50490	01 59 53.88	+19 27 16.3		327	1990 RW ₇	1997 01 06.45780	01 28 37.38	+05 30 59.6		327
1985 RW ₂	1997 01 18.79814	10 17 47.00	+12 30 04.2	18.3	327	1991 VD ₁	1997 01 23.76950	12 17 29.00	+17 29 46.5	18.3	327
1985 RW ₂	1997 01 18.81340	10 17 46.50	+12 30 07.0		327	1991 VD ₁	1997 01 23.78885	12 17 28.88	+17 29 50.8		327
1985 RW ₂	1997 01 18.82859	10 17 46.00	+12 30 10.3		327	1991 VD ₁	1997 01 23.80104	12 17 28.75	+17 29 52.8		327
1985 RW ₂	1997 02 01.76622	10 08 36.62	+13 30 56.2		327	1991 VH ₄	1997 01 25.51015	02 30 21.69	+10 16 12.7		327
1985 RW ₂	1997 02 01.78069	10 08 36.00	+13 31 00.2		327	1991 VH ₄	1997 01 25.52012	02 30 22.06	+10 16 16.5		327
1985 RW ₂	1997 02 01.79513	10 08 35.25	+13 31 04.6	18.2	327	1991 VH ₄	1997 01 25.53037	02 30 22.50	+10 16 20.2	18.2	327
1985 RW ₂	1997 02 06.77708	10 04 36.75	+13 55 33.2		327	1991 VV ₅	1997 01 23.49993	02 15 58.44	+06 02 41.1	17.9	327
1985 RW ₂	1997 02 06.78725	10 04 36.25	+13 55 36.2	18.1	327	1991 VV ₅	1997 01 23.51457	02 15 58.94	+06 02 47.1		327
1985 RW ₂	1997 02 06.79740	10 04 35.75	+13 55 39.1		327	1991 VV ₅	1997 01 23.52904	02 15 59.44	+06 02 53.8		327
1985 VL	1997 01 06.43646	01 28 19.19	+06 03 00.8		327	1993 FT ₁₄	1997 01 05.84303	10 46 54.75	+08 28 35.1		327
1985 VL	1997 01 06.44733	01 28 19.50	+06 03 01.1		327	1993 FT ₁₄	1997 01 05.87253	10 46 55.38	+08 28 38.1	17.3	327
1985 VL	1997 01 06.45780	01 28 19.88	+06 03 01.3	18.4	327	1993 FT ₁₄	1997 01 05.88219	10 46 55.62	+08 28 39.2		327
1986 ED	1997 01 05.88728	12 39 22.75	+00 14 43.0	18.1	327	1993 FT ₁₄	1997 02 01.77109	10 15 32.88	+16 13 59.3		327
1986 ED	1997 01 05.90301	12 39 23.88	+00 14 35.3		327	1993 FO ₂₁	1997 02 01.78560	10 15 32.00	+16 14 02.8		327
1986 ED	1997 01 05.91688	12 39 24.88	+00 14 30.3		327	1993 FO ₂₁	1997 02 01.80003	10 15 31.25	+16 14 05.7	18.6	327
						1993 FO ₂₁	1997 02 02.78819	10 14 42.38	+16 17 59.0		327
						1993 FO ₂₁	1997 02 02.80345	10 14 41.62	+16 18 02.5	18.6	327
						1993 FO ₂₁	1997 02 02.81869	10 14 40.75	+16 18 05.7		327
						1993 FS ₃₉	1997 01 18.64429	08 06 43.00	+18 07 02.6	17.6	327

1993 FS ₃₉	1997 01 18.65948	08 06 42.25	+18 07 05.3		327	1996 TD ₈	1997 01 14.44934	02 39 38.62	+02 05 34.3		327
1993 FS ₃₉	1997 01 18.67457	08 06 41.50	+18 07 08.6		327	1996 TD ₈	1997 01 14.45407	02 39 39.00	+02 05 35.5	19.3	327
1993 PB ₇	1997 01 19.83302	12 14 01.38	-01 35 11.8	18.2	327	1996 TD ₈	1997 01 14.45855	02 39 39.44	+02 05 37.8		327
1993 PB ₇	1997 01 19.84841	12 14 01.50	-01 35 13.5		327	1996 TD ₈	1997 01 14.46307	02 39 39.75	+02 05 38.6		327
1993 PB ₇	1997 01 19.86390	12 14 01.62	-01 35 14.6		327	1996 TK ₁₅	1997 01 04.49265	01 34 11.00	+01 17 12.3		327
1993 YJ	1997 01 25.54578	03 26 46.25	+21 33 34.6		327	1996 TK ₁₅	1997 01 04.50831	01 34 11.88	+01 17 16.8		327
1993 YJ	1997 01 25.56016	03 26 47.19	+21 33 36.0		327	1996 TK ₁₅	1997 01 04.52421	01 34 12.62	+01 17 20.8	18.7	327
1993 YJ	1997 01 25.57478	03 26 48.19	+21 33 37.1	18.2	327	1996 TK ₁₅	1997 01 04.53660	01 34 13.25	+01 17 24.3		327
1994 HA	1995 12 27.43523	00 37 48.83	+01 20 40.6		327	1996 UR	1997 01 23.49041	02 09 12.81	+08 17 26.7		327
1994 HA	1995 12 27.45568	00 37 49.73	+01 20 45.1		327	1996 UR	1997 01 23.50485	02 09 13.81	+08 17 32.6		327
1994 HA	1995 12 27.46888	00 37 50.37	+01 20 46.6	18.8 V	327	1996 UR	1997 01 23.51942	02 09 14.81	+08 17 37.6	18.1	327
1994 JK ₉	1997 01 09.53280	04 04 04.88	+20 17 56.7	18.1	327	1996 UG ₃	1997 01 25.49527	01 58 29.75	+19 20 29.6	17.7	327
1994 JK ₉	1997 01 09.54738	04 04 04.44	+20 17 59.2		327	1996 UG ₃	1997 01 25.49998	01 58 30.00	+19 20 31.1		327
1994 JK ₉	1997 01 09.56237	04 04 04.00	+20 18 01.8		327	1996 UG ₃	1997 01 25.50490	01 58 30.25	+19 20 32.7		327
1994 PO ₇	1997 01 19.87924	13 13 07.50	-07 20 47.7		327	1996 UG ₃	1997 01 27.43669	02 00 18.62	+19 31 17.7		327
1994 PO ₇	1997 01 19.89433	13 13 08.50	-07 20 52.7		327	1996 UG ₃	1997 01 27.44791	02 00 19.25	+19 31 21.1	17.9	327
1994 PO ₇	1997 01 19.90970	13 13 09.50	-07 20 58.6	18.7	327	1996 UG ₃	1997 01 27.45225	02 00 19.50	+19 31 22.7		327
1995 SK ₅₃	1997 01 28.61873	08 57 01.62	+33 00 57.3	18.0	327	1996 VY ₁	1997 02 06.49323	03 39 00.06	+21 27 15.0		327
1995 SK ₅₃	1997 01 28.62852	08 57 01.00	+33 00 59.6		327	1996 VY ₁	1997 02 06.50781	03 39 00.88	+21 27 13.2	18.7	327
1995 SK ₅₃	1997 01 28.63831	08 57 00.38	+33 01 01.2		327	1996 VY ₁	1997 02 06.52221	03 39 01.62	+21 27 11.2		327
1995 UV ₄₈	1997 02 04.88304	14 40 38.00	-24 28 00.0	17.7	327	1996 VT ₅	1997 01 11.58978	04 06 09.06	+19 31 47.2		327
1995 UV ₄₈	1997 02 04.88747	14 40 38.25	-24 28 01.2		327	1996 VT ₅	1997 01 11.60502	04 06 09.00	+19 31 51.3	17.5	327
1995 UV ₄₈	1997 02 04.89183	14 40 38.50	-24 28 03.2		327	1996 VT ₅	1997 01 11.62017	04 06 08.88	+19 31 55.8		327
1995 UV ₄₈	1997 02 04.89617	14 40 38.62	-24 28 04.6		327	1996 VT ₅	1997 01 23.63486	04 08 05.81	+20 31 42.4		327
1995 VU ₁₈	1997 02 05.90896	14 56 41.75	-04 31 48.1	17.5	327	1996 VT ₅	1997 01 23.64456	04 08 06.03	+20 31 45.2	18.1 V	327
1995 VU ₁₈	1997 02 05.91363	14 56 42.00	-04 31 48.0		327	1996 VT ₅	1997 01 23.65414	04 08 06.24	+20 31 48.6		327
1995 VU ₁₈	1997 02 05.91832	14 56 42.12	-04 31 47.8		327	1996 VN ₈	1996 10 05.76103	02 55 56.17	+15 14 01.6		327
1995 WN ₅	1997 01 09.91346	12 49 02.77	+02 08 11.0		327	1996 VN ₈	1996 10 05.77450	02 55 55.82	+15 14 01.6		327
1995 WN ₅	1997 01 09.91811	12 49 02.87	+02 08 10.7		327	1996 VN ₈	1996 10 05.78767	02 55 55.52	+15 14 01.7	17.0 V	327
1995 WN ₅	1997 01 09.92267	12 49 03.01	+02 08 09.6	19.3 V	327	1996 VT ₃₀	1997 01 25.58936	03 57 46.88	+20 05 27.6		327
1995 WN ₅	1997 01 09.92744	12 49 03.19	+02 08 09.2		327	1996 VT ₃₀	1997 01 25.60450	03 57 47.50	+20 05 29.1		327
1995 WD ₄₃	1995 11 17.58755	04 01 20.55	+16 28 43.2		327	1996 VT ₃₀	1997 01 25.61972	03 57 48.25	+20 05 30.6	17.5	327
1995 WD ₄₃	1995 11 17.62682	04 01 18.50	+16 28 38.5	18.0 V	327	1996 VJ ₃₈	1997 01 14.48112	03 22 58.31	+21 14 14.1	17.9	327
1995 WD ₄₃	1995 11 17.65839	04 01 16.87	+16 28 34.3		327	1996 VJ ₃₈	1997 01 14.49659	03 22 58.62	+21 14 14.1		327
1995 XN ₁	1997 01 25.76777	13 21 03.75	+10 39 09.2		327	1996 VJ ₃₈	1997 01 14.51267	03 22 58.94	+21 14 14.0		327
1995 XN ₁	1997 01 25.78309	13 21 04.38	+10 39 11.2	17.2	327	1996 VR ₃₈	1997 01 14.47097	03 22 26.62	+21 58 34.2	17.8	327
1995 XN ₁	1997 01 25.79872	13 21 04.88	+10 39 13.3		327	1996 VR ₃₈	1997 01 14.48641	03 22 26.88	+21 58 35.8		327
1995 YY ₂₁	1997 02 06.80226	10 21 41.75	+13 32 47.2	17.5	327	1996 VR ₃₈	1997 01 14.50187	03 22 27.12	+21 58 37.5		327
1995 YY ₂₁	1997 02 06.81230	10 21 41.25	+13 32 50.2		327	1996 WY ₂	1997 01 09.48191	03 19 28.50	+21 48 12.3	18.4	327
1995 YY ₂₁	1997 02 06.82222	10 21 40.62	+13 32 52.7		327	1996 WY ₂	1997 01 09.49698	03 19 28.88	+21 48 18.0		327
1996 BK ₂	1997 01 11.90177	13 01 07.00	+00 02 57.1	17.8	327	1996 WY ₂	1997 01 09.51192	03 19 29.19	+21 48 23.7		327
1996 BK ₂	1997 01 11.91207	13 01 07.25	+00 02 57.3		327	1996 XH ₁₈	1997 02 04.66491	08 02 53.88	+21 06 15.6	17.0	327
1996 BK ₂	1997 01 11.92161	13 01 07.50	+00 02 58.1		327	1996 XH ₁₈	1997 02 04.67473	08 02 53.38	+21 06 19.5		327
1996 OR ₁	1997 01 24.57310	03 33 46.69	+27 11 17.7		327	1996 XH ₁₈	1997 02 04.68456	08 02 52.88	+21 06 24.1		327
1996 OR ₁	1997 01 24.58940	03 33 47.19	+27 11 17.1	17.7	327	1996 XH ₁₈	1997 02 06.57534	08 01 25.25	+21 18 51.3		327
1996 OR ₁	1997 01 24.60547	03 33 47.62	+27 11 15.6		327	1996 XH ₁₈	1997 02 06.58667	08 01 24.62	+21 18 56.0	17.3	327
1996 QU ₁	1997 01 25.49527	01 59 53.19	+19 22 30.3	17.7	327	1996 XH ₁₈	1997 02 06.59806	08 01 24.12	+21 19 00.5		327
1996 QU ₁	1997 01 25.49998	01 59 53.75	+19 22 32.0		327	1996 XA ₁₉	1997 01 15.48201	03 20 42.69	+20 46 13.2		327
1996 QU ₁	1997 01 25.50490	01 59 54.31	+19 22 34.2		327	1996 XA ₁₉	1997 01 15.49638	03 20 43.00	+20 46 20.2		327
1996 SS ₆	1997 01 29.44388	02 23 07.00	+13 38 03.5		327	1996 XA ₁₉	1997 01 15.51088	03 20 43.44	+20 46 27.7	18.7	327
1996 SS ₆	1997 01 29.45443	02 23 07.44	+13 38 06.3	18.3	327	1996 XX ₂₆	1997 01 11.74499	09 36 42.75	+22 01 00.7	17.6	327
1996 SS ₆	1997 01 29.46505	02 23 07.88	+13 38 09.2		327	1996 XX ₂₆	1997 01 11.75983	09 36 42.25	+22 01 09.6		327

1996 XX ₂₆	1997 01 11.77799	09 36 41.75	+22 01 20.7	327	1997 AQ ₇	1997 01 14.50705	03 19 30.81	+21 05 51.8	327
1996 XH ₃₃	1997 01 04.86451	09 39 55.62	+21 10 05.7	327	1997 AS ₇	1997 01 23.81111	13 00 23.38	+02 01 12.6	17.4 327
1996 XH ₃₃	1997 01 04.87321	09 39 55.50	+21 10 10.7	327	1997 AS ₇	1997 01 23.82054	13 00 23.75	+02 01 12.8	327
1996 XH ₃₃	1997 01 04.88208	09 39 55.25	+21 10 13.8	18.3 327	1997 AS ₇	1997 01 23.83005	13 00 24.25	+02 01 13.1	327
1996 XH ₃₃	1997 01 11.74499	09 36 10.38	+22 09 02.2	18.1 327	1997 AS ₇	1997 01 25.77309	13 01 43.25	+02 03 20.8	327
1996 XH ₃₃	1997 01 11.75983	09 36 09.75	+22 09 10.2	327	1997 AS ₇	1997 01 25.78863	13 01 43.88	+02 03 22.0	327
1996 XH ₃₃	1997 01 11.77799	09 36 09.00	+22 09 20.0	327	1997 AS ₇	1997 01 25.80388	13 01 44.38	+02 03 22.8	17.5 327
1996 YB ₁	1996 11 08.85644	08 02 17.61	+23 25 05.7	327	1997 AT ₇	1997 01 10.46773	03 10 59.44	+22 17 47.2	327
1996 YB ₁	1996 11 08.87439	08 02 18.13	+23 25 05.8	18.0 V 327	1997 AT ₇	1997 01 10.48265	03 10 59.69	+22 17 47.5	18.2 327
1996 YB ₁	1996 11 08.89205	08 02 18.63	+23 25 04.5	327	1997 AT ₇	1997 01 10.49762	03 11 00.00	+22 17 47.2	327
1996 YR ₁	1997 01 05.83728	09 47 54.50	+12 33 19.3	327	1997 AU ₇	1997 01 05.54324	03 15 21.94	+21 36 12.0	18.4 327
1996 YR ₁	1997 01 05.86796	09 47 53.62	+12 33 16.7	18.6 327	1997 AU ₇	1997 01 05.56352	03 15 22.44	+21 36 17.1	327
1996 YR ₁	1997 01 05.87687	09 47 53.38	+12 33 16.1	327	1997 AU ₇	1997 01 05.58431	03 15 23.00	+21 36 22.6	327
1996 YU ₁	1997 01 26.75192	08 11 15.12	+23 48 35.0	17.0 327	1997 AU ₇	1997 01 10.47299	03 18 11.50	+21 59 09.1	18.1 327
1996 YU ₁	1997 01 26.76692	08 11 14.25	+23 48 41.7	327	1997 AU ₇	1997 01 10.48781	03 18 12.12	+21 59 14.1	327
1996 YU ₁	1997 01 26.78204	08 11 13.25	+23 48 48.7	327	1997 AU ₇	1997 01 10.50266	03 18 12.62	+21 59 18.2	327
1996 YE ₂	1997 01 18.68916	08 16 05.00	+19 25 41.8	327	1997 AD ₁₄	1996 12 08.79747	08 37 51.37	+18 24 01.2	327
1996 YE ₂	1997 01 18.69998	08 16 04.25	+19 25 41.7	16.1 327	1997 AD ₁₄	1996 12 08.81049	08 37 51.21	+18 24 00.5	327
1996 YE ₂	1997 01 18.71053	08 16 03.50	+19 25 42.5	327	1997 AD ₁₄	1996 12 08.82348	08 37 50.97	+18 23 59.4	18.6 V 327
1996 YF ₂	1997 01 18.64429	08 09 53.25	+18 30 33.7	327	1997 AD ₁₄	1996 12 18.81910	08 34 02.25	+18 17 10.0	18.8 327
1996 YF ₂	1997 01 18.65948	08 09 52.12	+18 30 35.3	16.8 327	1997 AD ₁₄	1996 12 18.83547	08 34 01.75	+18 17 09.7	18.2 327
1996 YF ₂	1997 01 18.67457	08 09 51.25	+18 30 36.7	327	1997 AD ₁₄	1996 12 18.84847	08 34 01.25	+18 17 09.3	18.5 327
1996 YF ₂	1997 01 27.64755	08 00 14.38	+18 44 11.1	327	1997 AD ₁₄	1997 01 26.69758	08 00 50.38	+18 41 13.6	327
1996 YF ₂	1997 01 27.66185	08 00 13.38	+18 44 12.3	17.0 327	1997 AD ₁₄	1997 01 26.71205	08 00 49.50	+18 41 13.8	327
1996 YF ₂	1997 01 27.67662	08 00 12.50	+18 44 13.5	327	1997 AD ₁₄	1997 01 26.72645	08 00 48.62	+18 41 14.3	17.7 327
1996 YK ₂	1997 01 28.61385	08 46 11.00	+31 56 32.0	327	1997 AF ₁₄	1997 01 18.75723	09 40 52.00	+25 41 17.6	327
1996 YK ₂	1997 01 28.62366	08 46 10.50	+31 56 32.6	15.6 327	1997 AF ₁₄	1997 01 18.76703	09 40 51.50	+25 41 24.0	17.5 327
1996 YK ₂	1997 01 28.63344	08 46 09.62	+31 56 33.7	327	1997 AF ₁₄	1997 01 18.77737	09 40 51.00	+25 41 30.6	327
1997 AF ₃	1996 12 24.69701	09 07 13.00	+25 34 34.2	327	1997 AG ₁₄	1997 02 01.81187	12 43 28.62	+17 31 40.1	327
1997 AV ₄	1997 01 25.75061	08 49 55.38	+16 50 39.0	17.0 327	1997 AG ₁₄	1997 02 01.82155	12 43 28.62	+17 31 42.8	327
1997 AV ₄	1997 01 25.75530	08 49 55.12	+16 50 40.2	327	1997 AG ₁₄	1997 02 01.83111	12 43 28.75	+17 31 45.6	16.5 327
1997 AV ₄	1997 01 25.76002	08 49 54.88	+16 50 41.8	327	1997 AN ₁₄	1997 01 14.71297	09 14 23.00	+07 30 39.2	18.1 327
1997 AV ₄	1997 01 27.70082	08 48 13.00	+17 02 39.1	327	1997 AN ₁₄	1997 01 14.72420	09 14 22.50	+07 30 39.7	327
1997 AV ₄	1997 01 27.71584	08 48 12.12	+17 02 44.7	16.8 327	1997 AN ₁₄	1997 01 14.73370	09 14 22.00	+07 30 40.2	327
1997 AV ₄	1997 01 27.73080	08 48 11.38	+17 02 50.2	327	1997 AN ₁₄	1997 01 14.74238	09 14 21.62	+07 30 40.3	327
1997 AH ₅	1997 01 18.79296	10 47 58.62	+08 25 15.0	18.2 327	1997 AN ₁₄	1997 01 14.75096	09 14 21.25	+07 30 40.7	327
1997 AH ₅	1997 01 18.80796	10 47 58.38	+08 25 15.7	327	1997 AN ₁₄	1997 01 14.75971	09 14 20.88	+07 30 41.2	327
1997 AH ₅	1997 01 18.82336	10 47 58.12	+08 25 16.0	327	1997 AB ₁₆	1996 12 20.75781	08 21 33.88	+18 59 27.8	327
1997 AV ₅	1996 12 10.81208	09 15 04.75	+16 52 28.7	18.6 327	1997 AB ₁₆	1996 12 20.77083	08 21 33.50	+18 59 28.7	18.6 327
1997 AV ₅	1996 12 10.82711	09 15 04.88	+16 52 26.7	327	1997 AB ₁₆	1996 12 20.78483	08 21 33.00	+18 59 29.1	327
1997 AV ₅	1996 12 10.84191	09 15 05.00	+16 52 24.7	327	1997 AK ₁₇	1997 01 11.74981	09 41 07.12	+23 37 42.2	18.4 327
1997 AV ₅	1997 01 18.69453	08 57 57.25	+17 00 52.2	17.6 327	1997 AK ₁₇	1997 01 11.76463	09 41 06.50	+23 37 49.2	327
1997 AV ₅	1997 01 18.70515	08 57 56.62	+17 00 53.2	327	1997 AK ₁₇	1997 01 11.78284	09 41 05.75	+23 37 58.0	327
1997 AV ₅	1997 01 18.72116	08 57 55.62	+17 00 54.6	327	1997 AQ ₁₇	1996 12 20.75781	08 21 55.50	+19 37 29.8	327
1997 AV ₅	1997 01 27.70082	08 48 21.88	+17 20 46.7	327	1997 AQ ₁₇	1996 12 20.77083	08 21 55.00	+19 37 30.8	327
1997 AV ₅	1997 01 27.71584	08 48 20.75	+17 20 48.5	17.3 327	1997 AQ ₁₇	1996 12 20.78483	08 21 54.38	+19 37 31.7	18.1 327
1997 AV ₅	1997 01 27.73080	08 48 19.75	+17 20 51.0	327	1997 AS ₁₇	1996 11 06.87488	08 05 01.41	+19 09 17.1	327
1997 AO ₆	1997 01 04.59385	07 01 23.12	+24 38 17.2	327	1997 AS ₁₇	1996 11 06.88355	08 05 01.78	+19 09 16.3	327
1997 AO ₆	1997 01 04.60836	07 01 22.12	+24 38 20.3	18.3 327	1997 AS ₁₇	1996 11 06.89221	08 05 02.02	+19 09 16.3	327
1997 AO ₆	1997 01 04.62271	07 01 21.00	+24 38 24.2	327	1997 AS ₁₇	1996 11 06.90521	08 05 02.44	+19 09 15.6	18.4 V 327
1997 AQ ₇	1997 01 14.47578	03 19 29.75	+21 05 50.5	327	1997 AF ₂₁	1996 11 08.86573	08 12 04.15	+23 14 48.4	327
1997 AQ ₇	1997 01 14.49131	03 19 30.31	+21 05 51.7	18.7 327	1997 AF ₂₁	1996 11 08.88314	08 12 04.62	+23 14 48.3	18.2 V 327

1997 AF ₂₁	1996 11 08.90076	08 12 05.19	+23 14 48.9	327	1997 AQ ₂₂	* 1997 01 11.70811	08 23 10.38	+18 57 22.7	16.8	327
1997 AL ₂₂	* 1997 01 06.43646	01 27 44.81	+05 55 32.2	327	1997 AQ ₂₂	1997 01 11.72362	08 23 09.62	+18 57 28.3		327
1997 AL ₂₂	1997 01 06.44733	01 27 45.31	+05 55 40.7	327	1997 AQ ₂₂	1997 01 11.73911	08 23 08.75	+18 57 34.0		327
1997 AL ₂₂	1997 01 06.45780	01 27 45.75	+05 55 47.2	17.7 327	1997 AQ ₂₂	1997 01 18.68916	08 16 56.12	+19 40 27.3	16.4	327
1997 AL ₂₂	1997 01 18.49510	01 37 34.69	+08 01 54.3	18.0 327	1997 AQ ₂₂	1997 01 18.69998	08 16 55.50	+19 40 31.2		327
1997 AL ₂₂	1997 01 18.50476	01 37 35.25	+08 02 01.2	327	1997 AQ ₂₂	1997 01 18.71053	08 16 54.88	+19 40 35.2		327
1997 AL ₂₂	1997 01 18.51435	01 37 35.75	+08 02 07.8	327	1997 AQ ₂₂	1997 02 04.66491	08 01 19.00	+21 23 19.1		327
1997 AM ₂₂	* 1997 01 08.76117	08 21 45.50	+17 32 22.3	327	1997 AQ ₂₂	1997 02 04.67473	08 01 18.50	+21 23 22.2	17.2	327
1997 AM ₂₂	1997 01 08.77649	08 21 44.62	+17 32 26.8	327	1997 AQ ₂₂	1997 02 04.68456	08 01 18.00	+21 23 25.7		327
1997 AM ₂₂	1997 01 08.79175	08 21 43.75	+17 32 32.1	15.9 327	1997 AQ ₂₂	1997 02 06.57534	07 59 42.12	+21 33 55.2		327
1997 AM ₂₂	1997 01 18.65455	08 12 24.88	+18 30 47.2	327	1997 AQ ₂₂	1997 02 06.58667	07 59 41.50	+21 33 59.1		327
1997 AM ₂₂	1997 01 18.66975	08 12 23.88	+18 30 53.0	15.7 327	1997 AQ ₂₂	1997 02 06.59806	07 59 41.00	+21 34 02.7	17.5	327
1997 AM ₂₂	1997 01 18.68432	08 12 23.00	+18 30 57.7	327	1997 AR ₂₂	1996 11 20.89119	09 34 27.00	+21 25 37.8		327
1997 AM ₂₂	1997 01 29.61844	08 02 06.12	+19 34 32.1	327	1997 AR ₂₂	1996 11 20.90240	09 34 27.62	+21 25 37.3		327
1997 AM ₂₂	1997 01 29.62817	08 02 05.50	+19 34 35.2	15.7 327	1997 AR ₂₂	1996 11 20.91444	09 34 28.25	+21 25 36.5	19.1	327
1997 AM ₂₂	1997 01 29.63786	08 02 05.00	+19 34 38.3	327	1997 AR ₂₂	1997 01 04.86885	09 47 08.25	+22 52 29.2		327
1997 AM ₂₂	1997 02 05.57878	07 56 34.75	+20 10 20.1	16.2 327	1997 AR ₂₂	1997 01 04.87755	09 47 07.88	+22 52 31.7	18.5	327
1997 AM ₂₂	1997 02 05.58838	07 56 34.38	+20 10 22.7	327	1997 AR ₂₂	1997 01 04.88642	09 47 07.62	+22 52 34.7		327
1997 AM ₂₂	1997 02 05.59803	07 56 33.88	+20 10 25.6	327	1997 AR ₂₂	* 1997 01 11.74981	09 42 55.62	+23 29 54.6	18.3	327
1997 AN ₂₂	* 1997 01 11.70282	08 13 56.50	+18 51 01.2	16.6 327	1997 AR ₂₂	1997 01 11.76463	09 42 55.00	+23 30 00.0		327
1997 AN ₂₂	1997 01 11.71819	08 13 55.62	+18 51 01.7	327	1997 AR ₂₂	1997 01 11.78284	09 42 54.12	+23 30 06.0		327
1997 AN ₂₂	1997 01 11.73380	08 13 54.88	+18 51 02.2	327	1997 AR ₂₂	1997 01 18.76203	09 37 05.62	+24 10 05.5		327
1997 AN ₂₂	1997 01 18.64429	08 07 41.25	+18 54 28.6	16.3 327	1997 AR ₂₂	1997 01 18.77240	09 37 05.00	+24 10 09.2	17.5	327
1997 AN ₂₂	1997 01 18.65948	08 07 40.38	+18 54 29.0	327	1997 AR ₂₂	1997 01 18.78237	09 37 04.50	+24 10 13.2		327
1997 AN ₂₂	1997 01 18.67457	08 07 39.50	+18 54 29.3	327	1997 AS ₂₂	* 1997 01 11.75472	09 45 39.75	+24 31 02.0		327
1997 AN ₂₂	1997 01 26.69758	08 00 23.38	+18 58 09.7	16.6 327	1997 AS ₂₂	1997 01 11.76948	09 45 39.25	+24 31 06.2	17.0	327
1997 AN ₂₂	1997 01 26.71205	08 00 22.62	+18 58 10.3	327	1997 AS ₂₂	1997 01 11.78780	09 45 38.50	+24 31 11.2		327
1997 AN ₂₂	1997 01 26.72645	08 00 21.88	+18 58 10.6	327	1997 AS ₂₂	1997 01 18.75723	09 40 24.12	+25 04 12.5		327
1997 AO ₂₂	* 1997 01 11.70282	08 16 08.38	+18 09 02.8	17.5 327	1997 AS ₂₂	1997 01 18.76703	09 40 23.62	+25 04 15.7		327
1997 AO ₂₂	1997 01 11.71819	08 16 07.50	+18 09 05.7	327	1997 AS ₂₂	1997 01 18.77737	09 40 23.12	+25 04 18.2	17.2	327
1997 AO ₂₂	1997 01 11.73380	08 16 06.75	+18 09 09.2	327	1997 AT ₂₂	* 1997 01 11.82270	10 47 16.50	+08 30 42.7		327
1997 AO ₂₂	1997 01 18.64429	08 10 02.25	+18 32 45.6	327	1997 AT ₂₂	1997 01 11.83417	10 47 16.38	+08 30 45.8		327
1997 AO ₂₂	1997 01 18.65948	08 10 01.38	+18 32 47.8	17.5 327	1997 AT ₂₂	1997 01 11.84545	10 47 16.25	+08 30 49.0	18.2	327
1997 AO ₂₂	1997 01 18.67457	08 10 00.62	+18 32 51.0	327	1997 AT ₂₂	1997 01 18.79296	10 44 57.75	+09 06 22.8		327
1997 AO ₂₂	1997 01 26.69758	08 02 59.38	+18 59 51.2	327	1997 AT ₂₂	1997 01 18.80796	10 44 57.38	+09 06 27.3		327
1997 AO ₂₂	1997 01 26.71205	08 02 58.62	+18 59 54.2	327	1997 AT ₂₂	1997 01 18.82336	10 44 57.00	+09 06 32.8	17.9	327
1997 AO ₂₂	1997 01 26.72645	08 02 57.88	+18 59 56.8	17.5 327	1997 AU ₂₂	* 1997 01 11.82270	10 49 30.00	+08 15 52.3	18.0	327
1997 AO ₂₂	1997 01 27.64755	08 02 11.00	+19 02 57.1	327	1997 AU ₂₂	1997 01 11.83417	10 49 29.75	+08 15 52.7		327
1997 AO ₂₂	1997 01 27.66185	08 02 10.25	+19 02 59.7	17.7 327	1997 AU ₂₂	1997 01 11.84545	10 49 29.50	+08 15 52.5		327
1997 AO ₂₂	1997 01 27.67662	08 02 09.50	+19 03 02.8	327	1997 AU ₂₂	1997 01 18.79296	10 46 34.00	+08 20 16.0	17.9	327
1997 AP ₂₂	1996 12 18.82679	08 38 58.88	+17 33 36.7	18.1 327	1997 AU ₂₂	1997 01 18.80796	10 46 33.50	+08 20 16.7		327
1997 AP ₂₂	1996 12 18.83980	08 38 58.50	+17 33 40.7	18.7 327	1997 AU ₂₂	1997 01 18.82336	10 46 33.00	+08 20 17.5		327
1997 AP ₂₂	1996 12 18.89775	08 38 57.00	+17 33 53.3	18.6 327	1997 AV ₂₂	* 1997 01 12.82763	10 24 33.75	+13 51 54.0		327
1997 AP ₂₂	* 1997 01 11.70811	08 21 49.50	+19 27 57.6	17.5 327	1997 AV ₂₂	1997 01 12.83661	10 24 33.62	+13 51 58.2		327
1997 AP ₂₂	1997 01 11.72362	08 21 48.50	+19 28 02.7	327	1997 AV ₂₂	1997 01 12.84544	10 24 33.50	+13 52 01.6	17.2	327
1997 AP ₂₂	1997 01 11.73911	08 21 47.62	+19 28 07.8	327	1997 AV ₂₂	1997 01 18.78785	10 22 44.88	+14 31 43.7	16.8	327
1997 AP ₂₂	1997 01 18.68916	08 14 53.75	+20 07 44.0	17.3 327	1997 AV ₂₂	1997 01 18.80291	10 22 44.50	+14 31 50.3		327
1997 AP ₂₂	1997 01 18.69998	08 14 53.00	+20 07 47.6	327	1997 AV ₂₂	1997 01 18.81821	10 22 44.12	+14 31 56.7		327
1997 AP ₂₂	1997 01 18.71053	08 14 52.38	+20 07 51.1	327	1997 AV ₂₂	1997 02 01.77109	10 14 40.50	+16 26 37.5	17.2	327
1997 AP ₂₂	1997 01 27.65231	08 05 43.25	+20 57 54.7	17.9 327	1997 AV ₂₂	1997 02 01.78560	10 14 39.75	+16 26 45.2		327
1997 AP ₂₂	1997 01 27.66671	08 05 42.25	+20 57 59.5	327	1997 AV ₂₂	1997 02 01.80003	10 14 39.12	+16 26 52.8		327
1997 AP ₂₂	1997 01 27.68150	08 05 41.38	+20 58 04.2	327	1997 AV ₂₂	1997 02 02.78819	10 13 54.12	+16 35 48.2	17.3	327

1997 AV ₂₂	1997 02 02.80345	10 13 53.38	+16 35 56.3	327	1997 BR	1997 01 22.76855	10 12 42.96	+24 28 02.3	327
1997 AV ₂₂	1997 02 02.81869	10 13 52.75	+16 36 04.6	327	1997 BR	1997 01 22.77161	10 12 42.86	+24 28 10.2	327
1997 AV ₂₂	1997 02 04.71850	10 12 23.12	+16 53 23.3	16.9 327	1997 BR	1997 01 24.79503	10 12 02.43	+25 53 37.8	327
1997 AV ₂₂	1997 02 04.73350	10 12 22.38	+16 53 31.5	327	1997 BR	1997 01 24.79868	10 12 02.30	+25 53 47.1	17.5 327
1997 AV ₂₂	1997 02 04.74870	10 12 21.62	+16 53 40.2	327	1997 BR	1997 01 24.80605	10 12 02.04	+25 54 06.4	327
1997 AW ₂₂	* 1997 01 12.90795	10 22 49.75	+12 53 05.6	327	1997 BR	1997 01 24.87056	10 12 00.14	+25 56 52.5	327
1997 AW ₂₂	1997 01 12.91756	10 22 49.50	+12 53 06.2	18.0 327	1997 BR	1997 01 24.87529	10 12 00.04	+25 57 04.0	327
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1997 AW ₂₂	1997 01 18.79814	10 19 52.62	+12 58 56.7	17.5 327	1997 BR	1997 01 24.88774	10 11 59.70	+25 57 36.8	17.1 327
1997 AW ₂₂	1997 01 18.81340	10 19 52.00	+12 58 57.8	327	1997 BR	1997 01 25.69088	10 11 40.43	+26 32 54.3	327
1997 AW ₂₂	1997 01 18.82859	10 19 51.50	+12 58 58.8	327	1997 BR	1997 01 25.69828	10 11 40.27	+26 33 13.3	327
1997 AW ₂₂	1997 02 01.76622	10 10 28.75	+13 21 43.6	17.4 327	1997 BR	1997 01 25.70182	10 11 40.10	+26 33 24.1	327
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1997 AW ₂₂	1997 02 01.79513	10 10 27.38	+13 21 47.2	327	1997 BR	1997 01 25.70950	10 11 39.95	+26 33 44.2	327
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1997 AW ₂₂	1997 02 06.78725	10 06 28.88	+13 31 48.0	327	1997 BR	1997 02 12.61875	09 52 20.38	+41 47 09.7	327
1997 AW ₂₂	1997 02 06.79740	10 06 28.38	+13 31 49.2	327	1997 BR	1997 02 12.62359	09 52 19.88	+41 47 25.2	327
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1997 AK ₂₃	1997 01 04.57413	06 38 23.62	+35 39 17.8	327	1997 BR	1997 02 12.63007	09 52 19.12	+41 47 46.2	327
1997 AK ₂₃	1997 01 04.57847	06 38 23.25	+35 39 15.8	19.0 327	1997 BR	1997 02 12.63361	09 52 18.75	+41 47 57.7	327
1997 AK ₂₃	1997 01 11.63215	06 30 57.75	+34 42 37.8	327	1997 BR	1997 02 13.64412	09 50 30.88	+42 41 56.6	17.1 327
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1997 AL ₂₃	1997 01 04.83505	09 10 51.50	+17 00 41.1	327	1997 BS	1997 01 20.78729	10 25 13.88	+16 54 52.5	16.9 327
1997 AL ₂₃	1997 01 04.85007	09 10 51.12	+17 00 44.7	18.3 327	1997 BS	1997 01 20.80206	10 25 13.25	+16 54 54.7	327
1997 AL ₂₃	1997 01 08.81235	09 08 33.00	+17 20 39.5	327	1997 BS	1997 01 22.72503	10 24 00.09	+16 59 58.3	327
1997 AL ₂₃	1997 01 08.82762	09 08 32.38	+17 20 44.3	327	1997 BS	1997 01 22.73225	10 23 59.75	+16 59 59.6	327
1997 AL ₂₃	1997 01 08.84269	09 08 31.75	+17 20 49.1	17.6 327	1997 BS	1997 01 22.73902	10 23 59.53	+17 00 00.3	16.9 327
1997 AL ₂₃	1997 01 08.85317	09 08 31.25	+17 20 52.6	327	1997 BT	* 1997 01 22.78153	12 40 37.12	+16 39 45.3	17.4 327
1997 AM ₂₃	* 1997 01 09.53280	04 05 06.00	+19 34 14.0	327	1997 BT	1997 01 22.78631	12 40 37.25	+16 39 47.6	327
1997 AM ₂₃	1997 01 09.54738	04 05 05.75	+19 34 13.3	327	1997 BT	1997 01 22.79104	12 40 37.38	+16 39 49.2	327
1997 AM ₂₃	1997 01 09.56237	04 05 05.44	+19 34 13.2	18.7 327	1997 BT	1997 01 24.83574	12 41 33.25	+16 53 50.2	17.4 327
1997 AM ₂₃	1997 01 15.53284	04 03 45.19	+19 34 49.3	18.9 327	1997 BT	1997 01 24.84032	12 41 33.25	+16 53 52.2	327
1997 AM ₂₃	1997 01 15.54894	04 03 45.00	+19 34 49.8	327	1997 BT	1997 01 24.84503	12 41 33.38	+16 53 54.7	327
1997 AM ₂₃	1997 01 15.56458	04 03 44.81	+19 34 49.0	327	1997 BT	1997 01 24.84965	12 41 33.50	+16 53 56.2	327
1997 BQ	1997 01 20.89737	10 58 48.75	+60 57 41.3	327	1997 BT	1997 01 24.89457	12 41 34.62	+16 54 15.2	327
1997 BQ	1997 01 20.90208	10 58 50.62	+60 57 54.5	327	1997 BT	1997 01 24.89932	12 41 34.75	+16 54 17.2	17.5 327
1997 BQ	1997 01 20.90641	10 58 52.12	+60 58 06.2	327	1997 BT	1997 01 24.90417	12 41 34.75	+16 54 19.3	327
1997 BQ	1997 01 20.91076	10 58 53.75	+60 58 18.5	17.3 327	1997 BT	1997 02 05.89311	12 44 31.12	+18 30 42.0	327
1997 BR	* 1997 01 20.72757	10 13 09.38	+23 06 28.2	327	1997 BT	1997 02 05.89784	12 44 31.12	+18 30 44.3	17.2 327
1997 BR	1997 01 20.73722	10 13 09.12	+23 06 50.6	17.5 327	1997 BT	1997 02 05.90255	12 44 31.12	+18 30 47.1	327
1997 BR	1997 01 20.75153	10 13 09.00	+23 07 24.5	327	1997 BV	1996 12 18.81910	08 33 15.12	+17 59 28.7	18.1 327
1997 BR	1997 01 22.70647	10 12 44.28	+24 25 29.0	327	1997 BV	1996 12 18.83547	08 33 14.62	+17 59 27.5	18.2 327
1997 BR	1997 01 22.71369	10 12 44.12	+24 25 47.7	327	1997 BV	1996 12 18.84847	08 33 14.25	+17 59 27.2	18.4 327
1997 BR	1997 01 22.72073	10 12 44.02	+24 26 04.4	18.2 327	1997 BV	* 1997 01 18.65455	08 10 32.25	+18 03 59.0	327
1997 BR	1997 01 22.74681	10 12 43.44	+24 27 06.8	327	1997 BV	1997 01 18.66975	08 10 31.38	+18 03 59.3	327
1997 BR	1997 01 22.74981	10 12 43.42	+24 27 16.4	327	1997 BV	1997 01 18.68432	08 10 30.50	+18 03 59.6	17.1 327
1997 BR	1997 01 22.75347	10 12 43.30	+24 27 25.9	327	1997 BV	1997 01 26.70244	08 03 08.50	+18 09 24.6	17.5 327
1997 BR	1997 01 22.75722	10 12 43.26	+24 27 34.0	17.9 327	1997 BV	1997 01 26.71674	08 03 07.62	+18 09 24.7	327
1997 BR	1997 01 22.76192	10 12 43.02	+24 27 46.1	17.4 327	1997 BV	1997 01 26.73120	08 03 06.88	+18 09 25.5	327
1997 BR	1997 01 22.76545	10 12 43.00	+24 27 55.8	327	1997 BV	1997 02 05.57398	07 54 45.25	+18 15 02.2	17.5 327

1997 BV	1997 02 05.58370	07 54 44.75	+18 15 02.6		327	1997 BB ₁	1997 02 06.48839	02 34 40.75	+18 31 29.1	18.3	327
1997 BV	1997 02 05.59329	07 54 44.38	+18 15 02.8		327	1997 BC ₁	* 1997 01 24.57838	03 59 15.88	+22 48 26.6	17.1	327
1997 BW	* 1997 01 18.65455	08 13 28.88	+18 43 03.8	16.9	327	1997 BC ₁	1997 01 24.59453	03 59 16.62	+22 48 25.2		327
1997 BW	1997 01 18.66975	08 13 28.00	+18 43 13.5		327	1997 BC ₁	1997 01 24.61049	03 59 17.44	+22 48 24.3		327
1997 BW	1997 01 18.68432	08 13 27.12	+18 43 22.5		327	1997 BC ₁	1997 01 25.58461	04 00 07.44	+22 47 25.1	17.2	327
1997 BW	1997 01 26.70725	08 05 57.12	+20 03 12.1		327	1997 BC ₁	1997 01 25.59965	04 00 08.19	+22 47 23.8		327
1997 BW	1997 01 26.72167	08 05 56.25	+20 03 19.7	17.4	327	1997 BC ₁	1997 01 25.61475	04 00 08.94	+22 47 23.2		327
1997 BW	1997 01 26.73597	08 05 55.50	+20 03 28.8		327	1997 BD ₁	* 1997 01 25.49527	01 58 27.31	+19 27 36.1		327
1997 BW	1997 01 29.61367	08 03 19.75	+20 31 10.8	17.4	327	1997 BD ₁	1997 01 25.49998	01 58 27.62	+19 27 35.5	18.4	327
1997 BW	1997 01 29.62333	08 03 19.25	+20 31 16.5		327	1997 BD ₁	1997 01 25.50490	01 58 28.00	+19 27 35.6		327
1997 BW	1997 01 29.63303	08 03 18.75	+20 31 22.1		327	1997 BD ₁	1997 01 27.43669	02 00 50.75	+19 26 56.2		327
1997 BX	1997 01 02.81417	08 32 47.25	+18 47 53.7		327	1997 BD ₁	1997 01 27.44791	02 00 51.56	+19 26 55.7		327
1997 BX	1997 01 02.82946	08 32 46.50	+18 47 58.0	17.8	327	1997 BD ₁	1997 01 27.45225	02 00 51.88	+19 26 56.5	18.6	327
1997 BX	1997 01 02.84491	08 32 45.75	+18 48 03.2		327	1997 BD ₁	1997 02 06.46463	02 14 03.62	+19 30 28.6		327
1997 BX	* 1997 01 18.68916	08 17 36.62	+20 14 44.7	17.0	327	1997 BD ₁	1997 02 06.47434	02 14 04.44	+19 30 29.2	18.1	327
1997 BX	1997 01 18.69998	08 17 35.88	+20 14 48.7		327	1997 BD ₁	1997 02 06.48362	02 14 05.19	+19 30 29.6		327
1997 BX	1997 01 18.71053	08 17 35.25	+20 14 52.1		327	1997 BE ₁	* 1997 01 26.74707	08 09 41.88	+20 48 43.5	18.1	327
1997 BX	1997 01 26.74707	08 09 12.12	+20 58 08.7	17.4	327	1997 BE ₁	1997 01 26.76196	08 09 41.12	+20 48 45.7		327
1997 BX	1997 01 26.76196	08 09 11.25	+20 58 13.6		327	1997 BE ₁	1997 01 26.77707	08 09 40.25	+20 48 47.8		327
1997 BX	1997 01 26.77707	08 09 10.25	+20 58 18.5		327	1997 BE ₁	1997 01 27.65231	08 08 53.88	+20 51 18.2		327
1997 BX	1997 02 04.66491	08 00 41.25	+21 40 16.2	17.6	327	1997 BE ₁	1997 01 27.66671	08 08 53.12	+20 51 21.2		327
1997 BX	1997 02 04.67473	08 00 40.75	+21 40 19.2		327	1997 BE ₁	1997 01 27.68150	08 08 52.25	+20 51 24.2	17.9	327
1997 BX	1997 02 04.68456	08 00 40.25	+21 40 21.6		327	1997 BE ₁	1997 02 06.57534	08 00 41.75	+21 16 41.2	18.6	327
1997 BX	1997 02 06.57534	07 59 04.12	+21 48 12.0	18.0	327	1997 BE ₁	1997 02 06.58667	08 00 41.25	+21 16 42.8		327
1997 BX	1997 02 06.58667	07 59 03.50	+21 48 14.8		327	1997 BE ₁	1997 02 06.59806	08 00 40.75	+21 16 43.7		327
1997 BX	1997 02 06.59806	07 59 03.00	+21 48 17.6		327	1997 BA ₇	* 1997 01 28.43883	01 35 05.81	+14 45 56.2		327
1997 BY	* 1997 01 18.69453	08 57 04.50	+17 03 15.8	18.4	327	1997 BA ₇	1997 01 28.44356	01 35 06.19	+14 45 58.1		327
1997 BY	1997 01 18.70515	08 57 04.00	+17 03 18.5		327	1997 BA ₇	1997 01 28.44831	01 35 06.50	+14 46 00.7	19.2	327
1997 BY	1997 01 18.72116	08 57 03.12	+17 03 21.7		327	1997 BA ₇	1997 01 29.43646	01 36 14.50	+14 53 07.1	19.3	327
1997 BY	1997 01 25.75061	08 51 18.12	+17 30 49.8		327	1997 BA ₇	1997 01 29.44922	01 36 15.31	+14 53 12.1		327
1997 BY	1997 01 25.75530	08 51 17.88	+17 30 50.7		327	1997 BA ₇	1997 01 29.45976	01 36 16.00	+14 53 17.2		327
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1997 BZ	* 1997 01 19.61064	07 43 58.00	+22 17 45.7		327	1997 BB ₇	1997 01 28.44356	01 35 10.38	+14 39 15.7		327
1997 BZ	1997 01 19.64071	07 43 56.00	+22 17 45.0	17.5	327	1997 BB ₇	1997 01 28.44831	01 35 10.62	+14 39 17.5		327
1997 BZ	1997 01 19.65572	07 43 55.12	+22 17 44.2		327	1997 BB ₇	1997 01 29.43646	01 36 11.62	+14 43 57.5		327
1997 BZ	1997 01 26.75699	07 36 32.25	+22 12 30.8		327	1997 BB ₇	1997 01 29.44922	01 36 12.50	+14 44 00.6	18.5	327
1997 BZ	1997 01 26.77204	07 36 31.38	+22 12 29.8	17.4	327	1997 BB ₇	1997 01 29.45976	01 36 13.12	+14 44 03.7		327
1997 BZ	1997 01 26.78712	07 36 30.50	+22 12 29.2		327	1997 BC ₇	* 1997 01 28.67544	09 09 59.12	+06 55 26.2		327
1997 BA ₁	* 1997 01 19.87431	13 10 54.00	-07 45 36.6		327	1997 BC ₇	1997 01 28.68549	09 09 58.50	+06 55 29.2		327
1997 BA ₁	1997 01 19.88931	13 10 54.25	-07 45 43.1	17.9	327	1997 BC ₇	1997 01 28.69537	09 09 58.00	+06 55 31.2	18.0	327
1997 BA ₁	1997 01 19.90463	13 10 54.50	-07 45 49.3		327	1997 BC ₇	1997 01 30.68984	09 08 08.38	+07 04 56.7	18.0	327
1997 BA ₁	1997 01 23.87722	13 11 51.88	-08 11 52.2	18.0	327	1997 BC ₇	1997 01 30.70771	09 08 07.50	+07 05 02.0		327
1997 BA ₁	1997 01 23.89801	13 11 52.25	-08 12 00.2		327	1997 BC ₇	1997 01 30.72308	09 08 06.50	+07 05 06.5		327
1997 BA ₁	1997 01 23.91918	13 11 52.38	-08 12 08.3		327	1997 BD ₇	* 1997 01 28.67544	09 10 44.25	+07 08 13.2		327
1997 BB ₁	* 1997 01 23.44681	02 25 56.12	+18 30 00.7		327	1997 BD ₇	1997 01 28.68549	09 10 43.62	+07 08 14.1	18.4	327
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1997 BB ₁	1997 01 23.48044	02 25 57.19	+18 29 59.5		327	1997 BD ₇	1997 01 30.68984	09 08 58.00	+07 10 44.1	18.5	327
1997 BB ₁	1997 01 25.51515	02 27 02.06	+18 29 06.0		327	1997 BD ₇	1997 01 30.70771	09 08 57.00	+07 10 46.0		327
1997 BB ₁	1997 01 25.52522	02 27 02.38	+18 29 05.8	18.3	327	1997 BD ₇	1997 01 30.72308	09 08 56.25	+07 10 47.1		327
1997 BB ₁	1997 01 25.53558	02 27 02.75	+18 29 05.8		327	1997 BE ₇	* 1997 01 28.67544	09 11 09.00	+07 10 46.2	18.1	327
1997 BB ₁	1997 02 06.46932	02 34 40.00	+18 31 28.0		327	1997 BE ₇	1997 01 28.68549	09 11 08.38	+07 10 48.7		327
1997 BB ₁	1997 02 06.47892	02 34 40.38	+18 31 28.7		327	1997 BE ₇	1997 01 28.69537	09 11 07.62	+07 10 51.5		327

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1997 BE ₇	1997 01 30.70771	09 09 14.88	+07 19 54.1		327	1997 CB ₆	1997 02 04.60885	09 10 34.25	+12 21 27.2	18.6	327
1997 BE ₇	1997 01 30.72308	09 09 14.00	+07 19 58.0		327	1997 CF ₆	* 1997 02 01.77109	10 16 35.12	+16 43 04.5	18.2	327
1997 BF ₇	* 1997 01 28.68030	09 14 01.25	+16 28 37.2	18.1	327	1997 CF ₆	1997 02 01.78560	10 16 34.25	+16 43 04.8		327
1997 BF ₇	1997 01 28.69043	09 14 00.75	+16 28 39.6		327	1997 CF ₆	1997 02 01.80003	10 16 33.25	+16 43 05.3		327
1997 BF ₇	1997 01 28.70028	09 14 00.25	+16 28 41.5		327	1997 CF ₆	1997 02 02.78819	10 15 31.38	+16 43 44.6	17.5	327
1997 BF ₇	1997 01 30.69740	09 12 18.75	+16 35 49.7		327	1997 CF ₆	1997 02 02.80345	10 15 30.38	+16 43 45.2		327
1997 BF ₇	1997 01 30.71273	09 12 18.00	+16 35 52.5	17.5	327	1997 CF ₆	1997 02 02.81869	10 15 29.38	+16 43 45.7		327
1997 BF ₇	1997 01 30.72833	09 12 17.12	+16 35 55.8		327	1997 CF ₆	1997 02 04.71850	10 13 28.00	+16 44 58.7		327
1997 BG ₇	* 1997 01 28.68030	09 14 18.12	+16 45 57.2	19.0	327	1997 CF ₆	1997 02 04.73350	10 13 27.00	+16 44 59.6	17.6	327
1997 BG ₇	1997 01 28.69043	09 14 17.50	+16 46 02.6		327	1997 CF ₆	1997 02 04.74870	10 13 26.00	+16 45 00.2		327
1997 BG ₇	1997 01 28.70028	09 14 17.00	+16 46 07.3		327	1997 CG ₆	* 1997 02 02.84226	13 33 53.75	+01 17 51.1		327
1997 BG ₇	1997 01 30.69740	09 12 24.12	+17 03 02.5		327	1997 CG ₆	1997 02 02.85707	13 33 54.50	+01 17 49.1	16.7	327
1997 BG ₇	1997 01 30.71273	09 12 23.25	+17 03 10.6		327	1997 CG ₆	1997 02 02.87207	13 33 55.25	+01 17 47.0		327
1997 BG ₇	1997 01 30.72833	09 12 22.25	+17 03 18.6	18.9	327	1997 CG ₆	1997 02 04.90181	13 35 33.88	+01 13 23.6	16.9	327
1997 BH ₇	* 1997 01 28.68030	09 15 13.25	+16 53 06.8		327	1997 CG ₆	1997 02 04.91064	13 35 34.25	+01 13 22.5		327
1997 BH ₇	1997 01 28.69043	09 15 12.75	+16 53 10.0		327	1997 CG ₆	1997 02 04.91904	13 35 34.62	+01 13 21.6		327
1997 BH ₇	1997 01 28.70028	09 15 12.25	+16 53 12.3	18.4	327	1997 CH ₆	* 1997 02 02.84226	13 36 03.75	+01 50 42.6		327
1997 BH ₇	1997 01 30.69740	09 13 36.50	+17 02 15.8		327	1997 CH ₆	1997 02 02.85707	13 36 04.25	+01 50 40.3		327
1997 BH ₇	1997 01 30.71273	09 13 35.75	+17 02 20.6		327	1997 CH ₆	1997 02 02.87207	13 36 04.62	+01 50 38.1	18.3	327
1997 BH ₇	1997 01 30.72833	09 13 35.00	+17 02 24.7	18.2	327	1997 CH ₆	1997 02 04.90181	13 37 08.00	+01 45 47.3	18.4	327
1997 BJ ₇	* 1997 01 28.68030	09 15 27.00	+16 39 15.2		327	1997 CH ₆	1997 02 04.91064	13 37 08.38	+01 45 45.6		327
1997 BJ ₇	1997 01 28.69043	09 15 26.50	+16 39 18.1	16.3	327	1997 CH ₆	1997 02 04.91904	13 37 08.62	+01 45 44.5		327
1997 BJ ₇	1997 01 28.70028	09 15 26.00	+16 39 21.0		327	1997 CB ₁₉	* 1997 02 01.48279	04 08 12.25	+21 09 20.1		327
1997 BJ ₇	1997 01 30.69740	09 13 51.00	+16 49 13.0		327	1997 CB ₁₉	1997 02 01.49841	04 08 12.50	+21 09 21.5	18.9	327
1997 BJ ₇	1997 01 30.71273	09 13 50.25	+16 49 17.6	16.3	327	1997 CB ₁₉	1997 02 01.51384	04 08 12.56	+21 09 24.1		327
1997 BJ ₇	1997 01 30.72833	09 13 49.50	+16 49 22.2		327	1997 CB ₁₉	1997 02 06.54215	04 09 37.62	+21 21 30.2		327
1997 BK ₇	* 1997 01 28.71664	09 13 49.00	+29 20 17.2		327	1997 CB ₁₉	1997 02 06.55220	04 09 37.81	+21 21 31.7		327
1997 BK ₇	1997 01 28.73182	09 13 48.00	+29 20 23.0	16.6	327	1997 CB ₁₉	1997 02 06.56272	04 09 38.00	+21 21 32.5	18.8	327
1997 BK ₇	1997 01 28.74713	09 13 47.00	+29 20 28.5		327	1997 CC ₁₉	* 1997 02 01.76622	10 08 26.62	+13 21 15.1		327
1997 BK ₇	1997 01 30.70256	09 11 38.25	+29 32 05.0	16.8	327	1997 CC ₁₉	1997 02 01.78069	10 08 26.00	+13 21 21.0	17.6	327
1997 BK ₇	1997 01 30.71788	09 11 37.25	+29 32 10.1		327	1997 CC ₁₉	1997 02 01.79513	10 08 25.38	+13 21 26.6		327
1997 BK ₇	1997 01 30.73384	09 11 36.12	+29 32 15.8		327	1997 CC ₁₉	1997 02 06.77708	10 04 51.50	+13 55 39.7	17.6	327
1997 CC ₅	1997 01 28.68030	09 14 33.50	+16 46 54.6		327	1997 CC ₁₉	1997 02 06.78725	10 04 51.00	+13 55 43.5		327
1997 CC ₅	1997 01 28.69043	09 14 32.88	+16 46 56.6	18.3	327	1997 CC ₁₉	1997 02 06.79740	10 04 50.62	+13 55 47.8		327
1997 CC ₅	1997 01 28.70028	09 14 32.25	+16 46 58.5		327	1997 CD ₁₉	* 1997 02 01.76622	10 09 09.12	+13 40 38.2	19.6	327
1997 CC ₅	1997 01 30.69740	09 12 31.75	+16 53 09.2		327	1997 CD ₁₉	1997 02 01.78069	10 09 08.38	+13 40 40.6		327
1997 CC ₅	1997 01 30.71273	09 12 30.75	+16 53 11.3	18.2	327	1997 CD ₁₉	1997 02 01.79513	10 09 07.75	+13 40 42.0		327
1997 CC ₅	1997 01 30.72833	09 12 29.88	+16 53 15.0		327	1997 CD ₁₉	1997 02 06.77708	10 05 01.50	+13 51 01.3	19.1	327
1997 CO ₅	1997 02 12.59410	08 59 49.75	+16 01 53.7		327	1997 CD ₁₉	1997 02 06.78725	10 05 01.00	+13 51 02.2		327
1997 CO ₅	1997 02 12.59844	08 59 49.50	+16 01 48.0	17.4	327	1997 CD ₁₉	1997 02 06.79740	10 05 00.50	+13 51 03.8		327
1997 CO ₅	1997 02 12.60365	08 59 49.00	+16 01 41.1		327	1997 CE ₁₉	* 1997 02 01.76622	10 10 03.50	+13 36 42.2		327
1997 CO ₅	1997 02 12.60807	08 59 48.62	+16 01 35.3		327	1997 CE ₁₉	1997 02 01.78069	10 10 02.75	+13 36 46.3		327
1997 CZ ₅	1997 02 12.47097	04 40 27.69	+17 22 33.7	14.9	327	1997 CE ₁₉	1997 02 01.79513	10 10 02.25	+13 36 49.7	19.4	327
1997 CZ ₅	1997 02 12.47531	04 40 28.31	+17 22 26.7		327	1997 CE ₁₉	1997 02 06.77212	10 06 23.00	+13 57 22.7		327
1997 CZ ₅	1997 02 12.48584	04 40 29.88	+17 22 10.1		327	1997 CE ₁₉	1997 02 06.77708	10 06 22.88	+13 57 23.7		327
1997 CB ₆	1997 02 02.60030	09 12 29.25	+12 11 05.3		327	1997 CE ₁₉	1997 02 06.78227	10 06 22.50	+13 57 25.2		327
1997 CB ₆	1997 02 02.60463	09 12 28.88	+12 11 06.7		327	1997 CE ₁₉	1997 02 06.78725	10 06 22.38	+13 57 26.8		327
1997 CB ₆	1997 02 02.60896	09 12 28.75	+12 11 08.1	18.3	327	1997 CE ₁₉	1997 02 06.79227	10 06 22.12	+13 57 28.3	19.2	327
1997 CB ₆	1997 02 02.61329	09 12 28.38	+12 11 09.2		327	1997 CE ₁₉	1997 02 06.79740	10 06 22.00	+13 57 28.7	19.3	327
1997 CB ₆	1997 02 04.59351	09 10 35.12	+12 21 23.0		327	1997 CF ₁₉	* 1997 02 01.77109	10 15 04.00	+16 31 50.8	19.4	327
1997 CB ₆	1997 02 04.59859	09 10 34.75	+12 21 24.5		327	1997 CF ₁₉	1997 02 01.78560	10 15 03.25	+16 31 53.8		327

1997 CF ₁₉	1997 02 01.80003	10 15 02.50	+16 31 55.2		327	(711)	1997 01 24.60547	03 35 10.31	+27 12 49.2		327
1997 CF ₁₉	1997 02 02.78819	10 14 16.88	+16 34 19.8	19.2	327	(752)	1997 01 09.52807	04 00 20.12	+19 47 38.8		327
1997 CF ₁₉	1997 02 02.80345	10 14 16.12	+16 34 22.3		327	(752)	1997 01 09.54258	04 00 19.94	+19 47 41.0		327
1997 CF ₁₉	1997 02 02.81869	10 14 15.38	+16 34 24.3		327	(752)	1997 01 09.55747	04 00 19.75	+19 47 43.2	13.7	327
1997 CG ₁₉	* 1997 02 02.79863	10 23 47.62	+12 44 42.6	19.0	327	(752)	1997 01 15.52752	03 59 48.31	+20 04 03.8		327
1997 CG ₁₉	1997 02 02.81378	10 23 46.88	+12 44 46.2		327	(752)	1997 01 15.54363	03 59 48.31	+20 04 06.7		327
1997 CG ₁₉	1997 02 02.82905	10 23 46.12	+12 44 49.7		327	(752)	1997 01 15.55926	03 59 48.31	+20 04 09.2	13.8	327
1997 CG ₁₉	1997 02 06.80733	10 20 26.38	+12 59 47.6		327	(897)	1997 01 25.59470	04 01 46.31	+19 44 51.1	14.7	327
1997 CG ₁₉	1997 02 06.81726	10 20 25.75	+12 59 50.3	18.8	327	(897)	1997 01 25.60973	04 01 46.44	+19 44 48.2		327
1997 CG ₁₉	1997 02 06.82703	10 20 25.25	+12 59 52.8		327	(897)	1997 01 25.62487	04 01 46.56	+19 44 45.2		327
1997 CH ₁₉	* 1997 02 04.61601	08 14 45.50	+27 00 49.2	17.6	327	(916)	1997 01 18.79296	10 47 42.00	+08 53 32.0	15.4	327
1997 CH ₁₉	1997 02 04.62921	08 14 44.75	+27 00 52.8		327	(916)	1997 01 18.80796	10 47 41.50	+08 53 31.0		327
1997 CH ₁₉	1997 02 04.64389	08 14 43.88	+27 00 57.7		327	(916)	1997 01 18.82336	10 47 41.12	+08 53 29.7		327
1997 CH ₁₉	1997 02 06.62061	08 12 49.25	+27 10 53.7		327	(1054)	1997 01 11.85064	11 18 53.75	+18 00 24.7		327
1997 CH ₁₉	1997 02 06.63547	08 12 48.38	+27 10 58.5	17.9	327	(1054)	1997 01 11.86547	11 18 53.62	+18 00 29.6	15.5	327
1997 CH ₁₉	1997 02 06.65047	08 12 47.50	+27 11 02.7		327	(1054)	1997 01 11.88075	11 18 53.50	+18 00 34.3		327
1997 CJ ₁₉	* 1997 02 04.62259	08 19 26.38	+25 32 42.8		327	(1178)	1997 01 19.86937	13 03 38.62	-06 40 36.8		327
1997 CJ ₁₉	1997 02 04.63672	08 19 25.62	+25 32 47.2	17.8	327	(1178)	1997 01 19.88416	13 03 39.50	-06 40 39.5	15.8	327
1997 CJ ₁₉	1997 02 04.65144	08 19 24.75	+25 32 52.7		327	(1178)	1997 01 19.89972	13 03 40.38	-06 40 42.1		327
1997 CJ ₁₉	1997 02 06.63049	08 17 36.62	+25 44 21.2		327	(1202)	1997 01 24.72056	10 15 06.12	+15 20 33.7		327
1997 CJ ₁₉	1997 02 06.64541	08 17 35.75	+25 44 26.6	17.7	327	(1202)	1997 01 24.72543	10 15 06.00	+15 20 34.7		327
1997 CJ ₁₉	1997 02 06.66017	08 17 35.00	+25 44 31.6		327	(1202)	1997 01 24.73030	10 15 05.88	+15 20 35.8	16.5	327
1997 CK ₁₉	* 1997 02 04.65991	07 57 39.62	+21 50 12.2		327	(1202)	1997 01 24.73516	10 15 05.62	+15 20 36.7		327
1997 CK ₁₉	1997 02 04.66983	07 57 38.88	+21 50 08.2	18.9	327	(1202)	1997 01 24.74002	10 15 05.50	+15 20 37.5		327
1997 CK ₁₉	1997 02 04.67964	07 57 38.25	+21 50 05.2		327	(1202)	1997 01 24.74522	10 15 05.38	+15 20 39.2	16.3	327
1997 CK ₁₉	1997 02 06.60306	07 55 38.88	+21 38 39.2		327	(1374)	1997 01 25.63516	05 38 30.88	+26 23 54.8		327
1997 CK ₁₉	1997 02 06.61069	07 55 38.38	+21 38 36.2		327	(1374)	1997 01 25.64980	05 38 30.62	+26 23 52.7	15.0	327
1997 CK ₁₉	1997 02 06.61524	07 55 38.12	+21 38 34.8	18.8	327	(1374)	1997 01 25.66426	05 38 30.50	+26 23 49.1		327
1163 T-1	1997 01 11.58978	04 02 38.44	+19 55 05.7		327	(1435)	1997 01 06.43115	01 32 13.62	+06 10 38.0		327
1163 T-1	1997 01 11.60502	04 02 38.06	+19 55 04.7	17.7	327	(1435)	1997 01 06.44198	01 32 14.19	+06 10 41.3	17.1	327
1163 T-1	1997 01 11.62017	04 02 37.88	+19 55 03.2		327	(1435)	1997 01 06.45257	01 32 14.81	+06 10 45.2		327
4216 T-2	1996 09 20.53635	21 53 39.99	-09 39 21.8	18.0	327	(1570)	1997 01 22.45606	01 39 15.69	+09 12 09.3		327
4216 T-2	1996 09 20.55775	21 53 39.51	-09 39 28.2		327	(1570)	1997 01 22.46554	01 39 16.25	+09 12 13.2		327
4216 T-2	1996 09 20.57128	21 53 39.17	-09 39 31.9		327	(1570)	1997 01 22.47516	01 39 16.75	+09 12 16.1	17.1	327
2287 T-3	1997 01 11.69786	08 15 12.88	+20 01 38.6		327	(1570)	1997 01 22.48469	01 39 17.31	+09 12 19.0		327
2287 T-3	1997 01 11.71343	08 15 11.88	+20 01 39.1	17.9	327	(1816)	1997 01 25.77309	13 02 59.00	+01 53 39.6	14.4	327
2287 T-3	1997 01 11.72894	08 15 11.00	+20 01 41.2		327	(1816)	1997 01 25.78863	13 03 00.12	+01 53 52.6		327
(24)	1997 01 08.81235	09 07 46.25	+17 41 21.8		327	(1816)	1997 01 25.80388	13 03 01.12	+01 54 05.5		327
(24)	1997 01 08.82762	09 07 45.62	+17 41 24.5		327	(1822)	1997 01 18.65455	08 13 24.88	+18 16 03.0	15.2	327
(24)	1997 01 08.84269	09 07 45.00	+17 41 27.0	10.8	327	(1822)	1997 01 18.66975	08 13 23.75	+18 16 06.0		327
(24)	1997 01 08.85317	09 07 44.62	+17 41 28.7		327	(1822)	1997 01 18.68432	08 13 22.75	+18 16 09.2		327
(111)	1997 01 25.48100	01 39 06.38	+15 32 51.7	12.8	327	(1822)	1997 01 29.61844	08 00 34.25	+18 54 32.1		327
(111)	1997 01 25.48574	01 39 06.69	+15 32 53.0		327	(1822)	1997 01 29.62817	08 00 33.62	+18 54 34.0	15.8	327
(111)	1997 01 25.49046	01 39 07.00	+15 32 54.2		327	(1822)	1997 01 29.63786	08 00 32.88	+18 54 36.0		327
(507)	1997 01 24.51797	02 04 21.44	+21 51 40.3	14.3	327	(2048)	1997 01 23.84516	12 14 11.12	-01 13 48.5		327
(507)	1997 01 24.52772	02 04 21.94	+21 51 40.5		327	(2048)	1997 01 23.85572	12 14 11.50	-01 13 41.6	15.9	327
(507)	1997 01 24.53715	02 04 22.44	+21 51 40.7		327	(2048)	1997 01 23.86647	12 14 11.88	-01 13 35.0		327
(675)	1997 01 25.55063	03 24 16.75	+19 47 31.6	11.8	327	(2082)	1997 01 11.58978	04 02 27.44	+19 38 35.1		327
(675)	1997 01 25.56512	03 24 17.50	+19 47 30.2		327	(2082)	1997 01 11.60502	04 02 27.19	+19 38 35.3	19.3	327
(675)	1997 01 25.57962	03 24 18.31	+19 47 28.8		327	(2082)	1997 01 11.62017	04 02 26.88	+19 38 35.2		327
(711)	1997 01 24.57310	03 35 09.62	+27 12 52.3	15.9	327	(2164)	1997 01 18.58941	06 57 02.88	+22 15 06.7		327
(711)	1997 01 24.58940	03 35 09.94	+27 12 50.8		327	(2164)	1997 01 18.60390	06 57 02.12	+22 15 08.1	16.4	327

(2164)	1997 01 18.61884	06 57 01.50	+22 15 10.5		327	(3282)	1997 01 20.48336	02 52 56.56	+12 23 16.2		327
(2227)	1997 01 23.87722	13 13 34.12	-08 16 23.1		327	(3282)	1997 01 23.53940	02 55 13.62	+12 38 18.2	18.6	327
(2227)	1997 01 23.89801	13 13 35.00	-08 16 25.7	17.0	327	(3282)	1997 01 23.54941	02 55 14.12	+12 38 21.2		327
(2227)	1997 01 23.91918	13 13 35.75	-08 16 28.3		327	(3282)	1997 01 23.55954	02 55 14.56	+12 38 24.6		327
(2324)	1997 01 19.83302	12 14 28.75	-01 48 10.6		327	(3369)	1997 01 14.48112	03 25 38.38	+21 27 50.2		327
(2324)	1997 01 19.84841	12 14 28.88	-01 48 12.0	16.6	327	(3369)	1997 01 14.49659	03 25 38.62	+21 27 47.8	16.4	327
(2324)	1997 01 19.86390	12 14 29.12	-01 48 13.5		327	(3369)	1997 01 14.51267	03 25 38.88	+21 27 45.2		327
(2339)	1997 01 15.43139	00 07 19.44	+02 08 16.8	17.1	327	(3369)	1997 01 15.48677	03 25 55.94	+21 25 16.6		327
(2339)	1997 01 15.44598	00 07 20.88	+02 08 27.5		327	(3369)	1997 01 15.50119	03 25 56.31	+21 25 16.6		327
(2339)	1997 01 15.46045	00 07 22.31	+02 08 38.1		327	(3369)	1997 01 15.51560	03 25 56.56	+21 25 14.7	16.6	327
(2455)	1997 01 18.68916	08 14 28.50	+20 00 06.1		327	(3435)	1997 01 19.87431	13 10 48.12	-07 00 10.5		327
(2455)	1997 01 18.69998	08 14 27.75	+20 00 06.2	14.6	327	(3435)	1997 01 19.88931	13 10 48.88	-07 00 12.0	17.2	327
(2455)	1997 01 18.71053	08 14 27.12	+20 00 06.1		327	(3435)	1997 01 19.90463	13 10 49.62	-07 00 13.7		327
(2455)	1997 01 26.70725	08 06 16.12	+20 00 48.5		327	(3442)	1997 01 20.72757	10 15 20.75	+22 29 43.5		327
(2455)	1997 01 26.72167	08 06 15.25	+20 00 48.3	14.8	327	(3442)	1997 01 20.73722	10 15 20.50	+22 29 47.7	16.1	327
(2455)	1997 01 26.73597	08 06 14.38	+20 00 48.3		327	(3442)	1997 01 20.75153	10 15 20.00	+22 29 54.2		327
(2455)	1997 02 05.57878	07 56 57.62	+19 58 36.2	15.0	327	(3539)	1997 01 05.84303	10 45 44.38	+08 28 07.3	17.4	327
(2455)	1997 02 05.58838	07 56 57.25	+19 58 36.1		327	(3539)	1997 01 05.87253	10 45 44.50	+08 28 14.2		327
(2455)	1997 02 05.59803	07 56 56.75	+19 58 35.8		327	(3539)	1997 01 05.88219	10 45 44.38	+08 28 16.7		327
(2578)	1997 01 20.52324	03 00 11.88	+19 50 41.7		327	(3587)	1997 01 23.81586	13 00 41.12	+00 05 38.5		327
(2578)	1997 01 20.53318	03 00 12.12	+19 50 43.6		327	(3587)	1997 01 23.82536	13 00 41.38	+00 05 37.8		327
(2578)	1997 01 20.54183	03 00 12.25	+19 50 45.6	16.5	327	(3587)	1997 01 23.83490	13 00 41.50	+00 05 36.5	17.2	327
(2597)	1997 01 10.42697	01 21 20.06	+07 19 12.8		327	(3587)	1997 01 25.77787	13 01 20.00	+00 02 27.1	17.4	327
(2597)	1997 01 10.43788	01 21 20.69	+07 19 16.7	16.9	327	(3587)	1997 01 25.79356	13 01 20.25	+00 02 25.6		327
(2597)	1997 01 10.44868	01 21 21.25	+07 19 20.7		327	(3587)	1997 01 25.80873	13 01 20.62	+00 02 23.8		327
(2597)	1997 01 10.46016	01 21 21.88	+07 19 24.7		327	(3637)	1997 01 15.43139	00 08 39.69	+02 12 41.1		327
(2630)	1997 01 15.43139	00 10 45.75	+01 48 57.0		327	(3637)	1997 01 15.44598	00 08 40.94	+02 12 45.5		327
(2630)	1997 01 15.44598	00 10 46.75	+01 49 03.6		327	(3637)	1997 01 15.46045	00 08 42.06	+02 12 49.8	16.6	327
(2630)	1997 01 15.46045	00 10 47.81	+01 49 10.8	16.7	327	(3779)	1997 01 06.71258	07 57 47.00	+39 32 42.0		327
(2746)	1997 01 10.42171	02 12 40.81	+08 38 55.1		327	(3779)	1997 01 06.71821	07 57 46.62	+39 32 44.8	14.5	327
(2746)	1997 01 10.43244	02 12 41.25	+08 38 58.2		327	(3779)	1997 01 06.72375	07 57 46.25	+39 32 47.7		327
(2746)	1997 01 10.44328	02 12 41.69	+08 39 01.3	16.7	327	(3860)	1997 01 23.53439	02 47 24.81	+22 56 23.0		327
(2746)	1997 01 10.45406	02 12 42.19	+08 39 04.7		327	(3860)	1997 01 23.54444	02 47 25.25	+22 56 22.2	16.1	327
(2875)	1997 01 20.64306	09 36 49.00	+21 35 25.8		327	(3860)	1997 01 23.55450	02 47 25.69	+22 56 21.6		327
(2875)	1997 01 20.65804	09 36 48.12	+21 35 26.8	15.5	327	(3944)	1997 01 11.75472	09 44 41.75	+24 13 28.1		327
(2875)	1997 01 20.67299	09 36 47.38	+21 35 28.6		327	(3944)	1997 01 11.76948	09 44 41.12	+24 13 34.2	17.4	327
(3011)	1997 01 13.72705	09 16 54.00	+06 35 52.2		327	(3944)	1997 01 11.78780	09 44 40.38	+24 13 42.2		327
(3011)	1997 01 13.73150	09 16 53.75	+06 35 52.5	16.9	327	(3944)	1997 01 18.76203	09 39 09.50	+25 04 25.2		327
(3011)	1997 01 13.73556	09 16 53.62	+06 35 53.3		327	(3944)	1997 01 18.77240	09 39 09.00	+25 04 30.2	17.2	327
(3011)	1997 01 13.74041	09 16 53.38	+06 35 53.7		327	(3944)	1997 01 18.78237	09 39 08.38	+25 04 34.1		327
(3011)	1997 01 13.74444	09 16 53.25	+06 35 54.5		327	(4236)	1997 01 24.63409	06 19 14.75	+32 26 48.0	16.7	327
(3011)	1997 01 15.73095	09 15 34.12	+06 40 12.1		327	(4236)	1997 01 24.65162	06 19 14.00	+32 26 45.3		327
(3011)	1997 01 15.76505	09 15 32.62	+06 40 17.2		327	(4236)	1997 01 24.66854	06 19 13.38	+32 26 43.3		327
(3011)	1997 01 15.79093	09 15 31.50	+06 40 21.1	16.9	327	(4318)	1997 01 24.79503	10 10 11.00	+25 59 49.7	15.4	327
(3034)	1997 01 20.64306	09 33 27.25	+21 12 19.7		327	(4318)	1997 01 24.79868	10 10 10.88	+25 59 51.1		327
(3034)	1997 01 20.65804	09 33 26.38	+21 12 24.0	16.7	327	(4318)	1997 01 24.80250	10 10 10.75	+25 59 52.0		327
(3034)	1997 01 20.67299	09 33 25.50	+21 12 28.2		327	(4318)	1997 01 24.80605	10 10 10.62	+25 59 53.2		327
(3245)	1997 02 06.60306	07 54 16.00	+21 12 31.3	17.4	327	(4318)	1997 01 24.80984	10 10 10.38	+25 59 53.6		327
(3245)	1997 02 06.61069	07 54 15.62	+21 12 32.2		327	(4318)	1997 01 24.81362	10 10 10.25	+25 59 54.6		327
(3245)	1997 02 06.61524	07 54 15.38	+21 12 32.7		327	(4318)	1997 01 24.87056	10 10 07.83	+26 00 11.5		327
(3282)	1997 01 20.45230	02 52 55.25	+12 23 06.5	18.5	327	(4318)	1997 01 24.87529	10 10 07.65	+26 00 12.9	16.3 V	327
(3282)	1997 01 20.46752	02 52 55.94	+12 23 11.8		327	(4318)	1997 01 24.88381	10 10 07.29	+26 00 14.9		327

(4318)	1997 01 24.88774	10 10 07.13	+26 00 16.4		327	(5978)	1997 01 18.75723	09 43 22.62	+24 48 28.5	16.4	327
(4435)	1997 01 06.65611	07 00 53.75	+63 27 53.2		327	(5978)	1997 01 18.76703	09 43 22.12	+24 48 32.7		327
(4435)	1997 01 06.67637	07 00 51.12	+63 27 25.3		327	(5978)	1997 01 18.77737	09 43 21.62	+24 48 37.3		327
(4435)	1997 01 06.68192	07 00 50.50	+63 27 17.7	14.4	327	(6031)	1997 01 25.59470	04 00 30.94	+19 09 04.3	16.8	327
(4515)	1997 01 25.63993	05 43 19.25	+26 07 06.0		327	(6031)	1997 01 25.60973	04 00 31.00	+19 09 07.0		327
(4515)	1997 01 25.65459	05 43 19.00	+26 07 04.3	16.1	327	(6031)	1997 01 25.62487	04 00 31.00	+19 09 10.0		327
(4515)	1997 01 25.66899	05 43 18.75	+26 07 02.7		327	(6310)	1997 01 23.49993	02 16 09.62	+05 39 04.5		327
(4724)	1997 01 23.49509	02 09 38.12	+07 00 38.6		327	(6310)	1997 01 23.51457	02 16 10.50	+05 39 22.2	17.7	327
(4724)	1997 01 23.50970	02 09 38.88	+07 00 46.3	17.6	327	(6310)	1997 01 23.52904	02 16 11.31	+05 39 40.0		327
(4724)	1997 01 23.52421	02 09 39.69	+07 00 54.3		327	(6352)	1997 01 25.54096	03 22 13.00	+22 33 33.6	17.4	327
(4878)	1997 01 10.42697	01 21 58.44	+07 53 49.2		327	(6352)	1997 01 25.55541	03 22 13.50	+22 33 33.6		327
(4878)	1997 01 10.43788	01 21 59.25	+07 53 53.2		327	(6352)	1997 01 25.56992	03 22 14.06	+22 33 33.7		327
(4878)	1997 01 10.44868	01 22 00.12	+07 53 56.2		327	(6539)	1997 01 04.58381	06 54 29.25	+23 53 55.1		327
(4878)	1997 01 10.46016	01 22 01.00	+07 54 00.1	18.9	327	(6539)	1997 01 04.59891	06 54 28.25	+23 53 55.2		327
(5193)	1997 01 18.59406	06 56 02.62	+24 05 08.2		327	(6539)	1997 01 04.61344	06 54 27.38	+23 53 56.3	17.6	327
(5193)	1997 01 18.60877	06 56 01.88	+24 05 11.2	14.6	327	(6576)	1997 01 04.82470	09 09 50.25	+18 19 52.7		327
(5193)	1997 01 18.62359	06 56 01.12	+24 05 12.8		327	(6576)	1997 01 04.84074	09 09 49.75	+18 19 56.5	17.7	327
(5193)	1997 01 23.66522	06 52 08.88	+24 14 18.7		327	(6576)	1997 01 04.85476	09 09 49.25	+18 19 59.2		327
(5193)	1997 01 23.67578	06 52 08.38	+24 14 19.5	15.2	327	(6605)	1997 01 24.62277	07 37 18.75	+22 15 57.2		327
(5193)	1997 01 23.68013	06 52 08.12	+24 14 19.8		327	(6605)	1997 01 24.64015	07 37 17.88	+22 16 00.5	16.1	327
(5320)	1997 01 23.49509	02 12 11.12	+07 11 02.8	17.9	327	(6605)	1997 01 24.65760	07 37 16.88	+22 16 03.7		327
(5320)	1997 01 23.50970	02 12 11.75	+07 11 08.2		327	(6605)	1997 01 26.75699	07 35 27.88	+22 22 16.0	16.4	327
(5320)	1997 01 23.52421	02 12 12.31	+07 11 13.2		327	(6605)	1997 01 26.77204	07 35 27.12	+22 22 18.5		327
(5440)	1997 01 12.90795	10 22 41.62	+12 54 37.0		327	(6605)	1997 01 26.78712	07 35 26.25	+22 22 21.0		327
(5440)	1997 01 12.91756	10 22 41.50	+12 54 38.1	16.6	327	(6754)	1997 01 19.87924	13 13 55.00	-07 25 02.2		327
(5440)	1997 01 12.92694	10 22 41.38	+12 54 41.1		327	(6754)	1997 01 19.89433	13 13 55.50	-07 25 04.7	18.4	327
(5473)	1997 01 22.60324	10 12 38.38	+24 22 05.6	16.3	327	(6754)	1997 01 19.90970	13 13 55.88	-07 25 07.3		327
(5473)	1997 01 22.61328	10 12 37.88	+24 22 10.2		327	(6945)	1997 01 19.86937	13 05 29.38	-07 18 15.8	17.5	327
(5473)	1997 01 22.62324	10 12 37.38	+24 22 15.0		327	(6945)	1997 01 19.88416	13 05 30.00	-07 18 22.2		327
(5473)	1997 01 22.63328	10 12 36.88	+24 22 19.5		327	(6945)	1997 01 19.89972	13 05 30.50	-07 18 29.0		327
(5473)	1997 01 22.70024	10 12 33.61	+24 22 49.8		327	(6945)	1997 01 23.87191	13 07 44.12	-07 45 20.2	17.3	327
(5473)	1997 01 22.70647	10 12 33.36	+24 22 52.6		327	(6945)	1997 01 23.89273	13 07 44.75	-07 45 28.1		327
(5473)	1997 01 22.71369	10 12 32.98	+24 22 56.2	16.7	327	(6945)	1997 01 23.91388	13 07 45.38	-07 45 36.2		327
(5473)	1997 01 22.72073	10 12 32.62	+24 22 59.1		327	(7240)	1997 01 20.46257	02 47 51.31	+23 02 03.2		327
(5473)	1997 01 22.74681	10 12 31.30	+24 23 10.5		327	(7240)	1997 01 20.47789	02 47 52.31	+23 02 06.7		327
(5473)	1997 01 22.74981	10 12 31.19	+24 23 12.1		327	(7240)	1997 01 20.49410	02 47 53.44	+23 02 08.8	17.3	327
(5473)	1997 01 22.75347	10 12 30.99	+24 23 13.5		327	(7240)	1997 01 20.50985	02 47 54.44	+23 02 12.1		327
(5473)	1997 01 22.75722	10 12 30.81	+24 23 16.0	16.7	327	(7298)	1997 01 23.63486	04 07 34.27	+20 23 22.8		327
(5473)	1997 01 22.76192	10 12 30.53	+24 23 17.9		327	(7298)	1997 01 23.64456	04 07 34.41	+20 23 25.9	17.3 V	327
(5473)	1997 01 22.76545	10 12 30.38	+24 23 19.4	16.7	327	(7298)	1997 01 23.65414	04 07 34.53	+20 23 28.4		327
(5473)	1997 01 22.76855	10 12 30.20	+24 23 21.1		327	(7298)	1997 02 01.48279	04 11 17.50	+21 08 08.2		327
(5473)	1997 01 22.77161	10 12 30.09	+24 23 22.2		327	(7298)	1997 02 01.49841	04 11 17.94	+21 08 13.1	17.2	327
(5952)	1997 01 08.81235	09 08 16.62	+17 01 09.2		327	(7298)	1997 02 01.51384	04 11 18.44	+21 08 17.7		327
(5952)	1997 01 08.82762	09 08 15.88	+17 01 10.5		327	(7346)	1997 01 08.52738	02 53 39.06	+13 06 22.2		327
(5952)	1997 01 08.84269	09 08 15.12	+17 01 11.7		327	(7346)	1997 01 08.54258	02 53 39.25	+13 06 24.7	18.6	327
(5952)	1997 01 08.85317	09 08 14.62	+17 01 12.5	16.2	327	(7346)	1997 01 08.55770	02 53 39.44	+13 06 27.1		327
(5952)	1997 01 18.69453	08 59 14.62	+17 18 40.3	16.2	327	(7422)	1997 01 06.43646	01 26 40.44	+06 07 36.2		327
(5952)	1997 01 18.70515	08 59 13.88	+17 18 41.7		327	(7422)	1997 01 06.44733	01 26 41.19	+06 07 42.7	17.9	327
(5952)	1997 01 18.72116	08 59 12.88	+17 18 43.3		327	(7422)	1997 01 06.45780	01 26 41.94	+06 07 48.6		327
(5952)	1997 01 25.75061	08 51 36.12	+17 33 52.0	15.6	327						
(5952)	1997 01 25.75530	08 51 35.88	+17 33 52.7		327						
(5952)	1997 01 25.76002	08 51 35.50	+17 33 53.2		327						

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0.2-m $f/6.0$ reflector + CCD
GSC

1997 AR ₁₆	1997 01 20.75047	12 17 30.22	+06 16 14.0	355
1997 AR ₁₆	1997 01 20.76573	12 17 30.32	+06 16 10.2	355
1997 AR ₁₆	1997 01 25.70051	12 17 47.27	+05 55 12.1	355
1997 AR ₁₆	1997 01 25.71007	12 17 47.28	+05 55 10.7	355
1997 AR ₁₆	1997 01 25.71323	12 17 47.30	+05 55 08.3	355
1997 AR ₁₆	1997 02 01.70736	12 17 01.21	+05 29 08.6	355
1997 AR ₁₆	1997 02 01.71215	12 17 01.13	+05 29 07.6	355
1997 AR ₁₆	1997 02 01.71567	12 17 01.08	+05 29 07.1	355
1997 AR ₁₆	1997 02 11.70120	12 13 27.59	+04 59 09.9	355
1997 AR ₁₆	1997 02 11.70940	12 13 27.34	+04 59 08.1	355
1997 BQ	1997 01 25.64846	11 35 02.89	+64 38 02.9	355
1997 BQ	1997 01 25.65275	11 35 04.97	+64 38 14.3	355
1997 BQ	1997 01 25.65903	11 35 08.27	+64 38 31.9	355
1997 BQ	1997 01 25.66527	11 35 11.67	+64 38 49.1	355
1997 BQ	1997 01 25.67296	11 35 15.47	+64 39 09.3	16.5 V 355
1997 BQ	1997 01 26.52620	11 43 11.45	+65 16 24.6	t 355
1997 BQ	1997 01 26.53059	11 43 14.19	+65 16 37.7	t 355
1997 BQ	1997 01 29.63259	12 16 21.18	+67 22 44.6	355
1997 BQ	1997 01 29.64002	12 16 26.31	+67 23 02.1	355
1997 BQ	1997 01 29.64551	12 16 30.05	+67 23 15.2	355
1997 BQ	1997 01 30.64741	12 28 51.13	+67 59 01.5	355
1997 BQ	1997 01 30.66076	12 29 01.08	+67 59 30.6	355
1997 BQ	1997 01 30.66396	12 29 03.43	+67 59 37.7	355
1997 BR	1997 01 29.57264	10 09 27.03	+29 32 36.0	355
1997 BR	1997 01 29.58125	10 09 26.60	+29 33 02.1	355
1997 BR	1997 01 29.59037	10 09 26.20	+29 33 28.1	355
1997 BR	1997 01 30.60558	10 08 40.89	+30 22 53.3	355
1997 BR	1997 01 30.61034	10 08 40.63	+30 23 06.1	355
1997 BR	1997 01 30.61328	10 08 40.46	+30 23 15.5	355
1997 BR	1997 02 01.65323	10 06 56.24	+32 05 09.7	355
1997 BR	1997 02 01.65676	10 06 56.02	+32 05 20.2	355
1997 BR	1997 02 01.66103	10 06 55.75	+32 05 33.1	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 AC ₁₅	1997 01 16.65086	07 52 19.84	+21 00 13.7	16.8 V 358
1997 AC ₁₅	1997 01 16.66896	07 52 18.66	+21 00 20.6	358
1997 AK ₁₉	1997 01 18.71308	07 47 21.64	+17 14 31.6	16.2 V 358
1997 AK ₁₉	1997 01 18.73657	07 47 19.93	+17 14 35.5	358
1997 AK ₁₉	1997 01 18.73824	07 47 19.84	+17 14 36.3	358
1997 AL ₁₉	1997 01 18.70008	07 48 51.50	+18 12 52.0	15.8 V 358
1997 AL ₁₉	1997 01 18.72295	07 48 49.93	+18 13 00.6	358
1997 AM ₁₉	1997 01 18.70792	07 47 21.34	+18 26 12.3	16.6 V 358
1997 AM ₁₉	1997 01 18.72295	07 47 20.31	+18 26 14.6	358
1997 AE ₂₂	* 1997 01 13.58876	07 55 26.43	+20 38 09.8	17.5 V 358
1997 AE ₂₂	1997 01 13.61373	07 55 24.81	+20 38 15.5	358
1997 AE ₂₂	1997 01 16.65086	07 52 14.40	+20 48 53.6	17.4 V 358
1997 AE ₂₂	1997 01 16.66896	07 52 13.33	+20 48 57.1	358

360 Kuma Kogen Astronomical Observatory

A. Nakamura, Shimo-Hatanokawa, Kuma, Kamiukena-Gun, Ehime-Ken, 791-12

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0.60-m $f/6.0$ Ritchey-Chrétien + CCD

GSC

1991 CS	1997 02 09.79809	12 45 59.40	-23 11 32.0	16.5 V 360
1991 CS	1997 02 09.80417	12 45 59.53	-23 10 51.3	360
1991 CS	1997 02 09.80677	12 45 59.59	-23 10 34.1	360
1994 PC	1997 02 01.51667	05 33 35.24	+19 21 53.3	360
1994 PC	1997 02 09.51840	05 43 27.42	+21 25 47.7	18.5 V 360
1994 PC	1997 02 09.52344	05 43 27.82	+21 25 51.9	360
1994 PC	1997 02 09.53611	05 43 28.78	+21 26 02.0	360
1995 SP ₂	1997 02 04.78472	10 31 58.85	+20 53 41.7	19.2 V r 360
1995 SP ₂	1997 02 04.79097	10 31 58.52	+20 53 44.5	r 360
1995 SP ₂	1997 02 04.79635	10 31 58.23	+20 53 46.4	r 360
1995 SP ₂	1997 02 09.69844	10 27 34.50	+21 30 10.9	19.2 V 360
1995 SP ₂	1997 02 09.70417	10 27 34.13	+21 30 13.5	360
1995 WE ₁	1997 01 31.62066	09 28 46.51	+21 34 41.9	17.9 V 360
1995 WE ₁	1997 01 31.62986	09 28 46.04	+21 34 44.4	360
1995 WE ₁	1997 01 31.63611	09 28 45.73	+21 34 46.2	360
1996 RG ₃	1997 02 04.85990	16 02 10.57	-21 36 06.3	18.9 V 360
1996 RG ₃	1997 02 04.86406	16 02 10.18	-21 36 02.2	360
1996 RG ₃	1997 02 04.86927	16 02 09.65	-21 35 55.9	360
1996 RG ₃	1997 02 09.84931	15 55 39.33	-20 06 28.3	19.0 V 360
1996 RG ₃	1997 02 09.85417	15 55 38.92	-20 06 23.4	360
1996 RG ₃	1997 02 09.85938	15 55 38.49	-20 06 18.2	360
1996 TO ₅	1997 02 09.44672	03 02 16.32	-10 53 57.9	18.5 V 360
1996 TO ₅	1997 02 09.45139	03 02 17.40	-10 53 50.1	360
1996 TO ₅	1997 02 09.45538	03 02 18.29	-10 53 42.7	360
1996 TE ₁₁	1997 02 09.49340	05 29 00.64	-19 45 29.1	17.5 V 360
1996 TE ₁₁	1997 02 09.49653	05 29 00.99	-19 45 22.4	360
1996 TE ₁₁	1997 02 09.49965	05 29 01.37	-19 45 16.2	360
1997 AX ₁₂	1997 01 31.58090	08 47 08.95	+22 39 39.0	360
1997 AX ₁₂	1997 01 31.58472	08 47 08.75	+22 39 40.8	360
1997 AX ₁₂	1997 01 31.58854	08 47 08.56	+22 39 42.9	360
1997 AX ₁₂	1997 02 09.58785	08 40 45.48	+23 45 32.7	18.4 V 360
1997 AX ₁₂	1997 02 09.59288	08 40 45.28	+23 45 34.5	360
1997 AX ₁₂	1997 02 09.59792	08 40 45.07	+23 45 36.5	360
1997 AW ₁₇	1997 01 31.60382	09 18 28.85	+19 03 07.0	360
1997 AW ₁₇	1997 01 31.60920	09 18 28.53	+19 03 08.8	360
1997 AW ₁₇	1997 01 31.61424	09 18 28.20	+19 03 10.6	360
1997 AW ₁₇	1997 02 04.69740	09 14 19.93	+19 25 23.3	17.7 V 360
1997 AW ₁₇	1997 02 04.70260	09 14 19.59	+19 25 25.0	360
1997 AQ ₁₈	1997 01 30.45972	07 15 58.92	+16 47 20.2	360
1997 AQ ₁₈	1997 01 30.46493	07 15 58.13	+16 47 16.6	360
1997 AQ ₁₈	1997 01 30.46927	07 15 57.50	+16 47 13.3	360
1997 AQ ₁₈	1997 02 09.55208	06 57 29.58	+15 02 27.8	19.5 V 360
1997 AQ ₁₈	1997 02 09.55694	06 57 29.13	+15 02 25.6	360
1997 AQ ₁₈	1997 02 09.57604	06 57 27.55	+15 02 14.8	360
1997 BQ	1997 02 09.77101	15 12 17.45	+69 36 34.4	17.3 V 360
1997 BQ	1997 02 09.77431	15 12 20.78	+69 36 30.4	360
1997 BQ	1997 02 09.77708	15 12 23.58	+69 36 26.9	360

1997 BR	1997 01 31.66424	10 07 48.91	+31 15 20.8		360
1997 BR	1997 01 31.66719	10 07 48.73	+31 15 29.8		360
1997 BR	1997 01 31.67500	10 07 48.26	+31 15 53.2		360
1997 BR	1997 02 09.75990	09 56 59.33	+39 13 18.3	17.5 V	360
1997 BR	1997 02 09.76250	09 56 59.08	+39 13 26.6		360
1997 BR	1997 02 09.76458	09 56 58.85	+39 13 33.1		360
1997 BT ₆	* 1997 01 31.62066	09 28 38.47	+21 30 14.2	19.7 V	360
1997 BT ₆	1997 01 31.62986	09 28 37.80	+21 30 15.2		360
1997 BT ₆	1997 01 31.63611	09 28 37.32	+21 30 16.0		360
1997 BT ₆	1997 02 04.72639	09 23 46.37	+21 36 56.8		360
1997 BT ₆	1997 02 04.73177	09 23 46.01	+21 36 57.3	19.7 V	360
1997 BT ₆	1997 02 04.73681	09 23 45.67	+21 36 57.8		360
1997 BT ₆	1997 02 09.64063	09 17 51.23	+21 42 29.9	19.8 V	360
1997 BT ₆	1997 02 09.64635	09 17 50.78	+21 42 29.6		360
1997 BT ₆	1997 02 09.65208	09 17 50.34	+21 42 30.5		360
1997 BT ₆	1997 02 13.65945	09 13 04.67	+21 44 34.0		360
1997 BT ₆	1997 02 13.67075	09 13 03.93	+21 44 34.4		360
1997 BT ₆	1997 02 13.68264	09 13 03.02	+21 44 34.0		360
1997 CO ₅	1997 02 09.62205	09 04 03.03	+17 09 17.6	17.5 V	360
1997 CO ₅	1997 02 09.63090	09 04 02.19	+17 09 05.5		360
1997 CO ₅	1997 02 09.63490	09 04 01.82	+17 08 59.7		360
1997 CZ ₅	1997 02 09.46458	04 32 53.50	+18 44 17.3	15.3 V	360
1997 CZ ₅	1997 02 09.46736	04 32 53.91	+18 44 12.7		360
1997 CZ ₅	1997 02 09.46927	04 32 54.19	+18 44 09.4		360
1997 CT ₁₉	1997 02 13.69514	09 16 34.13	+13 01 49.9	17.5 V	360
1997 CT ₁₉	1997 02 13.70174	09 16 33.73	+13 01 51.8		360
1997 CT ₁₉	1997 02 13.71215	09 16 33.12	+13 01 54.7		360
1997 CT ₁₉	1997 02 14.65104	09 15 39.82	+13 06 08.4		360
1997 CT ₁₉	1997 02 14.65816	09 15 39.35	+13 06 10.5		360
1997 CS ₂₁	* 1997 02 09.67882	09 54 45.12	+15 16 33.3	19.9 V	360
1997 CS ₂₁	1997 02 09.68507	09 54 44.75	+15 16 35.0		360
1997 CS ₂₁	1997 02 09.69149	09 54 44.33	+15 16 36.7		360
1997 CS ₂₁	1997 02 13.72604	09 50 52.49	+15 34 20.3		360
1997 CS ₂₁	1997 02 13.73090	09 50 52.20	+15 34 21.6		360
1997 CS ₂₁	1997 02 13.73663	09 50 51.88	+15 34 23.3		360
1997 CT ₂₁	* 1997 02 09.71823	10 24 03.37	+16 12 05.1	19.5 V	360
1997 CT ₂₁	1997 02 09.72500	10 24 02.98	+16 12 08.4		360
1997 CT ₂₁	1997 02 09.73090	10 24 02.67	+16 12 10.6		360
1997 CT ₂₁	1997 02 13.74340	10 20 22.63	+16 39 24.9		360
1997 CT ₂₁	1997 02 13.74826	10 20 22.32	+16 39 27.2		360
1997 CT ₂₁	1997 02 13.75365	10 20 22.03	+16 39 29.4		360
(5693)	1997 02 04.77500	10 15 00.94	+20 20 50.4	17.3 V	360
(5693)	1997 02 04.77847	10 15 00.33	+20 20 54.3		360

367 Yatsuka

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

0.26-m $f/6.0$ reflector + CCD

GSC

1988 BC	1997 02 14.58009	10 49 40.51	+30 52 47.0	15.3 V	367
1988 BC	1997 02 14.58391	10 49 40.32	+30 52 49.0		367
1992 CU	1997 02 14.54722	09 07 34.32	+29 15 00.7	16.1 V	367
1992 CU	1997 02 14.55104	09 07 34.15	+29 15 01.7		367
1992 UX ₅	1997 02 14.55556	09 37 39.83	+11 14 00.1	15.9 V	367

1992 UX ₅	1997 02 14.55937	09 37 39.60	+11 14 02.3		367
1992 UM ₆	1997 02 14.56354	09 33 07.19	+11 57 53.5	16.0 V	367
1992 UM ₆	1997 02 14.56736	09 33 06.95	+11 57 54.5		367

369 Chichibu

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

Observer N. Sato

0.31-m $f/4.0$ reflector + CCD

GSC

1977 EL	1997 02 09.78336	11 59 33.97	+05 47 15.8	15.9 V	369
1977 EL	1997 02 09.79569	11 59 33.74	+05 47 20.8		369
1977 EL	1997 02 09.80803	11 59 33.51	+05 47 26.2		369
1981 TZ	1997 01 30.49802	07 02 21.97	+34 43 30.8	17.0 V	369
1981 TZ	1997 01 30.51373	07 02 21.17	+34 43 28.8		369
1981 TZ	1997 02 01.47784	07 00 48.04	+34 38 47.7	17.0 V	369
1981 TZ	1997 02 01.49536	07 00 47.18	+34 38 45.7		369
1981 TZ	1997 02 06.43638	06 57 19.13	+34 25 08.0	17.0 V	369
1981 TZ	1997 02 06.45909	06 57 18.24	+34 25 05.8		369
1987 SC ₁	1997 02 06.53671	09 21 47.71	+15 09 11.1	17.8 V	369
1987 SC ₁	1997 02 06.57582	09 21 45.36	+15 09 27.6		369
1987 SC ₁	1997 02 09.57839	09 18 52.34	+15 30 03.0	17.3 V	369
1987 SC ₁	1997 02 09.60146	09 18 50.97	+15 30 11.3		369
1993 AA	1997 02 13.56676	08 51 00.70	+10 41 21.0	17.0 V	369
1993 AA	1997 02 13.58285	08 50 59.80	+10 41 25.5		369
1993 FO ₈	1997 01 30.61813	08 18 35.63	+24 12 17.6	17.3 V	369
1993 FO ₈	1997 01 30.64538	08 18 33.91	+24 12 24.2		369
1993 FO ₈	1997 02 01.50753	08 16 50.84	+24 20 00.2	17.2 V	369
1993 FO ₈	1997 02 01.52128	08 16 50.13	+24 20 04.6		369
1993 FO ₈	1997 02 01.52611	08 16 49.79	+24 20 05.4		369
1993 FT ₁₄	1997 01 09.67470	10 48 14.60	+08 37 04.5	17.0 V	369
1993 FT ₁₄	1997 01 09.71808	10 48 15.21	+08 37 10.9		369
1993 FU ₃₃	1997 01 30.62950	08 16 32.53	+26 59 47.0	16.7 V	369
1993 FU ₃₃	1997 01 30.65752	08 16 30.79	+26 59 53.4		369
1995 UW ₆	1997 01 18.56394	07 13 13.76	+34 36 01.3	17.9 V	369
1995 UW ₆	1997 01 18.58131	07 13 12.88	+34 36 03.0		369
1995 UW ₆	1997 01 30.49802	07 02 55.52	+34 36 04.1	18.0 V	369
1995 UW ₆	1997 01 30.51373	07 02 54.77	+34 36 02.5		369
1995 WX ₁	1997 02 09.54730	08 31 34.83	-02 46 38.3	16.5 V	369
1995 WX ₁	1997 02 09.57411	08 31 33.56	-02 46 32.9		369
1995 WV ₅	1997 02 06.49806	08 49 05.45	+03 24 32.7	17.9 V	369
1995 WV ₅	1997 02 06.50584	08 49 05.06	+03 24 33.9		369
1995 WV ₅	1997 02 06.51106	08 49 04.85	+03 24 34.4		369
1995 WV ₅	1997 02 09.53368	08 46 42.08	+03 34 20.2	18.0 V	369
1995 WV ₅	1997 02 09.53900	08 46 41.75	+03 34 21.1		369
1995 WV ₅	1997 02 09.56353	08 46 40.61	+03 34 24.1		369
1996 VO ₄	1997 01 28.42519	02 57 39.37	+33 04 57.8	18.1 V	369
1996 VO ₄	1997 01 28.44510	02 57 40.46	+33 05 04.6		369
1996 WZ ₂	1997 01 28.41811	04 25 38.62	+26 29 49.9	18.0 V	369
1996 WZ ₂	1997 01 28.43896	04 25 38.95	+26 29 51.5		369
1996 WZ ₂	1997 01 28.45778	04 25 39.22	+26 29 54.5		369
1996 XD ₂₆	1997 01 30.42819	06 32 29.30	+27 17 55.2	17.5 V	369
1996 XD ₂₆	1997 01 30.44644	06 32 28.65	+27 17 57.9		369
1996 XZ ₃₁	1997 02 06.42604	06 11 28.10	+27 01 48.2	18.0 V	369

1996 XZ ₃₁	1997 02 06.44683	06 11 27.56	+27 01 51.4		369	1997 AC ₁	1997 02 01.51676	08 10 36.51	+24 03 55.1	17.6 V	369
1996 XD ₃₂	1997 01 30.46455	07 01 35.68	+38 30 01.7	16.5 V	369	1997 AC ₁	1997 02 01.53409	08 10 35.50	+24 03 58.1		369
1996 XD ₃₂	1997 01 30.48179	07 01 34.74	+38 30 05.0		369	1997 AC ₁	1997 02 09.49215	08 03 01.86	+24 22 23.8	17.8 V	369
1996 XD ₃₂	1997 02 09.44582	06 54 36.65	+38 46 51.6	16.8 V	369	1997 AC ₁	1997 02 09.50775	08 03 01.06	+24 22 25.1	16.5 V	369
1996 XD ₃₂	1997 02 09.47581	06 54 35.65	+38 46 52.5		369	1997 AH ₁	1997 01 30.63753	08 15 49.52	+25 13 52.3	18.1 V	369
1996 XE ₃₂	1997 01 30.49802	07 02 13.86	+34 29 56.5	17.5 V	369	1997 AH ₁	1997 01 30.66543	08 15 47.81	+25 14 02.7		369
1996 XE ₃₂	1997 01 30.50985	07 02 13.35	+34 29 54.5	17.5 V	369	1997 AM ₁	1997 01 30.62203	08 17 27.29	+24 54 57.4	17.9 V	369
1996 XE ₃₂	1997 01 30.51373	07 02 13.23	+34 29 54.3		369	1997 AM ₁	1997 01 30.64935	08 17 25.65	+24 55 03.7		369
1996 XE ₃₂	1997 01 30.52580	07 02 12.58	+34 29 51.9		369	1997 AU ₃	1997 02 06.39049	03 43 25.61	+31 38 29.6	17.5 V	369
1996 XE ₃₂	1997 02 01.48171	07 00 52.50	+34 26 16.2	17.6 V	369	1997 AU ₃	1997 02 06.39627	03 43 25.89	+31 38 27.9		369
1996 XE ₃₂	1997 02 01.49919	07 00 51.76	+34 26 14.6		369	1997 AU ₃	1997 02 06.40198	03 43 26.15	+31 38 26.4		369
1996 XE ₃₂	1997 02 09.42497	06 56 36.51	+34 06 31.2	17.8 V	369	1997 AA ₅	1997 01 30.61813	08 17 46.70	+24 08 31.5	17.7 V	369
1996 XE ₃₂	1997 02 09.45571	06 56 35.69	+34 06 25.9		369	1997 AA ₅	1997 01 30.64538	08 17 44.98	+24 08 40.4		369
1996 YO ₂	1997 01 02.36281	03 20 07.15	+17 49 19.6	17.7 V	369	1997 AB ₅	1997 01 18.61788	07 16 32.28	+34 38 49.1	16.6 V	369
1996 YO ₂	1997 01 02.38181	03 20 06.91	+17 49 19.0		369	1997 AB ₅	1997 01 18.63661	07 16 31.04	+34 38 50.5		369
1996 YO ₂	1997 01 02.39648	03 20 06.76	+17 49 19.8		369	1997 AB ₅	1997 01 30.53897	07 05 36.39	+34 30 36.3	17.0 V	369
1996 YO ₂	1997 02 01.38575	03 27 06.84	+18 46 55.3	18.1 V	369	1997 AB ₅	1997 01 30.56167	07 05 35.43	+34 30 33.0		369
1996 YO ₂	1997 02 01.40587	03 27 07.55	+18 46 58.1		369	1997 AE ₅	1997 01 30.57539	08 13 17.00	+22 10 49.4	17.0 V	369
1996 YO ₂	1997 02 01.41939	03 27 07.99	+18 47 02.5		369	1997 AE ₅	1997 01 30.59594	08 13 15.46	+22 10 46.1	I	369
1996 YV ₂	1997 01 30.46931	06 57 49.13	+22 59 41.1	18.0 V	369	1997 AE ₅	1997 01 30.60025	08 13 15.12	+22 10 44.5	I	369
1996 YV ₂	1997 01 30.48566	06 57 48.53	+22 59 39.0		369	1997 AE ₅	1997 02 09.49631	08 02 46.35	+21 50 11.7	17.8 V	369
1996 YW ₂	1997 01 30.47314	06 55 34.87	+23 24 06.8	16.8 V	369	1997 AE ₅	1997 02 09.51171	08 02 45.43	+21 50 08.9		369
1996 YW ₂	1997 01 30.48947	06 55 34.00	+23 24 05.7		369	1997 AE ₅	1997 02 13.49204	07 59 08.47	+21 40 06.9	17.5 V	369
1996 YW ₂	1997 02 09.45031	06 48 05.15	+23 14 42.8	17.0 V	369	1997 AE ₅	1997 02 13.50071	07 59 07.95	+21 40 05.5		369
1996 YW ₂	1997 02 09.47981	06 48 04.01	+23 14 40.5		369	1997 AE ₅	1997 02 13.50874	07 59 07.59	+21 40 03.3		369
1996 YX ₂	1997 02 06.43060	07 01 42.40	+24 17 26.5	18.1 V	369	1997 AF ₅	1997 01 30.63354	08 16 02.87	+25 29 12.9	18.0 V	369
1996 YX ₂	1997 02 06.45185	07 01 41.72	+24 17 26.3		369	1997 AF ₅	1997 01 30.66149	08 16 00.93	+25 29 21.1		369
1996 YX ₂	1997 02 13.45053	06 59 05.09	+24 19 44.1	18.1 V	369	1997 AR ₆	1997 02 06.40870	04 40 08.21	+20 32 21.0	17.5 V	369
1996 YX ₂	1997 02 13.47052	06 59 04.60	+24 19 44.1		369	1997 AR ₆	1997 02 06.41476	04 40 08.46	+20 32 21.9		369
1996 YY ₂	1997 01 30.55752	07 06 17.58	+24 36 56.5	17.4 V	369	1997 AR ₆	1997 02 06.41963	04 40 08.67	+20 32 20.2		369
1996 YY ₂	1997 02 01.46830	07 05 00.82	+24 39 08.3	17.5 V	369	1997 AU ₆	1997 02 09.52775	09 12 25.75	+17 19 09.7	16.8 V	369
1996 YY ₂	1997 02 01.48632	07 05 00.06	+24 39 08.9		369	1997 AU ₆	1997 02 09.55656	09 12 24.21	+17 19 17.4		369
1996 YY ₂	1997 02 13.45428	06 58 50.23	+24 48 12.4	17.7 V	369	1997 AV ₆	1997 01 18.72473	09 33 15.43	+15 34 43.7	17.7 V	369
1996 YY ₂	1997 02 13.47443	06 58 49.71	+24 48 13.2		369	1997 AV ₆	1997 01 18.73823	09 33 14.77	+15 34 49.3		369
1996 YA ₃	1997 01 28.47980	06 19 11.39	+25 18 12.4	18.3 V	369	1997 AV ₆	1997 01 18.75076	09 33 14.17	+15 34 55.3		369
1996 YA ₃	1997 01 28.48647	06 19 11.31	+25 18 09.0		369	1997 AV ₆	1997 02 06.56029	09 16 31.42	+18 01 46.4	17.2 V	369
1996 YB ₃	1997 01 30.43756	06 21 51.16	+23 09 31.2	17.0 V	369	1997 AV ₆	1997 02 06.60352	09 16 28.76	+18 02 06.8		369
1996 YB ₃	1997 01 30.45470	06 21 50.56	+23 09 26.4		369	1997 AV ₆	1997 02 09.52383	09 13 38.11	+18 24 43.6	17.5 V	369
1996 YD ₃	1997 01 30.50569	07 02 00.71	+34 09 02.4	17.9 V	369	1997 AV ₆	1997 02 09.55220	09 13 36.37	+18 24 56.5		369
1996 YD ₃	1997 01 30.52149	07 01 59.74	+34 09 00.2		369	1997 AP ₁₄	1997 02 01.58716	09 24 41.56	+14 54 32.9	17.5 V	369
1996 YD ₃	1997 02 09.44133	06 55 18.11	+33 44 44.7	17.8 V	369	1997 AP ₁₄	1997 02 01.59950	09 24 40.85	+14 54 36.0		369
1996 YD ₃	1997 02 09.47124	06 55 17.14	+33 44 38.7		369	1997 AP ₁₄	1997 02 01.61184	09 24 40.18	+14 54 39.6		369
1997 AM	1997 01 30.64142	08 13 58.22	+23 48 17.8	17.7 V	369	1997 AP ₁₄	1997 02 09.59322	09 17 13.20	+15 32 11.9	17.5 V	369
1997 AM	1997 01 30.66938	08 13 56.64	+23 48 25.6		369	1997 AP ₁₄	1997 02 09.61623	09 17 11.97	+15 32 17.3		369
1997 AV	1997 02 09.49631	08 02 18.73	+21 49 27.9	17.0 V	369	1997 AP ₁₄	1997 02 13.55868	09 13 35.59	+15 50 08.5	17.6 V	369
1997 AV	1997 02 09.51171	08 02 17.93	+21 49 25.5		369	1997 AP ₁₄	1997 02 13.56266	09 13 35.35	+15 50 09.9		369
1997 AV	1997 02 13.49204	07 59 10.77	+21 46 15.0	17.0 V	369	1997 AP ₁₄	1997 02 13.57486	09 13 34.71	+15 50 12.9		369
1997 AV	1997 02 13.50071	07 59 10.35	+21 46 14.8		369	1997 AP ₁₄	1997 02 13.57854	09 13 34.46	+15 50 14.8		369
1997 AV	1997 02 13.50874	07 59 09.97	+21 46 15.1		369	1997 AT ₁₈	1997 01 30.53034	07 06 51.00	+34 05 50.0	17.5 V	369
1997 AA ₁	1997 02 06.46957	07 41 39.90	+24 01 32.7	17.4 V	369	1997 AT ₁₈	1997 01 30.55306	07 06 49.87	+34 05 47.3		369
1997 AA ₁	1997 02 06.47534	07 41 39.68	+24 01 32.1		369	1997 AT ₁₈	1997 02 13.45822	06 58 23.80	+33 25 51.4	17.5 V	369
1997 AC ₁	1997 01 30.58380	08 12 34.46	+23 58 27.6	17.6 V	369	1997 AT ₁₈	1997 02 13.47839	06 58 23.13	+33 25 48.7		369

1997 AU ₁₈	1997 01 30.62576	08 17 15.61	+25 50 15.7	17.7 V	369	1997 CV ₄	1997 02 06.61446	09 18 37.93	+15 26 26.7		369
1997 AU ₁₈	1997 01 30.65374	08 17 13.77	+25 50 26.0		369	1997 CV ₄	1997 02 09.59689	09 15 00.08	+15 22 26.9	17.4 V	369
1997 AV ₁₈	1997 01 30.58784	08 11 11.99	+29 02 43.7	17.9 V	369	1997 CV ₄	1997 02 09.61986	09 14 58.36	+15 22 25.3		369
1997 AV ₁₈	1997 01 30.61346	08 11 09.86	+29 03 09.1		369	1997 CJ ₅	* 1997 02 01.62435	09 25 47.74	+14 47 23.6	17.7 V	369
1997 AW ₁₈	1997 01 30.58012	08 12 34.20	+23 40 18.5	16.5 V	369	1997 CJ ₅	1997 02 01.63669	09 25 47.02	+14 47 25.8		369
1997 AW ₁₈	1997 01 30.60463	08 12 32.43	+23 40 18.1		369	1997 CJ ₅	1997 02 01.64903	09 25 46.26	+14 47 29.7		369
1997 AW ₁₈	1997 02 09.50008	08 02 03.32	+23 31 20.6	17.0 V	369	1997 CJ ₅	1997 02 06.59152	09 20 41.42	+15 10 16.7	17.7 V	369
1997 AW ₁₈	1997 02 09.51553	08 02 02.38	+23 31 19.6		369	1997 CJ ₅	1997 02 06.61005	09 20 40.19	+15 10 21.3		369
1997 AZ ₂₁	1997 02 06.54074	09 21 18.85	+16 50 41.2	17.5 V	369	1997 CJ ₅	1997 02 09.58958	09 17 33.40	+15 24 09.0	17.7 V	369
1997 AZ ₂₁	1997 02 06.58670	09 21 16.48	+16 50 51.1		369	1997 CJ ₅	1997 02 09.61258	09 17 31.92	+15 24 14.3		369
1997 AZ ₂₁	1997 02 09.58578	09 18 48.44	+17 01 48.8	17.5 V	369	1997 CJ ₅	1997 02 13.56266	09 13 25.54	+15 42 08.9	17.7 V	369
1997 AZ ₂₁	1997 02 09.60881	09 18 47.26	+17 01 53.3		369	1997 CJ ₅	1997 02 13.57854	09 13 24.48	+15 42 14.1		369
1997 AA ₂₂	1997 01 30.50182	07 02 20.14	+33 45 51.4	17.7 V	369	1997 CK ₅	* 1997 02 01.62844	09 26 02.06	+15 09 41.9	17.9 V	369
1997 AA ₂₂	1997 01 30.51773	07 02 19.33	+33 45 48.1		369	1997 CK ₅	1997 02 01.64078	09 26 01.38	+15 09 42.3		369
1997 AA ₂₂	1997 02 09.43306	06 56 05.76	+33 07 10.3	17.8 V	369	1997 CK ₅	1997 02 01.65311	09 26 00.72	+15 09 43.5		369
1997 AA ₂₂	1997 02 09.46375	06 56 04.85	+33 07 03.3		369	1997 CK ₅	1997 02 06.53671	09 21 35.83	+15 17 18.3	17.7 V	369
1997 AB ₂₂	1997 01 30.62950	08 17 24.00	+26 56 17.9	18.2 V	369	1997 CK ₅	1997 02 06.57582	09 21 33.58	+15 17 22.0		369
1997 AB ₂₂	1997 01 30.65752	08 17 22.50	+26 56 32.7		369	1997 CK ₅	1997 02 09.58207	09 18 49.51	+15 21 56.9	18.0 V	369
1997 BY ₄	* 1997 01 30.50985	07 02 02.99	+34 21 46.7	17.0 V	369	1997 CK ₅	1997 02 09.60510	09 18 48.23	+15 21 58.6		369
1997 BY ₄	1997 01 30.52580	07 02 02.20	+34 21 48.1		369	1997 CL ₅	* 1997 02 01.70281	09 29 47.78	+15 14 37.7	17.5 V	369
1997 BY ₄	1997 02 01.48171	07 00 27.18	+34 23 57.3	17.2 V	369	1997 CL ₅	1997 02 01.71515	09 29 47.07	+15 14 43.9		369
1997 BY ₄	1997 02 01.49919	07 00 26.33	+34 23 58.3		369	1997 CL ₅	1997 02 01.72749	09 29 46.40	+15 14 47.5		369
1997 BY ₄	1997 02 06.43638	06 57 02.46	+34 26 23.5	17.2 V	369	1997 CL ₅	1997 02 06.53299	09 25 26.90	+15 43 37.0	17.5 V	369
1997 BY ₄	1997 02 06.45909	06 57 01.62	+34 26 23.4		369	1997 CL ₅	1997 02 06.56802	09 25 24.93	+15 43 49.0		369
1997 BY ₄	1997 02 09.43766	06 55 24.82	+34 25 56.6	17.2 V	369	1997 CL ₅	1997 02 06.57212	09 25 24.69	+15 43 50.9		369
1997 BY ₄	1997 02 09.46747	06 55 23.97	+34 25 54.8		369	1997 CL ₅	1997 02 09.63128	09 22 33.56	+16 02 25.0	17.5 V	369
1997 BY ₄	1997 02 13.46223	06 53 46.46	+34 23 20.8	17.5 V	369	1997 CL ₅	1997 02 09.64663	09 22 32.62	+16 02 31.0		369
1997 BY ₄	1997 02 13.48231	06 53 45.98	+34 23 20.7		369	1997 CL ₅	1997 02 13.59816	09 18 50.64	+16 26 17.1	17.5 V	369
1997 BZ ₄	* 1997 01 30.54295	07 05 43.87	+24 25 43.4	17.0 V	369	1997 CL ₅	1997 02 13.61757	09 18 49.49	+16 26 24.2		369
1997 BZ ₄	1997 01 30.56623	07 05 43.09	+24 25 45.7		369	1997 CM ₅	* 1997 02 01.70690	09 30 27.37	+15 41 58.1	17.7 V	369
1997 BZ ₄	1997 02 01.47360	07 04 24.30	+24 28 44.3	17.0 V	369	1997 CM ₅	1997 02 01.71924	09 30 26.76	+15 42 02.5		369
1997 BZ ₄	1997 02 01.49046	07 04 23.58	+24 28 45.1		369	1997 CM ₅	1997 02 06.52546	09 26 19.51	+16 09 26.1	17.3 V	369
1997 BA ₅	* 1997 01 30.63753	08 16 39.83	+25 12 46.6	17.5 V	369	1997 CM ₅	1997 02 06.52933	09 26 19.30	+16 09 27.1		369
1997 BA ₅	1997 01 30.66543	08 16 37.71	+25 12 48.0		369	1997 CM ₅	1997 02 06.56440	09 26 17.43	+16 09 38.3		369
1997 BA ₅	1997 02 01.51203	08 14 23.28	+25 13 49.0	17.5 V	369	1997 CV ₁₆	* 1997 02 06.52546	09 26 32.86	+16 15 01.6	17.8 V	369
1997 BA ₅	1997 02 01.53012	08 14 21.84	+25 13 51.1		369	1997 CV ₁₆	1997 02 06.52933	09 26 32.53	+16 15 03.6		369
1997 BG ₈	1997 02 09.63128	09 23 18.41	+16 00 33.6	17.0 V	369	1997 CV ₁₆	1997 02 06.56440	09 26 30.73	+16 15 06.3		369
1997 BG ₈	1997 02 09.64663	09 23 17.33	+16 00 37.4		369	1997 CV ₁₆	1997 02 09.62762	09 23 45.15	+16 20 46.6	17.9 V	369
1997 BG ₈	1997 02 13.60188	09 18 42.00	+16 14 08.1	17.2 V	369	1997 CV ₁₆	1997 02 09.64284	09 23 44.34	+16 20 46.5		369
1997 BG ₈	1997 02 13.62130	09 18 40.62	+16 14 11.7		369	1997 CV ₁₆	1997 02 13.58703	09 20 13.53	+16 27 32.3	18.2 V	369
1997 BH ₈	* 1997 01 18.66929	08 26 12.38	+23 36 03.2	17.5 V	369	1997 CV ₁₆	1997 02 13.60618	09 20 12.44	+16 27 36.1		369
1997 BH ₈	1997 01 18.69222	08 26 10.92	+23 36 03.7		369	1997 CW ₁₆	* 1997 02 06.53299	09 24 59.70	+15 39 52.1	17.8 V	369
1997 BH ₈	1997 01 18.71398	08 26 09.48	+23 36 05.3		369	1997 CW ₁₆	1997 02 06.56802	09 24 57.73	+15 40 15.3		369
1997 BH ₈	1997 01 30.64142	08 13 28.57	+23 40 23.7	17.5 V	369	1997 CW ₁₆	1997 02 06.57212	09 24 57.52	+15 40 18.4		369
1997 BH ₈	1997 01 30.66938	08 13 26.83	+23 40 24.0		369	1997 CW ₁₆	1997 02 09.63501	09 22 15.24	+16 13 51.6	17.9 V	369
1997 BH ₈	1997 02 09.48850	08 03 59.08	+23 36 01.6	17.7 V	369	1997 CW ₁₆	1997 02 09.65025	09 22 14.44	+16 14 02.9		369
1997 BH ₈	1997 02 09.50411	08 03 58.25	+23 36 00.8		369	1997 CW ₁₆	1997 02 13.59446	09 18 48.40	+16 56 21.9	18.1 V	369
1997 BH ₈	1997 02 09.51961	08 03 57.41	+23 35 59.3		369	1997 CW ₁₆	1997 02 13.61381	09 18 47.39	+16 56 33.9		369
1997 CV ₄	1997 02 01.59534	09 24 49.22	+15 32 47.4	17.5 V	369	1997 CX ₁₆	* 1997 02 06.66617	11 00 42.87	+01 31 34.1	17.8 V	369
1997 CV ₄	1997 02 01.60767	09 24 48.24	+15 32 47.4		369	1997 CX ₁₆	1997 02 06.67851	11 00 42.35	+01 31 35.2		369
1997 CV ₄	1997 02 01.62001	09 24 47.32	+15 32 45.5		369	1997 CX ₁₆	1997 02 06.69084	11 00 41.87	+01 31 33.5		369
1997 CV ₄	1997 02 06.59925	09 18 39.10	+15 26 27.7	17.3 V	369	1997 CX ₁₆	1997 02 09.67740	10 58 37.85	+01 32 17.9	18.0 V	369

1997 CX ₁₆	1997 02 09.69436	10 58 37.10	+01 32 19.0		369
1997 CX ₁₆	1997 02 13.63490	10 55 40.46	+01 34 50.5	17.8 V	369
1997 CX ₁₆	1997 02 13.64731	10 55 39.86	+01 34 50.6		369
1997 CY ₁₆	* 1997 02 06.66617	11 01 06.26	+01 33 25.1	17.4 V	369
1997 CY ₁₆	1997 02 06.67851	11 01 05.80	+01 33 30.2		369
1997 CY ₁₆	1997 02 06.69084	11 01 05.43	+01 33 33.4		369
1997 CY ₁₆	1997 02 09.67356	10 59 27.16	+01 50 23.4	17.5 V	369
1997 CY ₁₆	1997 02 09.69063	10 59 26.52	+01 50 29.8		369
1997 CY ₁₆	1997 02 13.63124	10 57 05.56	+02 14 29.9	17.5 V	369
1997 CY ₁₆	1997 02 13.64348	10 57 05.08	+02 14 33.8		369
1997 CZ ₁₆	* 1997 02 06.76956	11 06 40.76	+01 01 06.6	17.5 V	369
1997 CZ ₁₆	1997 02 06.78190	11 06 40.16	+01 01 09.2		369
1997 CZ ₁₆	1997 02 06.79424	11 06 39.63	+01 01 08.3		369
1997 CZ ₁₆	1997 02 09.66439	11 04 25.93	+01 02 21.2	17.5 V	369
1997 CZ ₁₆	1997 02 09.68137	11 04 25.04	+01 02 21.5		369
1997 CZ ₁₆	1997 02 13.62712	11 01 01.56	+01 06 22.6	17.5 V	369
1997 CZ ₁₆	1997 02 13.63924	11 01 00.94	+01 06 23.7		369
1997 CR ₂₁	* 1997 02 09.62399	09 23 31.81	+16 37 18.2	17.0 V	369
1997 CR ₂₁	1997 02 09.63914	09 23 30.89	+16 37 23.1		369
1997 CR ₂₁	1997 02 13.59069	09 19 42.50	+16 59 58.1	17.2 V	369
1997 CR ₂₁	1997 02 13.60994	09 19 41.36	+17 00 05.1		369
1997 CU ₂₁	* 1997 02 09.74617	11 58 05.36	+05 38 48.4	17.5 V	369
1997 CU ₂₁	1997 02 09.75851	11 58 05.02	+05 38 50.6		369
1997 CU ₂₁	1997 02 09.77084	11 58 04.69	+05 38 54.6		369
1997 CU ₂₁	1997 02 13.66024	11 56 11.47	+05 59 27.6	17.5 V	369
1997 CU ₂₁	1997 02 13.67698	11 56 10.92	+05 59 33.4		369
1997 CV ₂₁	* 1997 02 09.77519	11 59 51.55	+04 55 23.7	17.9 V	369
1997 CV ₂₁	1997 02 09.78752	11 59 51.21	+04 55 26.0		369
1997 CV ₂₁	1997 02 09.79986	11 59 50.85	+04 55 27.7		369
1997 CV ₂₁	1997 02 13.65568	11 57 55.00	+05 06 53.3	17.9 V	369
1997 CV ₂₁	1997 02 13.67330	11 57 54.35	+05 06 57.8		369
1997 CW ₂₁	* 1997 02 09.78336	12 00 02.76	+05 43 14.8	17.9 V	369
1997 CW ₂₁	1997 02 09.79569	12 00 02.50	+05 43 17.1		369
1997 CW ₂₁	1997 02 09.80803	12 00 02.20	+05 43 21.0		369
1997 CW ₂₁	1997 02 13.65198	11 58 30.94	+06 03 02.4	18.0 V	369
1997 CW ₂₁	1997 02 13.66831	11 58 30.63	+06 03 07.0		369
7063 P-L	1996 12 29.45089	03 21 20.88	+17 49 54.6	17.7 V	369
7063 P-L	1996 12 29.47617	03 21 20.53	+17 49 50.5		369
7063 P-L	1996 12 29.50197	03 21 20.13	+17 49 47.3		369
(987)	1997 02 13.58703	09 19 31.86	+16 31 31.2	14.5 V	369
(987)	1997 02 13.60618	09 19 30.96	+16 31 33.5		369
(1625)	1997 02 06.62081	10 59 20.85	+00 49 17.4	14.8 V	369
(1625)	1997 02 06.63315	10 59 20.33	+00 49 16.2		369
(1625)	1997 02 06.64549	10 59 19.81	+00 49 15.1		369
(2620)	1997 02 09.73800	11 57 52.43	+04 55 32.4	17.5 V	369
(2620)	1997 02 09.75034	11 57 52.18	+04 55 38.8		369
(2620)	1997 02 09.76267	11 57 51.79	+04 55 40.4		369
(3314)	1997 01 30.53034	07 07 24.22	+34 08 25.6	15.5 V	369
(3314)	1997 01 30.55306	07 07 22.87	+34 08 21.0		369
(3485)	1997 02 01.66154	09 27 50.96	+14 53 05.0	15.5 V	369
(3485)	1997 02 01.67388	09 27 50.19	+14 53 08.0		369
(3485)	1997 02 01.68622	09 27 49.47	+14 53 10.4		369

(5921)	1997 02 06.46957	07 41 08.12	+23 53 47.5	17.2 V	369
(5921)	1997 02 06.47534	07 41 07.81	+23 53 47.7		369
(5921)	1997 02 06.49252	07 41 06.69	+23 53 48.9		369

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0.30-m reflector + CCD

GSC

1988 XJ ₁	1996 04 13.62969	11 59 21.90	+19 33 34.2	17.8 V	376
1988 XJ ₁	1996 04 13.65966	11 59 20.68	+19 33 34.5		376
1989 VC ₂	1996 12 30.47756	07 01 35.38	+31 45 03.7		376
1989 VC ₂	1996 12 30.48947	07 01 34.83	+31 45 06.2		376
1989 VC ₂	1996 12 30.49806	07 01 34.34	+31 45 05.8		376
1989 VC ₂	1997 01 03.45944	06 57 55.00	+31 50 39.3		376
1989 VC ₂	1997 01 03.51111	06 57 51.91	+31 50 43.4		376
1989 VC ₂	1997 02 01.53351	06 35 01.82	+31 46 40.8		376
1991 HC	1996 12 30.51742	07 07 32.41	+24 22 27.4		376
1991 HC	1996 12 30.53054	07 07 31.38	+24 22 30.1		376
1991 HC	1997 01 03.48714	07 02 54.95	+24 36 29.6		376
1991 HC	1997 01 03.56722	07 02 49.10	+24 36 46.7		376
1991 YD	1996 02 10.49647	09 19 38.57	+21 35 39.1	16.2 V	376
1991 YD	1996 02 10.50515	09 19 37.98	+21 35 39.7		376
1991 YD	1996 02 10.51186	09 19 37.60	+21 35 40.1		376
1991 YD	1996 02 24.48194	09 06 12.03	+21 38 02.5	16.4 V	376
1991 YD	1996 02 24.49381	09 06 11.42	+21 38 01.4		376
1991 YD	1996 02 24.53964	09 06 09.01	+21 37 59.4		376
1992 UZ ₂	1996 08 15.54714	20 39 07.33	-22 44 09.5		376
1992 UZ ₂	1996 08 15.55692	20 39 06.82	-22 44 11.0		376
1992 UZ ₂	1996 08 15.56878	20 39 06.25	-22 44 13.2		376
1992 UH ₆	1997 02 14.61970	10 32 32.56	+19 57 03.0		376
1992 UH ₆	1997 02 14.62826	10 32 31.98	+19 57 06.2		376
1992 UJ ₆	1997 02 14.59660	10 04 28.66	+02 06 08.9		376
1992 UJ ₆	1997 02 14.60538	10 04 28.13	+02 06 12.7		376
1992 UJ ₆	1997 02 14.61227	10 04 27.71	+02 06 15.1		376
1997 AO ₆	1997 01 16.67687	06 47 58.13	+25 30 49.7		376
1997 AO ₆	1997 02 01.42201	06 35 44.00	+26 16 49.6		376
1997 AO ₆	1997 02 01.43764	06 35 43.52	+26 16 51.7		376
1997 AL ₂₁	1997 02 01.48605	08 54 00.41	+29 34 40.3		376
1997 AL ₂₁	1997 02 01.49623	08 53 59.70	+29 34 41.5		376
1997 AL ₂₁	1997 02 01.50897	08 53 58.82	+29 34 44.6		376
1997 AL ₂₁	1997 02 14.57435	08 40 24.46	+29 55 49.1	17.8 V	376
1997 AL ₂₁	1997 02 14.58635	08 40 23.89	+29 55 47.5		376
(7123)	1996 08 15.57885	21 22 46.31	-06 19 40.2		376
(7123)	1996 08 15.59164	21 22 45.63	-06 19 45.0		376

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Measurers Y. Asakura, D. J. Asher

1.05-m $f/3.1$ Schmidt + CCD

GSC, AGK3

1989 WQ ₁	1988 02 17.55209	09 14 00.86	+57 41 05.2		381	1992 UX	1997 01 26.44506	06 56 28.02	+31 47 56.7		385
1989 WQ ₁	1988 02 17.57987	09 13 58.68	+57 40 58.6		381	1992 UX	1997 01 26.44922	06 56 27.80	+31 47 57.1		385
1989 WQ ₁	1988 02 17.59271	09 13 57.71	+57 40 59.1		381	1992 UX	1997 01 28.57339	06 54 35.79	+31 50 47.2	17 V	385
1989 WQ ₁	1988 02 17.62743	09 13 55.13	+57 40 52.6		381	1992 UX	1997 01 28.61396	06 54 33.73	+31 50 50.0		385
1989 WQ ₁	1988 02 18.53272	09 12 55.01	+57 38 22.6		381	1992 UY	1997 01 31.66500	08 43 54.40	+09 23 32.2	17 V	385
1989 WQ ₁	1988 02 18.56744	09 12 51.93	+57 38 12.3		381	1992 UY	1997 01 31.67874	08 43 53.46	+09 23 39.6		385
1989 WQ ₁	1988 02 18.58957	09 12 50.56	+57 38 13.2		381	1992 UY	1997 02 03.58703	08 40 56.53	+09 43 15.5	17.5 V	385
1989 WQ ₁	1988 02 18.63124	09 12 47.53	+57 38 01.3		381	1992 UY	1997 02 03.59127	08 40 56.32	+09 43 17.5		385
1992 GB ₁	1988 02 17.55209	08 48 48.21	+61 27 17.3		381	1992 UY	1997 02 03.59554	08 40 56.06	+09 43 19.9		385
1992 GB ₁	1988 02 17.57987	08 48 45.83	+61 27 04.1		381	1992 UD ₂	1997 01 31.77979	09 05 58.16	+60 49 10.1	17 V	385
1992 GB ₁	1988 02 17.59271	08 48 44.45	+61 27 00.2		381	1992 UD ₂	1997 01 31.79366	09 05 56.70	+60 49 11.6		385
1992 GB ₁	1988 02 17.62743	08 48 41.40	+61 26 46.4		381	1992 UD ₂	1997 02 04.55247	08 58 52.38	+60 51 05.8	17.5 V	385
1992 GB ₁	1988 02 18.53272	08 47 24.13	+61 20 51.1		381	1992 UD ₂	1997 02 04.56330	08 58 51.01	+60 51 05.3		385
1992 GB ₁	1988 02 18.56744	08 47 20.94	+61 20 34.7		381	1992 UT ₃	1997 01 20.71433	11 03 37.17	+17 08 55.7	16.5 V	385
1992 GB ₁	1988 02 18.58957	08 47 19.05	+61 20 27.2		381	1992 UT ₃	1997 01 20.73682	11 03 36.75	+17 09 02.9		385
1992 GB ₁	1988 02 18.63124	08 47 15.25	+61 20 06.5		381	1992 UT ₃	1997 02 03.68990	10 56 15.86	+18 40 13.7	16.5 V	385
1997 BQ	* 1997 01 16.62597	10 34 43.80	+57 35 54.9		381	1992 UT ₃	1997 02 03.70997	10 56 14.92	+18 40 21.8		385
1997 BQ	1997 01 16.63549	10 34 46.60	+57 36 24.9		381	1992 YB	1997 02 11.63009	10 47 27.38	+09 34 35.4	17.9 V	385
1997 BQ	1997 01 16.65632	10 34 52.31	+57 37 23.1		381	1992 YB	1997 02 11.64175	10 47 26.80	+09 34 41.2		385
1997 BQ	1997 01 16.66089	10 34 53.63	+57 37 37.1		381	1992 YB	1997 02 13.64168	10 45 46.40	+09 51 25.0	17.8 V	385
1997 BQ	1997 01 16.68172	10 34 59.51	+57 38 36.2		381	1992 YB	1997 02 13.65718	10 45 45.54	+09 51 32.8		385
1997 BQ	1997 01 16.68556	10 35 00.55	+57 38 46.7		381	1992 YE	1997 02 14.68095	11 17 40.35	-03 20 22.3	17.4 V	385
1997 BQ	1997 01 16.70639	10 35 06.49	+57 39 47.5		381	1992 YE	1997 02 14.70789	11 17 38.91	-03 20 20.4		385
1997 BQ	1997 01 16.72289	10 35 11.34	+57 40 33.9	18 R	381	1992 YU ₂	1997 01 28.51797	04 41 14.51	+17 24 00.1	17.5 V	385
1997 BQ	1997 01 16.75067	10 35 18.74	+57 41 48.8		381	1992 YU ₂	1997 01 28.54622	04 41 15.57	+17 24 00.4		385
1997 BQ	1997 01 16.76920	10 35 24.15	+57 42 42.9		381	1993 AA	1997 01 31.70612	09 03 50.97	+09 42 03.4	17 V	385
(4266)	1987 01 29.65902	09 07 03.85	+22 07 58.5		381	1993 AA	1997 01 31.72480	09 03 49.79	+09 42 08.3		385
(4266)	1987 01 29.69374	09 07 01.56	+22 07 55.7		381	1993 AA	1997 02 03.60708	09 00 50.91	+09 54 59.0	16.5 V	385
(4486)	1987 01 29.65902	09 12 46.84	+21 17 59.9		381	1993 AA	1997 02 03.62843	09 00 49.58	+09 55 05.6		385
(4486)	1987 01 29.69374	09 12 42.88	+21 18 26.7		381	1993 BF	1997 02 14.69751	11 54 04.24	-09 16 05.2	17.7 V	385
(6170)	1988 02 17.55209	09 02 56.23	+60 07 02.0		381	1993 BJ	1997 02 14.68634	11 25 27.89	+01 08 48.2	18.2 V	385
(6170)	1988 02 17.57987	09 02 53.56	+60 06 25.3		381	1993 BN	1997 02 04.46490	05 16 53.22	+31 36 10.6	17 V	385
(6170)	1988 02 17.59271	09 02 52.42	+60 06 05.6		381	1993 BN	1997 02 04.48809	05 16 53.26	+31 36 02.5		385
(6170)	1988 02 17.62743	09 02 48.99	+60 05 16.3		381	1993 BR ₃	1997 01 28.62858	06 32 58.28	+19 18 01.4	16.8 V	385
(6170)	1988 02 18.53272	09 01 34.92	+59 43 56.1		381	1993 BR ₃	1997 01 28.64221	06 32 57.68	+19 18 07.6		385
(6170)	1988 02 18.56744	09 01 31.47	+59 43 07.3		381	1993 BR ₃	1997 01 31.59093	06 31 15.18	+19 40 28.7	17 V	385
(6170)	1988 02 18.58957	09 01 29.74	+59 42 36.2		381	1993 BR ₃	1997 01 31.60668	06 31 14.61	+19 40 36.7		385
(6170)	1988 02 18.63124	09 01 26.04	+59 41 35.6		381	1993 DD ₂	1997 01 20.71918	11 37 45.29	+18 46 08.7	16.5 V	385
385 Nihondaira Observatory						1993 DD ₂	1997 01 20.74194	11 37 44.91	+18 46 11.5		385
T. Urata, 1-8, Dobayashi 1 Chome, Shimizu, Shizuoka-Ken, 424 Japan						1993 DD ₂	1997 02 03.70088	11 31 38.87	+19 25 40.1	16 V	385
0.31-m $f/4.7$ reflector + CCD						1993 DD ₂	1997 02 03.71905	11 31 38.13	+19 25 44.0		385
GSC						1993 EP	1997 01 20.70454	11 02 43.52	+13 48 47.1	16.5 V	385
1981 TZ	1997 02 06.50635	06 57 16.43	+34 24 56.9	17.5 V	385	1993 EP	1997 01 20.72328	11 02 43.05	+13 48 45.0		385
1981 TZ	1997 02 06.53123	06 57 15.44	+34 24 52.3		385	1993 EP	1997 02 03.68466	10 54 27.07	+13 34 00.7	16.5 V	385
1984 SS ₅	1997 02 04.49584	06 54 44.63	+26 51 23.7	18 V	385	1993 EP	1997 02 03.70538	10 54 26.03	+13 34 00.1		385
1984 SS ₅	1997 02 04.52238	06 54 43.75	+26 51 25.8		385	1994 CA	1997 02 14.72738	12 27 04.71	-16 08 12.7	17.4 V	385
1984 SS ₅	1997 02 06.50105	06 53 39.02	+26 53 37.0	18.5 V	385	1994 CA	1997 02 14.73760	12 27 04.25	-16 08 20.2		385
1984 SS ₅	1997 02 06.52255	06 53 38.25	+26 53 38.0		385	1994 OC	1997 01 20.67977	10 53 54.55	+04 30 29.8	16.8 V	385
1990 WB ₄	1997 01 31.73001	09 28 48.09	+03 10 26.1	16 V	385	1994 OC	1997 01 20.68365	10 53 54.38	+04 30 30.4		385
1990 WB ₄	1997 01 31.75318	09 28 46.87	+03 10 27.3		385	1994 OC	1997 01 20.69980	10 53 53.97	+04 30 30.1		385
1991 JA	1997 02 04.45382	04 39 00.08	+28 16 24.8	18.5 V	385	1994 OC	1997 02 11.60843	10 39 41.40	+04 41 10.9	16.8 V	385
1992 UX	1997 01 26.44084	06 56 28.24	+31 47 57.1	16.8 V	385	1994 OC	1997 02 11.62106	10 39 40.75	+04 41 12.5		385

1994 PO	1997 02 14.66709	10 41 29.49	+01 28 50.7	16.6 V	385	1995 UW ₆	1997 02 06.50635	06 58 11.50	+34 27 45.6	18 V	385
1994 PO	1997 02 14.67127	10 41 29.22	+01 28 50.3		385	1995 UW ₆	1997 02 06.53123	06 58 10.57	+34 27 43.7		385
1994 PO	1997 02 14.67552	10 41 28.95	+01 28 50.0		385	1995 UA ₇	1997 01 31.73955	09 38 05.94	+19 56 40.1	17.5 V	385
1994 RM ₁	1997 02 03.60147	08 52 07.40	-03 57 05.5	17 V	385	1995 UA ₇	1997 01 31.76087	09 38 04.57	+19 56 46.5		385
1994 RM ₁	1997 02 03.62367	08 52 06.36	-03 56 59.6		385	1995 UA ₇	1997 02 03.64890	09 35 09.62	+20 15 50.3	17 V	385
1995 OT	1997 01 31.58498	06 28 40.72	+29 08 33.7	18.5 V	385	1995 UA ₇	1997 02 03.66990	09 35 08.28	+20 15 58.5		385
1995 OT	1997 01 31.60184	06 28 40.10	+29 08 32.7		385	1995 UA ₇	1997 02 04.55839	09 34 13.70	+20 21 47.0		385
1995 OX ₁	1997 01 28.65777	07 19 10.09	+28 39 06.4	18 V	385	1995 UC ₇	1997 02 03.66078	10 28 14.20	+18 49 25.9	17 V	385
1995 OX ₁	1997 01 31.60661	07 16 21.35	+28 44 17.0	18.5 V	385	1995 UC ₇	1997 02 03.67925	10 28 13.30	+18 49 35.1		385
1995 PQ	1997 02 13.62230	10 28 39.44	+20 17 56.3	18.8 V	385	1995 UC ₇	1997 02 11.60324	10 21 24.46	+19 53 42.3	16.8 V	385
1995 PQ	1997 02 13.63188	10 28 39.02	+20 18 01.5		385	1995 UC ₇	1997 02 11.61703	10 21 23.64	+19 53 49.5		385
1995 PQ	1997 02 14.56748	10 27 49.97	+20 25 52.5	18.8 V	385	1995 UC ₈	1997 02 06.70286	10 06 39.97	+02 43 29.8	18.6 V	385
1995 PQ	1997 02 14.57538	10 27 49.58	+20 25 57.7		385	1995 UC ₈	1997 02 06.71644	10 06 39.34	+02 43 33.8		385
1995 PQ	1997 02 14.58327	10 27 49.04	+20 26 02.6		385	1995 UC ₈	1997 02 11.59795	10 03 01.05	+03 05 46.5	18.2 V	385
1995 PV	1997 01 28.65221	07 13 56.56	+31 29 13.6	17.5 V	385	1995 UC ₈	1997 02 11.61275	10 03 00.33	+03 05 50.7		385
1995 PV	1997 01 28.67053	07 13 55.42	+31 29 11.0		385	1995 WX ₁	1997 02 06.57111	08 33 56.73	-02 54 58.1	17 V	385
1995 PV	1997 02 06.54058	07 05 41.71	+31 09 31.1	18 V	385	1995 WX ₁	1997 02 06.59038	08 33 55.77	-02 54 54.6		385
1995 QG ₂	1997 01 31.57922	05 20 58.59	+27 11 10.8	17.5 V	385	1995 WB ₆	1997 02 06.63047	08 57 35.88	+06 50 30.3	17.5 V	385
1995 QG ₂	1997 01 31.61615	05 20 57.98	+27 11 12.0		385	1995 WB ₆	1997 02 06.64958	08 57 34.91	+06 50 36.0		385
1995 QG ₂	1997 02 11.41884	05 20 23.52	+27 18 26.6	18.0 V	385	1995 WB ₆	1997 02 11.51397	08 53 36.84	+07 15 54.2	18.0 V	385
1995 QG ₂	1997 02 11.48021	05 20 23.89	+27 18 29.7		385	1995 WB ₆	1997 02 11.52765	08 53 36.12	+07 15 58.9		385
1995 QH ₂	1997 01 31.63619	08 21 41.35	+30 37 27.0	17.5 V	385	1995 WB ₇	1997 01 31.74438	09 38 59.62	+08 38 57.1	16.5 V	385
1995 QH ₂	1997 01 31.64537	08 21 40.61	+30 37 28.9		385	1995 WB ₇	1997 01 31.76480	09 38 58.55	+08 38 58.4		385
1995 QH ₂	1997 02 04.50753	08 17 17.11	+30 47 37.6	18 V	385	1995 WB ₇	1997 02 03.63310	09 36 26.05	+08 42 08.4	16.5 V	I 385
1995 QH ₂	1997 02 04.51737	08 17 16.51	+30 47 38.9		385	1995 WG ₇	1997 01 13.65427	08 49 45.04	-04 53 00.2	17.5 V	385
1995 QM ₂	1997 01 28.56269	05 27 56.68	+21 52 10.2	17.5 V	385	1995 WG ₇	1997 01 13.67024	08 49 44.28	-04 53 01.5		385
1995 QM ₂	1997 01 28.60931	05 27 55.75	+21 52 13.4		385	1995 WG ₇	1997 01 28.68795	08 37 49.61	-04 49 29.5	17.5 V	385
1995 SL ₂	1997 02 11.53654	09 04 37.36	+07 51 35.7	16.8 V	385	1995 WG ₇	1997 01 28.69917	08 37 48.94	-04 49 27.9		385
1995 SL ₂	1997 02 11.54000	09 04 37.15	+07 51 37.4		385	1995 WG ₇	1997 02 06.58131	08 30 44.57	-04 30 10.2	18 V	385
1995 SL ₂	1997 02 11.54354	09 04 36.89	+07 51 38.4		385	1995 WO ₈	1997 01 20.70922	11 03 14.13	+07 29 08.8	16 V	385
1995 TB ₁	1997 02 13.65264	10 48 00.23	+10 18 09.7	17.8 V	385	1995 WO ₈	1997 01 20.72765	11 03 14.04	+07 29 16.0		385
1995 TB ₁	1997 02 13.66623	10 47 59.52	+10 18 15.5		385	1995 WO ₈	1997 02 03.69539	11 00 29.14	+09 18 15.3	15.5 V	385
1995 UK ₃	1997 02 03.65499	10 24 10.96	-13 07 23.4	16.5 V	385	1995 WO ₈	1997 02 03.71446	11 00 28.69	+09 18 26.1		385
1995 UK ₃	1997 02 03.67461	10 24 10.03	-13 07 24.1		385	1996 VP ₁	1997 02 04.42160	03 59 08.75	+21 52 47.0	17.5 V	385
1995 UK ₃	1997 02 06.72661	10 21 56.79	-13 08 47.9	17 V	385	1996 VP ₁	1997 02 04.43237	03 59 09.24	+21 52 44.3		I 385
1995 UK ₃	1997 02 06.73081	10 21 56.54	-13 08 47.6		385	1996 XZ	1996 12 08.51174	01 58 23.81	+19 14 46.6		I 385
1995 UK ₃	1997 02 06.73497	10 21 56.34	-13 08 47.4		385	1996 XZ	1996 12 14.47447	01 58 02.18	+19 05 05.6	17 V	385
1995 UL ₃	1997 01 28.66572	07 47 30.17	+37 08 21.7	17.5 V	385	1996 XZ	1996 12 14.52932	01 58 02.20	+19 05 01.3		385
1995 UL ₃	1997 01 28.68137	07 47 29.21	+37 08 20.8		385	1996 XZ	1996 12 14.53356	01 58 02.27	+19 05 01.0		385
1995 UL ₃	1997 02 06.48677	07 40 02.49	+36 59 47.8	18.5 V	385	1996 XH ₆	1997 02 04.44281	04 30 02.19	+20 17 57.3	18.5 V	385
1995 UL ₃	1997 02 06.49102	07 40 02.26	+36 59 48.5		385	1996 XH ₆	1997 02 04.46979	04 30 02.81	+20 17 59.5		385
1995 UH ₄	1997 01 31.73493	09 37 55.83	+10 30 34.2	17.8 V	385	1996 XJ ₆	1997 01 28.50733	04 39 04.04	+24 54 27.8	17.5 V	385
1995 UH ₄	1997 01 31.75713	09 37 54.58	+10 30 36.0		385	1996 XJ ₆	1997 01 28.53694	04 39 05.07	+24 54 36.4		385
1995 UH ₄	1997 02 03.66539	09 35 21.08	+10 34 16.5	17.5 V	385	1996 XY ₁₈	1997 02 04.42759	04 32 34.24	+19 01 24.8	18 V	385
1995 UE ₆	1997 01 31.74918	09 43 39.75	+14 41 39.9	17 V	385	1996 XY ₁₈	1997 02 04.43742	04 32 34.70	+19 01 24.7		385
1995 UE ₆	1997 01 31.76866	09 43 38.86	+14 41 46.4		385	1996 XU ₂₅	1997 02 04.44828	04 33 15.68	+20 12 27.6	18.5 V	385
1995 UE ₆	1997 02 03.61885	09 41 23.01	+14 56 47.5	17 V	385	1996 XU ₂₅	1997 02 04.47418	04 33 16.01	+20 12 28.6		385
1995 UE ₆	1997 02 03.63771	09 41 22.12	+14 56 52.9		385	1997 AD	1997 02 04.50155	07 18 19.52	+20 20 43.5	17 V	385
1995 UF ₆	1997 01 31.68883	08 48 14.48	+36 10 46.5	18 V	385	1997 AD	1997 02 04.51262	07 18 18.88	+20 20 40.5		385
1995 UF ₆	1997 01 31.71086	08 48 13.15	+36 10 50.3		385	1997 AT ₁	1997 02 11.44495	06 51 42.82	+23 29 36.3	16.0 V	385
1995 UF ₆	1997 02 04.53656	08 44 10.31	+36 22 41.0	18 V	385	1997 AT ₁	1997 02 11.46367	06 51 42.32	+23 29 32.1		385
1995 UF ₆	1997 02 04.54609	08 44 09.73	+36 22 41.6		385	1997 AU ₃	1997 01 28.46707	03 37 40.03	+32 03 25.3	17.5 V	385

1997 AU ₃	1997 01 28.48593	03 37 40.71	+32 03 22.5		385	1997 CN ₅	1997 02 09.67201	08 38 12.78	+10 09 11.5	17.5 V	385
1997 AV ₃	1997 01 28.51263	04 40 00.00	+18 07 45.7	18 V	385	1997 CN ₅	1997 02 09.67943	08 38 12.39	+10 09 13.8		385
1997 AV ₃	1997 01 28.54142	04 40 01.18	+18 07 49.7		385	1997 CB ₆	1997 02 06.63615	09 08 38.11	+12 32 05.8		385
1997 AV ₃	1997 02 04.45925	04 45 17.84	+18 30 12.2	18.5 V	385	1997 CB ₆	1997 02 06.64073	09 08 37.76	+12 32 06.8		385
1997 AV ₃	1997 02 04.48352	04 45 18.99	+18 30 18.3		385	1997 CB ₆	1997 02 06.64494	09 08 37.58	+12 32 09.2		385
1997 AE ₄	1997 02 06.56560	08 30 52.30	+19 48 36.7	16 V	385	1997 CB ₆	1997 02 09.70975	09 05 44.54	+12 48 18.9	18 V	385
1997 AE ₄	1997 02 06.58580	08 30 51.29	+19 48 44.8		385	1997 CB ₆	1997 02 09.72454	09 05 43.61	+12 48 23.4		385
1997 AQ ₆	1997 01 26.40727	02 11 01.99	+13 33 20.2	17 V	385	1997 CM ₆	1997 02 11.63392	10 48 33.01	+09 24 12.5	18.2 V	385
1997 AQ ₆	1997 01 26.41155	02 11 02.45	+13 33 24.9		385	1997 CM ₆	1997 02 11.64554	10 48 32.44	+09 24 17.0		385
1997 AQ ₆	1997 01 26.42199	02 11 03.12	+13 33 37.2		385	1997 CM ₆	1997 02 13.64731	10 47 04.88	+09 40 22.1	18.1 V	385
1997 AQ ₆	1997 02 04.40981	02 23 00.91	+16 23 45.5	17.5 V	385	1997 CM ₆	1997 02 13.66172	10 47 04.20	+09 40 29.2		385
1997 AQ ₆	1997 02 04.41586	02 23 01.40	+16 23 52.1		385	1997 CM ₆	1997 02 14.64392	10 46 19.39	+09 48 32.7	17.9 V	385
1997 AQ ₆	1997 02 11.40192	02 33 29.73	+18 30 04.5	18.0 V	385	1997 CM ₆	1997 02 14.66146	10 46 18.55	+09 48 41.6		385
1997 AQ ₆	1997 02 11.40617	02 33 30.02	+18 30 07.7		385	1997 CO ₁₉	* 1997 02 06.67441	09 57 04.41	+22 19 35.2	18.2 V	385
1997 AQ ₆	1997 02 11.41059	02 33 30.49	+18 30 12.0		385	1997 CO ₁₉	1997 02 06.68797	09 57 03.79	+22 19 40.1		385
1997 AR ₆	1997 01 28.50183	04 34 18.70	+20 58 24.7	17.5 V	385	1997 CO ₁₉	1997 02 11.55434	09 53 03.87	+22 43 33.7	17.8 V	385
1997 AR ₆	1997 01 28.53209	04 34 19.60	+20 58 17.4		385	1997 CO ₁₉	1997 02 11.56336	09 53 03.32	+22 43 36.4		385
1997 AP ₁₂	1997 02 06.54615	07 16 22.53	+20 10 18.3	17.5 V	385	1997 CO ₁₉	1997 02 13.60071	09 51 20.89	+22 53 01.5	17.7 V	385
1997 AP ₁₂	1997 02 06.55029	07 16 22.34	+20 10 18.0		385	1997 CO ₁₉	1997 02 13.61109	09 51 20.39	+22 53 04.1		385
1997 AP ₁₂	1997 02 06.55442	07 16 22.19	+20 10 17.6		385	1997 CX ₂₁	* 1997 02 11.53654	09 04 22.80	+07 47 01.6	17.4 V	385
1997 AB ₁₃	1997 02 13.55101	08 29 57.72	+24 16 04.4	18.4 V	385	1997 CX ₂₁	1997 02 11.54000	09 04 22.65	+07 47 02.2		385
1997 AB ₁₃	1997 02 13.55527	08 29 57.51	+24 16 04.9		385	1997 CX ₂₁	1997 02 11.54354	09 04 22.45	+07 47 03.5		385
1997 AB ₁₃	1997 02 13.55946	08 29 57.22	+24 16 05.8		385	1997 CX ₂₁	1997 02 13.57551	09 02 34.79	+07 53 39.5	17.4 V	385
1997 AB ₁₃	1997 02 14.59056	08 28 59.89	+24 18 54.0	17.1 V	385	1997 CX ₂₁	1997 02 13.58486	09 02 34.27	+07 53 41.4		385
1997 AB ₁₃	1997 02 14.60543	08 28 59.02	+24 18 56.7		385	1997 CX ₂₁	1997 02 13.58953	09 02 34.04	+07 53 42.2		385
1997 AC ₁₃	1997 02 06.51211	07 03 07.26	+22 05 33.2	17.5 V	385	1997 CX ₂₁	1997 02 14.60068	09 01 41.87	+07 57 06.1	17.5 V	385
1997 AC ₁₃	1997 02 06.53583	07 03 06.48	+22 05 31.2		385	1997 CX ₂₁	1997 02 14.61472	09 01 41.09	+07 57 09.1		385
1997 AD ₁₅	1997 02 04.49584	06 54 44.84	+26 48 34.2	18.5 V	385	1997 CC ₂₆	* 1997 02 13.55101	08 29 58.22	+24 06 50.8	17.2 V	385
1997 AD ₁₅	1997 02 04.52238	06 54 43.97	+26 48 36.2		385	1997 CC ₂₆	1997 02 13.55527	08 29 57.94	+24 06 50.8		385
1997 AD ₁₅	1997 02 06.50105	06 53 49.16	+26 52 07.6	18.5 V	385	1997 CC ₂₆	1997 02 13.55946	08 29 57.72	+24 06 51.5		385
1997 AD ₁₅	1997 02 06.52255	06 53 48.68	+26 52 09.7		385	1997 CC ₂₆	1997 02 14.59499	08 29 04.64	+24 08 05.0	18.3 V	385
1997 AZ ₁₇	1997 02 03.64890	09 35 19.87	+20 21 57.7	16 V	385	1997 CC ₂₆	1997 02 14.61007	08 29 03.85	+24 08 05.4		385
1997 AZ ₁₇	1997 02 03.66990	09 35 18.50	+20 22 04.9		385	1997 CD ₂₆	* 1997 02 13.59525	09 43 09.28	+15 46 37.4	18.3 V	385
1997 AZ ₁₇	1997 02 04.55839	09 34 24.45	+20 26 58.5	16 V	385	1997 CD ₂₆	1997 02 13.60547	09 43 08.76	+15 46 42.2		385
1997 AZ ₁₇	1997 02 04.56815	09 34 23.84	+20 27 01.6		385	1997 CD ₂₆	1997 02 14.62071	09 42 20.53	+15 54 16.4	18.6 V	385
1997 AM ₂₁	1997 02 13.55101	08 30 13.22	+24 09 52.2	17.1 V	385	1997 CD ₂₆	1997 02 14.64854	09 42 19.15	+15 54 28.1		385
1997 AM ₂₁	1997 02 13.55527	08 30 13.02	+24 09 53.6		385	(3231)	1997 01 31.74918	09 43 38.32	+14 45 30.7	16.8 V	385
1997 AM ₂₁	1997 02 13.55946	08 30 12.79	+24 09 55.2		385	(3231)	1997 01 31.76866	09 43 37.10	+14 45 33.6		385
1997 AM ₂₁	1997 02 14.59056	08 29 27.01	+24 16 00.0	17.6 V	385	(3231)	1997 02 03.61885	09 40 40.69	+14 53 09.7	16.8 V	385
1997 AM ₂₁	1997 02 14.59499	08 29 26.78	+24 16 01.1		385	(3231)	1997 02 03.63771	09 40 39.40	+14 53 11.7		385
1997 AM ₂₁	1997 02 14.60543	08 29 26.34	+24 16 05.0		385	(3570)	1997 02 14.70322	12 01 27.04	+16 43 37.7	16.1 V	385
1997 AM ₂₁	1997 02 14.61007	08 29 26.13	+24 16 06.4		385	(3570)	1997 02 14.73212	12 01 26.18	+16 43 49.5		385
1997 AN ₂₁	1997 02 11.48595	08 26 16.31	+19 11 58.7	17.1 V	385	399 Kushiro					
1997 AN ₂₁	1997 02 11.49476	08 26 15.79	+19 11 57.1		385	H. Kaneda, Taiyo MS 2-H, 2-15, Kawazoe 8 Jo 2 Chime, Minami-Ku, Sapporo, 005					
1997 BR ₆	1997 02 09.71528	09 47 51.01	+15 34 16.6	17 V	385	Japan					
1997 BR ₆	1997 02 09.72878	09 47 50.07	+15 34 18.3		385	Observer S. Ueda					
1997 BR ₆	1997 02 13.59525	09 43 32.35	+15 43 53.1	16.2 V	385	Measurer H. Kaneda					
1997 BR ₆	1997 02 13.60547	09 43 31.66	+15 43 54.7		385	0.25-m <i>f</i> /3.4 hyperboloid astrocamera					
1997 BS ₆	1997 02 09.72027	09 54 30.97	+17 12 25.4	17 V	385	GSC					
1997 BS ₆	1997 02 09.73273	09 54 30.27	+17 12 33.6		385	1992 WG ₃	1997 01 12.53472	07 54 56.20	+17 51 42.1	17	399
1997 CN ₅	1997 02 06.57660	08 40 49.33	+09 55 46.5	17 V	385	1992 WG ₃	1997 01 12.54896	07 54 55.34	+17 51 45.4		399
1997 CN ₅	1997 02 06.59516	08 40 48.34	+09 55 51.4		385	1992 WG ₃	1997 01 16.67986	07 50 41.36	+18 03 08.6	17	399

1992 WG ₃	1997 01 16.69410	07 50 40.51	+18 03 12.5		399
1992 WG ₃	1997 02 02.55697	07 35 10.06	+18 49 38.1	17.3	399
1992 WG ₃	1997 02 02.57120	07 35 09.40	+18 49 38.6		399
1993 BF ₃	1997 01 09.57847	07 39 19.48	+27 34 18.1	16.8	399
1993 BF ₃	1997 01 09.59271	07 39 18.53	+27 34 16.3		399
1993 BF ₃	1997 01 12.50243	07 36 07.56	+27 34 48.7	16.8	399
1993 BF ₃	1997 01 12.51667	07 36 06.56	+27 34 48.5		399
1993 BF ₃	1997 01 16.64722	07 31 35.25	+27 33 48.6	17	399
1993 BF ₃	1997 01 16.66146	07 31 34.30	+27 33 48.5		399
1993 DV	1997 01 16.67986	08 02 37.43	+17 42 25.4	16.7	399
1993 DV	1997 01 16.69410	08 02 36.72	+17 42 28.0		399
1994 FF	1997 02 02.55697	07 35 20.50	+20 14 13.0	16.8	399
1994 FF	1997 02 02.57120	07 35 19.52	+20 14 17.5		399
1997 AH ₁₉	1997 02 02.63228	08 03 55.75	+14 32 40.6	16.5	399
1997 AH ₁₉	1997 02 02.64652	08 03 54.94	+14 32 45.7		399
1997 AH ₁₉	1997 02 10.59444	07 57 35.80	+15 05 36.2	16.7	399
1997 AH ₁₉	1997 02 10.60868	07 57 35.16	+15 05 40.5		399
1997 AF ₂₁	1997 01 16.64722	07 32 48.85	+25 43 39.2	17.1	399
1997 AF ₂₁	1997 01 16.66146	07 32 47.81	+25 43 39.1		399
1997 AG ₂₁	1997 01 16.67986	07 57 37.67	+18 39 54.1	16.7	399
1997 AG ₂₁	1997 01 16.69410	07 57 36.79	+18 39 56.1		399
1997 AG ₂₁	1997 02 02.55697	07 41 29.54	+19 24 24.0	16.7	399
1997 AG ₂₁	1997 02 02.57120	07 41 28.92	+19 24 26.1		399
1997 AH ₂₁	1997 01 16.67986	08 03 06.99	+21 23 46.3		399
1997 AH ₂₁	1997 01 16.69410	08 03 06.32	+21 23 54.7		399
1997 AK ₂₁	1997 01 16.71250	08 24 04.54	+09 57 55.1	16.6	399
1997 AK ₂₁	1997 01 16.72674	08 24 03.55	+09 57 55.2		399
1997 AK ₂₁	1997 02 02.63228	08 07 35.52	+10 52 14.4	16.8	399
1997 AK ₂₁	1997 02 02.64652	08 07 34.63	+10 52 18.0		399
1997 AK ₂₁	1997 02 10.59444	08 00 47.96	+11 24 55.8	17	399
1997 AK ₂₁	1997 02 10.60868	08 00 47.46	+11 24 58.8		399
1997 AF ₂₂	* 1997 01 09.67986	09 00 36.65	+31 03 57.9	17	399
1997 AF ₂₂	1997 01 09.69410	09 00 35.89	+31 03 58.5		399
1997 AF ₂₂	1997 01 12.60347	08 57 43.35	+31 05 32.3	16.7	399
1997 AF ₂₂	1997 01 12.61771	08 57 42.38	+31 05 32.8		399
1997 AF ₂₂	1997 02 02.60002	08 35 02.22	+30 45 32.8	16.7	399
1997 AF ₂₂	1997 02 02.61426	08 35 01.35	+30 45 31.6		399
1997 AF ₂₂	1997 02 10.62778	08 27 00.54	+30 21 13.6	17	399
1997 AF ₂₂	1997 02 10.64201	08 27 00.02	+30 21 12.6		399
1997 CM ₂₇	* 1997 02 02.63228	08 06 16.27	+15 05 44.0	16.8	399
1997 CM ₂₇	1997 02 02.64652	08 06 15.37	+15 05 42.7		399
1997 CM ₂₇	1997 02 10.59444	07 58 42.52	+14 58 56.4	16.8	399
1997 CM ₂₇	1997 02 10.60868	07 58 41.82	+14 58 56.9		399
1997 CN ₂₇	* 1997 02 02.70259	10 31 54.97	+26 38 15.5	16.8	399
1997 CN ₂₇	1997 02 02.71700	10 31 54.28	+26 38 19.3		399
1997 CN ₂₇	1997 02 10.72934	10 25 36.99	+27 26 49.4	16.8	399
1997 CN ₂₇	1997 02 10.74375	10 25 36.20	+27 26 56.3		399
(7407)	1997 01 09.61181	07 57 47.73	+20 52 26.7	16.7	399
(7407)	1997 01 09.62604	07 57 46.91	+20 52 28.7		399
(7407)	1997 01 12.53472	07 54 42.75	+20 57 45.1	16.7	399
(7407)	1997 01 12.54896	07 54 41.79	+20 57 48.4		399
(7407)	1997 01 16.67986	07 50 16.39	+21 05 01.4	16.5	399

(7407)	1997 01 16.69410	07 50 15.50	+21 05 01.9		399
(7407)	1997 02 02.55697	07 34 08.76	+21 26 38.8	16.9	399
(7407)	1997 02 02.57120	07 34 08.14	+21 26 37.2		399

400 Kitami

K. Endate, 3-17, Hinode 1 Chome, Mihoro Cho, Abashiri-Gun, Hokkaido, 092
Japan

Observer K. Endate

0.25-m $f/3.4$ hyperboloid astrocamera + CCD

GSC

1996 VJ ₈	1996 12 30.40721	02 34 09.51	+22 05 16.1	17.0 V	400
1996 VJ ₈	1996 12 30.43660	02 34 10.24	+22 05 14.7		400
1996 YJ ₂	1997 01 19.54248	09 01 07.35	+20 53 10.1	15.7 V	400
1996 YJ ₂	1997 01 19.54750	09 01 07.10	+20 53 13.1		400
1996 YJ ₂	1997 01 19.56411	09 01 06.26	+20 53 22.2		400
1996 YJ ₂	1997 01 19.56617	09 01 06.21	+20 53 23.6		400

402 Dync Astronomical Observatory

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

Observers A. Sugie, Y. Ikari

0.60-m $f/5.0$ reflector + CCD

GSC

1992 SK ₁₃	1997 02 05.48299	08 05 48.31	+20 31 44.1	17.2 V	402
1992 SK ₁₃	1997 02 05.48542	08 05 48.18	+20 31 44.9		402
1992 SK ₁₃	1997 02 05.48819	08 05 47.94	+20 31 44.1		402
1992 SK ₁₃	1997 02 09.68889	08 01 43.28	+20 35 03.6	18.0 V	402
1992 SK ₁₃	1997 02 09.69097	08 01 43.17	+20 35 04.1		402
1992 SK ₁₃	1997 02 09.69340	08 01 43.03	+20 35 03.9		402
1997 AM ₂	1997 01 31.43958	08 05 02.85	+26 33 19.8	15.6 V	402
1997 AM ₂	1997 01 31.44201	08 05 02.70	+26 33 20.2		402
1997 AM ₂	1997 01 31.44444	08 05 02.55	+26 33 20.9		402
1997 AC ₁₁	1997 01 20.73021	10 58 37.14	+46 56 16.6	17.3 V	402
1997 AC ₁₁	1997 01 20.73142	10 58 37.72	+46 56 40.3		402
1997 AC ₁₁	1997 01 20.73247	10 58 38.19	+46 57 00.8		402
1997 AC ₁₁	1997 01 20.73351	10 58 38.69	+46 57 20.7		402
1997 AC ₁₁	1997 01 20.73455	10 58 39.21	+46 57 40.5		402
1997 AX ₁₂	1997 01 28.48472	08 49 36.89	+22 12 36.6	17.6 V	402
1997 AX ₁₂	1997 01 28.48785	08 49 36.76	+22 12 38.6		402
1997 AX ₁₂	1997 01 28.49028	08 49 36.63	+22 12 40.0		402
1997 BQ	1997 01 28.51111	12 03 32.39	+66 39 11.1	17.2 V	402
1997 BQ	1997 02 05.59375	13 58 56.75	+70 08 21.9	16.1 V	402
1997 BQ	1997 02 05.59583	13 58 58.81	+70 08 22.9		402
1997 BQ	1997 02 05.59757	13 59 00.63	+70 08 24.3		402
1997 BQ	1997 02 05.59931	13 59 02.40	+70 08 24.9		402
1997 BR	1997 02 05.55972	10 02 46.81	+35 28 07.4	16.8 V	402
1997 BR	1997 02 05.56250	10 02 46.59	+35 28 16.3		402
1997 BR	1997 02 05.56493	10 02 46.42	+35 28 23.5		402
1997 BR	1997 02 09.74190	09 57 01.05	+39 12 20.0	17.0 V	402
1997 BR	1997 02 09.74410	09 57 00.82	+39 12 26.5		402
1997 BR	1997 02 09.74618	09 57 00.62	+39 12 33.8		402
1997 CO ₅	1997 02 09.71389	09 03 54.34	+17 07 09.0	17.1 V	402
1997 CO ₅	1997 02 09.71632	09 03 54.08	+17 07 05.4		402

1997 CO ₅	1997 02 09.71806	09 03 53.91	+17 07 02.7		402
1997 CO ₅	1997 02 13.60139	08 58 29.67	+15 39 50.4	17.1 V	402
1997 CO ₅	1997 02 13.60347	08 58 29.48	+15 39 47.4		402
(2060)	1997 01 20.78819	13 56 47.30	-12 31 15.4	16.6 V	402
(2060)	1997 01 20.79236	13 56 47.34	-12 31 15.5		402
(2060)	1997 01 20.79653	13 56 47.39	-12 31 15.7		402

408 Nyukasa

M. Hirasawa, 6-62, Minami Koshigaya 1 Chome, Koshigaya, Saitama-Kem, 343

Japan

Observers M. Hirasawa, S. Suzuki

Measurer K. Watanabe

0.30-m $f/2.7$ Schmidt camera

GSC

1997 AM ₂	1993 01 30.80625	10 19 34.67	+18 49 07.8	16.5	408
1997 AM ₂	1993 01 30.81458	10 19 34.15	+18 49 09.7		408
1997 AM ₂	1993 01 30.82234	10 19 33.79	+18 49 13.4		408

411 Oizumi

T. Kobayashi, 8-6, Nishi Koizumi 1 Chome, Oizumi, Ora-Gun, Gunma-Ken, 370-05

Japan [kobataka@oaa.iiijnet.or.jp]

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

GSC

1981 EG ₁₆	1997 02 12.65939	11 12 43.82	+07 43 54.0	17.5	411
1981 EG ₁₆	1997 02 12.67836	11 12 42.80	+07 43 53.5		411
1981 EG ₁₆	1997 02 13.59142	11 11 54.92	+07 43 11.1		411
1981 EG ₁₆	1997 02 13.59872	11 11 54.53	+07 43 10.6		411
1985 PX	1994 02 16.75212	11 55 26.15	+03 19 04.3		411
1985 PX	1994 02 16.76568	11 55 25.72	+03 19 11.5		411
1985 PX	1997 01 30.68609	09 53 08.75	+11 39 53.1	17.5	411
1985 PX	1997 01 30.69957	09 53 07.90	+11 39 57.7		411
1985 PX	1997 01 31.57264	09 52 19.35	+11 45 57.6		411
1985 PX	1997 01 31.58581	09 52 18.61	+11 46 02.2		411
1988 TE	1997 01 26.48276	07 27 17.26	+20 50 05.2		411
1988 TE	1997 01 26.49468	07 27 16.62	+20 50 04.7		411
1989 EX	1997 02 12.77542	11 37 27.24	+11 11 25.5	15.5	411
1989 EX	1997 02 12.78891	11 37 26.93	+11 11 33.9		411
1989 EX	1997 02 13.53891	11 37 09.41	+11 19 50.5		411
1989 EX	1997 02 13.55152	11 37 09.09	+11 19 59.3		411
1989 FG	1997 01 31.74428	11 10 51.41	+12 09 07.7		411
1989 FG	1997 01 31.76326	11 10 50.85	+12 09 12.4		411
1990 DU ₄	1997 02 01.53572	09 56 17.84	+08 47 11.7	16.5	411
1990 DU ₄	1997 02 01.54920	09 56 17.18	+08 47 15.7		411
1990 DU ₄	1997 02 03.47289	09 54 35.43	+08 57 59.7		411
1990 DU ₄	1997 02 03.48095	09 54 34.98	+08 58 02.0		411
1990 EL ₈	1997 01 29.54333	09 05 23.99	+21 29 22.4		411
1990 EL ₈	1997 01 29.55682	09 05 23.06	+21 29 25.3		411
1990 RD ₆	1997 01 30.61130	09 56 20.54	+20 22 03.3	17.5	411
1990 RD ₆	1997 01 30.63025	09 56 19.40	+20 22 07.0		411
1990 RD ₆	1997 01 31.63100	09 55 22.63	+20 24 41.1		411
1990 RD ₆	1997 01 31.64418	09 55 21.86	+20 24 42.9		411
1990 VQ ₆	1997 01 29.59714	09 12 00.98	+20 13 12.4	16.5	411
1990 VQ ₆	1997 01 29.61061	09 12 00.26	+20 13 17.8		411

1990 VQ ₆	1997 01 30.49866	09 11 16.73	+20 18 59.9		411
1990 VQ ₆	1997 01 30.51036	09 11 16.09	+20 19 04.7		411
1990 VZ ₆	1997 01 15.60001	09 30 17.89	+28 27 01.5		411
1990 VZ ₆	1997 01 15.61979	09 30 16.97	+28 27 07.0		411
1991 GM ₁₀	1997 01 15.56888	09 08 54.50	+18 55 12.0		411
1991 GM ₁₀	1997 01 15.58381	09 08 54.02	+18 55 14.4		411
1991 GM ₁₀	1997 01 27.68994	09 01 31.33	+19 34 11.6		411
1991 GM ₁₀	1997 01 27.70473	09 01 30.76	+19 34 14.0		411
1991 PX ₁₇	1997 02 01.72961	10 55 10.26	+12 46 44.1	16.5	411
1991 PX ₁₇	1997 02 01.74861	10 55 09.44	+12 46 47.9		411
1991 PX ₁₇	1997 02 03.59079	10 53 47.65	+12 53 04.7		411
1991 PX ₁₇	1997 02 03.59958	10 53 47.25	+12 53 05.3		411
1992 DC ₃	1997 02 01.74572	10 14 52.01	+10 00 31.0	17	411
1992 DC ₃	1997 02 01.75921	10 14 51.46	+10 00 34.4		411
1992 DC ₃	1997 02 03.50604	10 13 36.85	+10 08 38.5		411
1992 DC ₃	1997 02 03.51484	10 13 36.44	+10 08 42.0		411
1992 ER ₄	1997 02 12.66887	11 11 52.09	+10 10 48.2	17.5	411
1992 ER ₄	1997 02 12.68785	11 11 51.34	+10 10 53.7		411
1992 ER ₄	1997 02 13.60035	11 11 15.01	+10 15 24.7		411
1992 ER ₄	1997 02 13.61299	11 11 14.40	+10 15 28.5		411
1992 FZ	1997 02 03.74121	11 03 07.66	+11 28 45.4	16	411
1992 FZ	1997 02 03.75476	11 03 07.15	+11 28 47.1		411
1992 FZ	1997 02 04.60104	11 02 36.05	+11 30 20.4		411
1992 FZ	1997 02 04.61420	11 02 35.46	+11 30 22.2		411
1992 YB	1997 02 03.61538	10 53 25.73	+08 31 23.7		411
1992 YB	1997 02 03.62890	10 53 25.20	+08 31 29.4		411
1992 YS	1997 01 29.58395	09 51 05.40	+16 11 21.5		411
1992 YS	1997 01 29.60293	09 51 04.24	+16 11 29.7		411
1993 FF ₂₀	1997 01 29.51420	09 03 22.98	+21 31 31.4	17	411
1993 FF ₂₀	1997 01 29.52769	09 03 22.11	+21 31 36.8		411
1993 FF ₂₀	1997 01 30.58082	09 02 24.63	+21 38 26.3		411
1993 FF ₂₀	1997 01 30.58589	09 02 24.38	+21 38 29.0		411
1994 EL ₁	1997 01 31.71643	10 29 24.49	+14 28 58.5	17	411
1994 EL ₁	1997 01 31.73001	10 29 23.72	+14 29 03.3		411
1994 EL ₁	1997 02 01.54626	10 28 45.54	+14 36 00.7		411
1994 EL ₁	1997 02 01.55502	10 28 45.10	+14 36 05.5		411
1994 GA ₁	1997 02 01.73594	10 54 20.46	+14 20 59.0		411
1994 GA ₁	1997 02 01.75492	10 54 19.71	+14 21 07.1		411
1994 NT ₁	1997 01 16.53675	08 49 10.49	+17 35 05.5		411
1994 NT ₁	1997 01 16.54639	08 49 09.99	+17 35 10.4		411
1995 SH ₃₂	1997 02 13.64483	11 23 39.51	+03 50 37.0	17.5	411
1995 SH ₃₂	1997 02 13.65830	11 23 38.76	+03 50 39.2		411
1995 SH ₃₂	1997 02 14.66626	11 22 51.15	+03 53 04.4		411
1995 SH ₃₂	1997 02 14.67793	11 22 50.57	+03 53 07.6		411
1995 UF ₄₅	1997 01 30.66979	09 58 30.46	+15 54 59.0	17	411
1995 UF ₄₅	1997 01 30.68876	09 58 29.67	+15 55 04.0		411
1995 UF ₄₅	1997 01 31.63537	09 57 46.36	+15 59 26.0		411
1995 UF ₄₅	1997 01 31.64855	09 57 45.79	+15 59 29.9		411
1995 WH	1997 02 11.62987	10 16 40.78	+14 40 46.8		411
1995 WH	1997 02 11.63719	10 16 40.41	+14 40 49.1		411
1995 XE ₁	1997 02 14.62814	11 23 40.34	+14 33 10.0	16.5	411
1995 XE ₁	1997 02 14.64163	11 23 39.83	+14 33 13.7		411

1995 XE ₁	1997 02 16.60118	11 22 25.72	+14 43 43.1	411	1996 YZ	1997 01 26.50492	07 30 36.72	+21 16 35.8	411
1995 XE ₁	1997 02 16.61293	11 22 25.26	+14 43 48.3	411	1996 YZ	1997 01 26.51662	07 30 36.09	+21 16 36.1	411
1996 VN ₆	1997 02 01.69797	10 53 24.82	+14 13 44.7	18 411	1996 YA ₁	1997 01 26.52845	07 34 20.16	+23 02 05.3	411
1996 VN ₆	1997 02 01.71696	10 53 23.86	+14 13 46.1	411	1996 YA ₁	1997 01 26.54021	07 34 19.60	+23 02 06.7	411
1996 VN ₆	1997 02 03.61938	10 51 47.79	+14 17 13.8	411	1996 YB ₁	1997 01 26.47830	07 24 19.26	+24 48 21.5	411
1996 VN ₆	1997 02 03.63019	10 51 47.15	+14 17 16.5	411	1996 YB ₁	1997 01 26.49023	07 24 18.61	+24 48 23.0	411
1996 WR ₂	1997 02 11.62958	11 12 31.70	+13 43 59.5	17 411	1996 YC ₁	1997 01 26.50639	07 31 11.79	+17 17 34.5	411
1996 WR ₂	1997 02 11.64307	11 12 31.16	+13 44 06.0	411	1996 YC ₁	1997 01 26.51809	07 31 11.00	+17 17 33.3	411
1996 WR ₂	1997 02 12.64046	11 11 50.82	+13 51 37.6	411	1996 YH ₂	1997 01 31.78407	10 34 05.50	+17 06 38.8	17.5 411
1996 WR ₂	1997 02 12.64925	11 11 50.46	+13 51 41.9	411	1996 YH ₂	1997 01 31.79765	10 34 04.81	+17 06 45.3	411
1996 YB	1997 01 26.45340	07 13 49.30	+26 35 24.4	411	1996 YH ₂	1997 02 01.54918	10 33 29.46	+17 11 14.2	411
1996 YB	1997 01 26.46798	07 13 48.58	+26 35 29.2	411	1996 YH ₂	1997 02 01.55794	10 33 29.01	+17 11 18.0	411
1996 YC	1997 01 26.43318	06 58 12.83	+16 48 20.2	411	1996 YN ₂	1997 01 15.43718	06 34 52.47	+20 27 26.9	411
1996 YC	1997 01 26.43827	06 58 12.49	+16 48 16.2	411	1996 YN ₂	1997 01 15.44239	06 34 52.20	+20 27 26.8	411
1996 YD	1997 01 26.44465	07 09 18.63	+26 52 52.0	411	1996 YN ₂	1997 01 26.41938	06 26 33.93	+20 28 11.5	411
1996 YD	1997 01 26.45922	07 09 17.79	+26 52 52.5	411	1996 YN ₂	1997 01 26.42785	06 26 33.65	+20 28 12.9	411
1996 YE	1997 01 27.44804	07 07 20.88	+24 45 31.1	411	1996 YQ ₂	1997 01 26.44756	07 11 06.15	+26 13 33.3	411
1996 YE	1997 01 27.45312	07 07 20.63	+24 45 30.5	411	1996 YQ ₂	1997 01 26.46214	07 11 05.40	+26 13 37.9	411
1996 YF	1997 01 26.44611	07 10 35.50	+29 02 29.4	411	1996 YR ₂	1997 01 26.45047	07 12 42.41	+25 47 58.0	411
1996 YF	1997 01 26.46068	07 10 34.67	+29 02 32.1	411	1996 YR ₂	1997 01 26.46505	07 12 41.63	+25 47 55.7	411
1996 YG	1997 01 26.45484	07 14 31.37	+26 38 23.9	411	1996 YS ₂	1997 01 26.47236	07 15 45.30	+28 15 41.4	411
1996 YG	1997 01 26.46944	07 14 30.54	+26 38 23.5	411	1996 YS ₂	1997 01 26.48428	07 15 44.73	+28 15 43.3	411
1996 YH	1997 01 26.47679	07 23 54.40	+16 04 40.3	411	1997 AD	1997 01 26.48276	07 27 02.15	+21 00 05.5	411
1996 YH	1997 01 26.48871	07 23 53.73	+16 04 36.8	411	1997 AD	1997 01 26.49468	07 27 01.38	+21 00 02.3	411
1996 YJ	1997 01 26.47533	07 21 47.99	+19 16 42.4	411	1997 AE	1997 01 26.50053	07 30 05.27	+24 55 25.3	411
1996 YJ	1997 01 26.48725	07 21 47.24	+19 16 41.7	411	1997 AE	1997 01 26.51222	07 30 04.73	+24 55 25.8	411
1996 YK	1997 01 26.52699	07 34 09.51	+21 03 59.8	411	1997 AF	1997 01 15.48116	07 43 17.09	+24 43 32.9	411
1996 YK	1997 01 26.53875	07 34 09.01	+21 03 59.7	411	1997 AF	1997 01 15.48627	07 43 16.76	+24 43 35.3	411
1996 YK	1997 01 27.46364	07 33 26.53	+21 05 40.0	411	1997 AF	1997 01 26.52106	07 31 37.81	+25 41 43.1	411
1996 YK	1997 01 27.46533	07 33 26.53	+21 05 40.8	411	1997 AF	1997 01 26.53282	07 31 37.13	+25 41 46.2	411
1996 YM	1997 01 26.44901	07 11 58.47	+25 09 54.2	411	1997 AG	1997 01 26.49907	07 29 53.40	+24 03 59.9	411
1996 YM	1997 01 26.46359	07 11 57.60	+25 09 57.4	411	1997 AG	1997 01 26.51078	07 29 52.65	+24 04 00.1	411
1996 YO	1997 01 26.47979	07 25 12.06	+19 04 59.7	411	1997 AH	1997 01 26.52991	07 34 22.03	+26 18 33.9	411
1996 YO	1997 01 26.49171	07 25 11.35	+19 05 01.6	411	1997 AH	1997 01 26.54167	07 34 21.28	+26 18 37.5	411
1996 YP	1997 01 26.45193	07 13 10.58	+22 30 23.8	411	1997 AJ	1997 01 15.48116	07 43 59.67	+24 44 22.1	411
1996 YP	1997 01 26.46651	07 13 09.75	+22 30 22.6	411	1997 AJ	1997 01 15.48627	07 43 59.34	+24 44 22.1	411
1996 YR	1997 01 26.48128	07 25 25.38	+25 48 42.4	411	1997 AJ	1997 01 26.52257	07 32 33.27	+24 13 38.4	411
1996 YR	1997 01 26.49320	07 25 24.63	+25 48 46.4	411	1997 AJ	1997 01 26.53433	07 32 32.58	+24 13 36.6	411
1996 YS	1997 01 26.50201	07 30 11.77	+19 50 38.6	411	1997 AK	1997 01 26.65021	08 21 16.38	+20 51 14.5	411
1996 YS	1997 01 26.51370	07 30 11.24	+19 50 38.0	411	1997 AK	1997 01 26.66498	08 21 15.46	+20 51 14.6	411
1996 YT	1997 01 26.45630	07 15 05.52	+27 26 46.3	411	1997 AL	1997 01 26.63992	08 18 40.27	+21 24 44.3	411
1996 YT	1997 01 26.47090	07 15 04.62	+27 26 46.8	411	1997 AL	1997 01 26.65470	08 18 39.45	+21 24 44.3	411
1996 YU	1997 01 26.52404	07 33 34.46	+20 06 48.6	411	1997 AM	1997 01 26.62153	08 17 54.73	+23 31 10.4	411
1996 YU	1997 01 26.53580	07 33 33.84	+20 06 51.8	411	1997 AM	1997 01 26.63698	08 17 53.89	+23 31 15.5	411
1996 YV	1997 01 26.50347	07 30 26.35	+20 51 47.2	411	1997 AO	1997 01 26.64286	08 19 15.34	+25 42 27.7	411
1996 YV	1997 01 26.51516	07 30 25.64	+20 51 50.9	411	1997 AO	1997 01 26.65763	08 19 14.38	+25 42 43.9	411
1996 YW	1997 01 26.47381	07 18 02.55	+27 50 35.0	411	1997 AP	1997 01 26.61275	08 15 44.39	+19 03 34.1	411
1996 YW	1997 01 26.48573	07 18 01.83	+27 50 36.9	411	1997 AP	1997 01 26.62819	08 15 43.46	+19 03 37.5	411
1996 YX	1997 01 26.49615	07 27 41.83	+17 12 28.0	411	1997 AQ	1997 01 26.62007	08 17 46.11	+21 11 53.3	411
1996 YX	1997 01 26.50785	07 27 41.21	+17 12 26.9	411	1997 AQ	1997 01 26.63552	08 17 45.14	+21 12 00.5	411
1996 YY	1997 01 26.49760	07 28 44.32	+19 24 40.8	411	1997 AR	1997 01 26.62301	08 18 40.62	+18 56 18.5	411
1996 YY	1997 01 26.50931	07 28 43.63	+19 24 40.5	411	1997 AR	1997 01 26.63846	08 18 39.69	+18 56 21.6	411

1997 AS	1997 01 26.64138	08 18 56.05	+21 03 35.0	411	1997 AX ₁	1997 01 26.59505	07 59 42.00	+25 25 35.2	411
1997 AS	1997 01 26.65616	08 18 55.24	+21 03 39.0	411	1997 AY ₁	1997 01 26.58179	08 00 49.57	+29 03 27.9	411
1997 AT	1997 01 26.61861	08 17 45.42	+22 54 08.4	411	1997 AY ₁	1997 01 26.59652	08 00 48.59	+29 03 30.6	411
1997 AT	1997 01 26.63406	08 17 44.47	+22 54 13.5	411	1997 AZ ₁	1997 01 26.58325	08 04 54.66	+28 23 50.4	411
1997 AU	1997 01 27.48916	08 20 01.47	+22 46 43.8	411	1997 AZ ₁	1997 01 26.59799	08 04 53.68	+28 23 50.5	411
1997 AU	1997 01 27.49424	08 20 01.18	+22 46 44.3	411	1997 AA ₂	1997 01 15.50992	08 16 45.33	+24 39 52.0	411
1997 AV	1997 01 26.61421	08 16 25.73	+21 48 51.1	411	1997 AA ₂	1997 01 15.51534	08 16 44.97	+24 39 52.8	411
1997 AV	1997 01 26.62965	08 16 24.65	+21 48 52.3	411	1997 AA ₂	1997 01 26.58471	08 05 34.39	+25 13 32.1	411
1997 AW	1997 01 26.61716	08 17 21.52	+22 45 46.7	411	1997 AA ₂	1997 01 26.59944	08 05 33.46	+25 13 34.1	411
1997 AW	1997 01 26.63260	08 17 20.38	+22 45 49.7	411	1997 AB ₂	1997 01 16.51944	08 16 35.08	+26 12 21.3	411
1997 AY	1997 01 26.55541	07 48 24.21	+25 50 58.7	411	1997 AB ₂	1997 01 16.52363	08 16 34.85	+26 12 23.9	411
1997 AY	1997 01 26.57008	07 48 23.49	+25 51 00.8	411	1997 AB ₂	1997 01 26.58766	08 06 18.39	+27 43 01.5	411
1997 AZ	1997 01 26.66948	08 22 44.18	+22 43 50.0	411	1997 AB ₂	1997 01 26.60240	08 06 17.50	+27 43 07.6	411
1997 AZ	1997 01 26.68438	08 22 43.32	+22 43 53.9	411	1997 AC ₂	1997 01 26.59213	08 08 03.91	+27 07 36.6	411
1997 AA ₁	1997 01 15.47123	07 59 49.30	+23 15 18.9	411	1997 AC ₂	1997 01 26.60688	08 08 03.04	+27 07 36.3	411
1997 AA ₁	1997 01 15.47528	07 59 49.00	+23 15 19.7	411	1997 AD ₂	1997 01 26.58618	08 05 42.84	+29 00 31.2	411
1997 AA ₁	1997 01 15.47664	07 59 48.98	+23 15 20.5	411	1997 AD ₂	1997 01 26.60091	08 05 41.76	+29 00 33.3	411
1997 AA ₁	1997 01 26.55831	07 50 04.67	+23 42 30.9	411	1997 AE ₂	1997 01 15.55047	09 07 12.40	+15 18 47.6	411
1997 AA ₁	1997 01 26.57299	07 50 03.93	+23 42 32.8	411	1997 AE ₂	1997 01 15.56582	09 07 11.77	+15 18 48.0	411
1997 AB ₁	1997 01 15.46118	07 55 45.27	+24 52 28.1	411	1997 AE ₂	1997 01 27.65608	08 56 48.09	+15 32 15.6	411
1997 AB ₁	1997 01 15.46660	07 55 44.97	+24 52 29.3	411	1997 AE ₂	1997 01 27.67226	08 56 47.19	+15 32 17.1	411
1997 AB ₁	1997 01 26.55244	07 43 15.71	+25 43 05.2	411	1997 AF ₂	1997 01 28.51365	08 55 49.55	+19 27 47.8	411
1997 AB ₁	1997 01 26.56712	07 43 14.68	+25 43 10.3	411	1997 AF ₂	1997 01 28.52214	08 55 49.12	+19 27 51.6	411
1997 AD ₁	1997 01 26.67094	08 23 04.79	+20 06 25.2	411	1997 AG ₂	1997 01 27.64873	08 55 30.26	+17 00 07.5	411
1997 AD ₁	1997 01 26.68583	08 23 03.84	+20 06 30.4	411	1997 AG ₂	1997 01 27.66492	08 55 29.24	+17 00 10.0	411
1997 AE ₁	1997 01 26.64730	08 21 12.59	+18 29 00.6	411	1997 AH ₂	1997 01 27.64433	08 55 02.01	+18 26 03.2	411
1997 AE ₁	1997 01 26.66207	08 21 11.61	+18 28 59.5	411	1997 AH ₂	1997 01 27.66052	08 55 01.08	+18 26 04.8	411
1997 AF ₁	1997 01 27.50861	08 26 44.02	+21 10 45.0	411	1997 AJ ₂	1997 01 15.54893	09 07 03.32	+19 25 14.8	411
1997 AF ₁	1997 01 27.52344	08 26 43.23	+21 10 47.7	411	1997 AJ ₂	1997 01 15.56428	09 07 02.47	+19 25 21.3	411
1997 AG ₁	1997 01 26.67531	08 24 48.04	+20 57 01.5	411	1997 AJ ₂	1997 01 27.64578	08 55 20.39	+20 52 21.7	411
1997 AG ₁	1997 01 26.69021	08 24 47.22	+20 57 02.2	411	1997 AJ ₂	1997 01 27.66197	08 55 19.34	+20 52 28.3	411
1997 AK ₁	1997 01 26.55685	07 49 43.24	+26 20 35.6	411	1997 AK ₂	1997 01 15.55200	09 08 33.21	+18 44 38.3	411
1997 AK ₁	1997 01 26.57153	07 49 42.29	+26 20 40.3	411	1997 AK ₂	1997 01 15.56736	09 08 32.48	+18 44 41.6	411
1997 AL ₁	1997 01 26.68145	08 25 26.11	+17 10 14.9	411	1997 AK ₂	1997 01 27.67959	08 58 42.36	+19 31 17.6	411
1997 AL ₁	1997 01 26.69635	08 25 25.21	+17 10 13.4	411	1997 AK ₂	1997 01 27.69436	08 58 41.57	+19 31 21.1	411
1997 AN ₁	1997 01 26.65323	08 22 10.30	+17 35 10.6	411	1997 AM ₂	1997 01 14.58163	08 23 46.58	+25 09 03.1	411
1997 AN ₁	1997 01 26.66800	08 22 09.31	+17 35 09.1	411	1997 AM ₂	1997 01 14.59691	08 23 45.50	+25 09 08.8	411
1997 AO ₁	1997 01 16.50496	08 38 29.85	+19 52 03.0	411	1997 AM ₂	1997 01 26.59359	08 10 11.01	+26 13 05.8	411
1997 AO ₁	1997 01 16.51434	08 38 29.45	+19 52 05.3	411	1997 AM ₂	1997 01 26.60833	08 10 10.00	+26 13 09.6	411
1997 AO ₁	1997 01 27.51308	08 31 09.30	+20 27 30.7	411	1997 AN ₂	1997 01 26.59064	08 07 58.51	+25 44 45.2	411
1997 AO ₁	1997 01 27.52791	08 31 08.72	+20 27 33.4	411	1997 AN ₂	1997 01 26.60538	08 07 57.46	+25 44 45.8	411
1997 AP ₁	1997 01 27.50713	08 26 22.37	+22 28 56.8	411	1997 AO ₂	1997 01 26.60979	08 14 28.72	+29 06 23.8	411
1997 AP ₁	1997 01 27.52196	08 26 21.61	+22 29 02.4	411	1997 AO ₂	1997 01 26.62455	08 14 27.82	+29 06 28.7	411
1997 AQ ₁	1997 01 26.64876	08 21 16.56	+20 21 52.4	411	1997 AP ₂	1997 01 15.55506	09 08 59.27	+15 30 32.6	411
1997 AQ ₁	1997 01 26.66352	08 21 15.51	+20 21 53.2	411	1997 AP ₂	1997 01 15.57042	09 08 58.54	+15 30 38.6	411
1997 AR ₁	1997 01 26.67240	08 23 13.35	+23 18 40.6	411	1997 AP ₂	1997 01 27.67813	08 58 35.55	+16 44 22.8	411
1997 AR ₁	1997 01 26.68729	08 23 12.35	+23 18 45.3	411	1997 AP ₂	1997 01 27.69289	08 58 34.65	+16 44 28.0	411
1997 AV ₁	1997 01 26.56270	07 56 43.98	+24 07 29.4	411	1997 AQ ₂	1997 01 26.61127	08 14 29.27	+23 50 26.4	411
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1997 AW ₁	1997 01 26.56418	07 57 43.70	+29 11 28.4	411	1997 AR ₂	1997 01 15.55659	09 10 32.04	+17 02 25.1	411
1997 AW ₁	1997 01 26.57885	07 57 42.70	+29 11 30.7	411	1997 AR ₂	1997 01 15.57195	09 10 31.40	+17 02 29.5	411
1997 AX ₁	1997 01 26.58032	07 59 42.89	+25 25 38.0	411	1997 AR ₂	1997 01 28.53614	09 00 37.53	+17 57 51.4	411

1997 AR ₂	1997 01 28.54916	09 00 36.89	+17 57 54.9	411	1997 AW ₃	1997 01 16.53914	08 35 48.81	+16 55 30.5	411
1997 AS ₂	1997 01 15.54281	09 01 40.97	+16 20 19.9	411	1997 AW ₃	1997 01 26.68291	08 25 26.06	+18 07 10.2	411
1997 AS ₂	1997 01 15.55813	09 01 39.68	+16 20 14.9	411	1997 AW ₃	1997 01 26.69781	08 25 25.09	+18 07 16.0	411
1997 AS ₂	1997 01 27.54865	08 44 27.49	+15 19 32.0	411	1997 AX ₃	1997 01 16.53068	08 36 52.16	+15 47 36.7	411
1997 AS ₂	1997 01 27.56363	08 44 26.17	+15 19 27.0	411	1997 AX ₃	1997 01 16.54034	08 36 51.45	+15 47 37.6	411
1997 AT ₂	1997 01 26.56123	07 54 24.72	+28 40 14.4	411	1997 AX ₃	1997 01 27.49854	08 23 59.95	+16 13 50.9	411
1997 AT ₂	1997 01 26.57590	07 54 23.73	+28 40 15.4	411	1997 AX ₃	1997 01 27.50395	08 23 59.56	+16 13 51.8	411
1997 AU ₂	1997 01 26.55098	07 40 19.52	+28 28 24.9	411	1997 AY ₃	1997 01 27.51456	08 33 24.55	+15 29 58.1	411
1997 AU ₂	1997 01 26.56566	07 40 18.75	+28 28 30.6	411	1997 AY ₃	1997 01 27.52939	08 33 23.56	+15 30 05.6	411
1997 AV ₂	1997 01 26.55977	07 53 57.70	+25 33 10.3	411	1997 AZ ₃	1997 01 16.57758	09 10 56.50	+16 05 42.7	411
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1997 AW ₂	1997 01 26.65170	08 22 08.61	+27 10 35.1	411	1997 AA ₄	1997 01 16.57372	09 09 14.54	+14 48 51.2	411
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1997 AX ₂	1997 01 15.52439	08 35 31.31	+27 01 20.6	411	1997 AA ₄	1997 01 27.67664	08 58 05.50	+15 24 05.3	411
1997 AX ₂	1997 01 15.53511	08 35 30.69	+27 01 25.7	411	1997 AA ₄	1997 01 27.69141	08 58 04.50	+15 24 07.8	411
1997 AX ₂	1997 01 26.67682	08 24 58.52	+28 24 17.9	411	1997 AB ₄	1997 01 16.56988	09 08 18.80	+17 41 35.3	411
1997 AX ₂	1997 01 26.69171	08 24 57.63	+28 24 25.5	411	1997 AB ₄	1997 01 16.58266	09 08 18.09	+17 41 37.5	411
1997 AY ₂	1997 01 15.52745	08 37 10.14	+27 01 10.0	411	1997 AB ₄	1997 01 27.65165	08 56 15.80	+18 17 17.9	411
1997 AY ₂	1997 01 15.53817	08 37 09.61	+27 01 13.5	411	1997 AB ₄	1997 01 27.66784	08 56 14.70	+18 17 20.8	411
1997 AY ₂	1997 01 27.51012	08 26 39.51	+28 01 10.5	411	1997 AC ₄	1997 01 16.57564	09 10 01.52	+18 14 03.1	411
1997 AY ₂	1997 01 27.52494	08 26 38.68	+28 01 14.4	411	1997 AC ₄	1997 01 16.58655	09 10 00.81	+18 14 06.1	411
1997 AZ ₂	1997 01 15.51980	08 30 24.00	+26 58 36.1	411	1997 AC ₄	1997 01 27.68105	08 58 56.59	+18 57 01.5	411
1997 AZ ₂	1997 01 15.53052	08 30 23.27	+26 58 37.1	411	1997 AC ₄	1997 01 27.69583	08 58 55.63	+18 57 05.1	411
1997 AZ ₂	1997 01 26.61569	08 16 22.87	+27 01 44.0	411	1997 AD ₄	1997 01 16.59361	09 11 20.77	+18 09 40.2	411
1997 AZ ₂	1997 01 26.63113	08 16 21.72	+27 01 43.6	411	1997 AD ₄	1997 01 16.60388	09 11 20.22	+18 09 42.5	411
1997 AA ₃	1997 01 15.52286	08 32 40.69	+27 23 48.4	411	1997 AD ₄	1997 01 27.68847	09 00 50.64	+18 37 09.9	411
1997 AA ₃	1997 01 15.53358	08 32 40.02	+27 23 49.4	411	1997 AD ₄	1997 01 27.70326	09 00 49.73	+18 37 11.3	411
1997 AA ₃	1997 01 26.64579	08 20 53.14	+27 12 30.6	411	1997 AE ₄	1997 01 16.53554	08 48 04.54	+17 20 35.6	411
1997 AA ₃	1997 01 26.66056	08 20 52.27	+27 12 28.6	411	1997 AE ₄	1997 01 16.54520	08 48 04.10	+17 20 39.8	411
1997 AB ₃	1997 01 15.52592	08 37 04.57	+23 47 21.5	411	1997 AE ₄	1997 01 27.53824	08 39 11.09	+18 38 32.7	411
1997 AB ₃	1997 01 15.53664	08 37 03.81	+23 47 20.8	411	1997 AE ₄	1997 01 27.55324	08 39 10.31	+18 38 39.2	411
1997 AB ₃	1997 01 26.67385	08 24 01.48	+23 21 14.9	411	1997 AF ₄	1997 01 16.59519	09 13 24.28	+15 12 57.5	411
1997 AB ₃	1997 01 26.68875	08 24 00.44	+23 21 12.3	411	1997 AF ₄	1997 01 16.60547	09 13 23.84	+15 13 02.0	411
1997 AC ₃	1997 01 15.52745	08 37 12.99	+27 00 39.9	411	1997 AF ₄	1997 01 28.56370	09 04 23.88	+16 50 16.0	411
1997 AC ₃	1997 01 15.53817	08 37 12.28	+27 00 39.6	411	1997 AF ₄	1997 01 28.57553	09 04 23.29	+16 50 21.8	411
1997 AC ₃	1997 01 26.67992	08 25 12.94	+26 59 55.2	411	1997 AF ₄	1997 01 29.50145	09 03 37.43	+16 58 12.2	411
1997 AC ₃	1997 01 26.69482	08 25 11.93	+26 59 53.9	411	1997 AF ₄	1997 01 29.50549	09 03 37.20	+16 58 14.9	411
1997 AD ₃	1997 01 16.53191	08 39 55.20	+27 05 08.6	411	1997 AG ₄	1997 01 16.57915	09 10 52.80	+15 24 10.3	411
1997 AD ₃	1997 01 16.54156	08 39 54.53	+27 05 09.4	411	1997 AG ₄	1997 01 16.59008	09 10 52.16	+15 24 07.9	411
1997 AD ₃	1997 01 27.51157	08 27 14.12	+27 19 40.6	411	1997 AG ₄	1997 01 27.68252	08 59 29.22	+14 48 56.5	411
1997 AD ₃	1997 01 27.52640	08 27 12.99	+27 19 40.5	411	1997 AG ₄	1997 01 27.69730	08 59 28.21	+14 48 53.9	411
1997 AE ₃	1997 01 16.55237	08 53 18.58	+29 02 49.7	411	1997 AH ₄	1997 01 16.58072	09 11 00.61	+16 50 00.0	411
1997 AE ₃	1997 01 16.56273	08 53 18.05	+29 02 58.0	411	1997 AH ₄	1997 01 16.59166	09 11 00.01	+16 50 02.3	411
1997 AE ₃	1997 01 27.55024	08 42 51.66	+31 10 43.2	411	1997 AH ₄	1997 01 28.52456	08 58 46.55	+17 30 28.6	411
1997 AE ₃	1997 01 27.56523	08 42 50.65	+31 10 52.8	411	1997 AH ₄	1997 01 28.52964	08 58 46.24	+17 30 29.6	411
1997 AF ₃	1997 01 16.55117	08 52 54.06	+27 37 36.7	411	1997 AJ ₄	1997 01 16.53434	08 46 09.93	+13 28 35.4	411
1997 AF ₃	1997 01 16.56153	08 52 53.37	+27 37 39.9	411	1997 AJ ₄	1997 01 16.54400	08 46 09.29	+13 28 35.4	411
1997 AF ₃	1997 01 27.54565	08 41 17.57	+28 27 44.9	411	1997 AJ ₄	1997 01 27.51603	08 33 45.14	+13 38 24.4	411
1997 AF ₃	1997 01 27.56065	08 41 16.53	+28 27 48.4	411	1997 AJ ₄	1997 01 27.53084	08 33 44.07	+13 38 25.2	411
1997 AW ₃	1997 01 16.52948	08 35 49.40	+16 55 26.2	411	1997 AK ₄	1997 01 16.53795	08 50 14.86	+15 54 33.6	411

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1997 AM ₄	1997 01 16.59997	09 14 08.48	+14 52 44.9	411	1997 AQ ₅	1997 01 28.57106	09 11 28.20	+26 10 40.6	411
1997 AM ₄	1997 01 16.61027	09 14 08.02	+14 52 49.6	411	1997 AQ ₅	1997 01 28.58289	09 11 27.61	+26 10 44.8	411
1997 AM ₄	1997 01 28.56516	09 04 23.11	+16 22 08.9	411	1997 AR ₅	1997 01 28.57252	09 14 37.18	+24 05 01.8	411
1997 AM ₄	1997 01 28.57698	09 04 22.42	+16 22 13.7	411	1997 AR ₅	1997 01 28.58435	09 14 36.57	+24 05 08.6	411
1997 AN ₄	1997 01 16.59801	09 13 49.37	+15 24 40.9	411	1997 AU ₅	1997 01 28.58580	09 18 09.78	+25 07 10.1	411
1997 AN ₄	1997 01 16.60830	09 13 48.74	+15 24 42.5	411	1997 AU ₅	1997 01 28.60208	09 18 08.85	+25 07 11.4	411
1997 AN ₄	1997 01 28.54475	09 01 51.35	+16 10 29.4	411	1997 AW ₆	1997 01 28.53761	09 00 41.56	+22 03 31.3	411
1997 AN ₄	1997 01 28.55777	09 01 50.42	+16 10 33.0	411	1997 AW ₆	1997 01 28.55063	09 00 40.82	+22 03 33.3	411
1997 AO ₄	1997 01 16.60192	09 15 13.28	+16 40 38.6	411	1997 AX ₆	1997 01 27.61380	08 51 26.85	+13 23 21.4	411
1997 AO ₄	1997 01 16.61223	09 15 12.83	+16 40 41.8	411	1997 AX ₆	1997 01 27.63054	08 51 26.07	+13 23 29.0	411
1997 AO ₄	1997 01 28.56665	09 05 20.88	+17 45 03.0	411	1997 AY ₆	1997 01 29.53356	09 23 27.61	+12 51 18.3	411
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1997 AP ₄	1997 01 16.54877	08 50 56.65	+14 50 59.7	411	1997 AZ ₆	1997 01 27.61695	08 50 49.60	+14 52 21.5	411
1997 AP ₄	1997 01 16.55912	08 50 56.09	+14 51 01.7	411	1997 AZ ₆	1997 01 27.63369	08 50 48.56	+14 52 25.6	411
1997 AP ₄	1997 01 27.54409	08 40 39.00	+15 32 06.8	411	1997 AA ₇	1997 01 16.66651	09 37 25.87	+13 44 23.9	411
1997 AP ₄	1997 01 27.55909	08 40 38.09	+15 32 10.7	411	1997 AA ₇	1997 01 16.67334	09 37 25.60	+13 44 25.8	411
1997 AQ ₄	1997 01 16.59641	09 13 47.06	+18 34 14.5	411	1997 AA ₇	1997 01 28.58884	09 27 10.91	+14 52 47.5	411
1997 AQ ₄	1997 01 16.60670	09 13 46.52	+18 34 19.4	411	1997 AA ₇	1997 01 28.60511	09 27 09.99	+14 52 54.0	411
1997 AQ ₄	1997 01 28.54622	09 02 35.18	+20 01 11.2	411	1997 AB ₇	1997 01 28.59030	09 27 40.03	+17 15 41.9	411
1997 AQ ₄	1997 01 28.55924	09 02 34.33	+20 01 17.5	411	1997 AB ₇	1997 01 28.60657	09 27 39.07	+17 15 47.3	411
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1997 AR ₄	1997 01 16.56398	08 54 47.38	+15 18 29.2	411	1997 AC ₇	1997 01 27.66347	08 55 28.87	+15 01 45.5	411
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1997 AS ₄	1997 01 16.56519	08 55 08.86	+15 44 32.8	411	1997 AE ₇	1997 01 27.67079	08 56 35.50	+11 41 42.6	411
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1997 AS ₄	1997 01 27.58335	08 45 58.31	+16 28 22.4	411	1997 AF ₇	1997 02 01.51552	09 29 20.91	+14 05 50.3	411
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1997 AT ₄	1997 01 27.55617	08 40 19.76	+17 05 19.7	411	1997 AG ₇	1997 01 27.67373	08 57 40.73	+11 42 18.2	411
1997 AU ₄	1997 01 16.55758	08 57 17.44	+14 37 31.8	411	1997 AH ₇	1997 01 27.65902	08 57 23.05	+12 31 43.7	411
1997 AU ₄	1997 01 16.56796	08 57 16.87	+14 37 33.7	411	1997 AH ₇	1997 01 27.67518	08 57 22.02	+12 31 50.4	411
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1997 AU ₄	1997 01 27.58793	08 47 20.12	+15 14 31.4	411	1997 AJ ₇	1997 01 28.61244	09 29 35.72	+13 11 15.3	411
1997 AV ₄	1997 01 16.55602	08 57 34.63	+15 55 38.0	411	1997 AL ₇	1997 01 27.65019	08 55 48.80	+14 56 44.8	411
1997 AV ₄	1997 01 16.56639	08 57 34.13	+15 55 41.8	411	1997 AL ₇	1997 01 27.66638	08 55 47.80	+14 56 50.6	411
1997 AV ₄	1997 01 27.57586	08 48 19.66	+17 01 52.4	411	1997 AM ₇	1997 01 28.59177	09 27 40.10	+16 39 32.8	411
1997 AV ₄	1997 01 27.59092	08 48 18.86	+17 01 58.5	411	1997 AM ₇	1997 01 28.60803	09 27 38.94	+16 39 35.7	411
1997 AK ₅	1997 01 27.68545	08 59 46.02	+21 50 47.1	411	1997 AN ₇	1997 01 27.68697	09 00 38.98	+12 00 52.0	411
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1997 AL ₅	1997 01 28.54192	09 01 38.35	+23 07 42.4	411	1997 AO ₇	1997 01 28.64752	09 02 18.53	+13 51 28.3	411
1997 AL ₅	1997 01 28.55494	09 01 37.53	+23 07 40.8	411	1997 AO ₇	1997 01 28.65262	09 02 18.21	+13 51 30.0	411
1997 AM ₅	1997 01 28.54768	09 02 44.51	+23 40 48.4	411	1997 AO ₇	1997 01 29.52482	09 01 23.30	+13 57 06.4	411
1997 AM ₅	1997 01 28.56070	09 02 43.62	+23 40 52.0	411	1997 AO ₇	1997 01 29.53021	09 01 22.98	+13 57 09.4	411
1997 AN ₅	1997 01 28.54321	09 01 17.88	+26 55 12.5	411	1997 AU ₉	1997 01 27.68252	09 00 04.02	+14 48 35.4	411
1997 AN ₅	1997 01 28.55623	09 01 16.95	+26 55 17.3	411	1997 AU ₉	1997 01 27.69730	09 00 03.05	+14 48 40.2	411
1997 AO ₅	1997 01 28.56814	09 05 30.73	+24 15 32.7	411	1997 AU ₉	1997 01 29.49317	08 58 10.65	+14 59 36.1	411

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1997 AQ ₁₂	1997 01 27.53677	08 38 58.37	+22 23 54.1	411	1997 AE ₁₅	1997 01 27.46994	08 32 05.28	+34 30 31.2	411
1997 AQ ₁₂	1997 01 27.55177	08 38 57.56	+22 24 00.1	411	1997 AE ₁₅	1997 01 27.47503	08 32 04.94	+34 30 33.5	411
1997 AR ₁₂	1997 01 27.51903	08 35 38.81	+21 23 41.8	411	1997 AF ₁₅	1997 01 27.47902	08 37 54.24	+31 36 18.9	411
1997 AR ₁₂	1997 01 27.53384	08 35 37.92	+21 23 41.7	411	1997 AF ₁₅	1997 01 27.48409	08 37 53.86	+31 36 20.7	411
1997 AS ₁₂	1997 01 27.51757	08 35 36.91	+23 51 00.3	411	1997 AS ₁₆	1997 01 26.52552	07 33 37.23	+25 06 58.7	411
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1997 AT ₁₂	1997 01 27.53970	08 40 01.39	+21 09 35.8	411	1997 AT ₁₆	1997 01 26.53137	07 31 48.82	+25 13 03.7	411
1997 AT ₁₂	1997 01 27.55470	08 40 00.40	+21 09 37.4	411	1997 AT ₁₆	1997 01 26.54630	07 31 47.94	+25 13 06.6	411
1997 AU ₁₂	1997 01 27.52049	08 38 10.78	+21 43 39.9	411	1997 AT ₁₆	1997 02 09.42784	07 21 01.67	+25 40 49.8	411
1997 AU ₁₂	1997 01 27.53530	08 38 09.68	+21 43 40.7	411	1997 AT ₁₆	1997 02 09.43292	07 21 01.49	+25 40 50.2	411
1997 AV ₁₂	1997 01 27.57138	08 46 22.18	+21 20 24.8	411	1997 AU ₁₆	1997 01 26.58914	08 07 11.46	+32 25 42.8	411
1997 AV ₁₂	1997 01 27.58644	08 46 21.35	+21 20 29.0	411	1997 AU ₁₆	1997 01 26.60388	08 07 10.48	+32 26 00.2	411
1997 AW ₁₂	1997 01 27.54716	08 41 21.94	+20 44 25.4	411	1997 AX ₁₇	1997 01 28.60060	09 32 03.38	+20 48 47.9	411
1997 AW ₁₂	1997 01 27.56215	08 41 20.81	+20 44 24.4	411	1997 AX ₁₇	1997 01 28.61685	09 32 02.32	+20 48 54.3	411
1997 AX ₁₂	1997 01 27.59911	08 50 19.24	+22 04 35.0	411	1997 AY ₁₇	1997 01 28.59914	09 32 38.51	+20 46 54.0	411
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1997 AY ₁₂	1997 01 27.57438	08 47 48.03	+22 02 19.4	411	1997 AB ₁₈	1997 01 28.62271	09 49 04.68	+20 02 32.1	411
1997 AY ₁₂	1997 01 27.58944	08 47 47.14	+22 02 24.3	411	1997 AB ₁₈	1997 01 28.63149	09 49 04.18	+20 02 33.7	411
1997 AZ ₁₂	1997 01 27.61227	08 50 59.93	+22 21 32.1	411	1997 AC ₁₈	1997 01 28.62418	09 50 35.99	+21 41 20.3	411
1997 AZ ₁₂	1997 01 27.62901	08 50 58.92	+22 21 44.7	411	1997 AC ₁₈	1997 01 28.63295	09 50 35.52	+21 41 25.3	411
1997 AA ₁₃	1997 01 27.61082	08 50 16.81	+21 56 51.8	411	1997 BA	1997 01 28.65649	09 44 06.46	+21 27 08.4	411
1997 AA ₁₃	1997 01 27.62755	08 50 15.85	+21 56 55.5	411	1997 BA	1997 01 28.66052	09 44 06.26	+21 27 11.1	411
1997 AB ₁₃	1997 01 27.57736	08 48 05.71	+23 06 49.4	411	1997 BL	1997 01 28.62565	09 50 51.27	+21 54 56.9	411
1997 AB ₁₃	1997 01 27.59241	08 48 04.67	+23 06 53.7	411	1997 BL	1997 01 28.63442	09 50 50.90	+21 55 00.9	411
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1997 AD ₁₃	1997 01 27.58492	08 45 58.29	+29 25 29.9	411	1997 BR	1997 01 28.68131	10 10 02.28	+28 50 03.5	411
1997 AE ₁₃	1997 01 27.58032	08 49 23.04	+29 22 48.2	411	1997 BR	1997 01 28.68300	10 10 02.17	+28 50 08.3	411
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1997 AG ₁₃	1997 01 27.63987	08 53 12.71	+28 30 16.4	411	1997 BU	1997 02 01.46826	08 53 56.22	+13 16 55.3	411
1997 AH ₁₃	1997 01 27.61997	08 52 29.81	+29 09 27.5	411	1997 BU	1997 02 01.47165	08 53 56.02	+13 16 56.4	411
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1997 AJ ₁₃	1997 01 27.61851	08 51 40.95	+27 29 06.8	411	1997 BF ₁	1997 01 28.57553	09 04 08.89	+16 47 53.4	411
1997 AJ ₁₃	1997 01 27.63525	08 51 39.72	+27 29 08.5	411	1997 BF ₁	1997 01 29.50145	09 03 09.74	+16 47 50.6	411
1997 AK ₁₃	1997 01 27.62459	08 57 22.39	+30 16 38.8	411	1997 BF ₁	1997 01 29.50549	09 03 09.43	+16 47 50.5	411
1997 AK ₁₃	1997 01 27.64133	08 57 21.51	+30 16 47.1	411	1997 BF ₁	1997 02 01.47571	08 59 56.36	+16 47 39.3	411
1997 AL ₁₃	1997 01 28.54061	09 01 32.06	+27 57 17.6	411	1997 BF ₁	1997 02 01.48243	08 59 55.91	+16 47 39.2	411
1997 AL ₁₃	1997 01 28.55363	09 01 31.33	+27 57 19.4	411	1997 BF ₁	1997 02 04.49850	08 56 37.79	+16 47 19.8	411
1997 AM ₁₃	1997 01 27.62602	08 59 53.03	+29 40 06.9	411	1997 BF ₁	1997 02 04.50387	08 56 37.36	+16 47 18.7	411
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1997 AP ₁₄	1997 01 28.59322	09 28 20.83	+14 35 44.2	411	1997 BG ₁	1997 01 29.52617	09 01 51.67	+13 52 14.4	411
1997 AP ₁₄	1997 01 28.60948	09 28 19.95	+14 35 50.0	411	1997 BG ₁	1997 01 29.52887	09 01 51.54	+13 52 15.6	411
1997 AP ₁₄	1997 02 01.49411	09 24 46.92	+14 54 06.2	411	1997 BG ₁	1997 02 01.48421	08 59 20.03	+14 17 21.3	411

1997 BG ₁	1997 02 01.48825	08 59 19.81	+14 17 23.4		411	1997 BV ₁	1997 01 29.58149	09 08 39.26	+20 11 25.8		411
1997 BG ₁	1997 02 04.50769	08 56 42.68	+14 43 31.9		411	1997 BV ₁	1997 01 30.49575	09 07 41.52	+20 15 45.3		411
1997 BG ₁	1997 02 04.51576	08 56 42.18	+14 43 35.9		411	1997 BV ₁	1997 01 30.50745	09 07 40.79	+20 15 48.6		411
1997 BN ₁	* 1997 01 29.53220	09 07 05.09	+17 56 04.1	17	411	1997 BV ₁	1997 02 04.52594	09 02 19.41	+20 38 50.9		411
1997 BN ₁	1997 01 29.54568	09 07 04.10	+17 56 05.6		411	1997 BV ₁	1997 02 04.53909	09 02 18.55	+20 38 54.9		411
1997 BN ₁	1997 01 30.49429	09 05 56.77	+17 57 37.2		411	1997 BW ₁	* 1997 01 29.59186	09 51 49.77	+18 18 45.6	17.5	411
1997 BN ₁	1997 01 30.50599	09 05 55.89	+17 57 37.5		411	1997 BW ₁	1997 01 29.61083	09 51 48.86	+18 18 51.0		411
1997 BN ₁	1997 02 04.52303	08 59 54.97	+18 05 08.0		411	1997 BW ₁	1997 01 30.53923	09 51 00.12	+18 21 53.0		411
1997 BN ₁	1997 02 04.53617	08 59 54.01	+18 05 09.2		411	1997 BW ₁	1997 01 30.55152	09 50 59.43	+18 21 54.3		411
1997 BO ₁	* 1997 01 29.53888	09 06 55.52	+20 04 07.5	17.5	411	1997 BW ₁	1997 02 06.59773	09 44 31.64	+18 44 07.9		411
1997 BO ₁	1997 01 29.55236	09 06 54.66	+20 04 10.3		411	1997 BW ₁	1997 02 06.61251	09 44 30.74	+18 44 10.4		411
1997 BO ₁	1997 01 30.48280	09 06 06.40	+20 07 51.8		411	1997 BX ₁	* 1997 01 29.59818	09 51 54.78	+19 55 43.3	18.5	411
1997 BO ₁	1997 01 30.48953	09 06 05.97	+20 07 53.9		411	1997 BX ₁	1997 01 29.61715	09 51 53.73	+19 55 50.0		411
1997 BO ₁	1997 02 04.52448	09 01 41.97	+20 27 18.9		411	1997 BX ₁	1997 01 30.57041	09 51 05.87	+20 01 00.4		411
1997 BO ₁	1997 02 04.53763	09 01 41.30	+20 27 20.9		411	1997 BX ₁	1997 01 30.57859	09 51 05.38	+20 01 02.5		411
1997 BP ₁	* 1997 01 29.54599	09 50 12.61	+16 23 55.2	18	411	1997 BX ₁	1997 02 06.59919	09 44 40.68	+20 37 58.5		411
1997 BP ₁	1997 01 29.56496	09 50 11.37	+16 24 00.5		411	1997 BX ₁	1997 02 06.61396	09 44 39.74	+20 38 03.5		411
1997 BP ₁	1997 01 30.54611	09 49 11.77	+16 29 09.1		411	1997 BY ₁	* 1997 01 29.62033	09 52 57.40	+15 48 43.7	17.5	411
1997 BP ₁	1997 01 30.55745	09 49 11.02	+16 29 13.2		411	1997 BY ₁	1997 01 29.63928	09 52 56.44	+15 48 53.4		411
1997 BP ₁	1997 02 06.59028	09 41 44.31	+17 05 47.3		411	1997 BY ₁	1997 01 30.54104	09 52 11.68	+15 56 52.9		411
1997 BP ₁	1997 02 06.60507	09 41 43.32	+17 05 50.3		411	1997 BY ₁	1997 01 30.55333	09 52 11.04	+15 56 59.4		411
1997 BQ ₁	* 1997 01 29.54757	09 49 46.63	+16 47 25.1	18	411	1997 BY ₁	1997 02 06.61687	09 46 01.29	+17 00 02.3		411
1997 BQ ₁	1997 01 29.56655	09 49 45.92	+16 47 34.5		411	1997 BY ₁	1997 02 06.63150	09 46 00.45	+17 00 09.7		411
1997 BQ ₁	1997 01 30.53562	09 49 07.82	+16 55 32.0		411	1997 BZ ₁	* 1997 01 29.62182	09 14 59.68	+18 26 18.8	17.5	411
1997 BQ ₁	1997 01 30.54791	09 49 07.34	+16 55 38.5		411	1997 BZ ₁	1997 01 29.63529	09 14 58.85	+18 26 22.7		411
1997 BQ ₁	1997 02 06.59627	09 44 09.77	+17 53 55.9		411	1997 BZ ₁	1997 01 30.50158	09 14 09.22	+18 30 22.7		411
1997 BQ ₁	1997 02 06.61105	09 44 09.04	+17 54 03.6		411	1997 BZ ₁	1997 01 30.51328	09 14 08.54	+18 30 24.7		411
1997 BR ₁	* 1997 01 29.54757	09 50 17.86	+16 45 01.3	15	411	1997 BZ ₁	1997 02 04.53034	09 09 16.25	+18 53 06.5		411
1997 BR ₁	1997 01 29.56655	09 50 17.13	+16 45 11.9		411	1997 BZ ₁	1997 02 04.54348	09 09 15.55	+18 53 09.1		411
1997 BR ₁	1997 01 30.51938	09 49 41.06	+16 54 09.6		411	1997 BA ₂	* 1997 01 29.62182	09 15 06.80	+18 23 22.8	17	411
1997 BR ₁	1997 01 30.52612	09 49 40.80	+16 54 13.5		411	1997 BA ₂	1997 01 29.63529	09 15 06.19	+18 23 26.9		411
1997 BR ₁	1997 02 06.60065	09 44 47.53	+18 02 12.3		411	1997 BA ₂	1997 01 30.50158	09 14 22.40	+18 27 28.0		411
1997 BR ₁	1997 02 06.61542	09 44 46.85	+18 02 20.8		411	1997 BA ₂	1997 01 30.51328	09 14 21.76	+18 27 31.7		411
1997 BS ₁	* 1997 01 29.55231	09 49 38.95	+17 52 35.7	18	411	1997 BA ₂	1997 02 04.53326	09 10 03.72	+18 50 39.2		411
1997 BS ₁	1997 01 29.57129	09 49 38.08	+17 52 44.3		411	1997 BA ₂	1997 02 04.54639	09 10 03.10	+18 50 44.4		411
1997 BS ₁	1997 01 30.54431	09 48 56.12	+17 59 55.0		411	1997 BB ₂	* 1997 01 29.62627	09 14 07.15	+20 11 32.7	17	411
1997 BS ₁	1997 01 30.56229	09 48 55.27	+18 00 02.4		411	1997 BB ₂	1997 01 29.63975	09 14 06.18	+20 11 35.2		411
1997 BS ₁	1997 02 11.56245	09 39 39.25	+19 27 30.8		411	1997 BB ₂	1997 01 30.50012	09 13 06.88	+20 15 21.5		411
1997 BS ₁	1997 02 11.57092	09 39 38.77	+19 27 35.2		411	1997 BB ₂	1997 01 30.51182	09 13 06.00	+20 15 24.5		411
1997 BT ₁	* 1997 01 29.55863	09 49 17.98	+19 31 22.4	17	411	1997 BB ₂	1997 02 04.52888	09 07 13.27	+20 36 34.4		411
1997 BT ₁	1997 01 29.57761	09 49 16.95	+19 31 25.8		411	1997 BB ₂	1997 02 04.54202	09 07 12.30	+20 36 38.0		411
1997 BT ₁	1997 01 30.53038	09 48 26.26	+19 33 34.2		411	1997 BC ₂	* 1997 01 29.62627	09 15 33.39	+20 13 33.1	16.5	411
1997 BT ₁	1997 01 30.54268	09 48 25.58	+19 33 37.0		411	1997 BC ₂	1997 01 29.63975	09 15 32.68	+20 13 38.2		411
1997 BT ₁	1997 02 06.58883	09 41 52.26	+19 48 47.4		411	1997 BC ₂	1997 01 30.50304	09 14 50.43	+20 19 38.8		411
1997 BT ₁	1997 02 06.60361	09 41 51.39	+19 48 50.7		411	1997 BC ₂	1997 01 30.51474	09 14 49.81	+20 19 43.7		411
1997 BU ₁	* 1997 01 29.56579	09 08 44.78	+19 03 42.9	17	411	1997 BC ₂	1997 02 04.53472	09 10 39.93	+20 54 03.1		411
1997 BU ₁	1997 01 29.57926	09 08 44.11	+19 03 46.2		411	1997 BC ₂	1997 02 04.54785	09 10 39.29	+20 54 08.3		411
1997 BU ₁	1997 01 30.49720	09 07 55.00	+19 07 07.1		411	1997 BJ ₂	* 1997 01 30.50158	09 14 24.92	+18 27 10.9	18	411
1997 BU ₁	1997 01 30.50891	09 07 54.39	+19 07 08.9		411	1997 BJ ₂	1997 01 30.51328	09 14 24.26	+18 27 16.9		411
1997 BU ₁	1997 02 04.52742	09 03 23.33	+19 24 56.7		411	1997 BJ ₂	1997 01 31.54952	09 13 21.55	+18 35 28.6		411
1997 BU ₁	1997 02 04.54056	09 03 22.62	+19 24 59.8		411	1997 BJ ₂	1997 01 31.55797	09 13 21.01	+18 35 32.7		411
1997 BV ₁	* 1997 01 29.56801	09 08 40.10	+20 11 21.8	17	411	1997 BJ ₂	1997 02 04.53180	09 09 16.68	+19 06 39.4		411

1997 BJ ₂	1997 02 04.54494	09 09 15.77	+19 06 47.2		411	1997 BR ₂	1997 01 31.58287	09 49 05.10	+11 44 20.7		411
1997 BK ₂	* 1997 01 30.59392	09 55 46.03	+15 55 02.3	17.5	411	1997 BR ₂	1997 02 11.55182	09 39 49.46	+12 47 03.8		411
1997 BK ₂	1997 01 30.61290	09 55 44.95	+15 55 05.8		411	1997 BR ₂	1997 02 11.55856	09 39 49.09	+12 47 05.8		411
1997 BK ₂	1997 01 31.62953	09 54 50.31	+15 57 56.9		411	1997 BS ₂	* 1997 01 30.67137	09 58 34.84	+16 22 25.0	17	411
1997 BK ₂	1997 01 31.64271	09 54 49.61	+15 57 58.9		411	1997 BS ₂	1997 01 30.69034	09 58 33.83	+16 22 29.5		411
1997 BK ₂	1997 02 06.62275	09 49 09.84	+16 14 52.9		411	1997 BS ₂	1997 01 31.63391	09 57 43.86	+16 25 51.8		411
1997 BK ₂	1997 02 06.63738	09 49 09.01	+16 14 55.4		411	1997 BS ₂	1997 01 31.64709	09 57 43.07	+16 25 54.4		411
1997 BL ₂	* 1997 01 30.60318	09 45 44.46	+12 40 53.6	17	411	1997 BS ₂	1997 02 06.63005	09 52 07.48	+16 47 21.6		411
1997 BL ₂	1997 01 30.61666	09 45 43.87	+12 40 58.0		411	1997 BS ₂	1997 02 06.64471	09 52 06.62	+16 47 24.5		411
1997 BL ₂	1997 01 31.56682	09 45 05.18	+12 46 49.2		411	1997 BT ₂	* 1997 01 30.67137	09 59 51.96	+16 12 20.4	18	411
1997 BL ₂	1997 01 31.57994	09 45 04.64	+12 46 53.9		411	1997 BT ₂	1997 01 30.69034	09 59 50.63	+16 12 18.9		411
1997 BL ₂	1997 02 06.58733	09 40 50.11	+13 24 43.5		411	1997 BT ₂	1997 01 31.66359	09 58 49.48	+16 11 13.0		411
1997 BL ₂	1997 02 06.60212	09 40 49.42	+13 24 50.1		411	1997 BT ₂	1997 01 31.67986	09 58 48.34	+16 11 11.9		411
1997 BM ₂	* 1997 01 30.61130	09 56 00.78	+20 18 31.2	17	411	1997 BT ₂	1997 02 06.64617	09 52 14.64	+16 04 18.2		411
1997 BM ₂	1997 01 30.63025	09 55 59.24	+20 18 27.6		411	1997 BT ₂	1997 02 06.66491	09 52 13.29	+16 04 17.0		411
1997 BM ₂	1997 01 31.62806	09 54 41.53	+20 15 24.2		411	1997 BU ₂	* 1997 01 30.67453	09 58 54.11	+17 03 37.1	18.5	411
1997 BM ₂	1997 01 31.64124	09 54 40.45	+20 15 21.1		411	1997 BU ₂	1997 01 30.69350	09 58 53.21	+17 03 47.3		411
1997 BM ₂	1997 02 06.61833	09 46 33.45	+19 55 03.7		411	1997 BU ₂	1997 01 31.65998	09 58 11.72	+17 12 18.0		411
1997 BM ₂	1997 02 06.63296	09 46 32.16	+19 55 00.1		411	1997 BU ₂	1997 01 31.67624	09 58 10.96	+17 12 26.7		411
1997 BM ₂	1997 02 11.56245	09 39 33.94	+19 35 21.4		411	1997 BU ₂	1997 02 06.65763	09 53 30.40	+18 06 05.9		411
1997 BM ₂	1997 02 11.56752	09 39 33.49	+19 35 20.4		411	1997 BU ₂	1997 02 06.67225	09 53 29.66	+18 06 13.9		411
1997 BN ₂	* 1997 01 30.64289	09 57 43.62	+18 51 20.6	18.5	411	1997 BV ₂	* 1997 01 30.67453	09 59 17.01	+17 12 59.9	18.5	411
1997 BN ₂	1997 01 30.66186	09 57 42.67	+18 51 23.6		411	1997 BV ₂	1997 01 30.69350	09 59 16.07	+17 13 05.4		411
1997 BN ₂	1997 01 31.65457	09 56 54.23	+18 53 57.3		411	1997 BV ₂	1997 01 31.65998	09 58 30.52	+17 17 54.0		411
1997 BN ₂	1997 01 31.67083	09 56 53.43	+18 53 59.7		411	1997 BV ₂	1997 01 31.67624	09 58 29.78	+17 17 58.7		411
1997 BN ₂	1997 02 06.62860	09 51 50.32	+19 09 00.9		411	1997 BV ₂	1997 02 06.65617	09 53 34.23	+17 47 45.7		411
1997 BN ₂	1997 02 06.68225	09 51 47.55	+19 09 10.2		411	1997 BV ₂	1997 02 06.67079	09 53 33.47	+17 47 49.7		411
1997 BN ₂	1997 02 11.57995	09 47 28.03	+19 20 30.9		411	1997 BW ₂	* 1997 01 30.67611	09 58 44.78	+17 42 49.8	19	411
1997 BN ₂	1997 02 11.58843	09 47 27.58	+19 20 31.2		411	1997 BW ₂	1997 01 30.69508	09 58 43.84	+17 43 03.2		411
1997 BO ₂	* 1997 01 30.64447	09 57 37.16	+19 20 05.0	17	411	1997 BW ₂	1997 01 31.65818	09 58 02.29	+17 54 44.2		411
1997 BO ₂	1997 01 30.66344	09 57 36.11	+19 20 08.9		411	1997 BW ₂	1997 01 31.67444	09 58 01.60	+17 54 56.5		411
1997 BO ₂	1997 01 31.63245	09 56 42.74	+19 23 47.4		411	1997 BW ₂	1997 02 06.65468	09 53 23.45	+19 07 51.6		411
1997 BO ₂	1997 01 31.64564	09 56 41.93	+19 23 49.8		411	1997 BW ₂	1997 02 06.66929	09 53 22.75	+19 08 01.4		411
1997 BO ₂	1997 02 06.62714	09 50 48.91	+19 45 40.0		411	1997 BX ₂	* 1997 01 30.67927	09 59 51.46	+18 24 57.1	18	411
1997 BO ₂	1997 02 06.64179	09 50 48.06	+19 45 43.2		411	1997 BX ₂	1997 01 30.69823	09 59 50.51	+18 25 08.4		411
1997 BP ₂	* 1997 01 30.64605	09 57 39.41	+19 25 35.9	18	411	1997 BX ₂	1997 01 31.63828	09 59 04.76	+18 34 16.3		411
1997 BP ₂	1997 01 30.66503	09 57 38.55	+19 25 52.6		411	1997 BX ₂	1997 01 31.68166	09 59 02.47	+18 34 41.1		411
1997 BP ₂	1997 01 31.65637	09 56 59.73	+19 40 57.7		411	1997 BX ₂	1997 02 06.66053	09 53 49.97	+19 32 39.9		411
1997 BP ₂	1997 01 31.67263	09 56 59.10	+19 41 11.3		411	1997 BX ₂	1997 02 06.67516	09 53 49.11	+19 32 48.5		411
1997 BP ₂	1997 02 06.64765	09 52 47.51	+21 12 27.1		411	1997 BY ₂	* 1997 01 30.68084	09 59 41.93	+18 46 19.7	17.5	411
1997 BP ₂	1997 02 06.66639	09 52 46.71	+21 12 42.7		411	1997 BY ₂	1997 01 30.69982	09 59 40.93	+18 46 27.1		411
1997 BQ ₂	* 1997 01 30.65474	09 49 51.53	+10 53 27.0	17.5	411	1997 BY ₂	1997 01 31.63683	09 58 52.42	+18 52 53.0		411
1997 BQ ₂	1997 01 30.66822	09 49 50.79	+10 53 30.8		411	1997 BY ₂	1997 01 31.65001	09 58 51.78	+18 52 57.6		411
1997 BQ ₂	1997 01 31.56828	09 48 59.99	+10 58 43.7		411	1997 BY ₂	1997 02 06.65322	09 53 18.90	+19 33 24.1		411
1997 BQ ₂	1997 01 31.58141	09 48 59.14	+10 58 47.9		411	1997 BY ₂	1997 02 06.66784	09 53 17.92	+19 33 30.3		411
1997 BQ ₂	1997 02 06.59178	09 43 05.16	+11 35 06.7		411	1997 BZ ₂	* 1997 01 30.68609	09 52 28.37	+11 51 00.9	17.5	411
1997 BQ ₂	1997 02 06.60656	09 43 04.21	+11 35 13.4		411	1997 BZ ₂	1997 01 30.69957	09 52 27.73	+11 51 05.6		411
1997 BQ ₂	1997 02 11.53267	09 38 05.99	+12 05 57.7		411	1997 BZ ₂	1997 01 31.57119	09 51 46.03	+11 56 10.5		411
1997 BQ ₂	1997 02 11.54334	09 38 05.34	+12 06 01.6		411	1997 BZ ₂	1997 01 31.59800	09 51 44.57	+11 56 20.1		411
1997 BR ₂	* 1997 01 30.65697	09 49 49.38	+11 39 17.5	17.5	411	1997 BZ ₂	1997 02 06.61984	09 46 36.55	+12 33 13.2		411
1997 BR ₂	1997 01 30.67045	09 49 48.69	+11 39 21.4		411	1997 BZ ₂	1997 02 06.63447	09 46 35.66	+12 33 18.6		411
1997 BR ₂	1997 01 31.56973	09 49 05.75	+11 44 17.4		411	1997 BA ₃	* 1997 01 30.69277	09 53 37.45	+13 44 52.8	17.5	411

1997 BA ₃	1997 01 30.70625	09 53 36.63	+13 44 56.4	411	1997 BN ₃	1997 02 11.63719	10 17 42.98	+14 40 53.2	411
1997 BA ₃	1997 01 31.57410	09 52 47.69	+13 48 23.8	411	1997 BO ₃	* 1997 01 31.68931	10 26 23.16	+15 31 13.1	17 411
1997 BA ₃	1997 01 31.58727	09 52 46.98	+13 48 27.2	411	1997 BO ₃	1997 01 31.70291	10 26 22.54	+15 31 18.5	411
1997 BA ₃	1997 02 06.62130	09 46 48.11	+14 13 22.3	411	1997 BO ₃	1997 02 01.54480	10 25 46.55	+15 36 28.7	411
1997 BA ₃	1997 02 06.63593	09 46 47.16	+14 13 25.7	411	1997 BO ₃	1997 02 01.55355	10 25 46.16	+15 36 31.7	411
1997 BC ₃	* 1997 01 30.71722	10 00 44.12	+18 31 34.6	17 411	1997 BO ₃	1997 02 11.63133	10 17 28.41	+16 40 06.6	411
1997 BC ₃	1997 01 30.73620	10 00 42.96	+18 31 38.1	411	1997 BO ₃	1997 02 11.63865	10 17 27.98	+16 40 09.4	411
1997 BC ₃	1997 01 31.63828	09 59 50.37	+18 34 22.1	411	1997 BP ₃	* 1997 01 31.69209	11 09 55.47	+08 13 50.6	17 411
1997 BC ₃	1997 01 31.65147	09 59 49.55	+18 34 24.9	411	1997 BP ₃	1997 01 31.71107	11 09 54.95	+08 13 59.0	411
1997 BC ₃	1997 02 06.65909	09 53 36.47	+18 52 06.7	411	1997 BP ₃	1997 02 01.56527	11 09 34.37	+08 20 26.9	411
1997 BC ₃	1997 02 06.67370	09 53 35.49	+18 52 09.4	411	1997 BP ₃	1997 02 01.57723	11 09 34.01	+08 20 32.7	411
1997 BD ₃	* 1997 01 30.71744	09 56 30.06	+12 27 14.4	17 411	1997 BQ ₃	* 1997 01 31.70474	11 10 42.08	+11 38 22.8	16 411
1997 BD ₃	1997 01 30.73093	09 56 29.30	+12 27 20.5	411	1997 BQ ₃	1997 01 31.72372	11 10 41.63	+11 38 32.0	411
1997 BD ₃	1997 01 31.57701	09 55 45.73	+12 32 42.6	411	1997 BQ ₃	1997 02 01.56381	11 10 20.02	+11 45 12.6	411
1997 BD ₃	1997 01 31.60453	09 55 44.14	+12 32 52.4	411	1997 BQ ₃	1997 02 01.57576	11 10 19.66	+11 45 18.2	411
1997 BD ₃	1997 02 06.62567	09 50 10.53	+13 12 49.6	411	1997 BR ₃	* 1997 01 31.73954	11 12 00.53	+10 44 25.7	18.5 411
1997 BD ₃	1997 02 06.64030	09 50 09.64	+13 12 55.1	411	1997 BR ₃	1997 01 31.75851	11 11 59.52	+10 44 24.5	411
1997 BE ₃	* 1997 01 30.71879	10 00 37.32	+18 45 29.0	17.5 411	1997 BR ₃	1997 02 01.56708	11 11 21.64	+10 43 26.4	411
1997 BE ₃	1997 01 30.73778	10 00 36.45	+18 45 33.9	411	1997 BR ₃	1997 02 01.59847	11 11 20.10	+10 43 24.0	411
1997 BE ₃	1997 01 31.63973	09 59 58.25	+18 49 32.5	411	1997 BS ₃	* 1997 01 31.74576	10 31 27.86	+14 41 53.2	17.5 411
1997 BE ₃	1997 01 31.65293	09 59 57.63	+18 49 35.9	411	1997 BS ₃	1997 01 31.75933	10 31 27.31	+14 41 59.0	411
1997 BE ₃	1997 02 06.66345	09 55 32.44	+19 15 50.5	411	1997 BS ₃	1997 02 01.54772	10 31 00.41	+14 49 10.7	411
1997 BE ₃	1997 02 06.67808	09 55 31.81	+19 15 53.0	411	1997 BS ₃	1997 02 01.55648	10 31 00.06	+14 49 15.3	411
1997 BF ₃	* 1997 01 30.72412	09 55 50.84	+14 20 41.0	17 411	1997 BS ₃	1997 02 11.63278	10 24 00.01	+16 24 35.7	411
1997 BF ₃	1997 01 30.73760	09 55 50.07	+14 20 47.3	411	1997 BS ₃	1997 02 11.64011	10 23 59.78	+16 24 39.9	411
1997 BF ₃	1997 01 31.57556	09 55 02.36	+14 27 40.9	411	1997 BT ₃	* 1997 01 31.76801	11 12 38.59	+08 29 26.7	17 411
1997 BF ₃	1997 01 31.58873	09 55 01.63	+14 27 48.0	411	1997 BT ₃	1997 01 31.78703	11 12 38.09	+08 29 31.5	411
1997 BF ₃	1997 02 06.62421	09 49 00.65	+15 17 47.2	411	1997 BT ₃	1997 02 01.57069	11 12 17.64	+08 32 58.3	411
1997 BF ₃	1997 02 06.63884	09 48 59.72	+15 17 54.3	411	1997 BT ₃	1997 02 01.58264	11 12 17.29	+08 33 01.1	411
1997 BG ₃	* 1997 01 30.72512	10 00 29.22	+20 14 10.4	18 411	1997 BU ₃	* 1997 01 31.76801	11 13 21.01	+08 25 41.8	17.5 411
1997 BG ₃	1997 01 30.74410	10 00 28.14	+20 14 21.7	411	1997 BU ₃	1997 01 31.78703	11 13 20.47	+08 25 44.8	411
1997 BG ₃	1997 01 31.66720	09 59 41.26	+20 23 10.7	411	1997 BU ₃	1997 02 01.57430	11 13 00.59	+08 28 47.0	411
1997 BG ₃	1997 01 31.68347	09 59 40.40	+20 23 20.2	411	1997 BU ₃	1997 02 01.58626	11 13 00.29	+08 28 50.0	411
1997 BG ₃	1997 02 06.66199	09 54 11.74	+21 20 00.6	411	1997 BV ₃	* 1997 01 31.77594	11 12 57.64	+10 28 47.6	17.5 411
1997 BG ₃	1997 02 06.67662	09 54 10.88	+21 20 09.1	411	1997 BV ₃	1997 01 31.79494	11 12 57.26	+10 28 55.1	411
1997 BL ₃	* 1997 01 31.63517	10 19 27.44	+16 46 18.7	17 411	1997 BV ₃	1997 02 01.57249	11 12 41.76	+10 33 45.9	411
1997 BL ₃	1997 01 31.64874	10 19 26.75	+16 46 25.0	411	1997 BV ₃	1997 02 01.58445	11 12 41.50	+10 33 50.4	411
1997 BL ₃	1997 02 01.53359	10 18 45.39	+16 52 27.7	411	1997 CN	* 1997 02 01.56260	09 59 34.03	+07 55 47.3	17.5 411
1997 BL ₃	1997 02 01.53630	10 18 45.26	+16 52 28.5	411	1997 CN	1997 02 01.57608	09 59 33.36	+07 55 49.7	411
1997 BL ₃	1997 02 11.62692	10 09 57.85	+18 01 39.4	411	1997 CN	1997 02 03.51630	09 57 44.01	+08 01 41.0	411
1997 BL ₃	1997 02 11.63424	10 09 57.33	+18 01 42.4	411	1997 CN	1997 02 03.55413	09 57 41.80	+08 01 49.7	411
1997 BM ₃	* 1997 01 31.68483	10 25 31.41	+13 59 39.7	17 411	1997 CO	* 1997 02 01.57151	09 59 11.29	+10 37 50.2	17 411
1997 BM ₃	1997 01 31.69841	10 25 30.69	+13 59 40.9	411	1997 CO	1997 02 01.58498	09 59 10.67	+10 37 53.9	411
1997 BM ₃	1997 02 01.54190	10 24 49.27	+14 01 14.8	411	1997 CO	1997 02 03.48762	09 57 41.65	+10 46 34.1	411
1997 BM ₃	1997 02 01.55065	10 24 48.75	+14 01 15.8	411	1997 CO	1997 02 03.49300	09 57 41.35	+10 46 36.9	411
1997 BM ₃	1997 02 11.62841	10 15 36.87	+14 21 29.7	411	1997 CO	1997 02 11.59468	09 51 03.76	+11 25 27.6	411
1997 BM ₃	1997 02 11.63572	10 15 36.44	+14 21 30.1	411	1997 CO	1997 02 11.60343	09 51 03.34	+11 25 29.8	411
1997 BN ₃	* 1997 01 31.68483	10 25 52.58	+13 51 58.4	17.5 411	1997 CP	* 1997 02 01.57151	10 00 09.85	+10 37 06.7	18 411
1997 BN ₃	1997 01 31.69841	10 25 52.13	+13 52 01.6	411	1997 CP	1997 02 01.58498	10 00 09.18	+10 37 12.4	411
1997 BN ₃	1997 02 01.54336	10 25 17.95	+13 55 40.1	411	1997 CP	1997 02 03.51775	09 58 24.63	+10 48 39.9	411
1997 BN ₃	1997 02 01.55209	10 25 17.57	+13 55 41.9	411	1997 CP	1997 02 03.52652	09 58 24.12	+10 48 43.0	411
1997 BN ₃	1997 02 11.62987	10 17 43.32	+14 40 51.2	411	1997 CP	1997 02 11.59321	09 50 46.57	+11 38 30.6	411

1997 CP	1997 02 11.60197	09 50 45.98	+11 38 34.2		411	1997 CY	1997 02 11.62105	10 00 44.89	+09 25 10.4		411
1997 CQ	* 1997 02 01.60451	10 02 30.55	+11 14 03.8	17	411	1997 CZ	* 1997 02 01.65685	10 51 47.50	+13 21 09.0	17.5	411
1997 CQ	1997 02 01.61800	10 02 29.75	+11 14 11.3		411	1997 CZ	1997 02 01.67584	10 51 46.77	+13 21 18.4		411
1997 CQ	1997 02 03.50753	10 00 57.00	+11 29 48.2		411	1997 CZ	1997 02 03.60672	10 50 30.46	+13 36 41.6		411
1997 CQ	1997 02 03.53477	10 00 55.54	+11 30 02.9		411	1997 CZ	1997 02 03.62839	10 50 29.46	+13 36 52.5		411
1997 CQ	1997 02 11.59615	09 53 46.72	+12 39 58.2		411	1997 CZ	1997 02 11.66710	10 44 20.41	+14 43 42.5		411
1997 CQ	1997 02 11.60490	09 53 46.14	+12 40 02.1		411	1997 CZ	1997 02 11.68094	10 44 19.62	+14 43 49.1		411
1997 CR	* 1997 02 01.61417	10 50 23.73	+12 15 45.5	18.5	411	1997 CA ₁	* 1997 02 01.66278	10 08 09.45	+11 34 50.9	17.5	411
1997 CR	1997 02 01.63313	10 50 23.03	+12 15 53.9		411	1997 CA ₁	1997 02 01.67626	10 08 08.63	+11 34 53.0		411
1997 CR	1997 02 03.61395	10 49 11.38	+12 31 21.7		411	1997 CA ₁	1997 02 03.52068	10 06 19.31	+11 38 13.7		411
1997 CR	1997 02 03.66855	10 49 09.28	+12 31 47.7		411	1997 CA ₁	1997 02 03.52944	10 06 18.77	+11 38 14.5		411
1997 CR	1997 02 11.66401	10 43 42.91	+13 36 38.3		411	1997 CA ₁	1997 02 11.60932	09 57 41.30	+11 54 58.1		411
1997 CR	1997 02 11.67785	10 43 42.22	+13 36 45.8		411	1997 CA ₁	1997 02 11.61812	09 57 40.59	+11 54 58.7		411
1997 CS	* 1997 02 01.61574	10 49 21.08	+12 38 17.1	17	411	1997 CB ₁	* 1997 02 01.68076	10 09 39.57	+07 51 25.3	18	411
1997 CS	1997 02 01.63470	10 49 20.30	+12 38 19.0		411	1997 CB ₁	1997 02 01.69425	10 09 38.84	+07 51 30.7		411
1997 CS	1997 02 03.58350	10 48 01.47	+12 41 56.4		411	1997 CB ₁	1997 02 03.52360	10 08 02.81	+08 04 43.3		411
1997 CS	1997 02 03.59230	10 48 01.01	+12 41 58.1		411	1997 CB ₁	1997 02 03.55935	10 08 00.85	+08 04 59.1		411
1997 CS	1997 02 11.65945	10 41 51.45	+12 58 38.6		411	1997 CB ₁	1997 02 11.61078	10 00 22.20	+09 07 51.2		411
1997 CS	1997 02 11.67329	10 41 50.72	+12 58 41.0		411	1997 CB ₁	1997 02 11.61959	10 00 21.73	+09 07 55.3		411
1997 CT	* 1997 02 01.61890	10 49 31.54	+13 31 57.1	18.5	411	1997 CC ₁	* 1997 02 01.69190	10 11 09.88	+11 32 47.7	17	411
1997 CT	1997 02 01.63787	10 49 30.71	+13 32 01.0		411	1997 CC ₁	1997 02 01.70539	10 11 09.33	+11 32 54.0		411
1997 CT	1997 02 03.69557	10 48 04.43	+13 39 48.5		411	1997 CC ₁	1997 02 03.50168	10 09 44.97	+11 45 07.3		411
1997 CT	1997 02 03.70065	10 48 04.16	+13 39 50.4		411	1997 CC ₁	1997 02 03.54616	10 09 42.84	+11 45 26.3		411
1997 CT	1997 02 11.66109	10 41 39.21	+14 12 05.7		411	1997 CC ₁	1997 02 11.61371	10 02 50.77	+12 43 15.5		411
1997 CT	1997 02 11.67494	10 41 38.45	+14 12 07.4		411	1997 CC ₁	1997 02 11.62252	10 02 50.32	+12 43 19.6		411
1997 CU	* 1997 02 01.62473	10 04 06.58	+08 53 13.1	17	411	1997 CD ₁	* 1997 02 01.69324	10 53 42.25	+13 09 44.7	17	411
1997 CU	1997 02 01.63822	10 04 05.92	+08 53 19.1		411	1997 CD ₁	1997 02 01.71221	10 53 41.64	+13 09 52.6		411
1997 CU	1997 02 03.50022	10 02 36.79	+09 06 50.3		411	1997 CD ₁	1997 02 03.58933	10 52 43.46	+13 23 35.1		411
1997 CU	1997 02 03.50899	10 02 36.27	+09 06 53.9		411	1997 CD ₁	1997 02 03.64834	10 52 41.51	+13 24 01.8		411
1997 CU	1997 02 11.59761	09 55 34.56	+10 10 07.0		411	1997 CD ₁	1997 02 11.69259	10 47 52.84	+14 25 19.3		411
1997 CU	1997 02 11.60636	09 55 33.97	+10 10 12.1		411	1997 CD ₁	1997 02 11.70571	10 47 52.27	+14 25 25.3		411
1997 CV	* 1997 02 01.62473	10 05 02.77	+08 53 18.3	17.5	411	1997 CE ₁	* 1997 02 01.70113	10 52 47.72	+14 56 12.6	17	411
1997 CV	1997 02 01.63822	10 05 02.16	+08 53 25.1		411	1997 CE ₁	1997 02 01.72011	10 52 46.73	+14 56 17.6		411
1997 CV	1997 02 03.51922	10 03 44.02	+09 10 15.8		411	1997 CE ₁	1997 02 03.58787	10 51 11.10	+15 04 55.5		411
1997 CV	1997 02 03.52799	10 03 43.59	+09 10 19.5		411	1997 CE ₁	1997 02 03.59668	10 51 10.55	+15 04 58.3		411
1997 CV	1997 02 11.59906	09 57 39.03	+10 26 55.4		411	1997 CE ₁	1997 02 11.66564	10 43 30.11	+15 43 08.6		411
1997 CV	1997 02 11.60782	09 57 38.56	+10 27 00.0		411	1997 CE ₁	1997 02 11.67948	10 43 29.23	+15 43 12.0		411
1997 CW	* 1997 02 01.62679	10 50 29.36	+15 12 26.2	16	411	1997 CF ₁	* 1997 02 01.70271	10 53 19.31	+15 29 43.9	18	411
1997 CW	1997 02 01.64576	10 50 28.64	+15 12 32.1		411	1997 CF ₁	1997 02 01.72170	10 53 18.70	+15 29 57.1		411
1997 CW	1997 02 03.58495	10 49 14.53	+15 22 29.3		411	1997 CF ₁	1997 02 03.61033	10 52 12.73	+15 50 33.2		411
1997 CW	1997 02 03.59376	10 49 14.15	+15 22 31.9		411	1997 CF ₁	1997 02 03.63201	10 52 11.89	+15 50 47.0		411
1997 CW	1997 02 11.66255	10 42 57.92	+16 06 12.9		411	1997 CF ₁	1997 02 11.67164	10 46 22.59	+17 21 03.9		411
1997 CW	1997 02 11.67639	10 42 57.16	+16 06 17.5		411	1997 CF ₁	1997 02 11.68550	10 46 21.80	+17 21 13.3		411
1997 CX	* 1997 02 01.65367	10 51 52.26	+12 28 11.6	17	411	1997 CG ₁	* 1997 02 01.70271	10 53 55.23	+15 19 11.1	17.5	411
1997 CX	1997 02 01.67267	10 51 51.64	+12 28 20.1		411	1997 CG ₁	1997 02 01.72170	10 53 54.49	+15 19 19.3		411
1997 CX	1997 02 03.58641	10 50 53.61	+12 42 22.2		411	1997 CG ₁	1997 02 03.63381	10 52 38.58	+15 32 44.4		411
1997 CX	1997 02 03.59522	10 50 53.32	+12 42 25.5		411	1997 CG ₁	1997 02 03.64473	10 52 38.06	+15 32 48.0		411
1997 CY	* 1997 02 01.65387	10 08 37.06	+08 36 21.2	17.5	411	1997 CG ₁	1997 02 11.67001	10 46 31.93	+16 30 27.9		411
1997 CY	1997 02 01.66735	10 08 36.44	+08 36 23.8		411	1997 CG ₁	1997 02 11.68387	10 46 31.24	+16 30 33.4		411
1997 CY	1997 02 03.52214	10 07 13.49	+08 44 53.6		411	1997 CH ₁	* 1997 02 01.71213	10 12 26.21	+08 34 31.2	17	411
1997 CY	1997 02 03.53090	10 07 13.19	+08 44 56.0		411	1997 CH ₁	1997 02 01.72561	10 12 25.50	+08 34 32.2		411
1997 CY	1997 02 11.61224	10 00 45.28	+09 25 08.2		411	1997 CH ₁	1997 02 03.51192	10 10 59.56	+08 38 44.6		411

1997 CH ₁	1997 02 03.56320	10 10 56.91	+08 38 52.9		411	1997 CY ₂	1997 02 04.62190	10 54 17.54	+10 17 03.0		411
1997 CH ₁	1997 02 11.61518	10 03 57.73	+09 01 00.6		411	1997 CY ₂	1997 02 11.69883	10 50 03.96	+10 57 25.5		411
1997 CH ₁	1997 02 11.62399	10 03 57.20	+09 01 02.5		411	1997 CY ₂	1997 02 11.71197	10 50 03.41	+10 57 30.5		411
1997 CJ ₁	* 1997 02 01.72961	10 54 22.47	+12 27 44.7	18	411	1997 CZ ₂	* 1997 02 03.65354	10 55 41.24	+11 25 18.0	17	411
1997 CJ ₁	1997 02 01.74861	10 54 21.76	+12 27 49.4		411	1997 CZ ₂	1997 02 03.66706	10 55 40.86	+11 25 24.1		411
1997 CJ ₁	1997 02 03.63563	10 53 13.54	+12 38 44.7		411	1997 CZ ₂	1997 02 04.59812	10 55 12.11	+11 31 01.9		411
1997 CJ ₁	1997 02 03.67373	10 53 11.96	+12 38 57.8		411	1997 CZ ₂	1997 02 04.61128	10 55 11.62	+11 31 07.6		411
1997 CJ ₁	1997 02 11.69095	10 47 16.12	+13 29 39.7		411	1997 CZ ₂	1997 02 11.71345	10 50 41.55	+12 18 05.6		411
1997 CJ ₁	1997 02 11.70408	10 47 15.33	+13 29 46.4		411	1997 CZ ₂	1997 02 11.72365	10 50 41.04	+12 18 11.4		411
1997 CK ₁	* 1997 02 01.73278	10 54 15.60	+13 29 24.3	17.5	411	1997 CA ₃	* 1997 02 03.68053	10 58 49.55	+10 56 09.1	17.5	411
1997 CK ₁	1997 02 01.75176	10 54 15.03	+13 29 31.4		411	1997 CA ₃	1997 02 03.69405	10 58 49.11	+10 56 12.3		411
1997 CK ₁	1997 02 03.63924	10 53 19.40	+13 41 30.9		411	1997 CA ₃	1997 02 04.64499	10 58 16.11	+11 00 53.0		411
1997 CK ₁	1997 02 03.65014	10 53 19.05	+13 41 35.1		411	1997 CA ₃	1997 02 04.64839	10 58 15.92	+11 00 54.2		411
1997 CK ₁	1997 02 11.69590	10 48 18.67	+14 36 36.3		411	1997 CA ₃	1997 02 11.71491	10 53 43.71	+11 37 13.9		411
1997 CK ₁	1997 02 11.70902	10 48 18.06	+14 36 41.3		411	1997 CA ₃	1997 02 11.72511	10 53 43.40	+11 37 15.2		411
1997 CL ₁	* 1997 02 01.73278	10 54 23.58	+13 12 20.6	18	411	1997 CB ₃	* 1997 02 03.74121	11 04 48.71	+11 05 27.4	16.5	411
1997 CL ₁	1997 02 01.75176	10 54 22.87	+13 12 27.1		411	1997 CB ₃	1997 02 03.75476	11 04 48.29	+11 05 30.7		411
1997 CL ₁	1997 02 03.58933	10 53 15.46	+13 23 35.3		411	1997 CB ₃	1997 02 04.60541	11 04 25.39	+11 11 01.3		411
1997 CL ₁	1997 02 03.64834	10 53 13.05	+13 23 58.0		411	1997 CB ₃	1997 02 04.61856	11 04 25.02	+11 11 06.4		411
1997 CL ₁	1997 02 11.68915	10 47 15.51	+14 15 42.6		411	1997 CB ₃	1997 02 11.72219	11 00 40.59	+11 59 32.6		411
1997 CL ₁	1997 02 11.70226	10 47 14.80	+14 15 47.1		411	1997 CB ₃	1997 02 11.73241	11 00 40.25	+11 59 37.0		411
1997 CM ₁	* 1997 02 01.73435	10 55 36.78	+13 55 39.6	17.5	411	1997 CH ₄	* 1997 02 03.73451	11 03 26.54	+09 27 22.9	17	411
1997 CM ₁	1997 02 01.75334	10 55 36.19	+13 55 44.2		411	1997 CH ₄	1997 02 03.74804	11 03 25.90	+09 27 26.3		411
1997 CM ₁	1997 02 03.64286	10 54 28.92	+14 01 53.2		411	1997 CH ₄	1997 02 06.70243	11 01 25.69	+09 44 03.2		411
1997 CM ₁	1997 02 03.65377	10 54 28.56	+14 01 54.9		411	1997 CH ₄	1997 02 06.70965	11 01 25.29	+09 44 06.1		411
1997 CM ₁	1997 02 11.69736	10 48 40.18	+14 30 25.0		411	1997 CJ ₄	* 1997 02 03.73451	11 04 18.17	+09 18 36.6	17.5	411
1997 CM ₁	1997 02 11.71050	10 48 39.52	+14 30 27.3		411	1997 CJ ₄	1997 02 03.74804	11 04 17.76	+09 18 42.6		411
1997 CN ₁	* 1997 02 01.73910	10 55 38.20	+15 07 54.6	18.5	411	1997 CJ ₄	1997 02 06.70604	11 02 20.13	+09 39 22.6		411
1997 CN ₁	1997 02 01.75808	10 55 37.36	+15 08 01.1		411	1997 CJ ₄	1997 02 06.71326	11 02 19.77	+09 39 26.2		411
1997 CN ₁	1997 02 03.64105	10 54 24.79	+15 17 41.9		411	1997 CK ₄	* 1997 02 04.63010	10 38 06.19	+22 11 38.9	17	411
1997 CN ₁	1997 02 03.65195	10 54 24.38	+15 17 45.3		411	1997 CK ₄	1997 02 04.64366	10 38 05.42	+22 11 43.8		411
1997 CN ₁	1997 02 11.69422	10 48 15.15	+16 00 36.5		411	1997 CK ₄	1997 02 06.57377	10 36 28.00	+22 26 35.5		411
1997 CN ₁	1997 02 11.70734	10 48 14.50	+16 00 40.0		411	1997 CK ₄	1997 02 06.57546	10 36 27.91	+22 26 36.6		411
1997 CO ₁	* 1997 02 01.74572	10 15 56.40	+10 04 47.7	17	411	1997 CK ₄	1997 02 06.68708	10 36 21.83	+22 27 29.0		411
1997 CO ₁	1997 02 01.75921	10 15 55.66	+10 04 51.3		411	1997 CB ₁₇	* 1997 02 06.62860	09 52 01.84	+19 04 31.4	18	411
1997 CO ₁	1997 02 03.50604	10 14 32.68	+10 10 33.5		411	1997 CB ₁₇	1997 02 06.64325	09 52 00.98	+19 04 32.5		411
1997 CO ₁	1997 02 03.51484	10 14 32.25	+10 10 35.6		411	1997 CB ₁₇	1997 02 14.61552	09 43 48.92	+19 22 54.9	18	411
1997 CO ₁	1997 02 11.61663	10 07 15.59	+10 41 16.6		411	1997 CB ₁₇	1997 02 14.62396	09 43 48.35	+19 22 55.8		411
1997 CO ₁	1997 02 11.62545	10 07 15.06	+10 41 18.7		411	1997 CB ₁₇	1997 02 14.70774	09 43 42.94	+19 23 04.6		411
1997 CW ₂	* 1997 02 03.58616	10 49 30.34	+08 39 12.1	17	411	1997 CC ₁₇	* 1997 02 06.70243	11 00 25.79	+09 39 29.9	17	411
1997 CW ₂	1997 02 03.59969	10 49 29.83	+08 39 18.7		411	1997 CC ₁₇	1997 02 06.70965	11 00 25.44	+09 39 31.3		411
1997 CW ₂	1997 02 04.59372	10 48 58.37	+08 46 55.4		411	1997 CC ₁₇	1997 02 11.72657	10 56 26.00	+10 05 16.8		411
1997 CW ₂	1997 02 04.60687	10 48 58.00	+08 47 01.5		411	1997 CC ₁₇	1997 02 11.73450	10 56 25.50	+10 05 19.9		411
1997 CX ₂	* 1997 02 03.62208	10 52 48.62	+10 46 35.4	17.5	411	1997 CP ₁₉	* 1997 02 11.62841	10 15 46.24	+14 20 15.0	16.5	411
1997 CX ₂	1997 02 03.63560	10 52 47.91	+10 46 38.0		411	1997 CP ₁₉	1997 02 11.63572	10 15 45.84	+14 20 20.1		411
1997 CX ₂	1997 02 04.62725	10 52 06.31	+10 49 36.5		411	1997 CP ₁₉	1997 02 12.54291	10 15 00.85	+14 30 42.8		411
1997 CX ₂	1997 02 04.63532	10 52 05.94	+10 49 38.2		411	1997 CP ₁₉	1997 02 12.55551	10 15 00.20	+14 30 52.2		411
1997 CX ₂	1997 02 11.68734	10 46 38.76	+11 12 36.2		411	1997 CQ ₁₉	* 1997 02 11.67164	10 46 10.36	+17 20 00.5	18	411
1997 CX ₂	1997 02 11.70046	10 46 38.02	+11 12 38.7		411	1997 CQ ₁₉	1997 02 11.68550	10 46 09.63	+17 20 05.9		411
1997 CY ₂	* 1997 02 03.64907	10 54 47.84	+10 11 50.9	17	411	1997 CQ ₁₉	1997 02 12.58321	10 45 23.14	+17 26 47.5		411
1997 CY ₂	1997 02 03.66259	10 54 47.49	+10 11 53.4		411	1997 CQ ₁₉	1997 02 12.59169	10 45 22.61	+17 26 52.1		411
1997 CY ₂	1997 02 04.60980	10 54 18.02	+10 16 58.6		411	1997 CR ₁₉	* 1997 02 11.69951	11 18 46.96	+12 49 56.1	16	411

1997 CR ₁₉	1997 02 11.71301	11 18 46.37	+12 49 59.1	411	1997 CF ₂₀	1997 02 12.71476	11 12 56.48	+07 16 33.5	411		
1997 CR ₁₉	1997 02 12.64633	11 18 06.39	+12 53 25.8	411	1997 CF ₂₀	1997 02 13.60576	11 12 12.36	+07 18 18.7	411		
1997 CR ₁₉	1997 02 12.65220	11 18 06.14	+12 53 26.8	411	1997 CF ₂₀	1997 02 13.61840	11 12 11.69	+07 18 20.7	411		
1997 CS ₁₉	* 1997 02 11.70397	11 18 29.46	+14 11 50.0	17	411	1997 CG ₂₀	* 1997 02 12.69577	11 14 08.16	+07 23 27.4	18.5	411
1997 CS ₁₉	1997 02 11.71747	11 18 29.02	+14 11 55.0	411	1997 CG ₂₀	1997 02 12.71476	11 14 07.17	+07 23 26.8	411		
1997 CS ₁₉	1997 02 12.64337	11 17 53.61	+14 18 16.3	411	1997 CG ₂₀	1997 02 13.60938	11 13 22.49	+07 23 06.6	411		
1997 CS ₁₉	1997 02 12.65071	11 17 53.37	+14 18 19.5	411	1997 CG ₂₀	1997 02 13.62203	11 13 21.79	+07 23 06.2	411		
1997 CU ₁₉	* 1997 02 12.56705	11 18 48.69	+10 08 32.5	17	411	1997 CH ₂₀	* 1997 02 12.70367	11 12 54.52	+09 26 42.1	18.5	411
1997 CU ₁₉	1997 02 12.58053	11 18 48.00	+10 08 39.5	411	1997 CH ₂₀	1997 02 12.72268	11 12 53.52	+09 26 50.5	411		
1997 CU ₁₉	1997 02 13.62870	11 18 05.51	+10 16 32.3	411	1997 CH ₂₀	1997 02 13.60396	11 12 11.05	+09 33 45.2	411		
1997 CU ₁₉	1997 02 13.64038	11 18 04.99	+10 16 37.1	411	1997 CH ₂₀	1997 02 13.61660	11 12 10.43	+09 33 51.2	411		
1997 CV ₁₉	* 1997 02 12.56928	11 17 37.90	+10 34 09.0	17	411	1997 CJ ₂₀	* 1997 02 12.70525	11 14 02.57	+09 42 47.0	18	411
1997 CV ₁₉	1997 02 12.58277	11 17 37.29	+10 34 15.5	411	1997 CJ ₂₀	1997 02 12.72425	11 14 01.57	+09 42 54.7	411		
1997 CV ₁₉	1997 02 13.62725	11 16 56.05	+10 42 51.0	411	1997 CJ ₂₀	1997 02 13.60757	11 13 20.74	+09 47 54.3	411		
1997 CV ₁₉	1997 02 13.63892	11 16 55.49	+10 42 57.1	411	1997 CJ ₂₀	1997 02 13.62021	11 13 20.19	+09 47 59.6	411		
1997 CW ₁₉	* 1997 02 12.61049	11 05 50.17	+09 31 11.5	17.5	411	1997 CK ₂₀	* 1997 02 12.70683	11 13 22.67	+10 16 46.4	17	411
1997 CW ₁₉	1997 02 12.62769	11 05 49.56	+09 31 19.2	411	1997 CK ₂₀	1997 02 12.72584	11 13 21.69	+10 16 50.9	411		
1997 CW ₁₉	1997 02 13.58560	11 05 10.97	+09 37 48.5	411	1997 CK ₂₀	1997 02 13.58851	11 12 39.53	+10 20 33.3	411		
1997 CW ₁₉	1997 02 13.59288	11 05 10.62	+09 37 52.1	411	1997 CK ₂₀	1997 02 13.59580	11 12 39.19	+10 20 34.7	411		
1997 CX ₁₉	* 1997 02 12.61863	11 22 19.72	+08 00 25.3	17.5	411	1997 CL ₂₀	* 1997 02 12.70683	11 14 18.52	+10 10 32.0	18.5	411
1997 CX ₁₉	1997 02 12.63211	11 22 19.13	+08 00 26.2	411	1997 CL ₂₀	1997 02 12.72584	11 14 17.52	+10 10 37.7	411		
1997 CX ₁₉	1997 02 13.63016	11 21 36.57	+08 02 27.8	411	1997 CL ₂₀	1997 02 13.61118	11 13 36.53	+10 15 45.5	411		
1997 CX ₁₉	1997 02 13.64183	11 21 36.08	+08 02 28.7	411	1997 CL ₂₀	1997 02 13.62383	11 13 35.91	+10 15 50.4	411		
1997 CY ₁₉	* 1997 02 12.62308	11 23 14.03	+09 14 16.9	16.5	411	1997 CM ₂₀	* 1997 02 12.71045	11 31 10.26	+09 26 15.3	17	411
1997 CY ₁₉	1997 02 12.63656	11 23 13.43	+09 14 18.7	411	1997 CM ₂₀	1997 02 12.72394	11 31 09.69	+09 26 21.1	411		
1997 CY ₁₉	1997 02 13.63163	11 22 28.44	+09 16 56.0	411	1997 CM ₂₀	1997 02 13.63745	11 30 38.24	+09 31 24.8	411		
1997 CY ₁₉	1997 02 13.64330	11 22 27.88	+09 16 57.7	411	1997 CM ₂₀	1997 02 13.64914	11 30 37.77	+09 31 29.7	411		
1997 CZ ₁₉	* 1997 02 12.63052	11 07 00.85	+09 28 53.5	17	411	1997 CN ₂₀	* 1997 02 12.74627	11 33 24.44	+11 34 46.2	17.5	411
1997 CZ ₁₉	1997 02 12.63589	11 07 00.58	+09 28 55.5	411	1997 CN ₂₀	1997 02 12.75977	11 33 23.35	+11 34 42.9	411		
1997 CZ ₁₉	1997 02 13.58706	11 06 15.21	+09 35 41.2	411	1997 CN ₂₀	1997 02 13.57605	11 32 21.18	+11 31 21.4	411		
1997 CZ ₁₉	1997 02 13.59434	11 06 14.81	+09 35 44.4	411	1997 CN ₂₀	1997 02 13.58142	11 32 20.85	+11 31 20.4	411		
1997 CA ₂₀	* 1997 02 12.64775	11 25 46.82	+08 08 49.7	16.5	411	1997 CY ₂₁	* 1997 02 13.61569	11 21 35.58	+04 05 34.0	17.5	411
1997 CA ₂₀	1997 02 12.66124	11 25 46.38	+08 08 55.0	411	1997 CY ₂₁	1997 02 13.62918	11 21 35.08	+04 05 42.4	411		
1997 CA ₂₀	1997 02 13.63309	11 25 16.56	+08 15 48.0	411	1997 CY ₂₁	1997 02 14.66481	11 21 04.26	+04 16 22.3	411		
1997 CA ₂₀	1997 02 13.64477	11 25 16.16	+08 15 53.6	411	1997 CY ₂₁	1997 02 14.69069	11 21 03.36	+04 16 37.6	411		
1997 CB ₂₀	* 1997 02 12.64999	11 26 36.24	+08 25 14.1	17	411	1997 CZ ₂₁	* 1997 02 13.65373	11 23 47.67	+06 45 04.9	17	411
1997 CB ₂₀	1997 02 12.66346	11 26 35.64	+08 25 16.2	411	1997 CZ ₂₁	1997 02 13.66721	11 23 47.01	+06 45 07.9	411		
1997 CB ₂₀	1997 02 13.63454	11 25 55.61	+08 26 50.6	411	1997 CZ ₂₁	1997 02 14.66771	11 23 01.22	+06 49 09.0	411		
1997 CB ₂₀	1997 02 13.64623	11 25 55.10	+08 26 51.6	411	1997 CZ ₂₁	1997 02 14.67939	11 23 00.74	+06 49 11.3	411		
1997 CC ₂₀	* 1997 02 12.66254	11 12 12.87	+08 31 51.0	17.5	411	1997 CA ₂₂	* 1997 02 13.67395	11 25 30.15	+03 50 09.3	16.5	411
1997 CC ₂₀	1997 02 12.68151	11 12 11.99	+08 31 58.1	411	1997 CA ₂₂	1997 02 13.68742	11 25 29.65	+03 50 12.1	411		
1997 CC ₂₀	1997 02 13.58997	11 11 37.84	+08 37 34.3	411	1997 CA ₂₂	1997 02 14.67064	11 24 51.69	+03 55 22.2	411		
1997 CC ₂₀	1997 02 13.59726	11 11 37.52	+08 37 36.8	411	1997 CA ₂₂	1997 02 14.68231	11 24 51.24	+03 55 26.3	411		
1997 CD ₂₀	* 1997 02 12.66412	11 12 16.97	+09 00 21.1	18	411	1997 CB ₂₂	* 1997 02 13.67840	11 25 21.97	+05 06 04.6	16	411
1997 CD ₂₀	1997 02 12.68311	11 12 16.06	+09 00 29.2	411	1997 CB ₂₂	1997 02 13.69188	11 25 21.47	+05 06 07.3	411		
1997 CD ₂₀	1997 02 13.60215	11 11 34.87	+09 06 58.6	411	1997 CB ₂₂	1997 02 14.66917	11 24 41.17	+05 08 25.4	411		
1997 CD ₂₀	1997 02 13.61479	11 11 34.20	+09 07 03.7	411	1997 CB ₂₂	1997 02 14.68084	11 24 40.65	+05 08 27.2	411		
1997 CE ₂₀	* 1997 02 12.68578	11 27 46.22	+10 38 12.9	17.5	411	1997 CC ₂₂	* 1997 02 13.68285	11 25 36.25	+06 33 31.3	17.5	411
1997 CE ₂₀	1997 02 12.69926	11 27 45.67	+10 38 17.5	411	1997 CC ₂₂	1997 02 13.69633	11 25 35.71	+06 33 34.2	411		
1997 CE ₂₀	1997 02 13.63600	11 27 08.34	+10 44 18.8	411	1997 CC ₂₂	1997 02 14.67210	11 24 53.35	+06 36 12.2	411		
1997 CE ₂₀	1997 02 13.64769	11 27 07.86	+10 44 23.5	411	1997 CC ₂₂	1997 02 14.68377	11 24 52.84	+06 36 14.5	411		
1997 CF ₂₀	* 1997 02 12.69577	11 12 57.51	+07 16 31.4	18	411	1997 CD ₂₂	* 1997 02 13.68285	11 27 42.60	+06 53 44.2	17.5	411

1997 CD ₂₂	1997 02 13.69633	11 27 42.02	+06 53 49.5	411
1997 CD ₂₂	1997 02 14.67355	11 27 09.88	+07 00 03.4	411
1997 CD ₂₂	1997 02 14.68524	11 27 09.50	+07 00 09.7	411
1997 CE ₂₂	* 1997 02 13.71420	11 28 25.27	+07 19 18.5	16.5 411
1997 CE ₂₂	1997 02 13.72769	11 28 24.62	+07 19 19.1	411
1997 CE ₂₂	1997 02 14.67501	11 27 38.92	+07 20 13.1	411
1997 CE ₂₂	1997 02 14.68670	11 27 38.28	+07 20 13.4	411
1997 CZ ₂₅	* 1997 02 11.57995	09 47 38.56	+19 10 56.2	411
1997 CZ ₂₅	1997 02 11.58334	09 47 38.39	+19 10 57.9	411
1997 CZ ₂₅	1997 02 11.58843	09 47 37.99	+19 10 58.7	411
1997 CZ ₂₅	1997 02 14.61552	09 44 41.63	+19 29 23.4	18 411
1997 CZ ₂₅	1997 02 14.62227	09 44 41.15	+19 29 26.4	411
1997 CZ ₂₅	1997 02 14.70244	09 44 36.24	+19 29 54.0	411
1997 CE ₂₆	* 1997 02 14.59900	11 19 30.97	+14 34 18.2	17.5 411
1997 CE ₂₆	1997 02 14.61249	11 19 30.41	+14 34 36.7	411
1997 CE ₂₆	1997 02 16.63009	11 18 10.02	+15 23 04.9	411
1997 CE ₂₆	1997 02 16.64026	11 18 09.61	+15 23 20.7	411
1997 CF ₂₆	* 1997 02 14.59900	11 20 54.43	+14 40 42.9	17 411
1997 CF ₂₆	1997 02 14.61249	11 20 53.72	+14 40 47.4	411
1997 CF ₂₆	1997 02 16.59681	11 19 27.65	+14 51 31.8	411
1997 CF ₂₆	1997 02 16.60855	11 19 27.18	+14 51 35.7	411
1997 CG ₂₆	* 1997 02 14.62146	11 23 18.07	+12 36 38.1	17.5 411
1997 CG ₂₆	1997 02 14.63494	11 23 17.50	+12 36 42.1	411
1997 CG ₂₆	1997 02 16.59972	11 21 52.14	+12 47 10.5	411
1997 CG ₂₆	1997 02 16.61147	11 21 51.59	+12 47 13.8	411
1997 CH ₂₆	* 1997 02 14.62591	11 21 51.24	+13 42 04.4	17.5 411
1997 CH ₂₆	1997 02 14.63940	11 21 50.60	+13 42 10.5	411
1997 CH ₂₆	1997 02 16.61001	11 20 27.70	+13 56 38.1	411
1997 CH ₂₆	1997 02 16.62804	11 20 26.85	+13 56 46.2	411
1997 CJ ₂₆	* 1997 02 14.65727	11 24 04.23	+14 30 07.7	17 411
1997 CJ ₂₆	1997 02 14.67075	11 24 03.54	+14 30 14.0	411
1997 CJ ₂₆	1997 02 16.60118	11 22 23.46	+14 43 02.8	411
1997 CJ ₂₆	1997 02 16.61293	11 22 22.83	+14 43 09.0	411
1997 CK ₂₆	* 1997 02 14.66172	11 24 11.66	+15 54 12.5	17.5 411
1997 CK ₂₆	1997 02 14.67521	11 24 11.15	+15 54 18.9	411
1997 CK ₂₆	1997 02 16.60414	11 22 43.69	+16 07 22.2	411
1997 CK ₂₆	1997 02 16.61589	11 22 43.12	+16 07 27.5	411
1997 CL ₂₆	* 1997 02 14.71331	11 30 16.17	+13 35 58.0	17 411
1997 CL ₂₆	1997 02 14.72679	11 30 15.59	+13 36 02.0	411
1997 CL ₂₆	1997 02 16.60564	11 29 06.70	+13 48 41.2	411
1997 CL ₂₆	1997 02 16.61738	11 29 06.26	+13 48 46.0	411
4606 P-L	1997 02 06.70604	11 03 30.63	+09 39 05.6	17 411
4606 P-L	1997 02 06.71326	11 03 30.23	+09 39 08.2	411
4606 P-L	1997 02 11.72073	10 59 44.22	+10 05 27.3	411
4606 P-L	1997 02 11.73095	10 59 43.68	+10 05 30.9	411
6636 P-L	1997 01 31.73164	11 11 35.94	+08 49 54.2	18 411
6636 P-L	1997 01 31.75061	11 11 35.48	+08 49 59.2	411
6636 P-L	1997 02 01.56888	11 11 14.13	+08 53 46.4	411
6636 P-L	1997 02 01.58084	11 11 13.78	+08 53 50.8	411
1251 T-1	1997 01 15.64356	09 48 40.05	+21 19 22.5	411
1251 T-1	1997 01 15.65705	09 48 39.49	+21 19 22.4	411

413 Siding Spring

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Observer R. H. McNaught

1.0-m reflector + CCD

1993 EL	1994 08 15.66624	22 43 26.08	-26 00 17.2	413
1993 EL	1994 08 15.66873	22 43 25.94	-26 00 18.6	413

423 North Ryde

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[mcandrew@trinity.nsw.edu.au]

0.2-m f/4 hyperbolic astrograph + CCD

GSC

1993 OD	1997 02 15.50244	08 52 24.16	+01 49 56.1	16.0 V	423
1993 OD	1997 02 15.51527	08 52 22.91	+01 49 50.2		423
1993 OD	1997 02 15.53870	08 52 20.68	+01 49 40.2		423
1993 OD	1997 02 15.54920	08 52 19.68	+01 49 36.3		423
1993 OD	1997 02 15.55911	08 52 18.73	+01 49 31.1		423
(276)	1997 01 20.52340	07 55 17.94	-11 55 53.8	13.4 V	423
(276)	1997 01 20.53550	07 55 17.33	-11 55 52.8		423
(276)	1997 01 20.54299	07 55 16.96	-11 55 51.9		423
(276)	1997 01 20.55817	07 55 16.19	-11 55 49.9		423
(276)	1997 01 20.56975	07 55 15.65	-11 55 48.4		423
(276)	1997 01 20.57777	07 55 15.25	-11 55 47.4		423
(276)	1997 01 20.58560	07 55 14.83	-11 55 46.5		423
(276)	1997 01 20.59277	07 55 14.47	-11 55 45.4		423
(276)	1997 01 20.62326	07 55 13.03	-11 55 41.9		423
(456)	1997 01 18.64115	10 26 14.33	-11 54 38.7	14.0 V	423
(456)	1997 01 18.64696	10 26 14.24	-11 54 39.8		423
(456)	1997 01 18.65458	10 26 14.04	-11 54 41.5		423
(456)	1997 01 18.66096	10 26 13.92	-11 54 42.6		423
(456)	1997 01 18.67809	10 26 13.50	-11 54 46.8		423
(456)	1997 01 18.69128	10 26 13.22	-11 54 49.6		423
(456)	1997 01 18.71604	10 26 12.64	-11 54 55.5		423
(456)	1997 01 18.72442	10 26 12.42	-11 54 56.9		423
(456)	1997 01 18.73756	10 26 12.15	-11 55 00.3		423
(541)	1997 02 07.67887	11 28 59.65	-05 40 27.0	15.0 V	423
(541)	1997 02 07.69721	11 28 59.10	-05 40 26.8		423
(541)	1997 02 07.70878	11 28 58.75	-05 40 26.2		423
(541)	1997 02 15.60233	11 24 30.42	-05 32 09.8	14.7 V	423
(541)	1997 02 15.62162	11 24 29.66	-05 32 08.6		423
(541)	1997 02 15.63729	11 24 29.02	-05 32 07.0		423
(541)	1997 02 15.66728	11 24 27.84	-05 32 03.5		423
(916)	1997 02 05.55860	10 33 22.04	+09 15 06.3	14.8 V	423
(916)	1997 02 05.57410	10 33 21.11	+09 15 07.9		423
(916)	1997 02 05.59535	10 33 19.79	+09 15 10.4		423
(916)	1997 02 07.56571	10 31 21.08	+09 19 16.5	15.0 V	423
(916)	1997 02 07.57282	10 31 20.62	+09 19 17.4		423
(916)	1997 02 07.58847	10 31 19.64	+09 19 19.6		423
(916)	1997 02 07.59380	10 31 19.29	+09 19 20.7		423
(916)	1997 02 07.60866	10 31 18.35	+09 19 22.0		423
(916)	1997 02 09.54120	10 29 18.79	+09 23 36.6	14.9 V	423

(916)	1997 02 09.55122	10 29 18.16	+09 23 37.6		423
(916)	1997 02 09.56178	10 29 17.44	+09 23 39.4		423
(916)	1997 02 09.57171	10 29 16.81	+09 23 40.9		423
(1040)	1997 01 20.68487	10 46 22.77	-11 52 04.5	15.3 V	423
(1040)	1997 01 20.72016	10 46 21.82	-11 52 17.4		423
(2204)	1997 02 04.45917	06 29 04.94	-06 11 19.4	14.4 V	423
(2204)	1997 02 04.48485	06 29 05.58	-06 10 32.8		423
(2204)	1997 02 04.50780	06 29 06.17	-06 09 50.6		423
(2204)	1997 02 04.51397	06 29 06.34	-06 09 39.4		423
(2204)	1997 02 05.44110	06 29 35.25	-05 41 41.8	14.4 V	423
(2204)	1997 02 05.45319	06 29 35.57	-05 41 20.1		423
(2204)	1997 02 05.46097	06 29 35.80	-05 41 06.0		423
(2204)	1997 02 05.46961	06 29 36.02	-05 40 50.3		423
(2204)	1997 02 05.48788	06 29 36.53	-05 40 17.6		423
(2204)	1997 02 05.49318	06 29 36.69	-05 40 08.1		423
(2204)	1997 02 05.51682	06 29 37.33	-05 39 25.2		423
(2204)	1997 02 07.47185	06 30 44.26	-04 40 41.7	14.5 V	423
(2204)	1997 02 07.48920	06 30 44.87	-04 40 10.5		423
(2204)	1997 02 07.49896	06 30 45.14	-04 39 52.9		423
(2204)	1997 02 09.47096	06 32 01.03	-03 41 07.3	15.0 V	423
(2204)	1997 02 09.49163	06 32 01.77	-03 40 30.5		423

473 Remanzacco

F. Verlezza, via S.Stefano 31, I-33047 Remanzacco (UD), Italy

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Observers P. Blasich, M. Dal Bo, V. Gonano, G. Sostero, F. Verlezza

Measurer F. Verlezza

0.45-m $f/4.5$ reflector + CCD

GSC

1997 AC ₁₁	1997 01 15.05986	10 28 21.40	+20 47 57.1	18 V	473
1997 AC ₁₁	1997 01 15.06592	10 28 22.54	+20 49 13.2		473
1997 AC ₁₁	1997 01 17.06027	10 36 04.14	+28 46 18.9		473
1997 AC ₁₁	1997 01 17.06537	10 36 05.34	+28 47 38.6		473
1997 AC ₁₁	1997 01 17.07265	10 36 07.28	+28 49 33.3		473
1997 AQ ₁₈	1997 02 06.94586	07 01 15.06	+15 26 22.2	19.0 V	473
1997 AQ ₁₈	1997 02 06.95105	07 01 14.53	+15 26 18.9		473
1997 BR	1997 02 08.99541	09 58 09.09	+38 32 03.4		473
1997 BR	1997 02 08.99685	09 58 08.95	+38 32 08.8		473
1997 BR	1997 02 08.99755	09 58 08.99	+38 32 10.2		473
1997 BR	1997 02 09.00210	09 58 08.45	+38 32 24.9		473
1997 BR	1997 02 10.06679	09 56 31.26	+39 29 47.6		473
1997 BR	1997 02 10.07018	09 56 30.97	+39 29 59.1		473
1997 BR	1997 02 10.07218	09 56 30.74	+39 30 05.5		473
1997 BR	1997 02 10.07779	09 56 30.20	+39 30 23.5		473
1997 BR	1997 02 10.08604	09 56 29.39	+39 30 50.4		473
(128)	1997 01 15.13627	10 57 41.52	+15 17 43.2	12 V	473
(128)	1997 01 17.17209	10 57 07.00	+15 27 15.2		473
(471)	1997 01 15.91039	07 53 46.09	+33 31 15.7	10 V	473
(471)	1997 01 15.91949	07 53 45.47	+33 31 19.7		473
(471)	1997 01 16.84870	07 52 46.91	+33 37 57.9		473
(471)	1997 01 16.85548	07 52 46.50	+33 38 00.5		473
(790)	1996 08 18.91407	21 06 12.93	+14 11 26.7	13 V	473

(790)	1996 08 19.86350	21 05 31.83	+14 08 52.1	473
(790)	1996 08 21.90719	21 04 04.79	+14 02 40.9	473

476 Grange Observatory

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[mc2213@mcclink.it]

0.30-m $f/4.0$ reflector + CCD

GSC

(529)	1997 01 28.85486	04 13 53.25	+25 51 31.9	14.8 V	476
(529)	1997 01 28.87917	04 13 53.50	+25 51 35.1	14.8 V	476
(529)	1997 01 28.88802	04 13 53.62	+25 51 36.7	14.8 V	476
(529)	1997 02 06.88108	04 16 47.47	+26 10 31.5		476
(529)	1997 02 06.89115	04 16 47.74	+26 10 32.5		476
(529)	1997 02 06.90590	04 16 48.13	+26 10 33.9		476
(529)	1997 02 06.91076	04 16 48.17	+26 10 36.0		476

491 Yebes

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Observers J. F. Lahulla, J. García

0.40-m $f/5$ astrograph + CCD

GSC

(229)	1996 10 22.00303	01 04 27.17	+06 26 11.1	491
(229)	1996 10 22.08544	01 04 23.64	+06 25 54.0	491
(229)	1996 10 22.09653	01 04 23.22	+06 25 52.2	491
(382)	1996 11 06.92200	00 59 27.69	+16 38 45.2	491
(382)	1996 11 07.00493	00 59 24.70	+16 38 22.8	491
(431)	1996 11 06.82500	00 32 58.13	+00 40 16.4	491
(431)	1996 11 06.83816	00 32 57.86	+00 40 14.1	491
(431)	1996 11 06.86466	00 32 57.31	+00 40 13.4	491
(431)	1996 11 06.95750	00 32 55.41	+00 40 05.4	491
(493)	1996 11 06.91584	00 38 40.15	+16 21 50.2	491
(493)	1996 11 06.98171	00 38 37.58	+16 21 46.0	491
(983)	1996 11 06.90970	00 42 02.00	+20 26 51.2	491
(983)	1996 11 06.97291	00 42 00.33	+20 26 20.5	491
(983)	1996 11 06.98981	00 41 59.74	+20 26 11.7	491
(983)	1996 11 06.99612	00 41 59.59	+20 26 08.6	491
(1074)	1996 11 06.92689	01 03 09.97	+06 28 11.5	491
(1074)	1996 11 07.01001	01 03 07.18	+06 27 56.9	491
(1089)	1996 11 06.80339	00 28 20.28	-02 16 21.7	491
(1089)	1996 11 06.84422	00 28 19.27	-02 16 18.5	491
(1118)	1996 11 06.79182	00 19 07.02	+20 59 21.6	491
(1118)	1996 11 06.81734	00 19 06.31	+20 59 14.9	491
(1176)	1996 11 06.88624	00 35 45.03	+14 32 06.0	491
(1176)	1996 11 06.96172	00 35 43.03	+14 31 35.9	491
(3560)	1996 11 06.89831	00 36 45.63	+17 12 55.2	491
(3560)	1996 11 06.96678	00 36 43.52	+17 12 38.3	491
(3908)	1996 11 06.93575	02 25 47.76	+35 27 44.5	491
(3908)	1996 11 06.93961	02 25 50.19	+35 27 41.4	491
(3908)	1996 11 06.94166	02 25 51.52	+35 27 39.9	491
(3908)	1996 11 06.94338	02 25 52.63	+35 27 39.4	491
(3908)	1996 11 06.94660	02 25 54.67	+35 27 36.8	491

494 Stakenbridge

B. G. W. Manning, Moonrakers, Stakenbridge, Churchill, Kidderminster, Worcs.

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

0.26-m $f/7.3$ reflector + CCD

PPM

1989 UA ₃	1997 01 26.87406	06 30 31.64	+19 01 56.1	494
1989 UA ₃	1997 01 26.88484	06 30 31.18	+19 01 57.9	494
1989 UA ₃	1997 01 26.91521	06 30 29.98	+19 02 01.7	494
1989 UA ₃	1997 02 05.82977	06 25 57.03	+19 21 58.5	494
1989 UA ₃	1997 02 07.82194	06 25 28.03	+19 25 52.2	494
1989 UA ₃	1997 02 07.85896	06 25 27.52	+19 25 55.8	494
1989 UA ₃	1997 02 13.84755	06 24 53.67	+19 37 11.3	494
1989 UA ₃	1997 02 13.85728	06 24 53.62	+19 37 11.4	494
1989 UA ₃	1997 02 13.87822	06 24 53.63	+19 37 14.1	494
1989 UN ₃	1997 02 07.95265	09 57 46.44	+12 05 06.9	494
1989 UN ₃	1997 02 07.96168	09 57 46.15	+12 05 08.4	494
1989 UN ₃	1997 02 13.94243	09 53 17.58	+12 31 44.0	494
1989 UN ₃	1997 02 13.95126	09 53 17.12	+12 31 46.2	494
1989 UN ₃	1997 02 13.96000	09 53 16.76	+12 31 49.6	494

504 Le Creusot

J.-C. Merlin, 17 rue P. Mendes-France, F-71200 Le Creusot, France

Observer J.-C. Merlin

Measurer J.-M. Azema

0.40-m $f/5.1$ reflector + RTC XX 1390 image intensifier

GSC

(4179)	1993 01 14.84292	08 03 23.76	+19 58 52.4	12.5 V	504
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540 Linz

E. Meyer, F. Marklstrasse 1/62, A-4040 Linz, Austria [k3032e0@c210.edvz.uni-linz.ac.at]

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

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

GSC

1993 CJ ₁	1997 01 18.15988	10 28 41.89	+01 50 52.3	17.9 R	540
1993 CJ ₁	1997 01 18.16640	10 28 41.78	+01 50 54.0		540
1993 CJ ₁	1997 01 18.17358	10 28 41.68	+01 50 56.5		540
1994 PC ₁	1997 01 21.79749	01 47 47.68	+11 29 20.5	13.6 R	540
1994 PC ₁	1997 01 21.79888	01 47 45.77	+11 29 59.3		540
1994 PC ₁	1997 01 21.80165	01 47 41.94	+11 31 16.8		540
1994 PC ₁	1997 01 21.80582	01 47 36.18	+11 33 13.0		540
1994 PC ₁	1997 01 21.81277	01 47 26.62	+11 36 26.9		540
1994 PC ₁	1997 01 21.81693	01 47 20.89	+11 38 22.9		540
1994 PC ₁	1997 01 22.71363	01 27 10.13	+18 22 01.3	13.7 R	540
1994 PC ₁	1997 01 22.71502	01 27 08.17	+18 22 37.4		540
1994 PC ₁	1997 01 22.71641	01 27 06.24	+18 23 13.4		540
1994 PC ₁	1997 01 22.72058	01 27 00.44	+18 25 00.6		540
1994 PC ₁	1997 01 22.72752	01 26 50.78	+18 27 59.8		540
1994 PC ₁	1997 01 22.73447	01 26 41.13	+18 30 58.5		540
1994 PC ₁	1997 01 28.77384	23 24 56.32	+44 58 22.0	14.6 R	540
1994 PC ₁	1997 01 28.77593	23 24 54.23	+44 58 37.2		540
1994 PC ₁	1997 01 28.77878	23 24 51.38	+44 58 58.3		540
1994 PC ₁	1997 02 01.71926	22 30 22.45	+50 22 12.7	14.8 R	540

1994 PC ₁	1997 02 01.72135	22 30 21.08	+50 22 17.9		540
1994 PC ₁	1997 02 01.72344	22 30 19.60	+50 22 24.0		540
1994 PC ₁	1997 02 01.72726	22 30 16.97	+50 22 34.6		540
1994 PC ₁	1997 02 06.75874	21 44 42.59	+52 47 45.1	15.5 R	540
1994 PC ₁	1997 02 06.76218	21 44 40.76	+52 47 49.3		540
1994 PC ₁	1997 02 06.76522	21 44 39.63	+52 47 49.3		540
1997 BQ	1997 02 01.77236	12 57 50.99	+69 03 16.7	16.4 R	540
1997 BQ	1997 02 01.77598	12 57 54.27	+69 03 22.2		540
1997 BQ	1997 02 01.78160	12 57 59.08	+69 03 32.1		540
1997 BQ	1997 02 01.78519	12 58 02.71	+69 03 38.0		540
1997 BQ	1997 02 02.75995	13 12 37.05	+69 27 07.6	16.3 R	540
1997 BQ	1997 02 02.76163	13 12 38.58	+69 27 10.6		540
1997 BQ	1997 02 02.76403	13 12 40.84	+69 27 14.0		540
1997 BQ	1997 02 06.77887	14 19 29.99	+70 10 50.1	16.7 R	540
1997 BQ	1997 02 06.78081	14 19 32.00	+70 10 50.1		540
1997 BQ	1997 02 06.78289	14 19 34.33	+70 10 50.4		540
1997 BR	1997 02 02.73346	10 05 54.69	+33 00 10.6	16.9 R	I 540
1997 BR	1997 02 02.73660	10 05 54.67	+33 00 17.6		I 540
1997 BR	1997 02 02.73972	10 05 54.41	+33 00 28.2		I 540
1997 BR	1997 02 02.74296	10 05 54.32	+33 00 37.1		I 540
1997 BR	1997 02 06.79234	10 01 13.94	+36 33 37.5	17.1 R	540
1997 BR	1997 02 06.79551	10 01 13.73	+36 33 47.4		540
1997 BR	1997 02 06.79899	10 01 13.40	+36 33 59.8		540
1997 CQ ₁	1997 02 02.88035	09 10 14.42	+12 28 41.6	18.0 R	540
1997 CQ ₁	1997 02 02.89616	09 10 13.66	+12 28 49.0		I 540
1997 CQ ₁	1997 02 02.90784	09 10 13.17	+12 28 55.4		540
1997 CG ₄	1997 02 08.88549	09 54 18.78	+16 44 03.2	18.5 R	540
1997 CG ₄	1997 02 08.89219	09 54 18.32	+16 44 04.2		540
1997 CG ₄	1997 02 08.90312	09 54 17.57	+16 44 06.3		540
1997 CG ₄	1997 02 09.90113	09 53 09.63	+16 47 01.2	18.8 R	540
1997 CG ₄	1997 02 09.90773	09 53 09.09	+16 47 02.3		540
1997 CG ₄	1997 02 09.91421	09 53 08.66	+16 47 03.4		540
1997 CG ₄	1997 02 09.93803	09 53 07.04	+16 47 07.8		540
1997 CG ₄	1997 02 10.86756	09 52 03.49	+16 49 47.5	18.7 R	540
1997 CG ₄	1997 02 10.87399	09 52 03.09	+16 49 48.3		540
1997 CG ₄	1997 02 10.88062	09 52 02.59	+16 49 50.1		540
1997 CG ₄	1997 02 10.89574	09 52 01.67	+16 49 52.4		540
1997 CO ₅	1997 02 08.76066	09 05 21.85	+17 29 18.1	16.7 R	540
1997 CO ₅	1997 02 08.76499	09 05 21.41	+17 29 12.0		540
1997 CO ₅	1997 02 08.76941	09 05 20.96	+17 29 05.8		540
1997 CD ₆	* 1997 02 06.82512	09 13 54.78	+15 35 18.6	18.4 R	F 540
1997 CD ₆	1997 02 06.86319	09 13 52.77	+15 35 40.1		540
1997 CD ₆	1997 02 06.90833	09 13 50.46	+15 36 04.8		540
1997 CD ₆	1997 02 07.81580	09 13 04.44	+15 44 28.6	18.3 R	F 540
1997 CD ₆	1997 02 07.82236	09 13 04.19	+15 44 33.7		540
1997 CD ₆	1997 02 07.84288	09 13 03.10	+15 44 44.4		540
1997 CD ₆	1997 02 08.79311	09 12 14.90	+15 53 32.5	18.3 R	540
1997 CD ₆	1997 02 08.79983	09 12 14.66	+15 53 34.4		540
1997 CD ₆	1997 02 08.80641	09 12 14.06	+15 53 39.0		540
1997 CD ₆	1997 02 08.82650	09 12 13.35	+15 53 50.4		F 540
1997 CD ₆	1997 02 09.86806	09 11 20.42	+16 03 29.3	18.8 R	540
1997 CD ₆	1997 02 09.87499	09 11 20.01	+16 03 33.3		540

1997 CD ₆	1997 02 09.88194	09 11 19.61	+16 03 37.4		540
1997 CD ₆	1997 02 09.92639	09 11 17.33	+16 04 01.8		540
1997 CD ₆	1997 02 10.83692	09 10 31.51	+16 12 25.3	18.7 R	540
1997 CD ₆	1997 02 10.84346	09 10 31.16	+16 12 27.6	F	540
1997 CD ₆	1997 02 10.85035	09 10 30.82	+16 12 31.9		540
1997 CE ₆	* 1997 02 06.84005	09 16 25.33	+15 25 16.9	18.6 R	540
1997 CE ₆	1997 02 06.87784	09 16 22.94	+15 25 26.6	F	540
1997 CE ₆	1997 02 06.92940	09 16 19.78	+15 25 41.1	F	540
1997 CE ₆	1997 02 07.99247	09 15 14.05	+15 30 42.7	18.7 R	540
1997 CE ₆	1997 02 08.00367	09 15 13.40	+15 30 47.8	F	540
1997 CE ₆	1997 02 08.01397	09 15 12.79	+15 30 51.9		540
1997 CE ₆	1997 02 08.84149	09 14 22.02	+15 34 43.8	18.9 R	F 540
1997 CE ₆	1997 02 08.84815	09 14 21.58	+15 34 45.7	F	540
1997 CJ ₁₃	* 1997 02 07.78854	09 13 27.20	+15 56 12.1	18.5 R	F 540
1997 CJ ₁₃	1997 02 07.79514	09 13 26.96	+15 56 13.3		540
1997 CJ ₁₃	1997 02 07.80347	09 13 26.36	+15 56 16.4	F	540
1997 CJ ₁₃	1997 02 07.96296	09 13 16.86	+15 56 50.1		540
1997 CJ ₁₃	1997 02 07.97337	09 13 16.24	+15 56 53.0		540
1997 CJ ₁₃	1997 02 08.79311	09 12 28.93	+15 59 45.5	18.7 R	F 540
1997 CJ ₁₃	1997 02 08.79983	09 12 28.39	+15 59 46.8	F	540
1997 CJ ₁₃	1997 02 08.80641	09 12 28.27	+15 59 47.1	F	540
1997 CJ ₁₃	1997 02 08.82650	09 12 26.96	+15 59 52.5		540
1997 CJ ₁₃	1997 02 09.86806	09 11 26.81	+16 03 30.7	19.0 R	F 540
1997 CJ ₁₃	1997 02 09.87499	09 11 26.41	+16 03 32.2	F	540
1997 CJ ₁₃	1997 02 09.88194	09 11 26.05	+16 03 34.1	F	540
1997 CJ ₁₃	1997 02 09.92639	09 11 23.35	+16 03 43.6		540
1997 CJ ₁₃	1997 02 10.83692	09 10 31.13	+16 06 52.7	18.2 R	540
1997 CJ ₁₃	1997 02 10.84346	09 10 30.87	+16 06 52.7		540
1997 CJ ₁₃	1997 02 10.85035	09 10 30.63	+16 06 53.8		540
1997 CU ₁₃	* 1997 02 08.79311	09 13 13.58	+16 01 27.0	18.3 R	F 540
1997 CU ₁₃	1997 02 08.79983	09 13 13.14	+16 01 27.9	F	540
1997 CU ₁₃	1997 02 08.80641	09 13 12.56	+16 01 29.4		540
1997 CU ₁₃	1997 02 08.82650	09 13 11.38	+16 01 35.7		540
1997 CU ₁₃	1997 02 09.86806	09 12 04.09	+16 06 55.9	18.2 R	540
1997 CU ₁₃	1997 02 09.92639	09 12 00.24	+16 07 13.4		540
1997 CU ₁₃	1997 02 10.83692	09 11 02.21	+16 11 47.5	18.4 R	540
1997 CU ₁₃	1997 02 10.84346	09 11 01.81	+16 11 49.0		540
1997 CU ₁₃	1997 02 10.85035	09 11 01.38	+16 11 50.8		540
1997 CA ₁₉	* 1997 02 09.86806	09 11 41.90	+16 03 35.8	18.8 R	I 540
1997 CA ₁₉	1997 02 09.87499	09 11 41.52	+16 03 37.5	I	540
1997 CA ₁₉	1997 02 09.88194	09 11 41.21	+16 03 37.5	I	540
1997 CA ₁₉	1997 02 09.92639	09 11 38.74	+16 03 40.3		540
1997 CA ₁₉	1997 02 10.83692	09 10 50.20	+16 04 28.6	18.7 R	F 540
1997 CA ₁₉	1997 02 10.84346	09 10 49.82	+16 04 29.9	F	540
1997 CA ₁₉	1997 02 10.85035	09 10 49.44	+16 04 30.1	F	540
(662)	1997 02 06.85347	09 22 28.14	+15 49 53.9	14.1 R	540
(662)	1997 02 06.88941	09 22 26.10	+15 50 05.5		540
(662)	1997 02 06.94167	09 22 23.12	+15 50 22.6		540

552 San Vittore

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

[astrofil@astbo1.bo.cnr.it]

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

0.45-m $f/3.3$ reflector + CCD

GSC

1982 JM ₁	1997 02 07.93796	10 15 00.44	+15 49 20.9	18.0 V	552
1982 JM ₁	1997 02 07.95439	10 14 59.68	+15 49 26.3		552
1982 JM ₁	1997 02 07.97186	10 14 58.92	+15 49 31.7		552
1982 JM ₁	1997 02 08.91804	10 14 16.11	+15 54 04.8	17.8 V	552
1982 JM ₁	1997 02 08.92485	10 14 15.78	+15 54 06.9		552
1982 JM ₁	1997 02 08.93553	10 14 15.30	+15 54 09.7		552
1987 MC	1997 02 08.95444	11 41 10.21	+00 19 11.4	18.4 V	552
1987 MC	1997 02 08.96374	11 41 09.97	+00 19 14.2		552
1987 MC	1997 02 08.97383	11 41 09.64	+00 19 17.3		552
1995 OE	1997 01 14.72163	00 48 26.09	+11 36 50.3	18.0 V	552
1995 OE	1997 01 14.72549	00 48 26.24	+11 36 51.7		552
1995 OE	1997 01 14.73149	00 48 26.61	+11 36 53.4		552
1995 OE	1997 01 14.73715	00 48 26.94	+11 36 54.3		552
1995 SC ₂	1997 02 06.91208	09 02 30.31	+11 52 04.4	17.5 V	552
1995 SC ₂	1997 02 06.92985	09 02 29.28	+11 52 11.9		552
1995 SC ₂	1997 02 06.94878	09 02 28.13	+11 52 19.8		552
1995 SC ₂	1997 02 07.89554	09 01 33.71	+11 59 06.1	17.8 V	552
1995 SC ₂	1997 02 07.90662	09 01 33.10	+11 59 10.9		552
1995 SC ₂	1997 02 07.91427	09 01 32.62	+11 59 13.9		552
1995 SC ₂	1997 02 08.89366	09 00 36.65	+12 06 15.1	17.5 V	552
1995 SC ₂	1997 02 08.90176	09 00 36.20	+12 06 19.0		552
1995 SD ₂	1997 01 31.88664	08 13 49.41	+16 22 06.2	16.5 V	552
1995 SD ₂	1997 01 31.94066	08 13 46.37	+16 22 12.4		552
1995 SD ₂	1997 01 31.96012	08 13 45.28	+16 22 14.6		552
1995 SD ₂	1997 02 06.87508	08 08 35.20	+16 32 46.6	17.0 V	552
1995 SD ₂	1997 02 06.88344	08 08 34.76	+16 32 47.0		552
1995 SD ₂	1997 02 06.89358	08 08 34.22	+16 32 48.4		552
1995 SD ₂	1997 02 08.85887	08 06 58.38	+16 36 07.5	17.0 V	552
1995 SD ₂	1997 02 08.86421	08 06 58.12	+16 36 08.3		552
1995 SD ₂	1997 02 08.87492	08 06 57.59	+16 36 09.4		552
1997 AG ₁₈	1997 01 29.78115	05 38 31.80	+17 04 33.0	19.7 V	552
1997 AG ₁₈	1997 01 29.79990	05 38 31.43	+17 04 32.3		552
1997 AG ₁₈	1997 01 29.81183	05 38 31.24	+17 04 32.7		552
1997 AG ₁₈	1997 01 29.84022	05 38 30.85	+17 04 33.0		552

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Czech Republic [ppravec@asu.cas.cz]

Observers P. Pravec, L. Šarounová, M. Wolf

0.65-m $f/3.6$ reflector + CCD

GSC

1975 SZ ₁	1997 02 14.74905	08 01 58.72	+16 52 02.4		557
1975 SZ ₁	1997 02 14.75104	08 01 58.69	+16 52 02.2		557
1975 SZ ₁	1997 02 14.75303	08 01 58.62	+16 52 03.5		557
1975 SZ ₁	1997 02 14.75502	08 01 58.52	+16 52 03.4	18.6 V	557
1994 PC ₁	1997 01 26.70651	00 01 58.11	+39 22 40.4		557
1994 PC ₁	1997 01 26.74274	00 01 15.26	+39 29 57.3		557
1994 PC ₁	1997 01 26.77626	00 00 35.89	+39 36 37.2	14.3 V	557
1994 PC ₁	1997 01 26.81050	23 59 55.99	+39 43 21.6		557
1994 PC ₁	1997 02 01.20920	22 36 28.35	+49 54 46.5		557

1994 PC ₁	1997 02 01.21969	22 36 20.94	+49 55 23.6	15.6 V	557	1996 YU ₂	1997 02 07.74106	05 06 18.14	+05 51 41.1		557
1994 PC ₁	1997 02 01.22765	22 36 15.29	+49 55 51.9		557	1996 YU ₂	1997 02 07.76451	05 06 18.38	+05 51 48.7	18.1 V	557
1994 PC ₁	1997 02 02.72208	22 19 27.85	+51 06 37.5		557	1996 YU ₂	1997 02 07.76741	05 06 18.42	+05 51 49.9		557
1994 PC ₁	1997 02 02.73953	22 19 16.91	+51 07 15.3		557	1997 AE ₁₈	1997 02 01.90331	08 16 20.40	+19 47 32.0		557
1994 PC ₁	1997 02 02.76819	22 18 59.10	+51 08 17.3		557	1997 AE ₁₈	1997 02 01.90618	08 16 20.19	+19 47 32.3		557
1994 PC ₁	1997 02 02.78708	22 18 47.45	+51 08 57.6		557	1997 AE ₁₈	1997 02 08.01938	08 09 26.53	+19 51 53.3		557
1994 PC ₁	1997 02 02.80008	22 18 39.46	+51 09 25.6		557	1997 AE ₁₈	1997 02 08.02223	08 09 26.35	+19 51 53.4	17.4 V	557
1995 HC	1997 02 07.72346	01 43 10.68	+08 50 31.0		557	1997 AE ₁₈	1997 02 08.02507	08 09 26.17	+19 51 53.5		557
1995 HC	1997 02 07.72980	01 43 11.30	+08 50 34.4		557	1997 BQ	1997 01 25.87288	11 37 05.09	+64 47 40.6		557
1995 OK	1997 01 13.97559	07 34 18.60	+19 13 24.2		557	1997 BQ	1997 01 25.87417	11 37 05.81	+64 47 44.1	17.3 V	557
1995 OK	1997 01 13.97848	07 34 18.41	+19 13 24.9	18.1 V	557	1997 BQ	1997 01 25.87675	11 37 07.15	+64 47 51.0		557
1995 OK	1997 01 13.98128	07 34 18.24	+19 13 26.0		557	1997 BQ	1997 01 27.18838	11 49 33.14	+65 44 58.8		557
1995 OK	1997 01 31.82198	07 16 16.58	+20 41 49.4		557	1997 BQ	1997 01 27.19352	11 49 36.12	+65 45 11.3	17.2 V	557
1995 OK	1997 02 01.91718	07 15 20.91	+20 46 41.4		557	1997 BQ	1997 01 27.19899	11 49 39.31	+65 45 24.9		557
1995 OK	1997 02 01.92010	07 15 20.76	+20 46 42.1		557	1997 BQ	1997 01 27.20419	11 49 42.34	+65 45 37.8		557
1995 OK	1997 02 01.92321	07 15 20.59	+20 46 43.3		557	1997 BQ	1997 02 03.18023	13 19 03.72	+69 36 35.1		557
1995 OK	1997 02 07.74888	07 10 56.17	+21 11 08.8		557	1997 BQ	1997 02 03.18301	13 19 06.27	+69 36 38.4		557
1995 OK	1997 02 07.75494	07 10 55.91	+21 11 10.3		557	1997 BQ	1997 02 03.19266	13 19 15.03	+69 36 49.6		557
1995 OK	1997 02 07.76086	07 10 55.68	+21 11 12.1		557	1997 BQ	1997 02 03.19844	13 19 20.33	+69 36 56.1	16.8 V	557
1995 OF ₁	1997 01 31.98830	09 29 24.20	+16 31 37.2		557	1997 BQ	1997 02 06.75973	14 19 09.15	+70 10 50.4		557
1995 OF ₁	1997 01 31.99122	09 29 24.00	+16 31 37.9		557	1997 BQ	1997 02 06.77058	14 19 20.87	+70 10 50.5		557
1995 OF ₁	1997 01 31.99515	09 29 23.75	+16 31 38.8		557	1997 BQ	1997 02 06.77659	14 19 27.39	+70 10 50.6	17.2 V	557
1995 OF ₁	1997 02 09.89941	09 19 50.50	+17 04 47.1		557	1997 BR	1997 01 27.16663	10 10 55.48	+27 39 21.7		557
1995 OF ₁	1997 02 09.92537	09 19 48.77	+17 04 52.6		557	1997 BR	1997 01 27.17001	10 10 55.36	+27 39 30.7		557
1995 OF ₁	1997 02 09.92803	09 19 48.59	+17 04 53.4		557	1997 BR	1997 01 27.17453	10 10 55.20	+27 39 43.1		557
1995 PG	1997 01 31.91538	08 47 42.18	+28 47 55.1		557	1997 BR	1997 01 27.17865	10 10 55.08	+27 39 53.8		557
1995 PG	1997 01 31.92354	08 47 41.54	+28 47 53.1		557	1997 BR	1997 02 03.91944	10 04 39.97	+34 01 44.1	17.6 V	557
1995 PG	1997 01 31.92684	08 47 41.28	+28 47 52.3		557	1997 BR	1997 02 03.92365	10 04 39.66	+34 01 57.2		557
1995 QJ	1997 02 01.08360	11 24 06.33	+04 28 31.2		557	1997 BR	1997 02 03.93115	10 04 39.14	+34 02 21.5	17.7 V	557
1995 QJ	1997 02 01.09889	11 24 05.89	+04 28 35.6		557	1997 BR	1997 02 06.92347	10 01 03.04	+36 40 41.3	17.5 V	557
1995 QJ	1997 02 02.16946	11 23 35.50	+04 33 27.7	19.4 V	557	1997 BR	1997 02 07.10737	10 00 47.16	+36 50 30.7	17.1 V	557
1995 QP	1997 02 01.00089	10 10 14.52	+16 25 52.7		557	1997 BR	1997 02 07.80887	09 59 52.00	+37 28 05.1	16.8 V	557
1995 QP	1997 02 01.00369	10 10 14.36	+16 25 53.0		557	1997 BR	1997 02 08.12623	09 59 23.34	+37 45 10.8	17.2 V	557
1995 QP	1997 02 01.00649	10 10 14.22	+16 25 53.8		557	1997 BR	1997 02 09.93377	09 56 44.64	+39 22 36.5	16.7 V	557
1995 SG	1997 02 01.01928	10 31 59.46	+06 58 19.0	r	557	1997 BR	1997 02 09.93965	09 56 44.03	+39 22 55.9		557
1995 SG	1997 02 01.02751	10 31 59.12	+06 58 21.6	r	557	1997 BR	1997 02 10.15230	09 56 22.80	+39 34 19.0	17.1 V	557
1995 SG	1997 02 02.15888	10 31 08.00	+07 02 53.6		557	1997 BR	1997 02 10.73926	09 55 29.48	+40 05 53.2		557
1995 SG	1997 02 02.16341	10 31 07.83	+07 02 55.8	19.2 V	557	1997 BR	1997 02 10.75126	09 55 28.33	+40 06 32.7	16.7 V	557
1995 SG	1997 02 02.16557	10 31 07.75	+07 02 56.3		557	1997 BR	1997 02 11.72723	09 53 52.37	+40 59 04.5		557
1995 SG	1997 02 08.06848	10 26 20.97	+07 29 03.6		557	1997 BR	1997 02 11.73484	09 53 51.66	+40 59 29.5		557
1995 SG	1997 02 08.07464	10 26 20.67	+07 29 05.1	19.3 V	557	1997 BR	1997 02 11.73876	09 53 51.25	+40 59 42.1	17.3 V	557
1995 SG	1997 02 08.09137	10 26 19.79	+07 29 09.6		557	1997 BX ₄	* 1997 01 31.82198	07 16 29.22	+20 41 54.4		557
1995 SL	1997 02 01.03822	10 54 01.11	+04 02 57.5		557	1997 BX ₄	1997 01 31.82784	07 16 28.99	+20 41 55.1		557
1995 SL	1997 02 01.05760	10 54 00.29	+04 02 58.9		557	1997 BX ₄	1997 01 31.83067	07 16 28.87	+20 41 55.2		557
1995 SL	1997 02 01.07785	10 53 59.41	+04 03 00.3	r	557	1997 BX ₄	1997 02 01.91428	07 15 43.48	+20 43 36.3		557
1995 UX	1997 02 10.12668	10 07 13.46	+09 47 10.9		557	1997 BX ₄	1997 02 01.92010	07 15 43.21	+20 43 37.0	18.2 V	557
1995 UX	1997 02 10.13300	10 07 13.09	+09 47 13.8		557	1997 BX ₄	1997 02 01.92321	07 15 43.07	+20 43 37.3		557
1996 TC ₁₅	1997 01 31.94053	07 51 59.03	+29 39 23.1		557	1997 BX ₄	1997 02 07.74590	07 11 59.68	+20 52 04.1		557
1996 TC ₁₅	1997 01 31.96841	07 51 57.50	+29 39 28.6		557	1997 BX ₄	1997 02 07.75200	07 11 59.45	+20 52 04.9	18.6 V	557
1996 TC ₁₅	1997 02 07.77226	07 46 06.24	+29 59 57.5		557	1997 BX ₄	1997 02 07.75799	07 11 59.25	+20 52 05.4		557
1996 TC ₁₅	1997 02 07.77553	07 46 06.11	+29 59 58.2	18.8 V	557	1997 BQ ₆	* 1997 01 31.83661	09 04 39.09	+18 07 48.0		557
1996 TC ₁₅	1997 02 07.77844	07 46 05.98	+29 59 58.6		557	1997 BQ ₆	1997 01 31.85063	09 04 38.32	+18 07 51.2		557

1997 BQ ₆	1997 01 31.85616	09 04 38.04	+18 07 53.0		557
1997 BQ ₆	1997 02 03.04515	09 02 48.03	+18 15 52.6		557
1997 BQ ₆	1997 02 03.05535	09 02 47.51	+18 15 54.6	18.5 V	557
1997 BQ ₆	1997 02 03.05874	09 02 47.35	+18 15 55.5		557
1997 BQ ₆	1997 02 03.06787	09 02 46.87	+18 15 57.4		557
1997 BQ ₆	1997 02 08.05228	08 58 37.51	+18 33 36.0		557
1997 BQ ₆	1997 02 08.07909	08 58 36.18	+18 33 41.4		557
1997 CA	* 1997 02 01.01928	10 31 58.02	+07 05 01.1		E 557
1997 CA	1997 02 01.02473	10 31 57.82	+07 05 02.5		E 557
1997 CA	1997 02 02.15287	10 31 12.45	+07 07 51.6		557
1997 CA	1997 02 02.15888	10 31 12.22	+07 07 52.5	19.3 V	557
1997 CA	1997 02 08.06509	10 26 56.31	+07 24 42.8		557
1997 CA	1997 02 08.07155	10 26 55.99	+07 24 44.1	19.3 V	557
1997 CA	1997 02 08.08840	10 26 55.20	+07 24 46.6		557
1997 CB	* 1997 02 01.08360	11 24 00.42	+04 25 00.8		557
1997 CB	1997 02 01.08681	11 24 00.32	+04 25 02.0		557
1997 CB	1997 02 01.09889	11 23 59.94	+04 25 06.6		557
1997 CB	1997 02 02.16946	11 23 27.83	+04 31 46.4		557
1997 CB	1997 02 02.17524	11 23 27.70	+04 31 49.2	19.3 V	557
1997 CB	1997 02 02.17825	11 23 27.54	+04 31 50.1		r 557
1997 CB	1997 02 08.09711	11 20 04.25	+05 11 49.5		r 557
1997 CB	1997 02 08.10304	11 20 04.01	+05 11 52.2	18.8 V	r 557
1997 CO ₅	1997 02 06.93223	09 08 13.72	+18 12 48.6		557
1997 CO ₅	1997 02 06.96064	09 08 10.86	+18 12 07.7		557
1997 CO ₅	1997 02 06.99697	09 08 07.20	+18 11 15.1		557
1997 CO ₅	1997 02 07.03206	09 08 03.68	+18 10 24.3	17.0 V	557
1997 CO ₅	1997 02 07.06307	09 08 00.58	+18 09 39.2		557
1997 CO ₅	1997 02 07.09441	09 07 57.47	+18 08 53.9	17.0 V	557
1997 CO ₅	1997 02 07.99873	09 06 31.81	+17 47 19.4		557
1997 CO ₅	1997 02 08.00174	09 06 31.52	+17 47 14.8	17.1 V	557
1997 CX ₅	1997 02 14.74905	08 01 55.61	+16 52 26.3		557
1997 CX ₅	1997 02 14.75104	08 01 55.44	+16 52 24.4		557
1997 CX ₅	1997 02 14.75303	08 01 55.29	+16 52 20.7		557
1997 CX ₅	1997 02 14.75502	08 01 55.12	+16 52 17.0	18.2 V	557
1997 CY ₅	* 1997 02 06.93926	09 07 55.21	+18 07 32.9	17.8 V	557
1997 CY ₅	1997 02 06.95799	09 07 54.12	+18 07 36.4		557
1997 CY ₅	1997 02 06.97365	09 07 53.17	+18 07 39.4		557
1997 CY ₅	1997 02 07.00494	09 07 51.33	+18 07 45.5		557
1997 CY ₅	1997 02 07.03206	09 07 49.73	+18 07 50.8		557
1997 CY ₅	1997 02 07.05006	09 07 48.66	+18 07 54.2		557
1997 CY ₅	1997 02 07.97837	09 06 55.27	+18 10 52.6		557
1997 CY ₅	1997 02 07.98635	09 06 54.80	+18 10 53.8		557
1997 CZ ₅	1997 02 07.82138	04 28 44.84	+19 31 05.9		557
1997 CZ ₅	1997 02 07.84341	04 28 48.11	+19 30 27.4		557
1997 CZ ₅	1997 02 07.86549	04 28 51.39	+19 29 48.8	15.1 V	557
1997 CZ ₅	1997 02 07.87399	04 28 52.65	+19 29 33.9		557
1997 CZ ₅	1997 02 07.91457	04 28 58.70	+19 28 22.8		557
1997 CZ ₅	1997 02 08.77328	04 31 09.05	+19 03 45.4		557
1997 CZ ₅	1997 02 08.78280	04 31 10.46	+19 03 29.1		557
1997 CZ ₅	1997 02 08.79034	04 31 11.57	+19 03 16.2		557
1997 CZ ₅	1997 02 08.79986	04 31 12.97	+19 03 00.0	15.2 V	557
(3122)	1997 01 27.04073	09 37 51.22	+35 07 47.9		557

(3122)	1997 01 27.08760	09 37 44.25	+35 07 37.3	16.1 V	557
(3122)	1997 01 27.15132	09 37 34.82	+35 07 22.6		557
(3122)	1997 02 10.76465	09 03 43.82	+33 31 38.2		557
(3122)	1997 02 10.77765	09 03 42.18	+33 31 31.3		557
(3122)	1997 02 10.79841	09 03 39.53	+33 31 20.1		557
(5407)	1997 02 14.76260	07 56 02.77	+27 09 47.8		557
(5407)	1997 02 14.81749	07 55 58.90	+27 10 28.8		557
(5407)	1997 02 14.85453	07 55 56.28	+27 10 56.3		557

565 Bassano Bresciano

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0.15-m $f/8.0$ reflector

SAOC

(704)	1996 12 02.91753	03 34 06.70	+36 00 59.5		565
(704)	1996 12 02.93219	03 34 05.93	+36 00 51.7		565
(704)	1996 12 03.88761	03 33 17.67	+35 51 41.7		565
(704)	1996 12 03.89931	03 33 17.08	+35 51 35.6		565

566 Haleakala-NEAT/GEODSS

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[efh@ipl.jpl.nasa.gov]

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

1-m $f/2.2$ Ritchey-Chrétien + CCD

1978 OB	1997 02 04.28111	07 35 02.23	+22 31 29.4	19.9 V	566
1978 OB	1997 02 04.28964	07 35 01.77	+22 31 31.3	19.5 V	566
1978 OB	1997 02 04.29808	07 35 01.29	+22 31 33.2	19.5 V	566
1978 QU ₂	1997 02 07.39405	09 18 08.49	+17 02 40.5	18.2 V	566
1978 QU ₂	1997 02 07.40246	09 18 08.07	+17 02 42.7	18.2 V	566
1978 QU ₂	1997 02 07.41097	09 18 07.66	+17 02 44.7	18.3 V	566
1978 RV ₁	1997 02 03.41200	07 52 32.45	+20 46 58.0	19.4 V	566
1978 RV ₁	1997 02 03.42043	07 52 31.99	+20 46 59.5	19.3 V	566
1978 RV ₁	1997 02 03.42883	07 52 31.49	+20 47 01.0	19.4 V	566
1978 UF ₆	1997 02 08.33301	08 39 11.53	+27 04 07.7	18.1 V	566
1978 UF ₆	1997 02 08.34142	08 39 10.97	+27 04 08.5	18.2 V	566
1978 UF ₆	1997 02 08.34987	08 39 10.38	+27 04 09.4	18.2 V	566
1978 VP ₁₁	1997 02 04.43548	09 54 53.25	+16 05 21.6	18.4 V	566
1978 VP ₁₁	1997 02 04.45648	09 54 52.27	+16 05 27.1	18.3 V	566
1978 VP ₁₁	1997 02 04.47527	09 54 51.39	+16 05 32.0	18.6 V	566
1979 MM ₈	1997 02 04.51349	10 54 30.69	+04 30 26.2	19.4 V	566
1979 MM ₈	1997 02 04.52191	10 54 30.30	+04 30 28.6	19.6 V	566
1979 MM ₈	1997 02 04.53030	10 54 29.96	+04 30 30.8	19.5 V	566
1979 SG ₂	1997 02 04.30415	08 01 28.73	+19 48 22.7	19.3 V	566
1979 SG ₂	1997 02 04.31275	08 01 28.16	+19 48 23.0	18.9 V	566
1979 SG ₂	1997 02 04.32118	08 01 27.59	+19 48 23.5	18.9 V	566
1981 ES ₁₄	1997 02 03.37847	07 40 55.14	+21 17 49.9	18.9 V	566
1981 ES ₁₄	1997 02 03.38695	07 40 54.69	+21 17 50.2	18.8 V	566
1981 ES ₁₄	1997 02 03.39535	07 40 54.24	+21 17 50.4	19.0 V	566
1981 ES ₂₃	1997 02 07.33832	08 27 42.26	+18 03 10.4	18.9 V	566
1981 ES ₂₃	1997 02 07.34881	08 27 41.64	+18 03 13.1	18.9 V	566

1981 ES ₂₃	1997 02 07.35737	08 27 41.15	+18 03 15.2	19.2 V	566	1992 UL ₂	1997 02 08.60127	11 29 21.55	+01 14 59.1	18.5 V	566
1981 EB ₂₇	1997 02 06.49958	09 21 14.74	+13 11 12.8	18.8 V	566	1992 UL ₂	1997 02 08.61187	11 29 21.09	+01 15 00.8	18.5 V	566
1981 EB ₂₇	1997 02 06.50801	09 21 14.22	+13 11 15.9	19.0 V	566	1992 UL ₂	1997 02 08.62029	11 29 20.74	+01 15 02.3	18.9 V	566
1981 EB ₂₇	1997 02 06.51644	09 21 13.76	+13 11 18.7	18.8 V	566	1992 WU ₃	1997 02 04.30814	08 01 58.38	+22 00 52.7	17.3 V	566
1981 EB ₂₇	1997 02 08.42224	09 19 28.33	+13 22 42.6	18.7 V	566	1992 WU ₃	1997 02 04.31655	08 01 57.88	+22 00 53.5	17.1 V	566
1981 EB ₂₇	1997 02 08.43065	09 19 27.87	+13 22 45.7	19.1 V	566	1992 WU ₃	1997 02 04.32497	08 01 57.40	+22 00 54.4	17.0 V	566
1981 EB ₂₇	1997 02 08.43909	09 19 27.35	+13 22 48.7	19.1 V	566	1993 BJ	1997 02 08.60127	11 30 01.02	+00 54 00.9	19.1 V	566
1981 QE ₂	1997 02 04.39845	09 09 13.75	+12 54 21.4	19.0 V	566	1993 BJ	1997 02 08.61187	11 30 00.60	+00 54 02.1	18.9 V	566
1981 QE ₂	1997 02 04.41893	09 09 12.50	+12 54 29.3	19.5 V	566	1993 BJ	1997 02 08.62029	11 30 00.27	+00 54 02.8	19.3 V	566
1981 QE ₂	1997 02 04.43749	09 09 11.34	+12 54 37.2	18.9 V	566	1993 FO ₂₁	1997 02 03.60944	10 14 00.88	+16 21 14.0	19.0 V	566
1981 SZ ₆	1997 02 03.47750	09 28 42.79	+18 13 23.4	17.8 V	566	1993 FO ₂₁	1997 02 03.61783	10 14 00.43	+16 21 15.9	19.0 V	566
1981 SZ ₆	1997 02 03.49242	09 28 41.80	+18 13 28.4	17.7 V	566	1993 FO ₂₁	1997 02 03.62622	10 13 59.99	+16 21 17.6	18.8 V	566
1981 SZ ₆	1997 02 03.50078	09 28 41.23	+18 13 31.3	17.6 V	566	1993 FS ₂₃	1997 02 06.51234	09 49 45.80	+13 36 03.6	19.3 V	566
1981 UM ₁₁	1997 02 04.40477	09 30 54.11	+11 17 20.4	18.3 V	566	1993 FS ₂₃	1997 02 06.52118	09 49 45.37	+13 36 06.0	19.6 V	566
1981 UM ₁₁	1997 02 04.41505	09 30 53.40	+11 17 24.4	18.7 V	566	1993 FS ₂₃	1997 02 06.52958	09 49 44.96	+13 36 07.1	19.7 V	566
1981 UM ₁₁	1997 02 04.42495	09 30 52.84	+11 17 27.3	18.4 V	566	1993 FS ₂₄	1997 02 04.53663	11 01 17.78	+09 02 58.6	19.6 V	566
1981 UD ₂₃	1997 02 04.33155	08 09 05.36	+24 22 04.7	17.8 V	566	1993 FS ₂₄	1997 02 04.54508	11 01 17.44	+09 03 00.2	19.4 V	566
1981 UD ₂₃	1997 02 04.33992	08 09 04.85	+24 22 06.3	17.8 V	566	1993 FS ₂₄	1997 02 04.55352	11 01 17.08	+09 03 01.3	19.1 V	566
1981 UD ₂₃	1997 02 04.34830	08 09 04.35	+24 22 08.1	17.8 V	566	1993 FF ₇₆	1997 02 03.40143	07 53 02.23	+19 12 18.1	20.1 V	566
1982 SL ₆	1997 02 08.21854	03 23 58.59	+24 18 50.7	19.0 V	566	1993 FF ₇₆	1997 02 03.41002	07 53 01.81	+19 12 19.3	20.3 V	566
1982 SL ₆	1997 02 08.22698	03 23 58.96	+24 18 51.5	19.6 V	566	1993 FF ₇₆	1997 02 03.41843	07 53 01.41	+19 12 21.0	20.0 V	566
1982 SL ₆	1997 02 08.23559	03 23 59.44	+24 18 52.3	19.2 V	566	1993 SQ ₂	1996 06 13.27861	11 57 23.81	+06 11 35.2	19.7 V	566
1987 QF ₃	1997 02 04.40675	09 32 01.84	+15 09 13.8	17.8 V	566	1993 SQ ₂	1996 06 13.29702	11 57 24.54	+06 11 32.0	19.7 V	566
1987 QF ₃	1997 02 04.41702	09 32 01.25	+15 09 18.0	17.8 V	566	1993 SQ ₂	1996 06 13.32288	11 57 25.48	+06 11 29.3	20.0 V	566
1987 QF ₃	1997 02 04.42706	09 32 00.67	+15 09 21.8	17.8 V	566	1994 AH ₃	1997 02 08.22060	02 08 41.00	+15 10 43.0	19.4 V	566
1987 SC ₁	1997 02 03.47343	09 24 45.14	+14 47 53.6	17.6 V	566	1994 AH ₃	1997 02 08.22904	02 08 41.70	+15 10 46.5	19.3 V	566
1987 SC ₁	1997 02 03.48202	09 24 44.65	+14 47 57.2	17.6 V	566	1994 AH ₃	1997 02 08.23791	02 08 42.43	+15 10 48.5	19.7 V	566
1987 SC ₁	1997 02 03.49439	09 24 43.88	+14 48 02.4	17.8 V	566	1994 EG ₆	1997 02 04.35982	08 50 11.98	+20 06 43.4	19.0 V	566
1988 RF ₄	1997 01 10.51705	09 40 32.28	+17 50 45.3	19.2 V	566	1994 EG ₆	1997 02 04.36824	08 50 11.42	+20 06 46.9	18.9 V	566
1988 RF ₄	1997 01 10.52544	09 40 31.89	+17 50 47.2	19.4 V	566	1994 EG ₆	1997 02 04.37760	08 50 10.80	+20 06 50.2	19.0 V	566
1988 RF ₄	1997 01 10.53381	09 40 31.47	+17 50 48.7	19.2 V	566	1994 EG ₆	1997 02 04.37962	08 50 10.51	+20 06 51.1	20.0 V	566
1991 RB ₁₉	1997 02 06.43070	08 36 35.70	+26 03 14.4	18.0 V	566	1994 EG ₆	1997 02 04.38800	08 50 10.11	+20 06 54.1	19.2 V	566
1991 RB ₁₉	1997 02 06.44089	08 36 35.03	+26 03 13.8	17.9 V	566	1994 EG ₆	1997 02 04.39641	08 50 09.52	+20 06 57.2	19.0 V	566
1991 RB ₁₉	1997 02 06.44961	08 36 34.46	+26 03 13.4	17.8 V	566	1994 FF	1997 01 10.41719	08 00 07.13	+17 51 42.8	16.9 V	566
1991 RW ₁₉	1997 02 03.46214	09 11 00.74	+12 38 31.2	18.5 V	566	1994 FF	1997 01 10.42564	08 00 06.55	+17 51 46.0	17.0 V	566
1991 RW ₁₉	1997 02 03.47145	09 11 00.15	+12 38 33.7	18.5 V	566	1994 FF	1997 01 10.43404	08 00 06.00	+17 51 48.7	17.0 V	566
1991 RW ₁₉	1997 02 03.47989	09 10 59.65	+12 38 36.1	18.5 V	566	1994 NF ₁	1995 12 23.38635	06 38 12.59	+22 19 30.0	17.5 V	566
1991 RW ₁₉	1997 02 04.39845	09 10 03.66	+12 42 29.0	18.4 V	566	1994 NF ₁	1995 12 23.40714	06 38 11.08	+22 19 35.5	17.7 V	566
1991 RW ₁₉	1997 02 04.41893	09 10 02.35	+12 42 33.9	18.5 V	566	1994 NF ₁	1995 12 23.42789	06 38 09.56	+22 19 40.7	17.6 V	566
1991 RW ₁₉	1997 02 04.43749	09 10 01.19	+12 42 38.5	18.5 V	566	1995 OF ₁	1997 02 03.47550	09 26 46.35	+16 41 09.6	17.5 V	566
1991 RD ₂₄	1997 02 04.27909	07 31 53.58	+21 34 29.0	18.0 V	566	1995 OF ₁	1997 02 03.48835	09 26 45.51	+16 41 12.5	17.5 V	566
1991 RD ₂₄	1997 02 04.28763	07 31 53.14	+21 34 31.0	18.1 V	566	1995 OF ₁	1997 02 03.49673	09 26 44.94	+16 41 14.5	17.6 V	566
1991 RD ₂₄	1997 02 04.29605	07 31 52.72	+21 34 33.2	17.9 V	566	1995 PK	1997 02 04.41102	09 32 06.51	+15 36 10.4	18.0 V	566
1992 ER ₉	1997 02 04.30415	08 03 06.37	+20 00 50.9	19.1 V	566	1995 PK	1997 02 04.42091	09 32 05.89	+15 36 14.9	17.8 V	566
1992 ER ₉	1997 02 04.31275	08 03 05.97	+20 00 52.1	19.1 V	566	1995 PK	1997 02 04.42931	09 32 05.33	+15 36 18.7	17.7 V	566
1992 ER ₉	1997 02 04.32118	08 03 05.54	+20 00 53.6	19.0 V	566	1995 PK	1997 02 08.42634	09 27 53.93	+16 06 16.8	17.6 V	566
1992 RM	1997 02 03.47750	09 26 17.02	+18 24 29.6	17.6 V	566	1995 PK	1997 02 08.43479	09 27 53.38	+16 06 21.0	17.6 V	566
1992 RM	1997 02 03.49242	09 26 15.95	+18 24 33.8	17.6 V	566	1995 PK	1997 02 08.44325	09 27 52.80	+16 06 24.6	17.4 V	566
1992 RM	1997 02 03.50078	09 26 15.34	+18 24 36.1	17.5 V	566	1995 SN ₂₉	1997 02 04.35787	08 46 51.39	+17 23 03.1	18.1 V	566
1992 RL ₇	1997 02 07.26021	04 27 39.58	+20 40 53.9	20.0 V	566	1995 SN ₂₉	1997 02 04.36626	08 46 50.99	+17 23 05.0	18.0 V	566
1992 RL ₇	1997 02 07.26877	04 27 40.13	+20 40 56.0	19.8 V	566	1995 SN ₂₉	1997 02 04.37470	08 46 50.56	+17 23 06.9	18.0 V	566
1992 RL ₇	1997 02 07.27716	04 27 40.56	+20 40 57.9	19.5 V	566	1995 SK ₅₃	1997 02 06.34255	08 48 26.73	+33 22 35.5	19.0 V	566

1995 SK ₅₃	1997 02 06.35096	08 48 26.27	+33 22 36.2	19.5 V	566	1997 AH ₂	1997 02 04.37760	08 47 27.97	+18 44 21.6	19.0 V	566
1995 SK ₅₃	1997 02 06.35933	08 48 25.80	+33 22 37.2	19.2 V	566	1997 AB ₄	1997 02 04.35982	08 47 39.22	+18 40 28.6	18.9 V	566
1995 UX	1997 02 04.46484	10 12 31.59	+09 15 34.1	18.8 V	566	1997 AB ₄	1997 02 04.36824	08 47 38.67	+18 40 29.9	18.9 V	566
1995 UX	1997 02 04.47324	10 12 31.14	+09 15 36.6	18.7 V	566	1997 AB ₄	1997 02 04.37760	08 47 38.03	+18 40 31.8	19.0 V	566
1995 UX	1997 02 04.48163	10 12 30.64	+09 15 39.3	18.8 V	566	1997 AC ₄	1997 02 04.35982	08 50 51.54	+19 25 32.1	17.8 V	566
1995 WO ₁₅	1997 02 08.39387	08 43 14.09	+21 53 55.6	19.2 V	566	1997 AC ₄	1997 02 04.36824	08 50 51.01	+19 25 33.9	17.9 V	566
1995 WO ₁₅	1997 02 08.40229	08 43 13.61	+21 53 57.7	19.4 V	566	1997 AC ₄	1997 02 04.37760	08 50 50.40	+19 25 36.2	18.0 V	566
1995 WO ₁₅	1997 02 08.41070	08 43 13.17	+21 53 58.8	20.4 V	566	1997 AD ₄	1997 02 04.35982	08 53 03.40	+18 55 16.9	18.7 V	566
1995 YY ₂₁	1997 02 04.47096	10 23 48.08	+13 21 38.8	19.6 V	566	1997 AD ₄	1997 02 04.36824	08 53 02.90	+18 55 17.8	18.9 V	566
1995 YY ₂₁	1997 02 04.47943	10 23 47.61	+13 21 41.0	19.3 V	566	1997 AD ₄	1997 02 04.37760	08 53 02.26	+18 55 18.8	18.9 V	566
1995 YY ₂₁	1997 02 04.48783	10 23 47.12	+13 21 43.0	19.6 V	566	1997 AT ₄	1997 02 07.33832	08 28 45.99	+17 23 16.8	18.5 V	566
1996 FG ₃	1997 02 06.54777	10 42 58.89	+05 24 09.7	18.0 V	566	1997 AT ₄	1997 02 07.34881	08 28 45.31	+17 23 17.7	18.5 V	566
1996 FG ₃	1997 02 06.55840	10 42 57.32	+05 24 15.6	18.0 V	566	1997 AT ₄	1997 02 07.35737	08 28 44.74	+17 23 18.6	18.4 V	566
1996 FG ₃	1997 02 06.56680	10 42 56.10	+05 24 21.0	18.0 V	566	1997 AK ₅	1997 02 04.38383	08 50 48.32	+22 04 57.7	18.6 V	566
1996 GV ₁₈	1996 05 13.37957	13 51 59.00	-10 15 05.3	18.1 V	566	1997 AK ₅	1997 02 04.39223	08 50 47.73	+22 04 58.3	18.7 V	566
1996 GV ₁₈	1996 05 13.40339	13 51 57.78	-10 15 02.5	18.8 V	566	1997 AK ₅	1997 02 04.40067	08 50 47.16	+22 04 59.1	18.5 V	566
1996 GV ₁₈	1996 05 13.42052	13 51 56.78	-10 15 02.0	17.9 V	566	1997 AK ₅	1997 02 08.35612	08 46 14.96	+22 09 52.0	18.6 V	566
1996 TN	1997 02 03.27749	01 57 47.30	+13 30 54.4	19.0 V	566	1997 AK ₅	1997 02 08.36454	08 46 14.34	+22 09 52.8	18.7 V	566
1996 TN	1997 02 03.28593	01 57 48.01	+13 30 59.8	18.8 V	566	1997 AK ₅	1997 02 08.37295	08 46 13.75	+22 09 53.4	18.6 V	566
1996 TN	1997 02 03.29437	01 57 48.72	+13 31 04.2	18.9 V	566	1997 AW ₅	1997 02 04.35982	08 47 27.92	+19 01 17.4	18.0 V	566
1996 TN	1997 02 03.32582	01 57 51.44	+13 31 21.8	19.1 V	566	1997 AW ₅	1997 02 04.36824	08 47 27.49	+19 01 19.4	17.9 V	566
1996 TN	1997 02 03.33423	01 57 52.20	+13 31 26.9	19.5 V	566	1997 AW ₅	1997 02 04.37760	08 47 27.00	+19 01 21.8	18.0 V	566
1996 TN	1997 02 03.34268	01 57 52.92	+13 31 31.1	19.2 V	566	1997 AV ₆	1997 02 07.39405	09 15 42.49	+18 08 19.9	18.6 V	566
1996 TE ₁₁	1997 02 07.28407	05 24 43.10	-21 02 27.8	17.6 V	566	1997 AV ₆	1997 02 07.40246	09 15 41.97	+18 08 24.1	18.6 V	566
1996 TE ₁₁	1997 02 07.29827	05 24 44.69	-21 01 58.2	17.7 V	566	1997 AV ₆	1997 02 07.41097	09 15 41.47	+18 08 27.9	18.8 V	566
1996 TE ₁₁	1997 02 07.30681	05 24 45.67	-21 01 40.2	17.4 V	566	1997 AW ₆	1997 02 04.38383	08 53 43.91	+22 23 58.5	18.7 V	566
1996 VN ₈	1997 01 15.27138	02 34 27.41	+17 06 09.4	18.6 V	566	1997 AW ₆	1997 02 04.39223	08 53 43.39	+22 23 59.6	18.4 V	566
1996 VN ₈	1997 01 15.28013	02 34 28.01	+17 06 12.2	18.5 V	566	1997 AW ₆	1997 02 04.40067	08 53 42.82	+22 24 01.0	18.5 V	566
1996 VN ₈	1997 01 15.28853	02 34 28.53	+17 06 15.2	18.6 V	566	1997 AW ₆	1997 02 08.35612	08 49 45.29	+22 34 02.7	19.5 V	566
1996 XE ₃₁	1997 02 07.30890	07 00 19.91	+15 11 17.8	18.3 V	566	1997 AW ₆	1997 02 08.36454	08 49 44.79	+22 34 03.7	19.3 V	566
1996 XE ₃₁	1997 02 07.32783	07 00 19.05	+15 11 16.7	18.1 V	566	1997 AW ₆	1997 02 08.37295	08 49 44.25	+22 34 05.0	19.1 V	566
1996 XE ₃₁	1997 02 07.34672	07 00 18.19	+15 11 15.4	18.1 V	566	1997 AA ₇	1997 02 03.47343	09 21 28.05	+15 28 58.5	18.2 V	566
1996 YO ₁	1997 02 03.40143	07 51 05.90	+19 41 54.5	18.2 V	566	1997 AA ₇	1997 02 03.48202	09 21 27.51	+15 29 01.5	18.4 V	566
1996 YO ₁	1997 02 03.41002	07 51 05.41	+19 41 55.7	18.1 V	566	1997 AA ₇	1997 02 03.49439	09 21 26.75	+15 29 06.1	18.3 V	566
1996 YO ₁	1997 02 03.41843	07 51 04.90	+19 41 56.7	17.9 V	566	1997 AB ₇	1997 02 07.41297	09 18 03.18	+18 15 04.7	18.3 V	566
1997 AC ₁	1997 02 04.32809	08 07 49.58	+24 11 13.5	19.1 V	566	1997 AB ₇	1997 02 07.42136	09 18 02.67	+18 15 07.5	18.3 V	566
1997 AC ₁	1997 02 04.33705	08 07 48.93	+24 11 14.9	18.9 V	566	1997 AB ₇	1997 02 07.43010	09 18 02.10	+18 15 10.7	18.4 V	566
1997 AC ₁	1997 02 04.34548	08 07 48.46	+24 11 16.2	18.9 V	566	1997 AD ₇	1997 02 04.35579	08 45 36.91	+15 31 50.5	18.3 V	566
1997 AH ₁	1997 02 04.33155	08 11 06.40	+25 39 12.6	19.4 V	566	1997 AD ₇	1997 02 04.36424	08 45 36.42	+15 31 52.7	18.3 V	566
1997 AH ₁	1997 02 04.33992	08 11 05.85	+25 39 15.5	19.3 V	566	1997 AD ₇	1997 02 04.37265	08 45 35.88	+15 31 54.9	18.3 V	566
1997 AH ₁	1997 02 04.34830	08 11 05.36	+25 39 17.9	19.3 V	566	1997 AL ₇	1997 02 04.35579	08 48 03.58	+15 41 48.0	17.7 V	566
1997 AM ₁	1997 02 04.33155	08 12 48.66	+25 12 36.9	19.8 V	566	1997 AL ₇	1997 02 04.36424	08 48 03.06	+15 41 51.4	17.1 V	566
1997 AM ₁	1997 02 04.33992	08 12 48.16	+25 12 38.6	19.6 V	566	1997 AL ₇	1997 02 04.37265	08 48 02.54	+15 41 54.2	17.1 V	566
1997 AM ₁	1997 02 04.34830	08 12 47.56	+25 12 40.0	19.6 V	566	1997 AM ₇	1997 02 07.39405	09 17 06.40	+17 07 08.2	17.9 V	566
1997 AF ₂	1997 02 04.37962	08 49 37.62	+20 21 05.7	18.6 V	566	1997 AM ₇	1997 02 07.40246	09 17 05.85	+17 07 09.5	17.9 V	566
1997 AF ₂	1997 02 04.38800	08 49 37.16	+20 21 09.4	18.5 V	566	1997 AM ₇	1997 02 07.41097	09 17 05.27	+17 07 11.2	17.8 V	566
1997 AF ₂	1997 02 04.39641	08 49 36.65	+20 21 13.2	18.5 V	566	1997 AZ ₇	1997 02 06.43490	09 01 16.48	+13 36 10.9	18.8 V	566
1997 AG ₂	1997 02 04.35787	08 47 47.68	+17 16 19.2	19.5 V	566	1997 AZ ₇	1997 02 06.44333	09 01 15.90	+13 36 12.1	18.7 V	566
1997 AG ₂	1997 02 04.36626	08 47 47.16	+17 16 20.2	19.3 V	566	1997 AZ ₇	1997 02 06.45180	09 01 15.30	+13 36 13.2	18.6 V	566
1997 AG ₂	1997 02 04.37470	08 47 46.66	+17 16 21.1	19.3 V	566	1997 AC ₉	1997 02 06.43490	09 03 00.53	+12 59 36.3	19.3 V	566
1997 AH ₂	1997 02 04.35982	08 47 29.00	+18 44 19.0	19.0 V	566	1997 AC ₉	1997 02 06.44333	09 02 59.96	+12 59 36.5	19.1 V	566
1997 AH ₂	1997 02 04.36824	08 47 28.54	+18 44 20.1	18.9 V	566	1997 AC ₉	1997 02 06.45180	09 02 59.39	+12 59 36.6	18.9 V	566

1997 AU ₁₀	1997 02 07.36773	08 42 24.46	+22 57 16.7	18.1 V	566	1997 AU ₁₇	1997 01 13.35765	07 34 23.13	+22 02 02.5	19.7 V	566
1997 AU ₁₀	1997 02 07.38779	08 42 23.07	+22 57 17.4	18.0 V	566	1997 AU ₁₇	1997 01 13.36607	07 34 22.56	+22 02 04.7	19.8 V	566
1997 AU ₁₀	1997 02 07.40459	08 42 21.78	+22 57 17.9	17.9 V	566	1997 AK ₁₈	1997 01 12.42584	08 30 20.86	+23 10 24.1	19.0 V	566
1997 AU ₁₀	1997 02 08.39601	08 41 14.09	+22 57 35.6	18.2 V	566	1997 AK ₁₈	1997 01 12.43432	08 30 20.28	+23 10 26.0	19.0 V	566
1997 AU ₁₀	1997 02 08.40437	08 41 13.50	+22 57 35.6	18.1 V	566	1997 AK ₁₈	1997 01 12.44269	08 30 19.75	+23 10 27.7	19.2 V	566
1997 AU ₁₀	1997 02 08.41278	08 41 12.93	+22 57 35.7	18.0 V	566	1997 AK ₁₈	1997 02 04.32809	08 06 11.67	+24 17 38.7	19.7 V	566
1997 AS ₁₂	1997 02 06.41820	08 25 15.12	+25 02 25.0	18.0 V	566	1997 AK ₁₈	1997 02 04.33705	08 06 10.99	+24 17 39.7	19.3 V	566
1997 AS ₁₂	1997 02 06.42664	08 25 14.57	+25 02 28.2	17.7 V	566	1997 AK ₁₈	1997 02 04.34548	08 06 10.54	+24 17 40.8	19.6 V	566
1997 AS ₁₂	1997 02 06.43691	08 25 13.96	+25 02 32.3	18.0 V	566	1997 AO ₁₈	1997 01 12.39680	07 39 35.31	+24 36 59.1	18.8 V	566
1997 AS ₁₂	1997 02 07.33637	08 24 19.71	+25 08 26.8	17.7 V	566	1997 AO ₁₈	1997 01 12.40524	07 39 34.72	+24 37 02.6	18.7 V	566
1997 AS ₁₂	1997 02 07.34479	08 24 19.22	+25 08 30.2	17.7 V	566	1997 AO ₁₈	1997 01 12.41363	07 39 34.10	+24 37 06.0	18.8 V	566
1997 AS ₁₂	1997 02 07.35499	08 24 18.57	+25 08 34.2	17.7 V	566	1997 AP ₁₈	1997 01 12.39680	07 40 13.37	+24 48 28.2	18.5 V	566
1997 AX ₁₂	1997 02 07.36773	08 42 11.00	+23 31 16.0	18.7 V	566	1997 AP ₁₈	1997 01 12.40524	07 40 12.78	+24 48 30.5	18.3 V	566
1997 AX ₁₂	1997 02 07.38779	08 42 10.12	+23 31 24.1	18.9 V	566	1997 AP ₁₈	1997 01 12.41363	07 40 12.19	+24 48 32.4	18.5 V	566
1997 AX ₁₂	1997 02 07.40459	08 42 09.30	+23 31 31.2	19.0 V	566	1997 AU ₁₈	1997 02 04.40267	08 12 27.30	+26 18 33.9	18.2 V	566
1997 AJ ₁₃	1997 02 08.33301	08 38 07.11	+27 29 51.4	17.8 V	566	1997 AU ₁₈	1997 02 04.41304	08 12 26.69	+26 18 37.5	18.6 V	566
1997 AJ ₁₃	1997 02 08.34142	08 38 06.56	+27 29 51.0	17.8 V	566	1997 AU ₁₈	1997 02 04.42285	08 12 26.11	+26 18 40.2	18.6 V	566
1997 AJ ₁₃	1997 02 08.34987	08 38 05.98	+27 29 50.6	17.8 V	566	1997 AJ ₁₉	1997 01 14.38848	07 53 56.02	+18 28 18.3	18.2 V	566
1997 AP ₁₄	1997 02 03.47343	09 22 56.12	+15 03 30.2	18.6 V	566	1997 AJ ₁₉	1997 01 14.39898	07 53 55.41	+18 28 19.5	18.3 V	566
1997 AP ₁₄	1997 02 03.48202	09 22 55.59	+15 03 33.6	18.4 V	566	1997 AJ ₁₉	1997 01 14.40742	07 53 54.89	+18 28 20.6	18.4 V	566
1997 AP ₁₄	1997 02 03.49439	09 22 54.91	+15 03 36.3	18.8 V	566	1997 AY ₂₁	1997 02 03.37847	07 42 44.44	+21 21 52.7	19.9 V	566
1997 AW ₁₄	1997 01 13.34922	07 34 58.31	+21 10 37.0	19.4 V	566	1997 AY ₂₁	1997 02 03.38695	07 42 44.02	+21 21 54.8	19.9 V	566
1997 AW ₁₄	1997 01 13.35765	07 34 57.78	+21 10 39.6	19.6 V	566	1997 AY ₂₁	1997 02 03.39535	07 42 43.66	+21 21 57.1	20.0 V	566
1997 AW ₁₄	1997 01 13.36607	07 34 57.22	+21 10 42.5	19.8 V	566	1997 AZ ₂₁	1997 02 03.47550	09 23 49.11	+16 39 19.8	19.2 V	566
1997 AB ₁₅	1997 02 03.37441	06 55 38.49	+35 51 03.0	19.7 V	566	1997 AZ ₂₁	1997 02 03.48835	09 23 48.61	+16 39 22.9	19.0 V	566
1997 AB ₁₅	1997 02 03.38285	06 55 37.48	+35 51 21.0	19.5 V	566	1997 AZ ₂₁	1997 02 03.49673	09 23 48.17	+16 39 24.8	18.8 V	566
1997 AB ₁₅	1997 02 03.39126	06 55 36.52	+35 51 39.9	19.6 V	566	1997 AK ₂₂	1997 01 13.37832	08 03 06.59	+19 23 32.0	19.6 V	566
1997 AD ₁₅	1997 01 10.40642	07 16 44.87	+25 21 43.6	18.3 V	566	1997 AK ₂₂	1997 01 13.38676	08 03 06.16	+19 23 35.3	19.2 V	566
1997 AD ₁₅	1997 01 10.41503	07 16 44.26	+25 21 46.0	18.2 V	566	1997 AK ₂₂	1997 01 13.39605	08 03 05.53	+19 23 39.7	19.7 V	566
1997 AD ₁₅	1997 01 10.42348	07 16 43.68	+25 21 48.9	18.3 V	566	1997 AQ ₂₂	1997 02 04.30814	08 01 37.71	+21 21 20.1	17.6 V	566
1997 AV ₁₅	1997 02 07.36570	08 38 27.73	+26 49 11.9	17.9 V	566	1997 AQ ₂₂	1997 02 04.31655	08 01 37.27	+21 21 22.9	17.8 V	566
1997 AV ₁₅	1997 02 07.37742	08 38 26.88	+26 49 27.2	18.1 V	566	1997 AQ ₂₂	1997 02 04.32497	08 01 36.82	+21 21 25.6	17.8 V	566
1997 AV ₁₅	1997 02 07.38583	08 38 26.20	+26 49 38.2	17.7 V	566	1997 AR ₂₂	1997 01 14.55041	09 40 45.98	+23 45 54.6	18.3 V	566
1997 AV ₁₅	1997 02 08.33301	08 37 19.12	+27 10 03.1	17.8 V	566	1997 AR ₂₂	1997 01 14.55902	09 40 45.56	+23 45 57.7	18.5 V	566
1997 AV ₁₅	1997 02 08.34142	08 37 18.52	+27 10 13.8	17.9 V	566	1997 AR ₂₂	1997 01 14.56760	09 40 45.12	+23 46 00.4	18.4 V	566
1997 AV ₁₅	1997 02 08.34987	08 37 17.90	+27 10 25.1	17.9 V	566	1997 BA	1997 01 11.53592	09 51 21.56	+17 40 43.7	18.7 V	566
1997 AC ₁₆	1997 02 03.37847	07 41 06.87	+22 02 01.5	19.8 V	566	1997 BA	1997 01 11.54446	09 51 21.45	+17 40 49.7	18.5 V	566
1997 AC ₁₆	1997 02 03.38695	07 41 06.39	+22 02 04.6	19.8 V	566	1997 BA	1997 01 11.55294	09 51 21.34	+17 40 55.6	18.3 V	566
1997 AC ₁₆	1997 02 03.39535	07 41 06.02	+22 02 06.9	19.5 V	566	1997 BE	1997 01 14.54427	09 29 19.05	+18 12 16.0	19.7 V	566
1997 AM ₁₆	1997 01 12.37347	07 34 59.19	+21 57 27.5	18.8 V	566	1997 BE	1997 01 14.55267	09 29 18.66	+18 12 16.5	20.0 V	566
1997 AM ₁₆	1997 01 12.38197	07 34 58.70	+21 57 28.3	19.1 V	566	1997 BE	1997 01 14.56109	09 29 18.28	+18 12 16.7	19.9 V	566
1997 AM ₁₆	1997 01 12.39273	07 34 58.11	+21 57 28.9	19.1 V	566	1997 BQ	1997 02 08.57645	14 51 18.15	+69 58 12.0	17.1 V	566
1997 AQ ₁₇	1997 01 14.41549	08 01 05.96	+20 08 07.2	18.2 V	566	1997 BQ	1997 02 08.58490	14 51 26.76	+69 58 06.0	17.1 V	566
1997 AQ ₁₇	1997 01 14.42402	08 01 05.48	+20 08 07.9	18.6 V	566	1997 BQ	1997 02 08.59338	14 51 35.42	+69 57 59.8	17.1 V	566
1997 AQ ₁₇	1997 01 14.43426	08 01 04.86	+20 08 08.8	18.4 V	566	1997 BR	1997 02 06.53725	10 01 32.00	+36 20 14.5	17.4 V	566
1997 AQ ₁₇	1997 02 03.37847	07 42 43.11	+20 30 56.1	18.9 V	566	1997 BR	1997 02 06.54570	10 01 31.26	+36 20 41.3	17.3 V	566
1997 AQ ₁₇	1997 02 03.38695	07 42 42.69	+20 30 56.7	19.0 V	566	1997 BR	1997 02 06.55416	10 01 30.51	+36 21 08.1	17.2 V	566
1997 AQ ₁₇	1997 02 03.39535	07 42 42.29	+20 30 56.5	19.0 V	566	1997 BM ₁	1997 02 03.44749	08 42 26.38	+19 17 01.6	19.4 V	566
1997 AS ₁₇	1997 01 12.37347	07 37 16.32	+21 46 30.4	17.2 V	566	1997 BM ₁	1997 02 03.45601	08 42 25.88	+19 17 03.3	19.1 V	566
1997 AS ₁₇	1997 01 12.38197	07 37 15.72	+21 46 32.6	17.2 V	566	1997 BM ₁	1997 02 03.46441	08 42 25.39	+19 17 04.6	19.2 V	566
1997 AS ₁₇	1997 01 12.39273	07 37 14.90	+21 46 35.6	17.2 V	566	1997 BZ ₁	1997 01 15.62320	09 27 15.99	+17 22 40.5	18.9 V	566
1997 AU ₁₇	1997 01 13.34922	07 34 23.70	+22 02 00.5	19.7 V	566	1997 BZ ₁	1997 01 15.62507	09 27 15.81	+17 22 41.0	19.0 V	566

1997 BZ ₁	1997 01 15.63513	09 27 15.37	+17 22 43.4	19.0 V	566	1997 BG ₈	1997 02 08.42634	09 24 42.74	+15 56 18.9	17.4 V	566
1997 BZ ₁	1997 01 15.63705	09 27 15.31	+17 22 44.0	19.0 V	566	1997 BG ₈	1997 02 08.43479	09 24 42.11	+15 56 20.6	17.4 V	566
1997 BZ ₁	1997 01 15.64366	09 27 14.93	+17 22 45.5	19.0 V	566	1997 BG ₈	1997 02 08.44325	09 24 41.51	+15 56 22.4	17.5 V	566
1997 BZ ₁	1997 01 15.64574	09 27 14.84	+17 22 46.1	18.9 V	566	1997 BT ₈	1997 02 04.30415	08 00 56.99	+21 12 09.8	19.6 V	566
1997 BJ ₂	1997 02 06.47037	09 07 15.95	+19 21 36.1	18.7 V	566	1997 BT ₈	1997 02 04.31275	08 00 56.52	+21 12 14.0	19.4 V	566
1997 BJ ₂	1997 02 06.47878	09 07 15.40	+19 21 39.8	18.6 V	566	1997 BT ₈	1997 02 04.32118	08 00 56.08	+21 12 18.6	18.8 V	566
1997 BJ ₂	1997 02 06.48717	09 07 14.89	+19 21 44.1	18.7 V	566	1997 BU ₈	1997 02 08.42441	09 22 55.69	+14 31 43.6	19.0 V	566
1997 BS ₂	1997 02 03.55675	09 55 02.90	+16 36 23.3	18.2 V	566	1997 BU ₈	1997 02 08.43284	09 22 55.27	+14 31 46.2	19.2 V	566
1997 BS ₂	1997 02 03.56746	09 55 02.22	+16 36 25.7	18.0 V	566	1997 BU ₈	1997 02 08.44123	09 22 54.76	+14 31 48.8	18.8 V	566
1997 BS ₂	1997 02 03.57593	09 55 01.80	+16 36 27.3	18.0 V	566	1997 BV ₈	1997 02 08.42441	09 23 57.85	+15 00 41.5	19.3 V	566
1997 BT ₂	1997 02 03.55675	09 55 41.70	+16 07 57.5	17.8 V	566	1997 BV ₈	1997 02 08.43284	09 23 57.37	+15 00 45.0	19.6 V	566
1997 BT ₂	1997 02 03.56746	09 55 40.98	+16 07 56.5	17.8 V	566	1997 BV ₈	1997 02 08.44123	09 23 56.76	+15 00 48.4	19.6 V	566
1997 BT ₂	1997 02 03.57593	09 55 40.43	+16 07 56.1	17.7 V	566	1997 BW ₈	1997 02 06.43490	09 02 14.35	+13 31 31.4	19.7 V	566
1997 BK ₃	1997 02 04.43134	09 37 38.57	+17 02 54.7	18.1 V	566	1997 BW ₈	1997 02 06.44333	09 02 13.79	+13 31 33.2	19.4 V	566
1997 BK ₃	1997 02 04.43975	09 37 38.07	+17 02 57.1	18.0 V	566	1997 BW ₈	1997 02 06.45180	09 02 13.21	+13 31 35.7	19.5 V	566
1997 BK ₃	1997 02 04.44818	09 37 37.55	+17 03 00.0	17.8 V	566	1997 BX ₈	1997 02 06.49958	09 19 58.84	+13 37 02.5	19.3 V	566
1997 BA ₅	1997 02 04.33155	08 11 02.35	+25 14 33.5	18.5 V	566	1997 BX ₈	1997 02 06.50801	09 19 58.22	+13 37 05.1	19.3 V	566
1997 BA ₅	1997 02 04.33992	08 11 01.72	+25 14 33.8	18.6 V	566	1997 BX ₈	1997 02 06.51644	09 19 57.63	+13 37 07.7	19.3 V	566
1997 BA ₅	1997 02 04.34830	08 11 01.13	+25 14 33.8	18.4 V	566	1997 BY ₈	1997 02 06.43490	09 02 32.11	+13 11 27.8	18.8 V	566
1997 BJ ₅	1997 02 06.49958	09 21 08.87	+12 54 23.4	18.9 V	566	1997 BY ₈	1997 02 06.44333	09 02 31.61	+13 11 28.7	19.1 V	566
1997 BJ ₅	1997 02 06.50801	09 21 08.44	+12 54 24.5	18.6 V	566	1997 BY ₈	1997 02 06.45180	09 02 31.15	+13 11 29.9	19.0 V	566
1997 BJ ₅	1997 02 06.51644	09 21 08.03	+12 54 24.9	18.9 V	566	1997 BZ ₈	1997 02 06.43490	09 02 25.79	+13 19 04.0	19.1 V	566
1997 BK ₅	1997 02 08.42224	09 18 04.85	+13 17 12.2	18.7 V	566	1997 BZ ₈	1997 02 06.44333	09 02 25.24	+13 19 05.9	19.2 V	566
1997 BK ₅	1997 02 08.43065	09 18 04.29	+13 17 14.6	18.6 V	566	1997 BZ ₈	1997 02 06.45180	09 02 24.72	+13 19 07.9	19.2 V	566
1997 BK ₅	1997 02 08.43909	09 18 03.75	+13 17 17.1	18.4 V	566	1997 BA ₉	1997 02 06.49958	09 20 39.09	+13 39 04.8	19.3 V	566
1997 BO ₅	1997 02 06.49958	09 21 28.50	+12 49 28.6	20.2 V	566	1997 BA ₉	1997 02 06.50801	09 20 38.58	+13 39 09.0	18.8 V	566
1997 BO ₅	1997 02 06.50801	09 21 28.01	+12 49 28.5	19.8 V	566	1997 BA ₉	1997 02 06.51644	09 20 38.09	+13 39 13.0	18.8 V	566
1997 BO ₅	1997 02 06.51644	09 21 27.54	+12 49 28.9	19.9 V	566	1997 CP	1997 02 07.48091	09 54 42.78	+11 12 51.4	18.0 V	566
1997 BP ₅	1997 02 08.49778	10 09 45.22	+11 36 07.6	19.5 V	566	1997 CP	1997 02 07.48927	09 54 42.27	+11 12 54.6	18.0 V	566
1997 BP ₅	1997 02 08.50635	10 09 44.79	+11 36 11.1	19.6 V	566	1997 CP	1997 02 07.49764	09 54 41.78	+11 12 57.5	18.1 V	566
1997 BP ₅	1997 02 08.51473	10 09 44.27	+11 36 14.4	19.0 V	566	1997 CA ₁	1997 02 03.58630	10 06 14.79	+11 38 22.3	17.7 V	566
1997 BR ₅	1997 02 08.49975	10 10 31.44	+12 09 23.8	19.7 V	566	1997 CA ₁	1997 02 03.59484	10 06 14.25	+11 38 23.4	17.9 V	566
1997 BR ₅	1997 02 08.50837	10 10 30.92	+12 09 29.1	19.6 V	566	1997 CA ₁	1997 02 03.60326	10 06 13.71	+11 38 24.1	17.9 V	566
1997 BR ₅	1997 02 08.51681	10 10 30.49	+12 09 33.5	19.3 V	566	1997 CQ ₁	1997 02 04.39845	09 09 05.12	+12 42 15.8	18.4 V	566
1997 BW ₅	1997 02 08.49778	10 08 36.69	+11 23 23.6	20.0 V	566	1997 CQ ₁	1997 02 04.41893	09 09 04.17	+12 42 26.6	18.5 V	566
1997 BW ₅	1997 02 08.50635	10 08 36.08	+11 23 25.0	19.9 V	566	1997 CQ ₁	1997 02 04.43749	09 09 03.27	+12 42 36.7	18.5 V	566
1997 BW ₅	1997 02 08.51473	10 08 35.60	+11 23 27.7	19.5 V	566	1997 CQ ₂	1997 01 14.46717	08 42 35.15	+19 34 12.3	19.5 V	566
1997 BR ₆	1997 02 03.55675	09 54 35.48	+15 17 58.7	17.1 V	566	1997 CQ ₂	1997 01 14.47577	08 42 34.69	+19 34 14.1	19.7 V	566
1997 BR ₆	1997 02 03.56746	09 54 34.75	+15 18 00.2	17.1 V	566	1997 CQ ₂	1997 01 14.48415	08 42 34.28	+19 34 15.9	20.1 V	566
1997 BR ₆	1997 02 03.57593	09 54 34.23	+15 18 01.7	17.1 V	566	1997 CU ₂	1997 02 06.49958	09 19 01.67	+13 11 02.0	18.8 V	566
1997 BS ₆	1997 02 04.43548	09 59 16.29	+16 15 05.4	17.6 V	566	1997 CU ₂	1997 02 06.50801	09 19 01.26	+13 11 05.5	19.0 V	566
1997 BS ₆	1997 02 04.45648	09 59 15.15	+16 15 19.2	17.2 V	566	1997 CU ₂	1997 02 06.51644	09 19 00.88	+13 11 09.2	18.8 V	566
1997 BS ₆	1997 02 04.47527	09 59 14.09	+16 15 31.5	16.9 V	566	1997 CC ₃	* 1997 02 03.58424	10 03 31.10	+10 34 36.9	18.8 V	566
1997 BF ₇	1997 02 08.39797	09 04 51.14	+17 06 25.9	18.0 V	566	1997 CC ₃	1997 02 03.59271	10 03 30.06	+10 34 28.6	18.9 V	566
1997 BF ₇	1997 02 08.40669	09 04 50.67	+17 06 27.7	17.8 V	566	1997 CC ₃	1997 02 03.60113	10 03 29.10	+10 34 19.6	18.7 V	566
1997 BF ₇	1997 02 08.41509	09 04 50.23	+17 06 29.4	17.9 V	566	1997 CC ₃	1997 02 04.44380	10 01 55.38	+10 20 03.7	19.0 V	566
1997 BG ₇	1997 02 07.38995	09 05 00.19	+18 07 38.8	19.2 V	566	1997 CC ₃	1997 02 04.45234	10 01 54.39	+10 19 55.1	18.9 V	566
1997 BG ₇	1997 02 07.39837	09 04 59.68	+18 07 43.2	19.0 V	566	1997 CC ₃	1997 02 04.46076	10 01 53.52	+10 19 46.6	19.5 V	566
1997 BG ₇	1997 02 07.40681	09 04 59.30	+18 07 46.9	19.7 V	566	1997 CC ₃	1997 02 06.47241	09 58 03.52	+09 45 36.4	18.4 V	566
1997 BH ₇	1997 02 06.45996	09 08 06.01	+17 32 42.6	18.8 V	566	1997 CC ₃	1997 02 06.48302	09 58 02.20	+09 45 25.8	18.7 V	566
1997 BH ₇	1997 02 06.46838	09 08 05.58	+17 32 44.8	18.7 V	566	1997 CC ₃	1997 02 06.49143	09 58 01.18	+09 45 17.0	18.6 V	566
1997 BH ₇	1997 02 06.47676	09 08 05.16	+17 32 47.0	18.9 V	566	1997 CC ₃	1997 02 07.47661	09 56 06.73	+09 28 31.9	18.9 V	566

1997 CC ₃	1997 02 07.48506	09 56 05.70	+09 28 22.4	19.2 V	566	1997 CB ₄	1997 02 03.57839	10 00 19.08	+08 49 38.2	18.7 V	566
1997 CC ₃	1997 02 07.49349	09 56 04.70	+09 28 14.0	19.1 V	566	1997 CB ₄	1997 02 06.47241	09 57 17.70	+08 57 22.7	18.5 V	566
1997 CD ₃	* 1997 02 03.27749	01 53 42.70	+14 19 47.1	19.1 V	566	1997 CB ₄	1997 02 06.48302	09 57 16.98	+08 57 24.4	18.6 V	566
1997 CD ₃	1997 02 03.28593	01 53 43.59	+14 19 50.8	19.0 V	566	1997 CB ₄	1997 02 06.49143	09 57 16.43	+08 57 25.9	18.9 V	566
1997 CD ₃	1997 02 03.29437	01 53 44.47	+14 19 54.7	19.0 V	566	1997 CC ₄	* 1997 02 03.61138	10 43 22.77	+04 09 50.5	19.0 V	566
1997 CD ₃	1997 02 03.32582	01 53 47.73	+14 20 08.4	19.0 V	566	1997 CC ₄	1997 02 03.61995	10 43 22.50	+04 09 53.7	19.2 V	566
1997 CD ₃	1997 02 03.33423	01 53 48.63	+14 20 12.9	19.0 V	566	1997 CC ₄	1997 02 03.62836	10 43 22.25	+04 09 57.2	19.2 V	566
1997 CD ₃	1997 02 03.34268	01 53 49.54	+14 20 16.5	19.1 V	566	1997 CC ₄	1997 02 06.54777	10 41 35.57	+04 30 23.5	19.1 V	566
1997 CD ₃	1997 02 04.23429	01 55 24.02	+14 27 04.3	18.8 V	566	1997 CC ₄	1997 02 06.55840	10 41 35.13	+04 30 28.3	19.1 V	566
1997 CD ₃	1997 02 04.24277	01 55 24.83	+14 27 07.8	19.2 V	566	1997 CC ₄	1997 02 06.56680	10 41 34.80	+04 30 31.9	19.3 V	566
1997 CD ₃	1997 02 04.25162	01 55 25.80	+14 27 12.0	19.2 V	566	1997 CD ₄	* 1997 02 03.61138	10 44 44.30	+04 41 17.4	19.1 V	566
1997 CE ₃	* 1997 02 03.27749	01 53 46.68	+14 26 20.7	19.4 V	566	1997 CD ₄	1997 02 03.61995	10 44 43.96	+04 41 19.6	18.8 V	566
1997 CE ₃	1997 02 03.28593	01 53 47.39	+14 26 24.5	18.9 V	566	1997 CD ₄	1997 02 03.62836	10 44 43.60	+04 41 22.0	19.0 V	566
1997 CE ₃	1997 02 03.29437	01 53 48.15	+14 26 27.9	19.1 V	566	1997 CD ₄	1997 02 06.54777	10 42 27.36	+04 54 40.6	19.7 V	566
1997 CE ₃	1997 02 04.23429	01 55 13.53	+14 33 23.7	19.4 V	566	1997 CD ₄	1997 02 06.55840	10 42 26.86	+04 54 43.6	19.9 V	566
1997 CE ₃	1997 02 04.24277	01 55 14.29	+14 33 27.8	19.5 V	566	1997 CD ₄	1997 02 06.56680	10 42 26.42	+04 54 46.0	19.5 V	566
1997 CE ₃	1997 02 04.25162	01 55 15.08	+14 33 31.5	19.2 V	566	1997 CE ₄	* 1997 02 03.61138	10 44 47.70	+04 25 52.4	18.9 V	566
1997 CF ₃	* 1997 02 03.46214	09 07 40.88	+11 49 20.9	18.0 V	566	1997 CE ₄	1997 02 03.61995	10 44 47.35	+04 25 52.7	19.2 V	566
1997 CF ₃	1997 02 03.47145	09 07 40.31	+11 49 24.8	17.9 V	566	1997 CE ₄	1997 02 03.62836	10 44 47.05	+04 25 54.0	19.4 V	566
1997 CF ₃	1997 02 03.47989	09 07 39.78	+11 49 28.3	17.9 V	566	1997 CE ₄	1997 02 06.54777	10 42 45.13	+04 30 11.1	19.9 V	566
1997 CF ₃	1997 02 04.39845	09 06 45.79	+11 55 47.6	17.6 V	566	1997 CE ₄	1997 02 06.55840	10 42 44.65	+04 30 11.1	19.6 V	566
1997 CF ₃	1997 02 04.41893	09 06 44.59	+11 55 56.2	17.6 V	566	1997 CE ₄	1997 02 06.56680	10 42 44.27	+04 30 12.7	19.8 V	566
1997 CF ₃	1997 02 04.43749	09 06 43.42	+11 56 04.1	17.4 V	566	1997 CF ₄	* 1997 02 04.43548	09 57 01.75	+15 19 48.3	19.4 V	566
1997 CG ₃	* 1997 02 03.46214	09 09 24.30	+12 17 33.4	19.3 V	566	1997 CF ₄	1997 02 04.45648	09 57 00.46	+15 19 58.1	19.5 V	566
1997 CG ₃	1997 02 03.47145	09 09 23.85	+12 17 35.8	19.2 V	566	1997 CF ₄	1997 02 04.47527	09 56 59.28	+15 20 07.0	19.3 V	566
1997 CG ₃	1997 02 03.47989	09 09 23.41	+12 17 38.1	19.4 V	566	1997 CF ₄	1997 02 06.52334	09 54 55.90	+15 35 52.8	19.6 V	566
1997 CG ₃	1997 02 04.39845	09 08 38.14	+12 21 35.4	18.8 V	566	1997 CF ₄	1997 02 06.53173	09 54 55.38	+15 35 56.5	19.9 V	566
1997 CG ₃	1997 02 04.41893	09 08 37.13	+12 21 41.0	18.9 V	566	1997 CF ₄	1997 02 06.54016	09 54 54.84	+15 36 00.2	19.7 V	566
1997 CG ₃	1997 02 04.43749	09 08 36.12	+12 21 45.8	19.0 V	566	1997 CG ₄	1997 01 14.56963	10 17 52.03	+15 32 54.7	19.1 V	566
1997 CH ₃	* 1997 02 03.46214	09 11 06.99	+11 48 14.0	19.5 V	566	1997 CG ₄	1997 01 14.57805	10 17 51.72	+15 32 55.3	19.1 V	566
1997 CH ₃	1997 02 03.47145	09 11 06.50	+11 48 17.1	19.4 V	566	1997 CG ₄	1997 01 14.58865	10 17 51.31	+15 32 56.8	18.9 V	566
1997 CH ₃	1997 02 03.47989	09 11 06.03	+11 48 19.6	19.6 V	566	1997 CG ₄	* 1997 02 04.43548	09 59 16.88	+16 30 41.1	18.6 V	566
1997 CH ₃	1997 02 04.39845	09 10 18.15	+11 52 58.7	19.5 V	566	1997 CG ₄	1997 02 04.45648	09 59 15.48	+16 30 45.0	18.6 V	566
1997 CH ₃	1997 02 04.41893	09 10 17.17	+11 53 05.2	19.6 V	566	1997 CG ₄	1997 02 04.47527	09 59 14.12	+16 30 48.8	19.0 V	566
1997 CH ₃	1997 02 04.43749	09 10 16.11	+11 53 11.2	19.4 V	566	1997 CG ₄	1997 02 06.52334	09 56 58.04	+16 37 03.4	19.3 V	566
1997 CJ ₃	* 1997 02 03.55675	09 58 25.24	+15 38 23.9	18.9 V	566	1997 CG ₄	1997 02 06.53173	09 56 57.46	+16 37 03.7	19.3 V	566
1997 CJ ₃	1997 02 03.56746	09 58 24.69	+15 38 29.5	18.8 V	566	1997 CG ₄	1997 02 06.54016	09 56 56.89	+16 37 05.4	19.5 V	566
1997 CJ ₃	1997 02 03.57593	09 58 24.28	+15 38 33.6	18.9 V	566	1997 CG ₄	1997 02 08.35809	09 54 54.69	+16 42 32.8	18.7 V	566
1997 CJ ₃	1997 02 04.43548	09 57 42.64	+15 45 54.0	18.6 V	566	1997 CG ₄	1997 02 08.36654	09 54 54.04	+16 42 34.6	19.6 V	566
1997 CJ ₃	1997 02 04.45648	09 57 41.56	+15 46 04.8	18.7 V	566	1997 CG ₄	1997 02 08.37499	09 54 53.54	+16 42 35.6	18.7 V	566
1997 CJ ₃	1997 02 04.47527	09 57 40.58	+15 46 14.4	18.6 V	566	1997 CJ ₄	1997 02 04.53663	11 03 47.33	+09 24 10.2	19.8 V	566
1997 CJ ₃	1997 02 08.35809	09 54 25.93	+16 19 22.5	18.6 V	566	1997 CJ ₄	1997 02 04.54508	11 03 47.01	+09 24 13.6	19.8 V	566
1997 CJ ₃	1997 02 08.36654	09 54 25.52	+16 19 26.6	18.9 V	566	1997 CJ ₄	1997 02 04.55352	11 03 46.66	+09 24 16.8	19.6 V	566
1997 CJ ₃	1997 02 08.37499	09 54 25.06	+16 19 31.2	18.8 V	566	1997 CQ ₄	* 1997 02 06.41820	08 27 06.17	+25 22 50.2	18.0 V	566
1997 CA ₄	* 1997 02 03.55675	09 55 42.48	+15 17 17.8	18.8 V	566	1997 CQ ₄	1997 02 06.42664	08 27 05.19	+25 22 38.8	18.0 V	566
1997 CA ₄	1997 02 03.56746	09 55 41.92	+15 17 18.2	18.6 V	566	1997 CQ ₄	1997 02 06.43691	08 27 04.01	+25 22 25.2	18.0 V	566
1997 CA ₄	1997 02 03.57593	09 55 41.49	+15 17 19.1	18.8 V	566	1997 CQ ₄	1997 02 07.33637	08 25 24.87	+25 02 27.5	18.0 V	566
1997 CA ₄	1997 02 06.52334	09 53 09.72	+15 21 21.8	18.7 V	566	1997 CQ ₄	1997 02 07.34479	08 25 23.93	+25 02 16.5	17.8 V	566
1997 CA ₄	1997 02 06.53173	09 53 09.29	+15 21 22.2	18.7 V	566	1997 CQ ₄	1997 02 07.35499	08 25 22.75	+25 02 02.7	17.8 V	566
1997 CA ₄	1997 02 06.54016	09 53 08.84	+15 21 23.2	18.7 V	566	1997 CQ ₄	1997 02 08.31190	08 23 38.46	+24 40 30.5	17.7 V	566
1997 CB ₄	* 1997 02 03.55869	10 00 20.30	+08 49 35.3	18.9 V	566	1997 CQ ₄	1997 02 08.32036	08 23 37.54	+24 40 19.1	17.7 V	566
1997 CB ₄	1997 02 03.56956	10 00 19.60	+08 49 37.0	18.7 V	566	1997 CQ ₄	1997 02 08.32881	08 23 36.56	+24 40 07.8	17.6 V	566

1997 CR ₄	* 1997 02 03.45144	08 45 43.97	+23 49 02.2	18.4 V	566	1997 CZ ₄	1997 02 04.45234	09 59 39.24	+11 18 53.9	19.8 V	566
1997 CR ₄	1997 02 03.46003	08 45 43.34	+23 49 03.4	18.3 V	566	1997 CZ ₄	1997 02 04.46076	09 59 38.81	+11 18 55.5	20.0 V	566
1997 CR ₄	1997 02 03.46939	08 45 42.63	+23 49 04.7	18.3 V	566	1997 CZ ₄	1997 02 07.48091	09 56 37.91	+11 29 34.6	19.3 V	566
1997 CR ₄	1997 02 07.36773	08 41 02.79	+23 57 30.6	18.6 V	566	1997 CZ ₄	1997 02 07.48927	09 56 37.42	+11 29 36.9	19.2 V	566
1997 CR ₄	1997 02 07.38779	08 41 01.39	+23 57 33.0	18.4 V	566	1997 CZ ₄	1997 02 07.49764	09 56 36.82	+11 29 37.9	19.8 V	566
1997 CR ₄	1997 02 07.40459	08 41 00.03	+23 57 34.9	18.4 V	566	1997 CA ₅	* 1997 02 04.44380	10 02 20.77	+10 31 39.6	18.3 V	566
1997 CS ₄	* 1997 02 03.45144	08 47 26.85	+23 51 23.7	18.5 V	566	1997 CA ₅	1997 02 04.45234	10 02 20.27	+10 31 41.4	18.4 V	566
1997 CS ₄	1997 02 03.46003	08 47 26.24	+23 51 21.5	18.8 V	566	1997 CA ₅	1997 02 04.46076	10 02 19.76	+10 31 43.8	18.0 V	566
1997 CS ₄	1997 02 03.46939	08 47 25.64	+23 51 20.4	18.9 V	566	1997 CA ₅	1997 02 07.48091	09 59 16.76	+10 43 13.3	18.5 V	566
1997 CS ₄	1997 02 07.36773	08 43 12.42	+23 36 53.9	18.4 V	566	1997 CA ₅	1997 02 07.48927	09 59 16.22	+10 43 15.3	18.7 V	566
1997 CS ₄	1997 02 07.38779	08 43 11.14	+23 36 49.6	18.2 V	566	1997 CA ₅	1997 02 07.49764	09 59 15.67	+10 43 17.3	18.4 V	566
1997 CS ₄	1997 02 07.40459	08 43 09.98	+23 36 45.7	18.2 V	566	1997 CB ₅	1997 01 14.49028	08 46 01.19	+22 32 18.7	18.7 V	566
1997 CS ₄	1997 02 08.39601	08 42 06.97	+23 32 51.0	17.9 V	566	1997 CB ₅	1997 01 14.49869	08 46 00.70	+22 32 20.8	18.8 V	566
1997 CS ₄	1997 02 08.40437	08 42 06.42	+23 32 49.0	17.9 V	566	1997 CB ₅	1997 01 14.50710	08 46 00.18	+22 32 23.6	18.8 V	566
1997 CS ₄	1997 02 08.41278	08 42 05.89	+23 32 47.2	18.1 V	566	1997 CB ₅	* 1997 02 06.40765	08 23 26.95	+24 08 45.8	18.9 V	566
1997 CT ₄	* 1997 02 03.47343	09 22 08.22	+15 42 51.3	18.6 V	566	1997 CB ₅	1997 02 06.41625	08 23 26.44	+24 08 47.4	18.6 V	566
1997 CT ₄	1997 02 03.48202	09 22 07.64	+15 42 52.1	18.7 V	566	1997 CB ₅	1997 02 06.42462	08 23 26.03	+24 08 48.6	19.3 V	566
1997 CT ₄	1997 02 03.49439	09 22 06.79	+15 42 53.5	18.7 V	566	1997 CB ₅	1997 02 07.33637	08 22 36.87	+24 11 28.9	19.6 V	566
1997 CT ₄	1997 02 07.39206	09 17 54.13	+15 50 04.7	19.3 V	566	1997 CB ₅	1997 02 07.34479	08 22 36.40	+24 11 30.6	19.4 V	566
1997 CT ₄	1997 02 07.40045	09 17 53.58	+15 50 05.6	19.0 V	566	1997 CB ₅	1997 02 07.35499	08 22 35.85	+24 11 32.7	19.6 V	566
1997 CT ₄	1997 02 07.40888	09 17 53.03	+15 50 06.6	19.1 V	566	1997 CB ₅	1997 02 08.31190	08 21 45.30	+24 14 17.2	19.1 V	566
1997 CU ₄	* 1997 02 03.47343	09 22 11.72	+14 48 06.3	19.1 V	566	1997 CB ₅	1997 02 08.32036	08 21 44.87	+24 14 18.9	18.9 V	566
1997 CU ₄	1997 02 03.48202	09 22 11.20	+14 48 09.6	19.2 V	566	1997 CB ₅	1997 02 08.32881	08 21 44.37	+24 14 20.3	19.1 V	566
1997 CU ₄	1997 02 03.49439	09 22 10.43	+14 48 14.9	19.2 V	566	1997 CC ₅	1997 01 14.52546	09 27 30.05	+16 05 34.7	19.5 V	566
1997 CU ₄	1997 02 07.39206	09 18 20.01	+15 15 20.5	19.1 V	566	1997 CC ₅	1997 01 14.53386	09 27 29.52	+16 05 36.2	19.5 V	566
1997 CU ₄	1997 02 07.40045	09 18 19.48	+15 15 24.6	19.1 V	566	1997 CC ₅	1997 01 14.54227	09 27 29.16	+16 05 37.2	19.4 V	566
1997 CU ₄	1997 02 07.40888	09 18 18.99	+15 15 27.9	19.3 V	566	1997 CC ₅	* 1997 02 06.45792	09 05 40.11	+17 13 32.1	18.7 V	566
1997 CV ₄	* 1997 02 03.47343	09 22 30.07	+15 30 28.3	17.6 V	566	1997 CC ₅	1997 02 06.46632	09 05 39.60	+17 13 33.6	18.5 V	566
1997 CV ₄	1997 02 03.48202	09 22 29.45	+15 30 27.5	17.5 V	566	1997 CC ₅	1997 02 06.47476	09 05 39.05	+17 13 35.0	18.6 V	566
1997 CV ₄	1997 02 03.49439	09 22 28.49	+15 30 26.5	17.7 V	566	1997 CC ₅	1997 02 07.38995	09 04 43.89	+17 16 11.1	18.9 V	566
1997 CV ₄	1997 02 07.39206	09 17 40.84	+15 25 26.6	18.5 V	566	1997 CC ₅	1997 02 07.39837	09 04 43.34	+17 16 12.3	18.8 V	566
1997 CV ₄	1997 02 07.40045	09 17 40.26	+15 25 25.8	19.0 V	566	1997 CC ₅	1997 02 07.40681	09 04 42.91	+17 16 14.1	19.6 V	566
1997 CV ₄	1997 02 07.40888	09 17 39.58	+15 25 25.4	18.9 V	566	1997 CC ₅	1997 02 08.39797	09 03 43.41	+17 19 03.6	19.1 V	566
1997 CW ₄	* 1997 02 03.47343	09 22 58.23	+14 31 35.5	19.4 V	566	1997 CC ₅	1997 02 08.40669	09 03 42.87	+17 19 05.2	18.8 V	566
1997 CW ₄	1997 02 03.48202	09 22 57.67	+14 31 36.6	19.2 V	566	1997 CC ₅	1997 02 08.41509	09 03 42.34	+17 19 06.6	18.7 V	566
1997 CW ₄	1997 02 03.49439	09 22 56.82	+14 31 38.6	19.3 V	566	1997 CD ₅	* 1997 02 06.45996	09 05 57.36	+17 40 29.9	19.3 V	566
1997 CW ₄	1997 02 07.39206	09 18 42.10	+14 41 31.7	19.7 V	566	1997 CD ₅	1997 02 06.46838	09 05 56.77	+17 40 30.3	19.6 V	566
1997 CW ₄	1997 02 07.40045	09 18 41.63	+14 41 32.1	18.8 V	566	1997 CD ₅	1997 02 06.47676	09 05 56.26	+17 40 31.1	19.9 V	566
1997 CW ₄	1997 02 07.40888	09 18 41.04	+14 41 32.8	20.0 V	566	1997 CD ₅	1997 02 07.38995	09 04 53.47	+17 41 46.8	19.5 V	566
1997 CX ₄	* 1997 02 04.44380	09 58 22.55	+10 45 08.8	19.0 V	566	1997 CD ₅	1997 02 07.39837	09 04 52.92	+17 41 47.4	19.4 V	566
1997 CX ₄	1997 02 04.45234	09 58 22.04	+10 45 08.5	19.0 V	566	1997 CD ₅	1997 02 07.40681	09 04 52.33	+17 41 48.3	19.6 V	566
1997 CX ₄	1997 02 04.46076	09 58 21.60	+10 45 09.2	19.6 V	566	1997 CE ₅	* 1997 02 06.45996	09 07 20.18	+18 33 19.6	19.0 V	566
1997 CX ₄	1997 02 07.48091	09 55 18.20	+10 45 48.3	18.7 V	566	1997 CE ₅	1997 02 06.46838	09 07 19.67	+18 33 22.2	18.9 V	566
1997 CX ₄	1997 02 07.48927	09 55 17.71	+10 45 48.3	18.7 V	566	1997 CE ₅	1997 02 06.47676	09 07 19.14	+18 33 24.9	19.2 V	566
1997 CX ₄	1997 02 07.49764	09 55 17.13	+10 45 48.6	18.9 V	566	1997 CE ₅	1997 02 07.38995	09 06 23.74	+18 38 23.5	19.6 V	566
1997 CY ₄	* 1997 02 04.44380	09 59 17.76	+11 37 20.4	19.2 V	566	1997 CE ₅	1997 02 07.39837	09 06 23.19	+18 38 26.4	19.3 V	566
1997 CY ₄	1997 02 04.45234	09 59 17.25	+11 37 19.8	18.8 V	566	1997 CE ₅	1997 02 07.40681	09 06 22.81	+18 38 28.5	20.0 V	566
1997 CY ₄	1997 02 04.46076	09 59 16.74	+11 37 18.2	19.0 V	566	1997 CF ₅	* 1997 02 06.45996	09 08 02.53	+17 26 12.1	19.2 V	566
1997 CY ₄	1997 02 07.48091	09 56 09.62	+11 31 14.5	19.0 V	566	1997 CF ₅	1997 02 06.46838	09 08 02.16	+17 26 14.4	19.0 V	566
1997 CY ₄	1997 02 07.48927	09 56 09.11	+11 31 14.3	19.0 V	566	1997 CF ₅	1997 02 06.47676	09 08 01.74	+17 26 16.5	19.3 V	566
1997 CY ₄	1997 02 07.49764	09 56 08.56	+11 31 12.2	19.2 V	566	1997 CF ₅	1997 02 07.38995	09 07 17.56	+17 30 08.8	18.8 V	566
1997 CZ ₄	* 1997 02 04.44380	09 59 39.73	+11 18 52.0	20.0 V	566	1997 CF ₅	1997 02 07.39837	09 07 17.14	+17 30 10.4	18.6 V	566

1997 CF ₅	1997 02 07.40681	09 07 16.75	+17 30 12.6	18.7 V	566	1997 CL ₆	1997 02 08.51905	10 10 07.10	+14 47 19.5	18.5 V	566
1997 CF ₅	1997 02 08.39797	09 06 28.82	+17 34 22.4	19.2 V	566	1997 CL ₆	1997 02 08.52776	10 10 06.65	+14 47 26.3	18.4 V	566
1997 CF ₅	1997 02 08.40669	09 06 28.39	+17 34 25.2	19.7 V	566	1997 CL ₆	1997 02 08.53617	10 10 06.23	+14 47 32.0	18.5 V	566
1997 CF ₅	1997 02 08.41509	09 06 27.98	+17 34 27.2	19.0 V	566	1997 CM ₆	* 1997 02 03.63450	10 53 20.21	+08 26 25.6	19.2 V	566
1997 CG ₅	* 1997 02 06.47241	09 56 43.96	+10 04 12.0	18.9 V	566	1997 CM ₆	1997 02 03.64295	10 53 19.95	+08 26 28.7	19.1 V	566
1997 CG ₅	1997 02 06.48302	09 56 43.30	+10 04 15.0	18.7 V	566	1997 CM ₆	1997 02 03.65181	10 53 19.66	+08 26 32.4	19.2 V	566
1997 CG ₅	1997 02 06.49143	09 56 42.85	+10 04 17.1	18.7 V	566	1997 CM ₆	1997 02 08.55114	10 50 35.96	+09 00 37.3	19.0 V	566
1997 CG ₅	1997 02 07.48091	09 55 50.61	+10 08 31.3	18.9 V	566	1997 CM ₆	1997 02 08.55957	10 50 35.63	+09 00 41.1	19.2 V	566
1997 CG ₅	1997 02 07.48927	09 55 50.16	+10 08 33.5	18.8 V	566	1997 CM ₆	1997 02 08.56796	10 50 35.34	+09 00 45.0	19.1 V	566
1997 CG ₅	1997 02 07.49764	09 55 49.66	+10 08 35.6	19.0 V	566	1997 CN ₆	* 1997 02 04.37962	08 51 32.06	+21 28 27.4	19.8 V	566
1997 CH ₅	* 1997 02 06.47241	09 59 19.04	+10 00 35.2	19.6 V	566	1997 CN ₆	1997 02 04.38800	08 51 31.62	+21 28 30.0	19.4 V	566
1997 CH ₅	1997 02 06.48302	09 59 18.33	+10 00 38.7	18.9 V	566	1997 CN ₆	1997 02 04.39641	08 51 31.10	+21 28 32.2	19.1 V	566
1997 CH ₅	1997 02 06.49143	09 59 17.84	+10 00 41.2	19.1 V	566	1997 CN ₆	1997 02 08.35612	08 48 00.68	+21 52 19.4	19.5 V	566
1997 CH ₅	1997 02 07.48091	09 58 21.30	+10 06 05.7	19.0 V	566	1997 CN ₆	1997 02 08.36454	08 48 00.18	+21 52 21.7	19.7 V	566
1997 CH ₅	1997 02 07.48927	09 58 20.78	+10 06 08.1	18.9 V	566	1997 CN ₆	1997 02 08.37295	08 47 59.65	+21 52 25.1	19.5 V	566
1997 CH ₅	1997 02 07.49764	09 58 20.26	+10 06 11.3	19.2 V	566	1997 CO ₆	* 1997 02 04.38383	08 50 56.51	+22 44 37.0	18.9 V	566
1997 CJ ₅	1997 02 03.47343	09 23 54.86	+14 55 52.6	18.9 V	566	1997 CO ₆	1997 02 04.39223	08 50 56.01	+22 44 39.3	18.8 V	566
1997 CJ ₅	1997 02 03.48202	09 23 54.33	+14 55 55.1	19.0 V	566	1997 CO ₆	1997 02 04.40067	08 50 55.49	+22 44 41.4	18.6 V	566
1997 CJ ₅	1997 02 03.49439	09 23 53.52	+14 55 58.4	18.8 V	566	1997 CO ₆	1997 02 08.35612	08 47 02.72	+23 01 35.5	19.0 V	566
1997 CM ₅	1997 02 08.42634	09 24 40.16	+16 20 12.7	18.4 V	566	1997 CO ₆	1997 02 08.36454	08 47 02.21	+23 01 37.4	18.8 V	566
1997 CM ₅	1997 02 08.43479	09 24 39.72	+16 20 15.6	18.3 V	566	1997 CO ₆	1997 02 08.37295	08 47 01.78	+23 01 39.1	19.2 V	566
1997 CM ₅	1997 02 08.44325	09 24 39.25	+16 20 18.5	18.4 V	566	1997 CP ₆	* 1997 02 04.38383	08 51 51.00	+22 36 16.4	19.0 V	566
1997 CO ₅	* 1997 02 06.45996	09 08 59.29	+18 24 20.3	17.2 V	566	1997 CP ₆	1997 02 04.39223	08 51 50.59	+22 36 19.3	18.8 V	566
1997 CO ₅	1997 02 06.46838	09 08 58.51	+18 24 06.9	17.5 V	566	1997 CP ₆	1997 02 04.40067	08 51 50.15	+22 36 22.1	18.7 V	566
1997 CO ₅	1997 02 06.47676	09 08 57.64	+18 23 55.0	17.6 V	566	1997 CP ₆	1997 02 08.35612	08 48 25.94	+22 56 14.8	19.0 V	566
1997 CO ₅	1997 02 07.38995	09 07 29.88	+18 01 56.5	17.6 V	566	1997 CP ₆	1997 02 08.36454	08 48 25.50	+22 56 18.2	19.4 V	566
1997 CO ₅	1997 02 07.39837	09 07 29.04	+18 01 44.5	17.6 V	566	1997 CP ₆	1997 02 08.37295	08 48 25.07	+22 56 20.2	19.4 V	566
1997 CO ₅	1997 02 07.40681	09 07 28.20	+18 01 32.5	17.6 V	566	1997 CQ ₆	* 1997 02 04.38383	08 52 35.88	+22 51 54.1	19.0 V	566
1997 CO ₅	1997 02 08.39797	09 05 54.87	+17 37 59.4	17.8 V	566	1997 CQ ₆	1997 02 04.39223	08 52 35.36	+22 51 55.8	18.8 V	566
1997 CO ₅	1997 02 08.40669	09 05 54.01	+17 37 46.8	17.6 V	566	1997 CQ ₆	1997 02 04.40067	08 52 34.83	+22 51 57.5	18.7 V	566
1997 CO ₅	1997 02 08.41509	09 05 53.18	+17 37 35.1	17.5 V	566	1997 CQ ₆	1997 02 08.35612	08 48 41.70	+23 03 23.5	19.4 V	566
1997 CY ₅	1997 02 08.39797	09 06 31.24	+18 12 14.4	18.9 V	566	1997 CQ ₆	1997 02 08.36454	08 48 41.16	+23 03 25.0	19.5 V	566
1997 CY ₅	1997 02 08.40669	09 06 30.72	+18 12 16.2	18.8 V	566	1997 CQ ₆	1997 02 08.37295	08 48 40.55	+23 03 26.5	19.9 V	566
1997 CY ₅	1997 02 08.41509	09 06 30.25	+18 12 17.5	18.7 V	566	1997 CR ₆	* 1997 02 04.38383	08 55 14.27	+22 50 06.6	19.1 V	566
1997 CZ ₅	* 1997 02 07.26021	04 27 19.93	+19 47 33.9	15.4 V	566	1997 CR ₆	1997 02 04.39223	08 55 13.59	+22 50 03.0	18.7 V	566
1997 CZ ₅	1997 02 07.26877	04 27 21.19	+19 47 18.8	15.4 V	566	1997 CR ₆	1997 02 04.40067	08 55 12.79	+22 49 59.1	18.8 V	566
1997 CZ ₅	1997 02 07.27716	04 27 22.40	+19 47 04.0	15.4 V	566	1997 CR ₆	1997 02 08.35612	08 49 26.73	+22 20 10.4	19.1 V	566
1997 CZ ₅	1997 02 08.24002	04 29 48.42	+19 19 06.6	15.0 V	566	1997 CR ₆	1997 02 08.36454	08 49 25.95	+22 20 06.8	19.2 V	566
1997 CZ ₅	1997 02 08.24844	04 29 49.65	+19 18 52.1	15.1 V	566	1997 CR ₆	1997 02 08.37295	08 49 25.22	+22 20 02.8	19.4 V	566
1997 CZ ₅	1997 02 08.25682	04 29 50.84	+19 18 37.7	15.2 V	566	1997 CS ₆	* 1997 02 04.40675	09 30 26.23	+15 08 58.5	18.5 V	566
1997 CC ₆	1997 02 04.43134	09 36 58.06	+17 39 17.2	18.3 V	566	1997 CS ₆	1997 02 04.41702	09 30 25.61	+15 09 03.0	18.5 V	566
1997 CC ₆	1997 02 04.43975	09 36 57.70	+17 39 22.2	18.6 V	566	1997 CS ₆	1997 02 04.42706	09 30 25.02	+15 09 06.9	18.5 V	566
1997 CC ₆	1997 02 04.44818	09 36 57.34	+17 39 27.2	18.4 V	566	1997 CS ₆	1997 02 08.42441	09 26 40.79	+15 36 21.9	19.1 V	566
1997 CK ₆	* 1997 02 03.50283	09 33 09.57	+19 18 12.3	19.6 V	566	1997 CS ₆	1997 02 08.43284	09 26 40.28	+15 36 25.3	18.7 V	566
1997 CK ₆	1997 02 03.55282	09 33 06.06	+19 18 20.3	18.9 V	566	1997 CS ₆	1997 02 08.44123	09 26 39.83	+15 36 28.6	18.9 V	566
1997 CK ₆	1997 02 03.56123	09 33 05.56	+19 18 21.8	19.3 V	566	1997 CT ₆	* 1997 02 06.40765	08 26 32.21	+23 36 48.6	18.8 V	566
1997 CK ₆	1997 02 08.44727	09 27 31.55	+19 29 24.9	18.7 V	566	1997 CT ₆	1997 02 06.41625	08 26 31.69	+23 36 55.0	18.5 V	566
1997 CK ₆	1997 02 08.45588	09 27 30.87	+19 29 26.2	18.8 V	566	1997 CT ₆	1997 02 06.42462	08 26 31.20	+23 37 00.8	18.7 V	566
1997 CK ₆	1997 02 08.46621	09 27 30.09	+19 29 27.3	19.1 V	566	1997 CT ₆	1997 02 08.31190	08 24 43.79	+23 59 27.1	18.9 V	566
1997 CL ₆	* 1997 02 03.60742	10 13 57.90	+13 48 09.0	18.7 V	566	1997 CT ₆	1997 02 08.32036	08 24 43.35	+23 59 33.4	18.9 V	566
1997 CL ₆	1997 02 03.61583	10 13 57.49	+13 48 14.9	18.9 V	566	1997 CT ₆	1997 02 08.32881	08 24 42.84	+23 59 39.2	18.7 V	566
1997 CL ₆	1997 02 03.62423	10 13 57.10	+13 48 20.7	18.9 V	566	1997 CU ₆	* 1997 02 06.42020	08 27 14.25	+27 11 47.4	18.4 V	566

1997 CU ₆	1997 02 06.42877	08 27 13.36	+27 11 41.6	18.4 V	566	1997 CD ₇	1997 02 04.44818	09 38 05.70	+17 13 29.8	18.3 V	566
1997 CU ₆	1997 02 06.43882	08 27 12.23	+27 11 35.3	18.3 V	566	1997 CQ ₇	1997 02 03.46214	09 11 24.38	+12 18 21.9	20.1 V	566
1997 CU ₆	1997 02 08.31424	08 23 59.32	+26 51 20.5	18.4 V	566	1997 CQ ₇	1997 02 03.47145	09 11 23.78	+12 18 25.5	20.1 V	566
1997 CU ₆	1997 02 08.32265	08 23 58.44	+26 51 15.0	18.3 V	566	1997 CQ ₇	1997 02 03.47989	09 11 23.31	+12 18 30.2	19.9 V	566
1997 CU ₆	1997 02 08.33105	08 23 57.55	+26 51 09.4	18.5 V	566	1997 CC ₈	1997 02 06.49958	09 19 28.78	+12 49 16.9	18.9 V	566
1997 CV ₆	* 1997 02 06.45792	09 06 22.49	+16 57 43.8	19.8 V	566	1997 CC ₈	1997 02 06.50801	09 19 28.17	+12 49 19.1	19.1 V	566
1997 CV ₆	1997 02 06.46632	09 06 21.95	+16 57 44.8	19.8 V	566	1997 CC ₈	1997 02 06.51644	09 19 27.64	+12 49 21.6	19.0 V	566
1997 CV ₆	1997 02 06.47476	09 06 21.41	+16 57 46.2	19.6 V	566	1997 CB ₁₃	1997 01 14.44242	08 43 17.47	+17 25 52.4	18.9 V	566
1997 CV ₆	1997 02 08.39797	09 04 12.81	+17 02 02.1	20.4 V	566	1997 CB ₁₃	1997 01 14.45091	08 43 16.94	+17 25 55.2	19.1 V	566
1997 CV ₆	1997 02 08.40669	09 04 12.16	+17 02 03.4	19.7 V	566	1997 CB ₁₃	1997 01 14.46069	08 43 16.33	+17 25 58.5	18.9 V	566
1997 CV ₆	1997 02 08.41509	09 04 11.60	+17 02 04.6	19.9 V	566	1997 CP ₁₃	1997 02 04.40675	09 30 24.50	+14 54 15.8	17.8 V	566
1997 CW ₆	* 1997 02 06.45792	09 06 56.52	+16 51 38.0	19.3 V	566	1997 CP ₁₃	1997 02 04.41702	09 30 23.87	+14 54 18.4	17.7 V	566
1997 CW ₆	1997 02 06.46632	09 06 55.95	+16 51 41.1	19.3 V	566	1997 CP ₁₃	1997 02 04.42706	09 30 23.26	+14 54 20.9	17.7 V	566
1997 CW ₆	1997 02 06.47476	09 06 55.48	+16 51 44.4	19.3 V	566	1997 CU ₁₃	1997 02 07.39206	09 14 44.28	+15 54 16.8	18.8 V	566
1997 CW ₆	1997 02 08.39797	09 04 53.71	+17 02 30.9	19.9 V	566	1997 CU ₁₃	1997 02 07.40045	09 14 43.70	+15 54 19.8	18.5 V	566
1997 CW ₆	1997 02 08.40669	09 04 53.09	+17 02 33.1	18.7 V	566	1997 CU ₁₃	1997 02 07.40888	09 14 43.16	+15 54 22.1	18.8 V	566
1997 CW ₆	1997 02 08.41509	09 04 52.58	+17 02 36.5	19.0 V	566	1997 CV ₁₃	1997 02 06.45996	09 08 48.91	+18 23 54.7	19.3 V	566
1997 CX ₆	* 1997 02 06.45792	09 07 25.55	+16 47 24.6	18.7 V	566	1997 CV ₁₃	1997 02 06.46838	09 08 48.39	+18 23 57.2	19.2 V	566
1997 CX ₆	1997 02 06.46632	09 07 24.96	+16 47 25.1	18.9 V	566	1997 CV ₁₃	1997 02 06.47676	09 08 47.89	+18 23 59.9	19.3 V	566
1997 CX ₆	1997 02 06.47476	09 07 24.37	+16 47 25.7	18.8 V	566	1997 CX ₁₃	1997 02 04.43548	09 58 19.31	+16 04 31.5	19.4 V	566
1997 CX ₆	1997 02 08.39797	09 05 12.20	+16 49 34.7	19.3 V	566	1997 CX ₁₃	1997 02 04.45648	09 58 18.13	+16 04 41.1	19.6 V	566
1997 CX ₆	1997 02 08.40669	09 05 11.59	+16 49 35.2	19.2 V	566	1997 CX ₁₃	1997 02 04.47527	09 58 17.09	+16 04 49.3	19.8 V	566
1997 CX ₆	1997 02 08.41509	09 05 10.98	+16 49 35.9	19.0 V	566	1997 CV ₁₆	1997 02 08.42634	09 24 49.99	+16 18 35.6	19.2 V	566
1997 CY ₆	* 1997 02 06.45996	09 07 38.07	+17 18 29.8	19.4 V	566	1997 CV ₁₆	1997 02 08.43479	09 24 49.51	+16 18 36.4	19.3 V	566
1997 CY ₆	1997 02 06.46838	09 07 37.57	+17 18 31.6	19.5 V	566	1997 CV ₁₆	1997 02 08.44325	09 24 49.03	+16 18 37.5	19.2 V	566
1997 CY ₆	1997 02 06.47676	09 07 37.08	+17 18 34.1	19.8 V	566	1997 CW ₁₆	1997 02 08.42634	09 23 19.15	+16 00 40.8	19.8 V	566
1997 CY ₆	1997 02 08.39797	09 05 35.99	+17 26 42.0	19.4 V	566	1997 CW ₁₆	1997 02 08.43479	09 23 18.64	+16 00 46.7	19.6 V	566
1997 CY ₆	1997 02 08.40669	09 05 35.40	+17 26 44.2	19.4 V	566	1997 CW ₁₆	1997 02 08.44325	09 23 18.23	+16 00 51.8	19.6 V	566
1997 CY ₆	1997 02 08.41509	09 05 34.93	+17 26 46.0	19.2 V	566	1997 CF ₁₉	1997 02 03.60944	10 13 38.06	+16 36 22.0	18.9 V	566
1997 CZ ₆	* 1997 02 06.49958	09 21 40.34	+12 53 01.2	19.8 V	566	1997 CF ₁₉	1997 02 03.61783	10 13 37.62	+16 36 23.6	19.4 V	566
1997 CZ ₆	1997 02 06.50801	09 21 39.86	+12 53 03.2	19.6 V	566	1997 CF ₁₉	1997 02 03.62622	10 13 37.23	+16 36 24.4	19.4 V	566
1997 CZ ₆	1997 02 06.51644	09 21 39.35	+12 53 05.3	19.8 V	566	1997 CJ ₁₉	1997 02 04.58268	08 19 28.33	+25 32 28.7	18.5 V	566
1997 CZ ₆	1997 02 08.42224	09 19 47.92	+13 02 54.3	20.0 V	566	1997 CJ ₁₉	1997 02 04.59316	08 19 27.72	+25 32 32.8	18.8 V	566
1997 CZ ₆	1997 02 08.43065	09 19 47.43	+13 02 56.6	19.8 V	566	1997 CJ ₁₉	1997 02 04.60154	08 19 27.27	+25 32 35.3	18.8 V	566
1997 CZ ₆	1997 02 08.43909	09 19 47.03	+13 02 59.7	19.6 V	566	1997 CP ₁₉	1997 02 04.47096	10 21 24.27	+12 58 35.6	17.3 V	566
1997 CA ₇	* 1997 02 06.52334	09 58 01.53	+16 33 17.0	17.5 V	566	1997 CP ₁₉	1997 02 04.47943	10 21 23.88	+12 58 41.4	17.4 V	566
1997 CA ₇	1997 02 06.53173	09 58 00.66	+16 33 11.8	17.4 V	566	1997 CP ₁₉	1997 02 04.48783	10 21 23.48	+12 58 47.1	17.2 V	566
1997 CA ₇	1997 02 06.54016	09 57 59.77	+16 33 07.2	17.4 V	566	1997 CG ₂₀	1997 02 06.63151	11 18 41.19	+07 27 22.6	19.2 V	566
1997 CA ₇	1997 02 08.35809	09 54 55.16	+16 15 49.7	17.0 V	566	1997 CG ₂₀	1997 02 06.64002	11 18 40.84	+07 27 22.1	19.5 V	566
1997 CA ₇	1997 02 08.36654	09 54 54.28	+16 15 45.0	17.1 V	566	1997 CG ₂₀	1997 02 06.64841	11 18 40.47	+07 27 21.1	19.0 V	566
1997 CA ₇	1997 02 08.37499	09 54 53.40	+16 15 40.4	17.1 V	566	1997 CR ₂₁	1997 02 08.42634	09 24 41.51	+16 30 21.2	17.8 V	566
1997 CB ₇	* 1997 02 07.38995	09 05 00.94	+17 29 31.9	18.3 V	566	1997 CR ₂₁	1997 02 08.43479	09 24 41.00	+16 30 24.1	17.7 V	566
1997 CB ₇	1997 02 07.39837	09 05 00.46	+17 29 32.5	18.5 V	566	1997 CR ₂₁	1997 02 08.44325	09 24 40.46	+16 30 27.1	17.9 V	566
1997 CB ₇	1997 02 07.40681	09 05 00.00	+17 29 33.3	18.4 V	566	1997 CJ ₂₂	1997 02 08.42224	09 21 21.39	+12 22 41.6	20.2 V	566
1997 CB ₇	1997 02 08.39797	09 04 05.28	+17 30 48.5	18.0 V	566	1997 CJ ₂₂	1997 02 08.43065	09 21 20.87	+12 22 45.5	19.8 V	566
1997 CB ₇	1997 02 08.40669	09 04 04.80	+17 30 49.3	18.0 V	566	1997 CJ ₂₂	1997 02 08.43909	09 21 20.35	+12 22 46.3	19.5 V	566
1997 CB ₇	1997 02 08.41509	09 04 04.31	+17 30 50.0	18.0 V	566	1997 CX ₂₂	1997 01 14.46717	08 42 18.05	+19 09 07.9	19.0 V	566
1997 CC ₇	1997 02 04.43134	09 37 29.51	+17 57 08.2	18.1 V	566	1997 CX ₂₂	1997 01 14.47577	08 42 17.58	+19 09 09.8	19.0 V	566
1997 CC ₇	1997 02 04.43975	09 37 29.14	+17 57 11.7	18.0 V	566	1997 CX ₂₂	1997 01 14.48415	08 42 17.05	+19 09 11.8	18.6 V	566
1997 CC ₇	1997 02 04.44818	09 37 28.70	+17 57 15.3	18.0 V	566	1997 CK ₂₃	1997 01 14.46717	08 45 21.95	+19 58 49.4	20.2 V	566
1997 CD ₇	1997 02 04.43134	09 38 06.78	+17 13 25.9	18.4 V	566	1997 CK ₂₃	1997 01 14.47577	08 45 21.44	+19 58 50.3	19.9 V	566
1997 CD ₇	1997 02 04.43975	09 38 06.26	+17 13 28.1	18.5 V	566	1997 CK ₂₃	1997 01 14.48415	08 45 20.96	+19 58 50.9	20.4 V	566

1997 CD ₂₇	1997 02 03.46214	09 07 40.99	+12 20 04.0	20.1 V	566	3270 T-2	1997 02 07.38779	08 43 28.32	+23 49 55.8	17.6 V	566
1997 CD ₂₇	1997 02 03.47145	09 07 40.33	+12 20 06.9	20.4 V	566	3270 T-2	1997 02 07.40459	08 43 27.24	+23 50 00.0	17.4 V	566
1997 CD ₂₇	1997 02 03.47989	09 07 39.85	+12 20 09.8	20.1 V	566	4019 T-3	1997 02 04.51349	10 56 00.17	+05 17 27.4	19.3 V	566
1997 CE ₂₇	1997 02 03.46214	09 09 23.46	+12 13 21.9	19.9 V	566	4019 T-3	1997 02 04.52191	10 55 59.84	+05 17 30.0	19.1 V	566
1997 CE ₂₇	1997 02 03.47145	09 09 22.86	+12 13 23.4	19.8 V	566	4019 T-3	1997 02 04.53030	10 55 59.52	+05 17 32.7	19.1 V	566
1997 CE ₂₇	1997 02 03.47989	09 09 22.29	+12 13 25.1	19.7 V	566	5124 T-3	1997 02 07.41498	09 24 12.68	+22 53 31.5	17.9 V	566
1997 CF ₂₇	1997 02 04.40477	09 28 45.29	+12 14 06.5	18.3 V	566	5124 T-3	1997 02 07.42571	09 24 12.00	+22 53 36.6	18.0 V	566
1997 CF ₂₇	1997 02 04.41505	09 28 44.54	+12 14 07.5	18.7 V	566	5124 T-3	1997 02 07.43409	09 24 11.47	+22 53 40.7	17.9 V	566
1997 CF ₂₇	1997 02 04.42495	09 28 44.01	+12 14 07.6	18.2 V	566	(1065)	1997 02 07.36773	08 40 59.48	+22 41 26.7	16.7 V	566
1997 CG ₂₇	* 1997 02 06.39517	08 20 41.32	+18 28 54.7	19.7 V	566	(1065)	1997 02 07.38779	08 40 58.19	+22 41 28.8	16.7 V	566
1997 CG ₂₇	1997 02 06.40366	08 20 40.92	+18 28 58.4	19.6 V	566	(1065)	1997 02 07.40459	08 40 57.01	+22 41 30.4	16.7 V	566
1997 CG ₂₇	1997 02 06.41208	08 20 40.47	+18 29 02.2	19.5 V	566	(1198)	1997 02 04.40477	09 29 51.87	+11 03 00.3	18.5 V	566
1997 CH ₂₇	* 1997 02 06.49958	09 18 32.93	+12 56 37.9	20.0 V	566	(1198)	1997 02 04.41505	09 29 51.14	+11 03 03.1	18.7 V	566
1997 CH ₂₇	1997 02 06.50801	09 18 32.34	+12 56 39.9	19.6 V	566	(1198)	1997 02 04.42495	09 29 50.55	+11 03 05.6	18.7 V	566
1997 CH ₂₇	1997 02 06.51644	09 18 31.82	+12 56 42.0	20.0 V	566	(2012)	1997 02 03.27749	01 55 51.47	+13 54 07.6	18.3 V	566
1997 CJ ₂₇	* 1997 02 07.34034	08 37 02.49	+20 06 41.5	18.4 V	566	(2012)	1997 02 03.28593	01 55 52.17	+13 54 10.7	18.2 V	566
1997 CJ ₂₇	1997 02 07.35098	08 37 01.97	+20 06 44.2	18.6 V	566	(2012)	1997 02 03.29437	01 55 52.81	+13 54 13.9	18.6 V	566
1997 CJ ₂₇	1997 02 07.35936	08 37 01.51	+20 06 46.4	18.5 V	566	(2012)	1997 02 03.32582	01 55 55.42	+13 54 25.3	18.7 V	566
1997 CK ₂₇	* 1997 02 08.44727	09 30 50.52	+20 24 25.8	18.2 V	566	(2012)	1997 02 03.33423	01 55 56.17	+13 54 28.7	18.6 V	566
1997 CK ₂₇	1997 02 08.45588	09 30 49.96	+20 24 29.8	18.2 V	566	(2012)	1997 02 03.34268	01 55 56.87	+13 54 31.8	18.5 V	566
1997 CK ₂₇	1997 02 08.46621	09 30 49.25	+20 24 34.7	18.5 V	566	(2012)	1997 02 04.23429	01 57 11.94	+14 00 07.8	19.1 V	566
1997 CL ₂₇	* 1997 02 08.44727	09 31 23.77	+20 28 00.4	19.4 V	566	(2012)	1997 02 04.24277	01 57 12.65	+14 00 11.0	19.4 V	566
1997 CL ₂₇	1997 02 08.45588	09 31 23.22	+20 28 03.2	19.4 V	566	(2012)	1997 02 04.25162	01 57 13.39	+14 00 14.1	19.5 V	566
1997 CL ₂₇	1997 02 08.46621	09 31 22.51	+20 28 06.6	20.3 V	566	(2071)	1997 02 07.48091	09 56 33.54	+10 12 43.2	17.2 V	566
4837 P-L	1997 02 06.27287	07 15 07.43	+22 50 13.4	19.3 V	566	(2071)	1997 02 07.48927	09 56 33.02	+10 12 45.0	17.0 V	566
4837 P-L	1997 02 06.28127	07 15 07.08	+22 50 14.0	19.6 V	566	(2071)	1997 02 07.49764	09 56 32.45	+10 12 47.2	17.0 V	566
4837 P-L	1997 02 06.28967	07 15 06.80	+22 50 14.1	19.7 V	566	(3160)	1997 02 08.30976	06 55 54.59	+24 49 39.4	18.5 V	566
6624 P-L	1997 02 04.33499	08 16 35.39	+24 46 03.9	18.9 V	566	(3160)	1997 02 08.31820	06 55 54.25	+24 49 38.9	18.4 V	566
6624 P-L	1997 02 04.34340	08 16 34.81	+24 46 05.4	19.0 V	566	(3160)	1997 02 08.32661	06 55 53.91	+24 49 38.3	18.4 V	566
6624 P-L	1997 02 04.35181	08 16 34.13	+24 46 07.2	19.6 V	566	(3216)	1997 02 04.43134	09 36 45.11	+18 08 36.1	18.1 V	566
6703 P-L	1997 02 06.47241	09 57 15.59	+09 36 56.7	19.7 V	566	(3216)	1997 02 04.43975	09 36 44.61	+18 08 39.1	18.2 V	566
6703 P-L	1997 02 06.48302	09 57 14.88	+09 37 00.3	19.2 V	566	(3216)	1997 02 04.44818	09 36 44.10	+18 08 41.9	18.2 V	566
6703 P-L	1997 02 06.49143	09 57 14.41	+09 37 03.4	19.0 V	566	(3307)	1997 02 03.27749	01 53 00.54	+14 24 15.8	18.8 V	566
9565 P-L	1997 02 08.49975	10 10 29.53	+12 14 09.7	18.7 V	566	(3307)	1997 02 03.28593	01 53 01.41	+14 24 19.1	19.2 V	566
9565 P-L	1997 02 08.50837	10 10 29.02	+12 14 13.3	18.8 V	566	(3307)	1997 02 03.29437	01 53 02.27	+14 24 21.4	19.1 V	566
9565 P-L	1997 02 08.51681	10 10 28.56	+12 14 16.9	18.7 V	566	(3307)	1997 02 03.32582	01 53 05.52	+14 24 33.7	18.6 V	566
1222 T-1	1997 02 08.44933	09 31 48.91	+23 20 26.6	18.9 V	566	(3307)	1997 02 03.33423	01 53 06.36	+14 24 36.7	18.4 V	566
1222 T-1	1997 02 08.45816	09 31 48.23	+23 20 28.2	19.1 V	566	(3307)	1997 02 03.34268	01 53 07.26	+14 24 39.3	18.5 V	566
1222 T-1	1997 02 08.46847	09 31 47.60	+23 20 29.2	18.9 V	566	(3307)	1997 02 04.23429	01 54 38.95	+14 30 05.7	18.6 V	566
2120 T-1	1997 02 03.43705	08 36 00.90	+18 07 18.6	19.2 V	566	(3307)	1997 02 04.24277	01 54 39.84	+14 30 08.8	18.5 V	566
2120 T-1	1997 02 03.44551	08 36 00.10	+18 07 20.8	19.6 V	566	(3307)	1997 02 04.25162	01 54 40.77	+14 30 12.0	18.2 V	566
2120 T-1	1997 02 03.45394	08 35 59.55	+18 07 23.7	19.7 V	566	(3848)	1997 02 04.39845	09 09 24.15	+11 48 18.2	17.2 V	566
4161 T-1	1996 02 15.62618	12 59 38.40	-07 04 05.4	17.4 V	566	(3848)	1997 02 04.41893	09 09 22.92	+11 48 24.7	17.2 V	566
4161 T-1	1996 02 15.64472	12 59 38.33	-07 03 59.9	17.1 V	566	(3848)	1997 02 04.43749	09 09 21.77	+11 48 30.6	17.2 V	566
4161 T-1	1996 02 15.66546	12 59 38.19	-07 03 54.1	16.8 V	566	(4101)	1997 02 04.43548	09 57 12.55	+16 31 02.1	16.7 V	566
4161 T-1	1996 03 19.54431	12 45 05.09	-02 58 11.7	17.5 V	566	(4101)	1997 02 04.45648	09 57 11.36	+16 31 05.6	16.7 V	566
4161 T-1	1996 03 19.56406	12 45 04.20	-02 58 00.0	17.4 V	566	(4101)	1997 02 04.47527	09 57 10.29	+16 31 08.6	16.7 V	566
4161 T-1	1996 03 19.58512	12 45 03.24	-02 57 47.8	17.2 V	566	(4366)	1997 02 04.43548	09 59 23.40	+15 05 44.4	16.5 V	566
4886 T-1	1997 02 07.41745	09 30 48.38	+25 07 03.7	19.0 V	566	(4366)	1997 02 04.45648	09 59 22.39	+15 05 50.0	16.5 V	566
4886 T-1	1997 02 07.42804	09 30 47.65	+25 07 07.0	18.8 V	566	(4366)	1997 02 04.47527	09 59 21.48	+15 05 54.6	16.5 V	566
4886 T-1	1997 02 07.43642	09 30 47.05	+25 07 08.1	19.2 V	566	(4445)	1997 02 06.55181	10 25 44.79	+05 19 26.3	18.7 V	566
3270 T-2	1997 02 07.36773	08 43 29.51	+23 49 50.5	17.6 V	566	(4445)	1997 02 06.56248	10 25 44.13	+05 19 29.6	18.5 V	566

(4445)	1997 02 06.57094	10 25 43.66	+05 19 31.9	18.4 V	566
(4469)	1997 02 06.51838	09 51 10.05	+13 54 27.5	18.6 V	566
(4469)	1997 02 06.52680	09 51 09.55	+13 54 28.3	18.6 V	566
(4469)	1997 02 06.53520	09 51 09.03	+13 54 29.5	18.6 V	566
(4733)	1997 02 03.27749	01 56 49.90	+13 05 16.0	20.1 V	566
(4733)	1997 02 03.28593	01 56 50.58	+13 05 19.5	20.0 V	566
(4733)	1997 02 03.29437	01 56 51.17	+13 05 23.3	19.6 V	566
(4733)	1997 02 03.32582	01 56 53.44	+13 05 37.4	19.1 V	566
(4733)	1997 02 03.33423	01 56 54.12	+13 05 41.4	19.2 V	566
(4733)	1997 02 03.34268	01 56 54.76	+13 05 45.2	18.9 V	566
(4989)	1997 02 04.40675	09 33 21.23	+13 46 17.4	17.8 V	566
(4989)	1997 02 04.41702	09 33 20.53	+13 46 17.7	17.7 V	566
(4989)	1997 02 04.42706	09 33 19.84	+13 46 17.7	17.7 V	566
(5156)	1997 02 03.40143	07 49 07.48	+19 28 16.8	18.4 V	566
(5156)	1997 02 03.41002	07 49 06.99	+19 28 19.1	18.3 V	566
(5156)	1997 02 03.41843	07 49 06.53	+19 28 21.2	18.3 V	566
(5407)	1997 02 04.33155	08 09 30.89	+24 48 01.4	15.8 V	566
(5407)	1997 02 04.33992	08 09 30.15	+24 48 08.8	15.8 V	566
(5407)	1997 02 04.34830	08 09 29.42	+24 48 16.4	15.9 V	566
(5616)	1997 02 08.24501	04 18 22.27	+22 03 06.3	18.9 V	566
(5616)	1997 02 08.25342	04 18 22.71	+22 03 07.9	18.7 V	566
(5616)	1997 02 08.26408	04 18 23.23	+22 03 10.2	19.2 V	566
(6277)	1997 02 06.40765	08 22 18.29	+23 50 38.0	18.3 V	566
(6277)	1997 02 06.41625	08 22 17.66	+23 50 38.2	18.3 V	566
(6277)	1997 02 06.42462	08 22 17.12	+23 50 38.8	18.1 V	566
(6444)	1997 02 07.34247	08 33 31.94	+24 17 06.5	18.2 V	566
(6444)	1997 02 07.35300	08 33 31.20	+24 17 09.4	18.5 V	566
(6444)	1997 02 07.36148	08 33 30.62	+24 17 12.0	18.2 V	566
(6516)	1997 02 04.44380	10 01 12.63	+10 09 36.2	19.0 V	566
(6516)	1997 02 04.45234	10 01 12.14	+10 09 38.4	18.8 V	566
(6516)	1997 02 04.46076	10 01 11.74	+10 09 40.5	19.5 V	566
(6516)	1997 02 06.47241	09 59 12.84	+10 19 09.2	19.6 V	566
(6516)	1997 02 06.48302	09 59 12.04	+10 19 12.0	19.2 V	566
(6516)	1997 02 06.49143	09 59 11.51	+10 19 14.8	19.2 V	566
(6516)	1997 02 07.48091	09 58 12.32	+10 23 59.4	19.0 V	566
(6516)	1997 02 07.48927	09 58 11.72	+10 24 00.4	18.5 V	566
(6516)	1997 02 07.49764	09 58 11.26	+10 24 04.4	18.9 V	566
(6601)	1997 02 04.47096	10 18 47.29	+13 59 14.7	18.5 V	566
(6601)	1997 02 04.47943	10 18 46.83	+13 59 17.6	18.6 V	566
(6601)	1997 02 04.48783	10 18 46.36	+13 59 20.4	18.5 V	566
(6675)	1997 02 08.55326	10 52 40.26	+09 51 05.6	18.7 V	566
(6675)	1997 02 08.56165	10 52 39.94	+09 51 07.7	18.5 V	566
(6675)	1997 02 08.57004	10 52 39.57	+09 51 09.2	18.4 V	566
(6696)	1997 02 04.28111	07 32 11.79	+24 02 01.9	19.6 V	566
(6696)	1997 02 04.28964	07 32 11.43	+24 02 02.8	19.2 V	566
(6696)	1997 02 04.29808	07 32 10.96	+24 02 03.6	19.1 V	566
(6718)	1997 02 06.51838	09 52 24.71	+14 23 58.0	17.5 V	566
(6718)	1997 02 06.52680	09 52 24.29	+14 23 59.9	17.5 V	566
(6718)	1997 02 06.53520	09 52 23.88	+14 24 02.2	17.5 V	566
(6811)	1997 02 06.47241	09 55 22.93	+10 01 21.8	20.0 V	566
(6811)	1997 02 06.48302	09 55 22.16	+10 01 24.7	19.5 V	566
(6811)	1997 02 06.49143	09 55 21.70	+10 01 27.7	19.5 V	566

(6811)	1997 02 07.48091	09 54 25.75	+10 06 16.4	19.4 V	566
(6811)	1997 02 07.48927	09 54 25.28	+10 06 18.6	19.2 V	566
(6811)	1997 02 07.49764	09 54 24.76	+10 06 21.6	19.7 V	566
(7230)	1997 02 07.24560	01 54 39.07	+13 50 23.3	19.9 V	566
(7230)	1997 02 07.25402	01 54 40.08	+13 50 29.6	18.9 V	566
(7230)	1997 02 07.26250	01 54 41.12	+13 50 35.8	18.9 V	566

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2.24-m telescope + CCD, 3.6-m telescope + CCD

1981 EU ₂₆	1997 01 12.58096	08 51 42.88	+11 36 03.2	18.8 V	568
1981 EU ₂₆	1997 01 12.60135	08 51 42.00	+11 36 06.8		568
1981 EU ₂₆	1997 01 13.33990	08 51 10.62	+11 38 24.6		568
1981 EU ₂₆	1997 01 13.52609	08 51 02.31	+11 38 59.9		568
1996 TK ₆₆	1996 10 12.45559	00 19 07.35	-00 18 17.5	22.9 R	568
1996 TK ₆₆	1996 10 12.46587	00 19 07.32	-00 18 17.6		568
1996 TK ₆₆	1996 10 12.47616	00 19 07.28	-00 18 17.9		568
1996 TL ₆₆	* 1996 10 09.56206	02 00 21.58	+14 44 19.9	20.9 R	568
1996 TL ₆₆	1996 10 09.59770	02 00 21.39	+14 44 18.6		568
1996 TL ₆₆	1996 10 09.62913	02 00 21.25	+14 44 17.3		568
1996 TL ₆₆	1996 10 13.39172	02 00 02.31	+14 42 04.5	20.9 R	568
1996 TL ₆₆	1996 10 13.41712	02 00 02.20	+14 42 03.7		568
1996 TL ₆₆	1996 10 13.44227	02 00 02.03	+14 42 02.6		568
1996 TL ₆₆	1996 10 15.30505	01 59 52.53	+14 40 56.2		568
1996 TL ₆₆	1996 10 15.34583	01 59 52.32	+14 40 54.8		568
1996 TL ₆₆	1996 10 15.38741	01 59 52.10	+14 40 53.3		568
1996 TL ₆₆	1996 10 15.54823	01 59 51.26	+14 40 47.2		568
1996 TL ₆₆	1996 10 15.58127	01 59 51.09	+14 40 46.0		568
1996 TL ₆₆	1996 10 15.61737	01 59 50.91	+14 40 44.8		568
1997 AX ₂₂	* 1997 01 10.38505	08 51 47.30	+11 53 24.9	20.0 V	568
1997 AX ₂₂	1997 01 10.64726	08 51 36.70	+11 54 59.8		568
1997 AX ₂₂	1997 01 11.40652	08 51 07.33	+11 59 36.4		568
1997 AX ₂₂	1997 01 11.63703	08 50 57.82	+12 01 00.8		568
1997 AY ₂₂	* 1997 01 10.38505	08 52 11.40	+11 35 10.2	18.9 V	568
1997 AY ₂₂	1997 01 10.64726	08 51 58.00	+11 35 36.0		568
1997 AY ₂₂	1997 01 11.40652	08 51 21.06	+11 36 56.1		568
1997 AY ₂₂	1997 01 11.63703	08 51 08.95	+11 37 21.0		568
1997 AZ ₂₂	* 1997 01 10.38505	08 52 16.20	+11 51 04.6	22.1 V	568
1997 AZ ₂₂	1997 01 10.64726	08 52 04.52	+11 51 42.5		568
1997 AZ ₂₂	1997 01 11.63703	08 51 21.43	+11 54 07.0		568
1997 AZ ₂₂	1997 01 12.58096	08 50 39.61	+11 56 30.7		568
1997 AZ ₂₂	1997 01 12.60135	08 50 38.65	+11 56 33.8		568
1997 AA ₂₃	* 1997 01 10.38505	08 52 21.40	+11 51 06.4	21.7 V	568
1997 AA ₂₃	1997 01 10.64726	08 52 10.70	+11 52 16.4		568
1997 AA ₂₃	1997 01 11.40652	08 51 40.93	+11 55 41.0		568
1997 AA ₂₃	1997 01 12.58096	08 50 53.19	+12 01 03.8		568
1997 AA ₂₃	1997 01 12.60135	08 50 52.49	+12 01 08.4		568
1997 AB ₂₃	* 1997 01 10.38505	08 52 26.90	+11 57 03.6	20.3 V	568
1997 AB ₂₃	1997 01 10.64726	08 52 15.60	+11 58 00.4		568

1997 AB ₂₃	1997 01 11.40652	08 51 43.88	+12 00 49.0		568	1992 UY ₃	1997 01 30.86809	08 55 44.70	+25 51 13.9		587
1997 AB ₂₃	1997 01 11.63703	08 51 33.77	+12 01 39.9		568	1992 UY ₃	1997 01 30.90011	08 55 42.33	+25 51 22.0		587
1997 AC ₂₃	* 1997 01 11.40652	08 51 59.73	+11 49 48.1	21.6 V	568	1992 UY ₃	1997 01 31.92627	08 54 30.26	+25 55 23.2		587
1997 AC ₂₃	1997 01 11.63703	08 51 48.12	+11 51 19.6		568	1992 UY ₃	1997 01 31.95775	08 54 27.96	+25 55 28.9		587
1997 AC ₂₃	1997 01 12.58096	08 51 02.13	+11 57 41.8		568	1994 FB	1997 01 29.87928	07 13 41.62	+18 22 17.0		587
1997 AC ₂₃	1997 01 12.60135	08 51 01.09	+11 57 50.3		568	1994 FB	1997 01 29.89704	07 13 40.70	+18 22 20.5		587
1997 AD ₂₃	* 1997 01 11.40652	08 52 08.97	+11 41 10.1	22.1 V	568	1994 PC ₁	1997 01 28.82985	23 24 00.57	+45 05 15.3		587
1997 AD ₂₃	1997 01 11.63703	08 51 58.24	+11 41 04.6		568	1994 PC ₁	1997 01 28.83145	23 23 58.98	+45 05 26.8		587
1997 AD ₂₃	1997 01 12.58096	08 51 15.04	+11 40 46.2		568	1994 PC ₁	1997 01 28.83284	23 23 57.61	+45 05 36.8		587
1997 AD ₂₃	1997 01 12.60135	08 51 14.04	+11 40 45.4		568	1995 UE	1997 02 07.91582	11 54 50.90	+01 08 33.3		587
1997 AD ₂₃	1997 01 13.33990	08 50 40.09	+11 40 34.6		568	1995 UE	1997 02 07.99877	11 54 48.89	+01 08 28.1		587
1997 AE ₂₃	* 1997 01 11.63703	08 52 21.25	+11 58 42.5	19.7 V	568	1995 UE	1997 02 08.97690	11 54 25.72	+01 07 30.5		587
1997 AE ₂₃	1997 01 12.58096	08 51 37.88	+12 01 48.5		568	1995 UE	1997 02 09.01105	11 54 24.80	+01 07 28.5		587
1997 AE ₂₃	1997 01 12.60135	08 51 36.90	+12 01 53.0		568	1995 UE	1997 02 09.01695	11 54 24.59	+01 07 28.1		587
1997 AF ₂₃	* 1997 01 12.58096	08 51 13.50	+11 49 50.9	22.3 V	568	1995 WU ₂	1997 01 30.91518	11 17 20.98	+14 00 28.8		587
1997 AF ₂₃	1997 01 12.60135	08 51 12.46	+11 49 55.7		568	1995 WU ₂	1997 01 30.93706	11 17 20.35	+14 00 34.8		587
1997 AF ₂₃	1997 01 13.33990	08 50 40.93	+11 52 32.2		568	1995 WU ₂	1997 01 30.97771	11 17 19.30	+14 00 44.1		587
1997 AF ₂₃	1997 01 13.52609	08 50 32.43	+11 53 12.9		568	1996 VS ₁	1997 01 29.83813	03 10 29.23	+40 20 28.3		587
1997 AG ₂₃	* 1997 01 12.58096	08 52 02.92	+11 44 32.7	20.8 V	568	1996 VS ₁	1997 01 29.88917	03 10 32.52	+40 20 44.8		587
1997 AG ₂₃	1997 01 12.60135	08 52 01.67	+11 44 34.3		568	1996 VS ₁	1997 01 30.86142	03 11 39.04	+40 26 10.3		587
1997 AG ₂₃	1997 01 13.52609	08 51 05.88	+11 46 09.5		568	1996 VS ₁	1997 01 30.88968	03 11 40.92	+40 26 19.0		587
1997 AH ₂₃	* 1997 01 12.58096	08 52 13.32	+11 38 08.4	19.2 V	568	1996 XB ₂	1997 01 29.87280	06 18 02.08	+01 20 53.8		587
1997 AH ₂₃	1997 01 12.60135	08 52 12.19	+11 38 11.7		568	1996 XB ₂	1997 01 29.88350	06 18 01.74	+01 20 50.5		587
1997 AH ₂₃	1997 01 13.33990	08 51 33.10	+11 40 19.7		568	1996 YP ₃	1997 01 28.82597	02 41 51.67	+15 42 37.8		587
1997 AH ₂₃	1997 01 13.52609	08 51 22.62	+11 40 52.8		568	1996 YP ₃	1997 01 28.84768	02 41 52.44	+15 42 47.8		587
1997 AJ ₂₃	* 1997 01 12.58096	08 52 21.55	+11 52 34.6	22.5 V	568	1997 AX ₁₂	1997 01 28.88495	08 49 17.36	+22 16 12.1		587
1997 AJ ₂₃	1997 01 12.60135	08 52 20.58	+11 52 40.0		568	1997 AX ₁₂	1997 01 28.89217	08 49 17.02	+22 16 15.4		587
1997 AJ ₂₃	1997 01 13.52609	08 51 36.75	+11 56 58.0		568	1997 AV ₁₃	1997 01 28.89947	06 39 28.66	+16 33 14.6		587
1997 CD ₁₇	1997 02 09.57701	09 09 35.69	+04 00 24.6		568	1997 AV ₁₃	1997 01 28.91761	06 39 27.90	+16 33 18.3		587
1997 CD ₁₇	1997 02 09.57771	09 09 33.66	+03 58 53.4		568	1997 AV ₁₃	1997 01 28.92390	06 39 27.66	+16 33 19.4		587
1997 CD ₁₇	1997 02 09.57850	09 09 31.27	+03 57 07.6		568	1997 AV ₁₃	1997 01 31.88941	06 37 48.28	+16 44 27.2		587
1997 CD ₁₇	1997 02 09.57919	09 09 29.19	+03 55 35.4		568	1997 AV ₁₃	1997 01 31.90983	06 37 47.65	+16 44 31.0		587
1997 CD ₁₇	1997 02 09.58608	09 09 08.32	+03 40 14.3		568	1997 AV ₁₃	1997 01 31.91828	06 37 47.43	+16 44 33.4		587
1997 CD ₁₇	1997 02 09.58766	09 09 03.66	+03 36 41.6		568	1997 AV ₁₃	1997 02 10.82298	06 34 34.39	+17 20 51.7		587
1997 CD ₁₇	1997 02 09.58836	09 09 01.70	+03 35 10.1		568	1997 AV ₁₃	1997 02 10.87354	06 34 33.81	+17 21 02.6		587
1997 CD ₁₇	1997 02 09.59161	09 08 51.81	+03 27 53.0		568	1997 AW ₁₃	1997 01 28.91034	08 55 19.54	+26 00 35.3		587
1997 CD ₁₇	1997 02 09.59230	09 08 49.85	+03 26 20.7		568	1997 AW ₁₃	1997 01 28.92783	08 55 18.38	+26 00 37.1		587
1997 CD ₁₇	1997 02 11.32924	07 47 30.64	-47 37 35.8		568	1997 AW ₁₃	1997 01 28.93130	08 55 18.12	+26 00 36.6		587
1997 CD ₁₇	1997 02 11.33063	07 47 26.11	-47 38 59.3		568	1997 AB ₁₆	1997 01 16.89184	07 57 57.27	+19 46 51.7	17.5 V	587
1997 CD ₁₇	1997 02 11.33412	07 47 14.30	-47 42 30.6		568	1997 AB ₁₆	1997 01 16.89976	07 57 56.66	+19 46 53.1		587
1997 CD ₁₇	1997 02 11.33551	07 47 09.78	-47 43 54.1		568	1997 AB ₁₆	1997 01 16.95648	07 57 53.02	+19 47 00.5		587
(2299)	1997 01 10.38505	08 51 52.50	+11 41 56.8	18.1 V	568	1997 AB ₁₆	1997 01 16.96400	07 57 52.49	+19 47 01.1		587
(2299)	1997 01 10.64726	08 51 39.00	+11 42 51.2		568	1997 AB ₁₆	1997 01 28.87071	07 45 38.92	+20 10 58.0		587
(2299)	1997 01 11.40652	08 51 01.25	+11 45 32.1		568	1997 AB ₁₆	1997 01 28.87789	07 45 38.45	+20 10 58.3		587
(2299)	1997 01 11.63703	08 50 49.20	+11 46 21.1		568	1997 AB ₁₆	1997 01 28.95894	07 45 33.71	+20 11 07.1		587
587 Sormano						1997 AB ₁₆	1997 01 29.90682	07 44 40.24	+20 12 47.4		587
P. Sicoli, Via Valli 9, I-22040 Garbagnate Monastero (Lecco), Italy						1997 AB ₁₆	1997 01 29.91788	07 44 39.53	+20 12 47.2		587
[sormano@icil64.cilea.it]						1997 AQ ₁₈	1997 01 28.85862	07 19 55.67	+17 06 55.5		587
Observers F. Manca, P. Chiavenna, V. Giuliani, M. Cavagna, A. Testa, P. Sicoli,						1997 AQ ₁₈	1997 01 28.86169	07 19 55.17	+17 06 53.1		587
G. Ventre						1997 AQ ₁₈	1997 01 28.86536	07 19 54.57	+17 06 51.1		587
0.5-m reflector + CCD						1997 AQ ₁₈	1997 01 31.89849	07 12 40.19	+16 30 20.4		587
GSC						1997 AQ ₁₈	1997 01 31.90312	07 12 39.50	+16 30 17.1		587

1997 BQ	1997 01 28.94771	12 08 23.91	+66 56 32.2	587	1997 CC ₆	1997 02 07.80864	09 34 43.50	+18 11 50.4	587
1997 BQ	1997 01 28.94942	12 08 24.96	+66 56 36.5	587	1997 CC ₆	1997 02 07.82199	09 34 42.88	+18 12 01.1	587
1997 BQ	1997 01 28.95150	12 08 26.48	+66 56 40.9	587	1997 CC ₆	1997 02 08.91869	09 33 58.29	+18 22 28.9	587
1997 BR	1997 01 28.93527	10 09 53.01	+29 02 01.4	587	1997 CC ₆	1997 02 08.93842	09 33 57.43	+18 22 40.0	587
1997 BR	1997 01 28.93738	10 09 52.90	+29 02 08.3	587	1997 CC ₆	1997 02 08.94496	09 33 57.18	+18 22 42.4	587
1997 BR	1997 01 28.93993	10 09 52.78	+29 02 15.0	587	1997 CC ₆	1997 02 08.95144	09 33 56.92	+18 22 46.8	587
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1997 BD ₂	1997 01 29.00354	09 42 59.67	+16 18 06.3	587	1997 CC ₇	1997 02 07.90372	09 34 46.13	+18 20 44.3	587
1997 BD ₂	1997 01 29.02903	09 42 58.24	+16 18 22.0	587	1997 CC ₇	1997 02 08.91869	09 33 57.85	+18 27 32.0	587
1997 BD ₂	1997 01 29.91406	09 42 09.30	+16 27 22.3	587	1997 CC ₇	1997 02 08.93414	09 33 57.11	+18 27 38.4	587
1997 BD ₂	1997 01 29.92910	09 42 08.44	+16 27 30.8	587	1997 CC ₇	1997 02 08.93842	09 33 56.88	+18 27 40.6	587
1997 BD ₂	1997 01 30.87344	09 41 15.43	+16 37 08.0	587	1997 CD ₇	* 1997 02 07.81552	09 34 40.28	+17 25 51.3	16.5 V 587
1997 BD ₂	1997 01 30.88241	09 41 14.88	+16 37 14.0	587	1997 CD ₇	1997 02 07.90980	09 34 34.20	+17 26 09.5	587
1997 BD ₂	1997 01 30.88539	09 41 14.73	+16 37 15.6	587	1997 CD ₇	1997 02 08.90937	09 33 32.35	+17 29 43.8	587
1997 BD ₂	1997 01 30.98982	09 41 08.57	+16 38 19.5	587	1997 CD ₇	1997 02 08.92217	09 33 31.54	+17 29 46.9	587
1997 BD ₂	1997 01 31.98471	09 40 11.86	+16 48 30.4	16.5 V 587	1997 CD ₇	1997 02 08.92875	09 33 31.11	+17 29 48.2	587
1997 BD ₂	1997 01 31.99160	09 40 11.46	+16 48 34.6	587	1997 CD ₇	1997 02 10.90771	09 31 28.49	+17 36 41.3	587
1997 BD ₂	1997 02 10.85085	09 30 25.27	+18 27 36.1	587	1997 CD ₇	1997 02 10.91007	09 31 28.32	+17 36 41.2	587
1997 BD ₂	1997 02 10.85788	09 30 24.88	+18 27 40.3	587	1997 CD ₇	1997 02 10.92106	09 31 27.61	+17 36 44.7	587
1997 BK ₃	* 1997 01 30.87344	09 41 55.95	+16 39 41.4	17.0 V 587	1997 CK ₁₃	* 1997 02 07.92881	11 54 43.12	+04 34 24.3	17.0 V 587
1997 BK ₃	1997 01 30.88241	09 41 55.45	+16 39 45.4	587	1997 CK ₁₃	1997 02 08.00582	11 54 41.74	+04 34 42.1	587
1997 BK ₃	1997 01 30.88539	09 41 55.29	+16 39 46.8	587	1997 CK ₁₃	1997 02 08.95868	11 54 23.88	+04 38 02.0	587
1997 BK ₃	1997 01 30.98982	09 41 49.44	+16 40 18.6	587	1997 CK ₁₃	1997 02 08.96602	11 54 23.76	+04 38 03.5	587
1997 BK ₃	1997 01 31.97870	09 40 55.01	+16 45 17.1	587	1997 CK ₁₃	1997 02 08.98032	11 54 23.48	+04 38 06.4	587
1997 BK ₃	1997 01 31.98738	09 40 54.68	+16 45 21.3	587	1997 CL ₁₃	* 1997 02 07.93570	11 55 22.76	+06 13 42.7	17.5 V 587
1997 BK ₃	1997 02 07.79983	09 34 19.08	+17 19 52.5	587	1997 CL ₁₃	1997 02 07.97484	11 55 22.05	+06 14 00.2	587
1997 BK ₃	1997 02 07.81552	09 34 18.12	+17 19 57.7	587	1997 CL ₁₃	1997 02 08.00906	11 55 21.36	+06 14 14.2	587
1997 BK ₃	1997 02 07.90980	09 34 12.23	+17 20 25.5	587	1997 CL ₁₃	1997 02 08.97239	11 55 04.20	+06 21 39.4	587
1997 BK ₃	1997 02 08.90937	09 33 12.02	+17 25 25.6	587	1997 CL ₁₃	1997 02 09.00665	11 55 03.46	+06 21 55.4	587
1997 BK ₃	1997 02 08.92217	09 33 11.22	+17 25 29.4	587	1997 CT ₁₉	1997 02 13.90544	09 16 22.44	+13 02 45.6	16.5 V 587
1997 BK ₃	1997 02 08.92875	09 33 10.80	+17 25 31.1	587	1997 CT ₁₉	1997 02 13.95011	09 16 19.77	+13 02 58.3	587
1997 BK ₃	1997 02 10.88128	09 31 12.73	+17 35 04.8	587	1997 CT ₁₉	1997 02 14.86108	09 15 28.21	+13 07 04.7	587
1997 BK ₃	1997 02 10.89508	09 31 11.87	+17 35 08.8	587	1997 CT ₁₉	1997 02 14.89423	09 15 26.28	+13 07 13.6	587
1997 BK ₃	1997 02 10.90771	09 31 11.06	+17 35 12.4	587	1997 CJ ₂₂	* 1997 02 13.90544	09 16 16.03	+12 56 50.8	17.5 V 587
1997 BK ₃	1997 02 10.91007	09 31 10.97	+17 35 13.4	587	1997 CJ ₂₂	1997 02 13.95011	09 16 13.46	+12 57 07.5	587
1997 BV ₄	* 1997 01 29.83813	03 10 33.67	+40 26 46.7	587	1997 CJ ₂₂	1997 02 14.83901	09 15 25.34	+13 02 40.0	587
1997 BV ₄	1997 01 29.85104	03 10 34.31	+40 26 42.6	587	1997 CJ ₂₂	1997 02 14.89423	09 15 22.41	+13 02 58.7	587
1997 BV ₄	1997 01 29.88917	03 10 36.03	+40 26 31.7	587	(1493)	1997 01 28.97359	09 43 28.35	+14 33 24.7	587
1997 BV ₄	1997 01 31.85775	03 12 09.91	+40 18 26.1	17.9 V 587	(1493)	1997 01 28.99679	09 43 27.01	+14 33 30.2	587
1997 BV ₄	1997 01 31.87535	03 12 10.74	+40 18 20.8	587	(1493)	1997 01 29.03572	09 43 24.80	+14 33 39.8	587
1997 BW ₄	* 1997 01 29.94247	08 56 17.80	+25 35 55.5	17.3 V 587	(3154)	1997 01 28.97926	09 43 33.11	+15 55 16.9	587
1997 BW ₄	1997 01 29.96273	08 56 16.70	+25 36 08.0	587	(3154)	1997 01 29.00243	09 43 31.96	+15 55 23.4	587
1997 BW ₄	1997 01 30.86809	08 55 27.02	+25 45 03.7	587	(3154)	1997 01 29.03058	09 43 30.62	+15 55 31.3	587
1997 BW ₄	1997 01 31.92627	08 54 28.89	+25 55 18.5	587	589 Santa Lucia Stroncone				
1997 BW ₄	1997 01 31.95775	08 54 27.12	+25 55 36.3	587	A. Vagnozzi, Via Santa Lucia 68, I-05039 Stroncone (Terni), Italy				
1997 BW ₄	1997 02 06.82378	08 49 12.27	+26 48 11.2	587	[vagnozzi@freenet.hut.fi]				
1997 BW ₄	1997 02 06.85503	08 49 10.53	+26 48 26.9	587	Observers A. Vagnozzi, G. Bernabei, V. Risoldi, E. Gregori, F. Lombardi				
1997 CO ₅	1997 02 06.89913	09 08 17.13	+18 13 36.9	16.9 V 587	0.50-m <i>f</i> /2.8 Ritchey-Chrétien + CCD				
1997 CO ₅	1997 02 06.90399	09 08 16.65	+18 13 30.0	587	GSC				
1997 CC ₆	* 1997 02 06.89329	09 35 20.23	+18 03 04.4	17.5 V 587	1977 QF ₁	1997 01 31.96454	11 28 32.51	+09 31 36.0	17.5 V 589
1997 CC ₆	1997 02 06.91627	09 35 19.25	+18 03 18.0	587	1977 QF ₁	1997 01 31.97676	11 28 32.08	+09 31 37.4	589

1977 QF ₁	1997 01 31.98970	11 28 31.66	+09 31 38.2		589
1991 PT ₁₄	1996 11 09.09147	09 08 42.00	+14 41 29.8	19.0 V	589
1991 PT ₁₄	1996 11 09.10240	09 08 42.74	+14 41 28.7		589
1991 PT ₁₄	1996 11 09.11081	09 08 43.27	+14 41 26.2		589
1995 OA	1997 01 12.93604	09 22 23.15	+09 18 41.6	16.6 V	589
1995 OA	1997 01 12.94502	09 22 22.70	+09 18 41.3		589
1995 OA	1997 01 27.85268	09 08 07.90	+09 26 28.4	16.9 V	589
1995 OA	1997 01 27.86180	09 08 07.24	+09 26 29.6		589
1995 OB ₁	1997 01 07.97414	06 03 14.89	+24 54 13.5	19.9 V	589
1995 OB ₁	1997 01 07.99547	06 03 13.65	+24 54 14.1		589
1995 OB ₁	1997 01 08.00787	06 03 12.90	+24 54 11.1		589
1995 OB ₁	1997 01 14.79497	05 57 18.73	+24 41 26.6	19.8 V	589
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1995 SX	1997 01 12.90237	08 07 38.75	+10 59 52.2	18.7 V	589
1995 SX	1997 01 12.91213	08 07 38.14	+10 59 54.4		589
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1995 SX	1997 01 27.82018	07 52 31.91	+11 56 01.9		589
1995 SX	1997 01 27.83049	07 52 31.26	+11 56 05.2		589
1995 SX	1997 01 30.90594	07 49 35.28	+12 09 14.0	17.3 V	589
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1995 SQ ₂	1997 01 12.88452	06 28 03.83	+17 04 11.0	19.8 V	589
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1995 SQ ₂	1997 01 15.77915	06 25 29.22	+17 00 55.7	19.9 V	589
1995 SQ ₂	1997 01 15.79976	06 25 27.99	+17 00 55.6		589
1995 SQ ₂	1997 01 15.85125	06 25 25.36	+17 00 51.4		589
1995 SQ ₂	1997 01 15.88214	06 25 23.71	+17 00 49.9		589
1995 SQ ₂	1997 01 15.90274	06 25 22.55	+17 00 48.2		589
1995 SQ ₂	1997 01 15.93363	06 25 20.96	+17 00 45.5		589
1995 SQ ₂	1997 01 30.85201	06 14 32.60	+16 48 40.7	20.0 V	589
1995 SQ ₂	1997 01 30.86422	06 14 32.14	+16 48 40.5		589
1995 SQ ₂	1997 01 30.87474	06 14 31.67	+16 48 39.5		589
1995 SQ ₂	1997 01 30.88949	06 14 31.26	+16 48 38.9		589
1997 BH ₃	* 1997 01 30.95613	07 53 53.31	+10 47 05.3	17.0 V	589
1997 BH ₃	1997 01 30.96555	07 53 52.87	+10 47 09.1		589
1997 BH ₃	1997 01 30.97530	07 53 52.40	+10 47 12.7		589
1997 BH ₃	1997 01 31.77852	07 53 16.24	+10 52 33.1	16.9 V	589
1997 BH ₃	1997 01 31.79256	07 53 15.58	+10 52 39.6		589
1997 BH ₃	1997 01 31.80286	07 53 15.14	+10 52 43.7		589
1997 BH ₃	1997 01 31.81316	07 53 14.66	+10 52 47.9		589
(2165)	1997 01 07.91856	06 02 52.74	+24 50 48.3	15.0 V	589
(2165)	1997 01 07.97414	06 02 49.93	+24 50 48.1		589
(2165)	1997 01 07.99547	06 02 48.89	+24 50 48.1		589
(2165)	1997 01 08.00787	06 02 48.24	+24 50 48.0		589
(5309)	1997 01 15.85125	06 25 30.51	+16 59 02.8	17.5 V	589
(5309)	1997 01 15.90274	06 25 27.51	+16 59 07.5		589
(5309)	1997 01 15.93363	06 25 25.68	+16 59 10.8		589

(7356)	1997 01 12.81914	02 31 44.02	+28 00 48.9	18.2 V	589
(7356)	1997 01 12.83319	02 31 44.30	+28 00 44.9		589
(7356)	1997 01 12.84349	02 31 44.49	+28 00 42.4		589
(7356)	1997 01 12.85380	02 31 44.73	+28 00 40.5		589
(7356)	1997 01 13.85008	02 32 07.35	+27 56 38.2	18.2 V	589
(7356)	1997 01 13.86001	02 32 07.63	+27 56 35.3		589
(7356)	1997 01 13.86687	02 32 07.76	+27 56 34.4		589

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[ccaf@quark.it]

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

Measurers L. Drigo, E. Pettarin, G. Lombardi, A. Toso

0.4-m f/4.5 reflector + CCD

GSC

1986 AJ	1997 01 14.85339	07 33 35.68	+20 05 08.8	15.6 V	595
1986 AJ	1997 01 14.86810	07 33 34.28	+20 05 01.2		595
1995 JG	1997 01 29.81054	01 46 43.22	+24 19 59.4		595
1995 JG	1997 01 29.82968	01 46 44.93	+24 20 11.2		595
1995 JG	1997 01 30.78072	01 48 11.05	+24 31 21.5	18.8 V	595
1995 JG	1997 01 30.79164	01 48 12.14	+24 31 29.5		595
1996 VD ₃	1997 01 27.91625	04 27 56.49	+19 55 49.7		595
1996 VD ₃	1997 01 28.76803	04 28 00.99	+19 56 20.7		595
1996 VD ₃	1997 01 28.94227	04 28 01.79	+19 56 28.4	17.6 V	595
1997 AQ ₁₇	1997 01 27.82060	07 48 23.19	+20 24 45.1		595
1997 AQ ₁₇	1997 01 27.84770	07 48 21.67	+20 24 47.5		595
1997 AQ ₁₇	1997 01 28.87333	07 47 26.36	+20 25 52.1	17.5 V	595
1997 AQ ₁₇	1997 01 28.88889	07 47 25.41	+20 25 53.8		595
1997 AR ₁₇	1997 01 27.86774	07 15 48.29	+20 27 06.4		595
1997 AR ₁₇	1997 01 27.88284	07 15 47.42	+20 27 07.4		595
1997 AR ₁₇	1997 01 28.86867	07 14 48.44	+20 28 27.4		595
1997 AR ₁₇	1997 01 28.88480	07 14 47.45	+20 28 28.3	18.1 V	595
1997 AS ₁₇	1997 01 27.82619	07 20 05.05	+22 46 07.2		595
1997 AS ₁₇	1997 01 27.83887	07 20 04.29	+22 46 09.1	17 V	595
1997 AS ₁₇	1997 01 28.87862	07 19 02.95	+22 49 32.4		595
1997 AS ₁₇	1997 01 28.90485	07 19 01.36	+22 49 37.5		595
1997 AO ₁₈	1997 01 28.90024	07 21 59.29	+26 13 09.7	18.7 V	595
1997 AO ₁₈	1997 01 28.91484	07 21 58.50	+26 13 14.8		595
1997 AO ₁₈	1997 01 28.92943	07 21 57.70	+26 13 19.8		595
1997 AO ₁₈	1997 01 29.91112	07 21 03.93	+26 17 55.1		595
1997 AO ₁₈	1997 01 29.96948	07 21 00.44	+26 18 11.2		595
1997 AP ₁₈	1997 01 28.92637	07 22 28.85	+25 47 10.2	18.7 V	595
1997 AP ₁₈	1997 01 28.93782	07 22 28.32	+25 47 11.4		595
1997 AP ₁₈	1997 01 29.94468	07 21 31.33	+25 49 48.1		595
1997 AP ₁₈	1997 01 29.96286	07 21 30.37	+25 49 50.3		595
1997 AQ ₁₈	1997 01 26.86155	07 25 16.08	+17 32 29.8		595
1997 AQ ₁₈	1997 01 26.88538	07 25 11.86	+17 32 08.8	18.2 V	595
1997 AQ ₁₈	1997 01 26.92770	07 25 04.70	+17 31 36.2		595
1997 AQ ₁₈	1997 01 27.80400	07 22 41.70	+17 20 16.3		595
1997 AQ ₁₈	1997 01 27.80917	07 22 40.85	+17 20 11.8		595
1997 AQ ₁₈	1997 01 28.82044	07 20 01.66	+17 07 23.5		595
1997 AQ ₁₈	1997 01 28.82728	07 20 00.62	+17 07 17.8		595
1997 AQ ₁₈	1997 01 28.84170	07 19 58.26	+17 07 07.4		595

1997 BE ₂	1997 01 28.81351	07 20 02.13	+17 10 01.4		595
1997 BE ₂	* 1997 01 28.84170	07 20 00.87	+17 10 11.2	18.1 V	595
1997 BE ₂	1997 01 29.90560	07 19 17.86	+17 16 18.8		595
1997 BE ₂	1997 01 29.92645	07 19 16.89	+17 16 26.8		595
1997 BF ₂	1997 01 28.87333	07 47 07.29	+20 22 34.1	18 V	595
1997 BF ₂	* 1997 01 28.89669	07 47 05.72	+20 22 29.9		595
1997 BF ₂	1997 01 29.90225	07 46 02.87	+20 18 39.4		595
1997 BF ₂	1997 01 29.92193	07 46 01.63	+20 18 34.9		595

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0.40-m $f/2.95$ reflector + CCD

GSC

1985 RU ₂	1997 02 09.90160	10 49 56.68	+10 47 16.4	17.7 V	596
1985 RU ₂	1997 02 09.92275	10 49 55.45	+10 47 23.5		596
1985 RU ₂	1997 02 09.93829	10 49 54.59	+10 47 28.2		596
1985 RU ₂	1997 02 10.86256	10 49 02.54	+10 52 22.9		596
1985 RU ₂	1997 02 10.89684	10 49 00.51	+10 52 32.5		596
1985 RU ₂	1997 02 10.91579	10 48 59.45	+10 52 39.6		596
1985 RA ₄	1997 02 09.87611	10 49 32.37	+10 47 31.0	17.6 V	596
1985 RA ₄	1997 02 09.90160	10 49 31.17	+10 47 36.2		596
1985 RA ₄	1997 02 09.92275	10 49 30.13	+10 47 40.8		596
1985 RA ₄	1997 02 10.86256	10 48 45.31	+10 50 35.9		596
1985 RA ₄	1997 02 10.89684	10 48 43.64	+10 50 42.5		596
1985 RA ₄	1997 02 10.91579	10 48 42.67	+10 50 45.2		596
1997 AB ₂	1997 02 07.80759	07 54 42.48	+29 13 24.5	17.8 V	596
1997 AB ₂	1997 02 07.81722	07 54 41.94	+29 13 29.8		596
1997 AB ₂	1997 02 07.82432	07 54 41.59	+29 13 31.3		596
1997 AB ₂	1997 02 08.79503	07 53 52.67	+29 19 35.4		596
1997 AB ₂	1997 02 08.80766	07 53 51.97	+29 19 38.5		596
1997 AB ₂	1997 02 08.81850	07 53 51.52	+29 19 43.2		596
1997 AB ₂	1997 02 09.76976	07 53 04.80	+29 25 28.1	17.3 V	596
1997 AB ₂	1997 02 09.78006	07 53 04.32	+29 25 32.1		596
1997 AB ₂	1997 02 09.79036	07 53 03.80	+29 25 35.0		596
1997 AO ₁₇	1997 02 06.75894	07 57 22.64	+30 11 02.6	18.9 V	596
1997 AO ₁₇	1997 02 06.77053	07 57 21.98	+30 11 07.0		596
1997 AO ₁₇	1997 02 06.78711	07 57 21.18	+30 11 13.5		596
1997 AP ₁₇	1997 01 27.82748	08 09 22.98	+27 12 38.3	17.7 V	596
1997 AP ₁₇	1997 01 27.84182	08 09 22.17	+27 12 44.7		596
1997 AP ₁₇	1997 01 27.85174	08 09 21.70	+27 12 47.1		596
1997 AP ₁₇	1997 01 27.85994	08 09 21.16	+27 12 46.2		596
1997 AP ₁₇	1997 02 06.79817	08 00 56.25	+27 54 21.5	18.7 V	596
1997 AP ₁₇	1997 02 06.80847	08 00 55.58	+27 54 22.5		596
1997 AP ₁₇	1997 02 06.81877	08 00 55.18	+27 54 25.7		596
1997 BR	1997 01 31.85348	10 07 39.99	+31 24 42.2	16.6 V	596
1997 BR	1997 01 31.86988	10 07 39.10	+31 25 33.3		596
1997 BY ₆	* 1997 01 30.76058	07 59 55.10	+28 23 06.6	17.5 V	596
1997 BY ₆	1997 01 30.79049	07 59 53.07	+28 23 02.3		596
1997 BY ₆	1997 01 30.79750	07 59 52.64	+28 23 01.1		596
1997 BY ₆	1997 01 30.81041	07 59 51.85	+28 23 00.0		596
1997 BY ₆	1997 01 31.81635	07 58 49.54	+28 20 04.6	17.3 V	596
1997 BY ₆	1997 01 31.83442	07 58 48.32	+28 20 01.2		596

1997 BY ₆	1997 01 31.84207	07 58 47.87	+28 20 00.3		596
1997 BZ ₆	* 1997 01 31.75655	08 01 20.27	+29 23 59.4		596
1997 BZ ₆	1997 01 31.76807	08 01 19.41	+29 24 00.5		596
1997 BZ ₆	1997 01 31.79931	08 01 17.33	+29 23 58.2		596
1997 BZ ₆	1997 02 01.75082	08 00 15.25	+29 23 11.1	17.8 V	596
1997 BZ ₆	1997 02 01.76405	08 00 14.37	+29 23 09.8		596
1997 BZ ₆	1997 02 01.77502	08 00 13.66	+29 23 08.4		596
1997 BZ ₆	1997 02 07.80759	07 54 07.14	+29 14 41.0	17.7 V	596
1997 BZ ₆	1997 02 07.81722	07 54 06.56	+29 14 39.4		596
1997 BZ ₆	1997 02 07.82432	07 54 06.10	+29 14 40.2		596
1997 CA ₆	* 1997 02 01.81199	08 01 36.64	+26 56 33.0	18.5 V	596
1997 CA ₆	1997 02 01.82649	08 01 35.79	+26 56 34.2		596
1997 CA ₆	1997 02 07.75883	07 56 20.02	+27 02 51.7	17.7 V	596
1997 CA ₆	1997 02 07.77237	07 56 19.32	+27 02 52.1		596
1997 CA ₆	1997 02 07.78822	07 56 18.53	+27 02 53.6		596
1997 CB ₆	* 1997 02 06.85256	09 08 26.16	+12 33 11.9	17.6 V	596
1997 CB ₆	1997 02 06.86286	09 08 25.51	+12 33 15.0		596
1997 CB ₆	1997 02 06.87316	09 08 24.93	+12 33 19.0		596
1997 CB ₆	1997 02 06.88491	09 08 24.23	+12 33 23.2		596
1997 CB ₆	1997 02 07.83867	09 07 30.21	+12 38 24.3	17.7 V	596
1997 CB ₆	1997 02 07.84897	09 07 29.55	+12 38 28.3		596
1997 CB ₆	1997 02 07.87464	09 07 28.00	+12 38 35.7		596
1997 CB ₆	1997 02 08.85465	09 06 32.83	+12 43 47.2	17.4 V	596
1997 CB ₆	1997 02 08.86495	09 06 32.23	+12 43 49.6		596
1997 CB ₆	1997 02 08.87525	09 06 31.67	+12 43 54.1		596
1997 CT ₁₆	* 1997 02 09.85266	10 49 12.87	+10 50 34.4	17.9 V	596
1997 CT ₁₆	1997 02 09.87611	10 49 11.75	+10 50 43.6		596
1997 CT ₁₆	1997 02 09.90160	10 49 10.45	+10 50 56.8		596
1997 CT ₁₆	1997 02 09.92275	10 49 09.39	+10 51 06.4		596
1997 CT ₁₆	1997 02 10.87979	10 48 22.71	+10 58 44.2		596
1997 CT ₁₆	1997 02 10.89684	10 48 21.85	+10 58 53.3		596
1997 CT ₁₆	1997 02 10.91579	10 48 20.74	+10 59 02.8		596

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Observers A. Boattini, A. Di Paola, F. Pedichini, A. Di Clemente, V. S. Casulli,

A. Vagnozzi, T. Scacciafrotte, V. Risoldi

Measurers A. Boattini, G. Forti, V. S. Casulli, A. Vagnozzi

0.60-m $f/3$ Schmidt + CCD

1988 RA ₁₁	1997 01 14.84340	08 02 14.61	+20 09 50.8	19.0 V	599
1988 RA ₁₁	1997 01 14.85278	08 02 14.19	+20 09 52.4		599
1988 RA ₁₁	1997 01 15.87269	08 01 25.34	+20 12 54.2	18.6 V	599
1988 RA ₁₁	1997 01 15.88889	08 01 24.64	+20 12 58.1		599
1990 UP ₁₁	1997 01 16.97188	08 15 36.93	+25 35 18.9	16.6 V	599
1990 UP ₁₁	1997 01 16.99514	08 15 35.58	+25 35 24.5		599
1992 UU ₂	1997 01 14.88032	10 29 28.70	+19 14 41.3		599
1992 UU ₂	1997 01 14.88549	10 29 28.56	+19 14 44.3		599
1994 PC ₁	1997 01 16.79630	03 30 26.34	-23 40 42.0	13.2 V	599
1994 PC ₁	1997 01 16.79815	03 30 24.28	-23 40 06.3	13.0 V	599
1994 RB ₁	1997 01 17.19491	13 41 35.03	-15 47 06.4	19.0 V	599
1995 OB ₁	1997 01 14.76620	05 57 20.14	+24 41 30.8		599
1995 UL	1997 01 16.97188	08 15 23.69	+25 54 25.8	17.2 V	599

1995 UL	1997 01 16.99514	08 15 22.24	+25 54 29.6		599
1996 OO ₂	1997 01 13.78958	03 52 09.37	+32 46 45.0	17.9 V	599
1996 OO ₂	1997 01 13.82645	03 52 09.36	+32 46 34.0		599
1997 AD ₆	1997 01 14.80775	07 30 44.67	+22 51 54.3	20.1 V	599
1997 AD ₆	1997 01 14.82523	07 30 43.31	+22 52 02.9		599
1997 AD ₆	1997 01 15.85440	07 29 33.65	+22 57 16.0	19.6 V	599
1997 AD ₆	1997 01 15.86574	07 29 32.86	+22 57 22.9		599
1997 AH ₆	1997 01 15.85440	07 30 07.65	+22 48 38.6	19.4 V	599
1997 AH ₆	1997 01 15.86574	07 30 06.86	+22 48 40.9		599
1997 AA ₁₆	1997 01 14.83549	07 59 35.69	+19 40 20.5	19.4 V	599
1997 AA ₁₆	1997 01 14.85278	07 59 34.77	+19 40 24.3		599
1997 AA ₁₆	1997 01 15.87269	07 58 39.67	+19 42 52.3	18.8 V	599
1997 AA ₁₆	1997 01 15.88889	07 58 38.73	+19 42 54.9		599
1997 AB ₁₆	1997 01 14.85278	08 00 07.40	+19 42 24.2		599
1997 AB ₁₆	1997 01 15.87269	07 59 02.38	+19 44 38.9	17.8 V	599
1997 AB ₁₆	1997 01 15.88889	07 59 01.30	+19 44 41.4		599
1997 AC ₁₆	1997 01 14.83549	08 00 33.52	+19 56 05.2	19.7 V	599
1997 AC ₁₆	1997 01 14.85278	08 00 32.44	+19 56 13.6		599
1997 AC ₁₆	1997 01 15.87269	07 59 27.17	+20 03 23.3	18.9 V	599
1997 AC ₁₆	1997 01 15.88889	07 59 26.09	+20 03 30.1		599
1997 AU ₁₆	1997 01 16.98009	08 16 57.02	+29 12 21.5	17.3 V	599
1997 AU ₁₆	1997 01 17.00480	08 16 55.47	+29 12 53.3		599
1997 AP ₁₇	1997 01 16.97188	08 19 06.72	+26 16 11.9	17.8 V	599
1997 AP ₁₇	1997 01 16.99514	08 19 05.43	+26 16 19.5		599
1997 AQ ₁₇	1997 01 14.84340	08 00 41.27	+20 08 37.7	18.6 V	599
1997 AQ ₁₇	1997 01 14.85278	08 00 40.71	+20 08 38.9		599
1997 AQ ₁₇	1997 01 15.87269	07 59 41.62	+20 10 05.1	18.8 V	599
1997 AQ ₁₇	1997 01 15.88889	07 59 40.68	+20 10 06.2		599
1997 AH ₁₈	1997 01 14.80775	07 32 48.29	+22 38 40.6	18.5 V	599
1997 AH ₁₈	1997 01 14.82523	07 32 47.13	+22 38 48.3		599
1997 AH ₁₈	1997 01 15.85440	07 31 37.28	+22 44 07.3	18.1 V	599
1997 AH ₁₈	1997 01 15.86574	07 31 36.47	+22 44 10.1		599
1997 AY ₂₁	1997 01 14.83549	08 01 09.77	+19 35 12.7	19.0 V	599
1997 AY ₂₁	1997 01 14.85278	08 01 08.63	+19 35 17.7		599
1997 AY ₂₁	1997 01 15.87269	08 00 06.15	+19 41 23.5	18.7 V	599
1997 AY ₂₁	1997 01 15.88889	08 00 05.13	+19 41 29.9		599
1997 AH ₂₂	* 1997 01 14.80775	07 31 36.02	+22 39 15.9	18.0 V	599
1997 AH ₂₂	1997 01 14.82523	07 31 34.98	+22 39 15.2		599
1997 AH ₂₂	1997 01 15.85440	07 30 34.04	+22 37 14.5	18.5 V	599
1997 AH ₂₂	1997 01 15.86574	07 30 33.32	+22 37 13.1		599
1997 AJ ₂₂	* 1997 01 14.80775	07 33 10.57	+22 56 26.4	19.6 V	599
1997 AJ ₂₂	1997 01 14.82523	07 33 09.43	+22 56 33.2		599
1997 AJ ₂₂	1997 01 15.85440	07 32 09.93	+23 01 11.9	19.7 V	599
1997 AJ ₂₂	1997 01 15.86574	07 32 09.21	+23 01 13.5		599
1997 AK ₂₂	* 1997 01 14.83549	08 01 44.70	+19 33 44.3	19.5 V	599
1997 AK ₂₂	1997 01 14.85278	08 01 43.79	+19 33 51.9		599
1997 AK ₂₂	1997 01 15.87269	08 00 46.01	+19 41 04.7	18.5 V	599
1997 AK ₂₂	1997 01 15.88889	08 00 45.03	+19 41 11.7		599
(427)	1997 01 14.80775	07 32 41.07	+22 26 52.5	14.5 V	599
(427)	1997 01 14.82523	07 32 40.13	+22 26 55.0		599
(427)	1997 01 15.85440	07 31 43.47	+22 27 42.2	14.7 V	599
(427)	1997 01 15.86574	07 31 42.84	+22 27 42.0		599

(1091)	1997 01 14.80775	07 32 47.43	+22 36 26.6	15.0 V	599
(1091)	1997 01 14.82523	07 32 46.58	+22 36 30.4		599
(1091)	1997 01 15.85440	07 31 55.47	+22 38 37.0	15.0 V	599
(2165)	1997 01 14.75382	05 57 47.40	+24 49 39.7	17.0 V	599
(2165)	1997 01 14.76250	05 57 47.03	+24 49 40.1		599
(2165)	1997 01 14.76620	05 57 46.88	+24 49 40.1		599
(3186)	1997 01 15.87269	07 59 16.18	+19 40 31.3	17.2 V	599
(3186)	1997 01 15.88889	07 59 15.25	+19 40 34.1		599
(3649)	1997 01 14.84340	08 02 25.41	+20 11 48.2	17.5 V	599
(3649)	1997 01 14.85278	08 02 24.94	+20 11 51.5		599
(6500)	1997 01 13.76279	02 30 18.48	-22 56 28.1	15.5 V	599
(6500)	1997 01 13.78361	02 30 20.44	-22 56 13.7		599

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0.2-m *f*/10 Schmidt-Cassegrain + CCD

GSC

1994 PC ₁	1997 01 21.73449	01 49 15.61	+10 59 54.4	13.3 R	605
1994 PC ₁	1997 01 21.73669	01 49 12.54	+11 00 55.6	13.4 R	605
1994 PC ₁	1997 01 21.73860	01 49 09.90	+11 01 49.8	13.5 R	605
1994 PC ₁	1997 01 21.74500	01 49 01.01	+11 04 49.1	13.4 R	605
1994 PC ₁	1997 01 22.72259	01 26 58.31	+18 25 49.5	13.9 R	605
1994 PC ₁	1997 01 22.72480	01 26 55.18	+18 26 47.0	13.8 R	605
1994 PC ₁	1997 01 22.73140	01 26 46.08	+18 29 36.9	13.9 R	605
1994 PC ₁	1997 01 22.73447	01 26 41.85	+18 30 55.4	13.8 R	605
(529)	1997 02 01.80502	04 14 53.78	+25 59 32.4	14.5 R	605
(529)	1997 02 01.82588	04 14 54.15	+25 59 35.0	14.4 R	605
(529)	1997 02 01.83600	04 14 54.32	+25 59 36.0	14.4 R	605

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

1.2-m reflector + CCD

1988 JB ₁	1997 01 08.30836	03 54 14.97	-03 44 42.2	21.3 R	608
1988 JB ₁	1997 01 08.34244	03 54 14.26	-03 44 34.3	21.0 R	608
1988 JB ₁	1997 01 10.31118	03 53 35.72	-03 36 51.4	20.2 R	608
1988 JB ₁	1997 01 10.36270	03 53 34.77	-03 36 39.3	20.4 R	608
1991 VH	1997 02 10.49995	12 13 26.76	+10 01 20.6	16.3 R	608
1991 VH	1997 02 10.53963	12 13 26.30	+10 02 59.9	16.3 R	608
1992 CC ₁	1997 02 10.51224	12 38 49.73	+03 45 53.1	17.0 R	608
1992 CC ₁	1997 02 10.55305	12 38 45.36	+03 45 30.1	17.2 R	608
1992 CC ₁	1997 02 12.46431	12 35 18.26	+03 27 30.3	17.1 R	608
1992 CC ₁	1997 02 12.50019	12 35 14.12	+03 27 10.4	17.1 R	608
1992 NA	1997 02 10.46474	08 34 46.33	+28 41 19.0	20.1 R	608
1992 NA	1997 02 10.50481	08 34 43.28	+28 41 17.7	19.7 R	608
1992 TC	1996 12 18.32340	07 06 46.71	+24 01 47.0	17.4 R	608
1992 TC	1996 12 18.37180	07 06 41.20	+24 02 35.9	17.6 R	608
1992 TC	1997 01 18.36262	06 16 31.53	+29 44 44.8	18.4 R	608

1992 TC	1997 01 18.38796	06 16 29.91	+29 44 52.8	18.6 R	608	1997 CY ₁	1997 02 05.35434	10 17 52.03	+18 13 23.1	20.8 R	608
1994 PC	1997 01 15.32495	05 19 39.22	+12 59 40.6	16.8 R	608	1997 CY ₁	1997 02 06.34822	10 16 12.92	+18 11 30.9	21.0 R	608
1994 PC	1997 01 15.37390	05 19 40.24	+13 01 02.1	17.0 R	608	1997 CY ₁	1997 02 06.38748	10 16 08.89	+18 11 26.5	21.0 R	608
1994 PC	1997 01 21.33082	05 23 14.56	+15 33 38.5	17.6 R	608	1997 CY ₁	1997 02 07.34019	10 14 32.33	+18 09 32.4	21.1 R	608
1994 PC	1997 01 21.38313	05 23 16.46	+15 34 52.5	17.6 R	608	1997 CY ₁	1997 02 07.39809	10 14 26.24	+18 09 25.7	20.8 R	608
1994 PC	1997 02 07.31570	05 40 33.26	+20 54 38.7	17.6 R	608	1997 CR ₃	1997 02 07.34019	10 14 12.41	+18 15 01.1	19.2 R	608
1994 PC	1997 02 07.34842	05 40 35.60	+20 55 07.1	17.5 R	608	1997 CR ₃	1997 02 07.39809	10 14 08.54	+18 14 55.4	19.1 R	608
1995 OD	1996 12 18.32340	07 06 43.46	+24 05 39.1	18.0 R	608	1997 CZ ₃	1997 02 05.35837	08 22 32.50	+20 25 01.8	20.7 R	608
1995 OD	1996 12 18.37180	07 06 40.41	+24 05 43.5	18.4 R	608	1997 CZ ₃	1997 02 05.40026	08 22 26.94	+20 25 05.6	20.7 R	608
1995 QJ ₃	1997 01 09.33387	05 56 11.73	+03 49 16.4	18.2 R	608	1997 CO ₅	1997 02 07.35306	09 07 33.54	+18 02 49.3	17.4 R	608
1995 QJ ₃	1997 01 09.37340	05 56 10.00	+03 49 22.5	18.2 R	608	1997 CO ₅	1997 02 07.40205	09 07 28.56	+18 01 39.4	17.4 R	608
1995 QJ ₃	1997 01 15.33482	05 52 08.52	+04 07 40.2	18.3 R	608	1997 CZ ₅	1997 02 08.29006	04 29 55.69	+19 17 40.2	15.1 R	608
1995 QJ ₃	1997 01 15.38489	05 52 06.55	+04 07 50.9	18.3 R	608	1997 CZ ₅	1997 02 08.33852	04 30 02.83	+19 16 16.3	15.2 R	608
1995 QJ ₃	1997 01 18.34475	05 50 21.87	+04 18 37.6	18.1 R	608	1997 CE ₈	1997 02 08.29662	09 19 44.25	+12 54 12.4	17.4 R	608
1995 QJ ₃	1997 01 18.38076	05 50 20.56	+04 18 45.8	18.2 R	608	1997 CE ₈	1997 02 08.34127	09 19 41.49	+12 54 32.4	17.0 R	608
1995 QJ ₃	1997 01 25.31644	05 46 59.08	+04 47 46.5	18.2 R	608	(880)	1997 01 11.38594	07 06 33.54	+12 44 57.0	15.3 R	608
1995 QJ ₃	1997 01 25.36032	05 46 57.93	+04 47 58.8	18.1 R	608	(880)	1997 01 11.42802	07 06 31.03	+12 44 52.6	15.6 R	608
1995 QJ ₃	1997 01 31.32568	05 44 57.94	+05 16 19.6	18.6 R	608	(998)	1997 01 18.37563	07 43 18.27	+23 59 02.3	15.2 R	608
1995 QJ ₃	1997 01 31.37698	05 44 57.04	+05 16 34.9	18.7 R	608	(998)	1997 01 18.40922	07 43 16.22	+23 58 58.6	15.5 R	608
1995 QJ ₃	1997 02 01.31289	05 44 43.03	+05 21 15.5	18.5 R	608	(1205)	1996 12 18.34825	07 36 37.05	+36 13 03.2	16.6 R	608
1995 QJ ₃	1997 02 01.36183	05 44 42.26	+05 21 30.1	18.5 R	608	(1205)	1996 12 18.38787	07 36 34.51	+36 13 16.2	16.8 R	608
1995 TQ	1997 01 09.33758	08 39 20.12	+03 25 16.9	17.5 R	608	(1205)	1997 01 11.38829	07 06 57.20	+37 28 39.6	16.8 R	608
1995 TQ	1997 01 09.37881	08 39 18.17	+03 25 16.0	17.7 R	608	(1205)	1997 01 11.43037	07 06 53.91	+37 28 40.7	16.9 R	608
1995 TQ	1997 01 11.37279	08 37 45.93	+03 24 47.0	17.4 R	608	(1205)	1997 01 18.37402	06 58 38.58	+37 26 07.4	16.8 R	608
1995 TQ	1997 01 11.41484	08 37 43.89	+03 24 46.6	17.5 R	608	(1205)	1997 01 18.40765	06 58 36.23	+37 26 05.0	16.8 R	608
1995 TQ	1997 01 18.35210	08 32 05.10	+03 27 30.7	16.5 R	608	(1627)	1997 02 04.35976	08 25 16.20	+18 06 23.0	15.8 R	608
1995 TQ	1997 01 18.39152	08 32 03.16	+03 27 31.9	17.8 R	608	(1627)	1997 02 04.38707	08 25 14.07	+18 06 34.8	15.8 R	608
1995 TQ	1997 01 21.32783	08 29 34.37	+03 30 41.3	17.7 R	608	(1627)	1997 02 06.35108	08 22 46.94	+18 20 26.8	15.8 R	608
1995 TQ	1997 01 21.37947	08 29 31.68	+03 30 44.9	17.7 R	608	(1627)	1997 02 06.39040	08 22 43.93	+18 20 43.3	15.8 R	608
1995 TQ	1997 01 25.32757	08 26 09.57	+03 36 45.0	17.4 R	608	(1627)	1997 02 07.33437	08 21 34.35	+18 27 17.1	15.9 R	608
1995 TQ	1997 01 25.37548	08 26 07.10	+03 36 50.2	17.2 R	608	(1627)	1997 02 07.39220	08 21 29.98	+18 27 41.2	15.8 R	608
1995 TQ	1997 01 31.33684	08 21 04.00	+03 49 21.9	17.5 R	608	(1634)	1996 12 17.32281	01 41 24.15	+02 37 55.3	16.8 R	608
1995 TQ	1997 01 31.38793	08 21 01.38	+03 49 29.1	17.5 R	608	(1634)	1996 12 17.36878	01 41 24.52	+02 38 12.5	17.0 R	608
1995 TQ	1997 02 01.32817	08 20 14.50	+03 51 48.6	17.5 R	608	(1703)	1996 12 17.31160	00 38 57.01	-01 56 31.6	16.1 R	608
1995 TQ	1997 02 01.37705	08 20 12.01	+03 51 56.1	17.5 R	608	(1703)	1996 12 17.35673	00 38 59.70	-01 56 05.1	15.7 R	608
1995 VL ₂	1997 02 10.45067	13 00 08.13	-11 46 15.0	18.7 R	608	(1864)	1997 02 11.50546	10 43 18.99	+35 48 23.2	17.4 R	608
1995 VL ₂	1997 02 10.53684	13 00 07.97	-11 46 24.6	18.6 R	608	(1864)	1997 02 11.52642	10 43 16.21	+35 48 32.4	17.7 R	608
1995 XX	1997 02 10.49703	11 47 26.61	+12 15 50.0	18.0 R	608	(1866)	1997 02 11.49510	13 42 51.38	+54 34 54.1	17.1 R	608
1995 XX	1997 02 10.53305	11 47 25.45	+12 15 57.9	18.0 R	608	(1866)	1997 02 11.51559	13 42 50.54	+54 35 12.8	17.2 R	608
1996 AO ₃	1997 01 15.35104	09 50 44.48	+07 10 37.2	17.0 R	608	(1916)	1997 02 12.45892	12 03 18.05	-03 30 21.5	19.8 R	608
1996 AO ₃	1997 01 15.40570	09 50 42.89	+07 10 40.6	16.9 R	608	(1916)	1997 02 12.49046	12 03 16.78	-03 30 21.6	19.7 R	608
1996 AO ₃	1997 01 24.37452	09 45 59.32	+07 23 54.3	16.4 R	608	(1917)	1997 02 11.51014	12 33 17.25	-10 53 02.5	19.5 R	608
1996 AO ₃	1997 01 24.39472	09 45 58.65	+07 23 57.3	16.7 R	608	(1917)	1997 02 11.52951	12 33 16.67	-10 52 55.7	19.4 R	608
1996 AO ₃	1997 01 31.34529	09 41 47.57	+07 38 17.3	16.9 R	608	(2212)	1997 01 30.38448	03 39 26.87	+30 48 19.9	18.7 R	608
1996 AO ₃	1997 01 31.39659	09 41 45.58	+07 38 24.6	16.6 R	608	(2212)	1997 01 30.39687	03 39 26.61	+30 48 17.3	18.6 R	608
1997 AM ₁	1997 02 04.36241	08 12 46.73	+25 12 43.4	18.7 R	608	(2212)	1997 02 05.32480	03 38 03.47	+30 25 55.6	18.4 R	608
1997 AM ₁	1997 02 04.37831	08 12 45.77	+25 12 46.8	18.8 R	608	(2212)	1997 02 05.36244	03 38 03.12	+30 25 47.4	18.3 R	608
1997 AB ₁₅	1997 02 06.38256	06 50 30.65	+37 38 19.9	18.7 R	608	(2212)	1997 02 06.32238	03 37 56.15	+30 22 30.2	18.5 R	608
1997 BR	1997 01 24.38101	10 12 13.14	+25 35 50.3	17.5 R	608	(2212)	1997 02 06.36204	03 37 55.87	+30 22 21.9	18.5 R	608
1997 BR	1997 01 24.40107	10 12 12.42	+25 36 42.8	17.6 R	608	(2212)	1997 02 07.30795	03 37 50.76	+30 19 14.0	18.3 R	608
1997 BJ ₅	1997 02 08.29662	09 19 38.93	+12 57 25.7	17.9 R	608	(2212)	1997 02 07.36504	03 37 50.46	+30 19 02.5	17.3 R	608
1997 BJ ₅	1997 02 08.34127	09 19 36.64	+12 57 31.0	17.8 R	608	(2368)	1997 01 18.35614	08 45 15.29	+15 28 49.8	18.0 R	608

(2368)	1997 01 18.39529	08 45 12.52	+15 28 57.4	18.3 R	608	(4878)	1996 12 11.35727	00 49 02.65	+06 02 38.4	17.8 R	608
(2368)	1997 02 12.43624	08 16 12.11	+16 45 08.1	18.7 R	608	(4954)	1997 02 11.49295	12 55 26.89	-02 18 01.4	16.3 R	608
(2368)	1997 02 12.47077	08 16 09.92	+16 45 13.4	18.7 R	608	(4954)	1997 02 11.51242	12 55 25.96	-02 18 04.6	16.5 R	608
(3089)	1997 01 09.32708	05 29 53.51	+23 55 28.5	16.6 R	608	(4957)	1997 01 15.33206	05 29 35.04	-13 55 58.7	17.3 R	608
(3089)	1997 01 09.36658	05 29 51.61	+23 55 34.5	16.7 R	608	(4957)	1997 01 15.38218	05 29 31.53	-13 56 23.6	17.3 R	608
(3089)	1997 01 15.32805	05 25 33.08	+24 10 26.5	16.4 R	608	(4957)	1997 02 05.32829	05 19 10.47	-14 44 00.9	17.5 R	608
(3089)	1997 01 15.37642	05 25 31.09	+24 10 33.4	16.4 R	608	(4957)	1997 02 05.36565	05 19 10.51	-14 43 56.0	17.0 R	608
(3103)	1997 02 11.53179	09 56 33.93	+27 25 38.1	15.5 R	608	(5065)	1996 12 18.32768	04 52 19.11	+33 06 40.5	16.7 R	608
(3103)	1997 02 11.53875	09 56 33.04	+27 25 51.9	15.5 R	608	(5065)	1996 12 18.37381	04 52 15.92	+33 06 34.7	16.6 R	608
(3122)	1997 02 04.34148	09 17 58.13	+34 23 51.0	16.1 R	608	(5066)	1996 12 10.33197	03 28 48.06	-11 46 05.9	17.9 R	608
(3122)	1997 02 04.38523	09 17 51.86	+34 23 33.5	16.1 R	608	(5066)	1996 12 10.37267	03 28 44.41	-11 45 13.8	18.1 R	608
(3671)	1997 02 11.50178	14 00 54.44	+10 12 35.7	19.2 R	608	(5066)	1997 01 10.30302	03 02 57.02	-00 09 19.8	18.8 R	608
(3671)	1997 02 11.52272	14 00 55.81	+10 12 42.5	18.9 R	608	(5066)	1997 01 10.34066	03 02 56.57	-00 08 31.4	16.7 R	608
(3838)	1997 01 18.37001	06 46 48.16	-15 45 18.6	20.1 R	608	(5066)	1997 01 15.31230	03 02 16.84	+01 39 33.8	18.4 R	608
(3838)	1997 01 18.39915	06 46 45.19	-15 45 14.1	19.8 R	608	(5066)	1997 01 15.36239	03 02 16.61	+01 40 38.2	18.4 R	608
(3838)	1997 02 04.34437	06 22 14.75	-14 13 16.6	20.2 R	608	(5131)	1997 01 11.35798	05 09 06.39	+00 39 17.7	17.9 R	608
(3838)	1997 02 04.38246	06 22 11.93	-14 12 58.8	20.4 R	608	(5131)	1997 01 15.32246	05 02 53.33	+01 46 08.9	18.2 R	608
(3838)	1997 02 05.34650	06 21 03.55	-14 05 16.8	19.8 R	608	(5131)	1997 01 15.37113	05 02 48.85	+01 46 59.0	18.2 R	608
(3838)	1997 02 05.38910	06 21 00.53	-14 04 56.1	20.1 R	608	(5131)	1997 01 25.29892	04 50 05.44	+04 41 25.3	18.0 R	608
(3858)	1997 01 15.31553	03 34 03.33	+30 31 39.3	18.0 R	608	(5131)	1997 01 25.34279	04 50 02.51	+04 42 11.9	17.8 R	608
(3858)	1997 01 15.36512	03 34 04.08	+30 31 27.6	18.3 R	608	(5131)	1997 01 31.31507	04 44 30.20	+06 28 36.3	18.2 R	608
(3908)	1997 01 09.32479	05 20 46.58	+20 41 20.7	16.9 R	608	(5131)	1997 02 01.30535	04 43 44.42	+06 46 10.7	18.5 R	608
(3908)	1997 01 09.36454	05 20 48.43	+20 41 17.1	16.7 R	608	(5131)	1997 02 01.34245	04 43 42.68	+06 46 49.9	18.5 R	608
(3908)	1997 01 15.33008	05 26 36.15	+20 34 44.6	17.5 R	608	(5131)	1997 02 08.31131	04 39 35.93	+08 49 21.3	18.6 R	608
(3908)	1997 01 15.37842	05 26 38.71	+20 34 42.8	17.5 R	608	(5131)	1997 02 08.38309	04 39 33.94	+08 50 36.1	18.4 R	608
(3908)	1997 01 18.33869	05 29 44.41	+20 33 04.7	17.7 R	608	(5389)	1996 12 18.34660	07 26 13.86	+32 44 30.5	16.4 R	608
(3908)	1997 01 18.37768	05 29 46.61	+20 33 03.4	17.5 R	608	(5389)	1996 12 18.38617	07 26 11.35	+32 44 44.7	16.6 R	608
(3908)	1997 01 21.33322	05 33 00.49	+20 32 14.4	17.5 R	608	(5389)	1997 01 11.38420	06 57 34.28	+34 25 32.9	16.7 R	608
(3908)	1997 01 21.38571	05 33 03.63	+20 32 13.4	17.7 R	608	(5389)	1997 01 11.42621	06 57 31.11	+34 25 38.1	16.3 R	608
(3908)	1997 01 25.30902	05 37 34.01	+20 32 06.0	17.4 R	608	(5389)	1997 01 15.35987	06 52 52.77	+34 32 07.5	16.1 R	608
(3908)	1997 01 25.35687	05 37 37.52	+20 32 05.5	12.5 R	608	(5389)	1997 01 15.41385	06 52 48.92	+34 32 11.4	16.0 R	608
(3908)	1997 02 01.31633	05 46 10.04	+20 33 32.4	17.6 R	608	(5389)	1997 01 18.37241	06 49 31.06	+34 35 05.3	16.1 R	608
(3908)	1997 02 01.36522	05 46 13.55	+20 33 37.0	17.5 R	608	(5389)	1997 01 18.40190	06 49 29.07	+34 35 06.6	16.4 R	608
(3908)	1997 02 08.32433	05 55 28.23	+20 35 45.9	18.1 R	608	(5587)	1997 02 04.35081	10 03 50.66	-08 49 15.8	17.9 R	608
(3908)	1997 02 08.39819	05 55 33.97	+20 35 46.1	18.3 R	608	(5587)	1997 02 04.39589	10 03 47.98	-08 49 03.1	18.3 R	608
(3988)	1997 02 08.32050	07 40 52.26	+01 35 18.9	21.2 R	608	(5587)	1997 02 08.32831	09 59 52.56	-08 27 51.1	17.9 R	608
(3988)	1997 02 08.39441	07 40 46.63	+01 35 51.3	21.3 R	608	(5587)	1997 02 08.40544	09 59 47.67	-08 27 23.4	18.4 R	608
(3988)	1997 02 10.45882	07 38 20.66	+01 51 20.4	20.8 R	608	(5587)	1997 02 10.47838	09 57 36.51	-08 14 11.0	17.7 R	608
(3988)	1997 02 10.49270	07 38 18.25	+01 51 36.0	20.8 R	608	(5587)	1997 02 10.52190	09 57 33.61	-08 13 53.9	18.6 R	608
(4055)	1997 02 04.36571	08 41 48.89	-03 00 52.4	18.4 R	608	(5587)	1997 02 12.44876	09 55 28.64	-08 00 21.5	17.5 R	608
(4055)	1997 02 04.39955	08 41 46.34	-03 00 25.4	18.3 R	608	(5587)	1997 02 12.48279	09 55 26.27	-08 00 05.8	17.7 R	608
(4055)	1997 02 06.35541	08 39 26.55	-02 34 22.5	18.6 R	608	(5693)	1997 02 04.35341	10 16 14.52	+20 13 09.6	16.9 R	608
(4055)	1997 02 06.39391	08 39 23.75	-02 33 51.0	18.1 R	608	(5693)	1997 02 04.40249	10 16 05.88	+20 14 05.0	16.9 R	608
(4055)	1997 02 07.33669	08 38 17.20	-02 21 01.1	18.1 R	608	(5693)	1997 02 07.33236	10 07 42.94	+21 05 42.4	17.2 R	608
(4055)	1997 02 07.39459	08 38 13.01	-02 20 14.1	18.2 R	608	(5693)	1997 02 07.39008	10 07 32.78	+21 06 42.0	16.6 R	608
(4179)	1997 02 06.31827	07 58 26.52	+20 43 04.5	14.9 R	608	(5693)	1997 02 12.44646	09 53 23.07	+22 24 39.7	17.0 R	608
(4179)	1997 02 06.35891	07 58 25.77	+20 43 08.0	15.0 R	608	(5693)	1997 02 12.47857	09 53 17.58	+22 25 06.4	17.2 R	608
(4179)	1997 02 07.30516	07 58 16.60	+20 44 16.1	14.5 R	608	(5828)	1997 01 11.39114	07 18 53.08	+08 51 04.7	19.6 R	608
(4179)	1997 02 07.36221	07 58 15.75	+20 44 21.0	14.7 R	608	(5828)	1997 01 11.43429	07 18 49.02	+08 51 25.8	19.7 R	608
(4329)	1996 12 18.32768	04 52 15.78	+33 10 09.7	16.1 R	608	(6490)	1996 12 10.32594	05 52 45.28	+33 11 58.3	19.4 R	608
(4329)	1996 12 18.37381	04 52 12.42	+33 10 04.2	16.2 R	608	(6490)	1996 12 10.38720	05 52 40.60	+33 11 44.2	19.0 R	608
(4878)	1996 12 11.31675	00 49 00.82	+06 02 35.4	17.5 R	608	(6523)	1996 12 10.30274	02 16 38.63	+48 32 12.0	20.1 R	608

(6523)	1996 12 10.35885	02 16 35.83	+48 31 46.5	20.3 R	608
(6569)	1997 02 10.51504	12 43 40.05	+31 37 27.5	19.3 R	608
(6569)	1997 02 10.55583	12 43 40.98	+31 38 35.5	18.8 R	608
(6569)	1997 02 12.46713	12 44 28.88	+32 31 52.3	18.4 R	608
(6569)	1997 02 12.50286	12 44 29.56	+32 32 51.9	19.2 R	608
(7304)	1996 12 17.33489	02 45 25.32	+05 13 00.9	19.1 R	608
(7304)	1996 12 17.38146	02 45 23.94	+05 13 02.7	19.5 R	608
(7335)	1996 12 10.29362	00 57 33.30	-01 36 20.8	20.4 R	608
(7335)	1996 12 10.34793	00 57 36.37	-01 35 05.3	20.6 R	608

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GSC

1987 QF ₃	1997 02 08.91272	09 27 43.91	+15 38 58.6		610
1987 QF ₃	1997 02 08.93711	09 27 42.48	+15 39 08.8		610
1987 QF ₃	1997 02 08.96265	09 27 40.98	+15 39 19.4		610
1987 QF ₃	1997 02 08.99087	09 27 39.32	+15 39 31.1		610
1997 BG ₈	* 1997 01 31.99486	09 33 13.02	+15 29 24.1	17.5 V	610
1997 BG ₈	1997 02 01.01644	09 33 11.57	+15 29 28.2		610
1997 BG ₈	1997 02 01.03003	09 33 10.66	+15 29 30.8		610
1997 BG ₈	1997 02 06.91105	09 26 28.73	+15 50 50.7		610
1997 BG ₈	1997 02 06.91777	09 26 28.22	+15 50 52.4		610
1997 BG ₈	1997 02 06.92729	09 26 27.51	+15 50 54.9		610
1997 BG ₈	1997 02 07.91916	09 25 18.31	+15 54 29.1	16.6 V	610
1997 BG ₈	1997 02 07.92192	09 25 18.12	+15 54 29.7		610
1997 BG ₈	1997 02 07.92632	09 25 17.81	+15 54 30.7		610
1997 BG ₈	1997 02 08.92200	09 24 08.27	+15 58 01.9	16.5 V	610
1997 BG ₈	1997 02 08.95002	09 24 06.23	+15 58 08.0		610
1997 BG ₈	1997 02 08.97689	09 24 04.26	+15 58 13.8		610
1997 BG ₈	1997 02 09.01178	09 24 01.71	+15 58 21.4		610
1997 BG ₈	1997 02 09.94411	09 22 56.65	+16 01 39.1	16.7 V	610
1997 BG ₈	1997 02 09.95892	09 22 55.58	+16 01 42.1		610
1997 BG ₈	1997 02 09.97299	09 22 54.57	+16 01 44.9		610
1997 BG ₈	1997 02 09.98888	09 22 53.43	+16 01 48.1		610
1997 BG ₈	1997 02 10.89049	09 21 50.55	+16 04 56.3		610
1997 BG ₈	1997 02 10.89653	09 21 50.12	+16 04 57.6		610
1997 BG ₈	1997 02 10.91462	09 21 48.84	+16 05 01.5		610
1997 BG ₈	1997 02 10.92394	09 21 48.18	+16 05 03.5		610
1997 CP ₁₃	* 1997 02 01.01264	09 33 43.70	+14 40 35.3	17.5 V	610
1997 CP ₁₃	1997 02 01.02557	09 33 42.97	+14 40 38.2		610
1997 CP ₁₃	1997 02 01.03657	09 33 42.34	+14 40 40.8		610
1997 CP ₁₃	1997 02 07.94534	09 26 51.52	+15 08 32.4	17.3 V	610
1997 CP ₁₃	1997 02 07.95582	09 26 50.88	+15 08 34.8		610
1997 CP ₁₃	1997 02 07.97825	09 26 49.53	+15 08 40.1		610
1997 CP ₁₃	1997 02 07.98738	09 26 48.98	+15 08 42.2		610
1997 CP ₁₃	1997 02 08.94524	09 25 50.82	+15 12 33.6	17.6 V	610
1997 CP ₁₃	1997 02 08.96740	09 25 49.49	+15 12 39.4		610
1997 CP ₁₃	1997 02 09.00317	09 25 47.34	+15 12 48.8		610
1997 CA ₁₇	1997 02 07.95104	09 30 44.94	+07 04 46.6	17.2 V	610
1997 CA ₁₇	1997 02 07.96178	09 30 44.36	+07 04 47.4		610
1997 CA ₁₇	1997 02 07.97318	09 30 43.73	+07 04 48.2		610

1997 CA ₁₇	1997 02 07.98258	09 30 43.22	+07 04 48.9		610
1997 CA ₁₇	1997 02 08.92984	09 29 55.36	+07 06 41.1	17.4 V	610
1997 CA ₁₇	1997 02 08.95490	09 29 54.05	+07 06 45.1		610
1997 CA ₁₇	1997 02 08.98243	09 29 52.61	+07 06 49.4		610
1997 CA ₁₇	1997 02 08.98602	09 29 52.42	+07 06 50.0		610
2256 T-2	1997 02 07.88966	08 20 38.08	+19 21 28.8	17.5 V	610
2256 T-2	1997 02 07.89600	08 20 37.76	+19 21 30.3		610
2256 T-2	1997 02 07.90335	08 20 37.39	+19 21 31.9		610
2256 T-2	1997 02 07.90738	08 20 37.18	+19 21 32.8		610
2256 T-2	1997 02 08.87925	08 19 52.93	+19 24 18.2		610
2256 T-2	1997 02 08.88316	08 19 52.76	+19 24 18.7		610
2256 T-2	1997 02 08.88697	08 19 52.59	+19 24 19.3		610
(13)	1997 01 13.07796	13 51 07.04	+01 36 51.5	11.6 V	610
(13)	1997 01 13.09785	13 51 08.19	+01 36 45.5		610
(13)	1997 01 13.11991	13 51 09.46	+01 36 38.8		610
(24)	1997 01 14.96565	09 03 40.93	+18 00 15.0	11.0 V	610
(24)	1997 01 14.98627	09 03 39.99	+18 00 19.3		610
(24)	1997 01 15.00198	09 03 39.27	+18 00 22.6		610
(43)	1997 01 14.91669	08 17 59.88	+16 22 07.0		610
(43)	1997 01 14.93150	08 17 58.88	+16 22 09.6		610
(43)	1997 01 14.94497	08 17 57.97	+16 22 12.0		610
(413)	1997 01 13.06767	13 34 28.19	+11 11 59.8	16.3 V	610
(413)	1997 01 13.08801	13 34 28.80	+11 12 03.8		610
(413)	1997 01 13.11022	13 34 29.48	+11 12 08.2		610
(661)	1997 01 15.06072	10 34 03.95	+12 18 00.3	14.3 V	610
(661)	1997 01 15.07204	10 34 03.69	+12 18 00.5		610
(661)	1997 01 15.08522	10 34 03.38	+12 18 00.7		610
(661)	1997 01 15.08787	10 34 03.32	+12 18 00.8		610
(679)	1997 01 13.05884	13 29 06.38	+16 47 26.6	14.9 V	610
(679)	1997 01 13.08010	13 29 07.08	+16 47 33.8		610
(679)	1997 01 13.09964	13 29 07.72	+16 47 40.5		610
(773)	1997 01 15.01448	09 53 03.40	+15 59 07.0	13.8 V	610
(773)	1997 01 15.02852	09 53 02.81	+15 59 06.9		610
(773)	1997 01 15.04016	09 53 02.31	+15 59 06.9		610
(873)	1997 01 14.92063	08 18 00.86	+15 32 08.4	15.5 V	610
(873)	1997 01 14.93493	08 18 00.07	+15 32 12.1		610
(873)	1997 01 14.95057	08 17 59.20	+15 32 16.0		610
(1091)	1997 01 14.84241	07 32 45.68	+22 36 31.6	15.1 V	610
(1091)	1997 01 14.86359	07 32 44.61	+22 36 33.9		610
(1091)	1997 01 14.88231	07 32 43.67	+22 36 35.8		610
(1091)	1997 01 15.90947	07 31 52.78	+22 38 41.5	15.1 V	610
(1091)	1997 01 15.91308	07 31 52.60	+22 38 42.2		610
(1091)	1997 01 15.92057	07 31 52.21	+22 38 43.5		610
(1091)	1997 01 17.97106	07 30 11.25	+22 42 48.3		610
(1091)	1997 01 17.97956	07 30 10.84	+22 42 49.1		610
(1091)	1997 01 17.98720	07 30 10.48	+22 42 49.9		610
(1091)	1997 01 17.98968	07 30 10.36	+22 42 50.1		610
(1248)	1997 01 13.89875	07 44 04.16	+29 23 57.5	13.3 V	610
(1248)	1997 01 13.91383	07 44 03.20	+29 24 02.4		610
(1248)	1997 01 13.91740	07 44 02.97	+29 24 03.6		610
(1428)	1997 01 13.06964	13 28 49.59	+08 48 44.0	16.7 V	610
(1428)	1997 01 13.08995	13 28 50.39	+08 48 47.3		610

(1428)	1997 01 13.11228	13 28 51.27	+08 48 51.0		610	(2586)	1997 01 11.86556	05 15 06.96	+16 30 38.9	16.7 V	610
(1648)	1997 01 11.87909	05 13 45.33	+18 36 58.4	16.7 V	610	(2586)	1997 01 11.87741	05 15 06.52	+16 30 40.1		610
(1648)	1997 01 11.89388	05 13 44.59	+18 36 59.4		610	(2586)	1997 01 11.89167	05 15 06.00	+16 30 41.5		610
(1648)	1997 01 11.89986	05 13 44.29	+18 36 59.8		610	(2586)	1997 01 11.90563	05 15 05.48	+16 30 42.9		610
(1659)	1997 01 13.00793	09 35 43.81	+27 02 53.4	14.5 V	610	(2687)	1997 01 12.91294	07 26 56.53	+35 27 58.8	15.9 V	610
(1659)	1997 01 13.02709	09 35 42.71	+27 02 55.4		610	(2687)	1997 01 12.93539	07 26 54.96	+35 28 03.1		610
(1659)	1997 01 13.04120	09 35 41.90	+27 02 56.9		610	(2687)	1997 01 12.95880	07 26 53.33	+35 28 07.6		610
(1822)	1997 01 14.91228	08 17 43.94	+18 02 52.7		610	(2700)	1997 01 12.90303	07 28 36.76	+18 37 57.0	15.8 V	610
(1822)	1997 01 14.92782	08 17 42.82	+18 02 56.6		610	(2700)	1997 01 12.92620	07 28 35.45	+18 38 00.8		610
(1822)	1997 01 14.94130	08 17 41.85	+18 02 59.1		610	(2700)	1997 01 12.94869	07 28 34.18	+18 38 04.5		610
(1838)	1997 01 13.07377	13 38 58.47	+07 33 58.7	16.4 V	610	(2737)	1997 01 15.05300	10 34 17.44	+14 10 26.0	15.6 V	610
(1838)	1997 01 13.09426	13 38 59.17	+07 33 57.4		610	(2737)	1997 01 15.06427	10 34 17.12	+14 10 26.0		610
(1838)	1997 01 13.11630	13 38 59.92	+07 33 55.9		610	(2737)	1997 01 15.07756	10 34 16.74	+14 10 26.0		610
(1879)	1997 01 13.93348	07 44 51.46	+18 52 05.4	14.3 V	610	(2804)	1997 01 11.86966	05 21 54.87	+17 52 05.0	16.7 V	610
(1879)	1997 01 13.94624	07 44 50.57	+18 52 06.7		610	(2804)	1997 01 11.88096	05 21 54.38	+17 52 07.2		610
(1879)	1997 01 13.95632	07 44 49.86	+18 52 07.7		610	(2804)	1997 01 11.90174	05 21 53.47	+17 52 11.4		610
(1903)	1997 02 01.00497	09 33 13.70	+15 11 51.4	14.3 V	610	(2844)	1997 01 15.02545	09 52 48.35	+13 24 10.3	17.1 V	610
(1903)	1997 02 01.01935	09 33 12.98	+15 11 58.2		610	(2844)	1997 01 15.03730	09 52 47.83	+13 24 13.7		610
(1903)	1997 02 01.03332	09 33 12.29	+15 12 04.8		610	(2844)	1997 01 15.04938	09 52 47.30	+13 24 17.2		610
(1947)	1997 01 13.07595	13 56 46.09	+01 05 06.7	17.0 V	610	(2978)	1997 01 31.99486	09 33 20.43	+15 26 25.1	16.6 V	610
(1947)	1997 01 13.09532	13 56 47.12	+01 05 05.5		610	(2978)	1997 02 01.01644	09 33 19.37	+15 26 30.0		610
(1947)	1997 01 13.11815	13 56 48.33	+01 05 04.1		610	(2978)	1997 02 01.03003	09 33 18.71	+15 26 33.1		610
(1962)	1997 01 11.83729	04 43 56.25	+24 25 17.7	16.3 V	610	(3033)	1997 01 12.88765	07 15 36.96	+15 24 52.6	15.8 V	610
(1962)	1997 01 11.84509	04 43 56.09	+24 25 17.4		610	(3033)	1997 01 12.91500	07 15 35.07	+15 24 58.1		610
(1962)	1997 01 11.85829	04 43 55.82	+24 25 16.8		610	(3033)	1997 01 12.93745	07 15 33.53	+15 25 02.7		610
(2129)	1997 01 13.90691	07 44 02.59	+29 39 38.2	16.1 V	610	(3037)	1997 01 13.06098	13 12 12.84	+13 32 53.9	16.5 V	610
(2129)	1997 01 13.91043	07 44 02.32	+29 39 39.2		610	(3037)	1997 01 13.08229	13 12 13.88	+13 33 00.1		610
(2129)	1997 01 13.92067	07 44 01.51	+29 39 42.1		610	(3037)	1997 01 13.10436	13 12 14.96	+13 33 06.5		610
(2159)	1997 01 11.83156	04 37 30.82	+27 09 30.9	15.8 V	610	(3122)	1997 01 13.02112	10 10 00.06	+35 21 19.4	16.4 V	610
(2159)	1997 01 11.84103	04 37 30.58	+27 09 29.8		610	(3122)	1997 01 13.03610	10 09 58.17	+35 21 20.6		610
(2159)	1997 01 11.85403	04 37 30.25	+27 09 28.2		610	(3122)	1997 01 13.05659	10 09 55.59	+35 21 22.2		610
(2226)	1997 01 16.99616	09 45 05.11	+17 26 33.3	16.1 V	610	(3154)	1997 01 15.01809	09 53 00.46	+14 53 39.2	17.2 V	610
(2226)	1997 01 17.01557	09 45 04.33	+17 26 38.2		610	(3154)	1997 01 15.03159	09 52 59.94	+14 53 42.4		610
(2226)	1997 01 17.02814	09 45 03.82	+17 26 41.4		610	(3154)	1997 01 15.04317	09 52 59.50	+14 53 45.1		610
(2313)	1997 01 12.90870	07 25 03.21	+19 28 01.8	16.4 V	610	(3176)	1997 01 13.07139	13 11 42.28	+12 26 13.4	17.1 V	610
(2313)	1997 01 12.93176	07 25 01.63	+19 28 04.5		610	(3176)	1997 01 13.09205	13 11 42.95	+12 26 14.1		610
(2313)	1997 01 12.95569	07 24 59.99	+19 28 07.4		610	(3176)	1997 01 13.11431	13 11 43.67	+12 26 14.8		610
(2335)	1997 01 13.06550	14 25 07.84	+12 41 49.5	16.1 V	610	(3186)	1997 01 12.97609	08 01 48.31	+19 32 51.2	16.7 V	610
(2335)	1997 01 13.08610	14 25 09.10	+12 41 32.3		610	(3186)	1997 01 12.98105	08 01 48.05	+19 32 52.1		610
(2335)	1997 01 13.10819	14 25 10.45	+12 41 13.9		610	(3186)	1997 01 12.98628	08 01 47.78	+19 32 53.1		610
(2407)	1997 01 11.83560	04 39 02.96	+25 35 22.1	15.3 V	610	(3388)	1997 01 13.06309	14 08 03.78	+16 25 35.4	17.3 V	610
(2407)	1997 01 11.84339	04 39 02.81	+25 35 21.1		610	(3388)	1997 01 13.08416	14 08 05.71	+16 25 41.1		610
(2407)	1997 01 11.85642	04 39 02.55	+25 35 19.5		610	(3388)	1997 01 13.10617	14 08 07.73	+16 25 47.0		610
(2411)	1997 02 08.87925	08 20 23.03	+19 28 51.2	15.8 V	610	(3401)	1997 01 13.01777	09 45 28.05	+31 17 03.7	14.2 V	610
(2411)	1997 02 08.88316	08 20 22.80	+19 28 52.2		610	(3401)	1997 01 13.03438	09 45 26.25	+31 16 50.2		610
(2411)	1997 02 08.88697	08 20 22.57	+19 28 53.1		610	(3401)	1997 01 13.04865	09 45 24.71	+31 16 38.7		610
(2455)	1997 01 14.90465	08 18 21.02	+19 59 17.3	15.1 V	610	(3423)	1997 01 17.01291	09 44 40.52	+13 50 22.1	16.2 V	610
(2455)	1997 01 14.92395	08 18 19.83	+19 59 17.7		610	(3423)	1997 01 17.02519	09 44 40.05	+13 50 24.6		610
(2455)	1997 01 14.93793	08 18 18.97	+19 59 18.0		610	(3423)	1997 01 17.03721	09 44 39.58	+13 50 26.9		610
(2561)	1997 01 12.89953	07 25 23.50	+18 10 41.5	15.5 V	610	(3423)	1997 02 01.00909	09 34 01.81	+14 41 49.3	15.7 V	610
(2561)	1997 01 12.92442	07 25 21.86	+18 10 46.6		610	(3423)	1997 02 01.02236	09 34 01.13	+14 41 52.3		610
(2561)	1997 01 12.94681	07 25 20.38	+18 10 51.2		610	(3423)	1997 02 01.03657	09 34 00.40	+14 41 55.5		610

(3490)	1997 01 15.05713	10 32 50.23	+13 37 59.9	16.6 V	610
(3490)	1997 01 15.06817	10 32 49.93	+13 38 00.5		610
(3490)	1997 01 15.08160	10 32 49.56	+13 38 01.1		610
(3831)	1997 01 11.86205	05 12 12.20	+16 49 56.0	17.2 V	610
(3831)	1997 01 11.87557	05 12 11.50	+16 49 58.3		610
(3831)	1997 01 11.88956	05 12 10.78	+16 50 00.7		610
(3944)	1997 01 13.00227	09 43 48.21	+24 22 28.3	16.9 V	610
(3944)	1997 01 13.02302	09 43 47.24	+24 22 35.9		610
(3944)	1997 01 13.03794	09 43 46.54	+24 22 41.4		610
(3948)	1997 01 12.89753	07 22 27.60	+17 47 35.1	17.2 V	610
(3948)	1997 01 12.92259	07 22 25.85	+17 47 39.2		610
(3948)	1997 01 12.94501	07 22 24.29	+17 47 42.9		610
(4006)	1997 01 13.93919	08 07 28.45	+20 00 30.1	15.3 V	610
(4006)	1997 01 13.95973	08 07 27.06	+20 00 32.3		610
(4022)	1997 01 12.91060	07 25 03.35	+20 15 12.6	16.1 V	610
(4022)	1997 01 12.93331	07 25 01.80	+20 15 13.2		610
(4022)	1997 01 12.95713	07 25 00.18	+20 15 13.9		610
(4105)	1997 01 12.85601	06 46 59.28	+13 56 58.1	16.8 V	610
(4105)	1997 01 12.86854	06 46 58.51	+13 56 59.0		610
(4105)	1997 01 12.88524	06 46 57.49	+13 57 00.3		610
(4159)	1997 01 13.07377	13 38 40.55	+07 38 26.8	15.9 V	610
(4159)	1997 01 13.09426	13 38 41.63	+07 38 27.3		610
(4159)	1997 01 13.11630	13 38 42.79	+07 38 27.8		610
(4422)	1997 01 11.91346	06 42 03.76	+17 05 26.4	15.6 V	610
(4422)	1997 01 11.95539	06 42 00.98	+17 05 35.5		610
(4538)	1997 01 12.89214	07 19 03.75	+15 45 03.6	16.2 V	610
(4538)	1997 01 12.91868	07 19 02.04	+15 45 05.6		610
(4538)	1997 01 12.94133	07 19 00.58	+15 45 07.3		610
(4685)	1997 01 17.00197	09 44 54.90	+16 04 08.3	16.6 V	610
(4685)	1997 01 17.01873	09 44 54.29	+16 04 11.7		610
(4685)	1997 01 17.03090	09 44 53.85	+16 04 14.2		610
(4752)	1997 01 15.01448	09 53 16.30	+15 56 30.3	16.6 V	610
(4752)	1997 01 15.02852	09 53 15.87	+15 56 32.8		610
(4752)	1997 01 15.04016	09 53 15.50	+15 56 35.0		610
(4759)	1997 01 14.97885	09 03 16.98	+16 32 11.9	17.0 V	610
(4759)	1997 01 14.99264	09 03 16.30	+16 32 14.1		610
(4759)	1997 01 15.01073	09 03 15.41	+16 32 17.0		610
(4846)	1997 01 13.90691	07 44 11.60	+29 31 55.4	16.0 V	610
(4846)	1997 01 13.91043	07 44 11.41	+29 31 55.9		610
(4846)	1997 01 13.92067	07 44 10.83	+29 31 57.3		610
(4918)	1997 01 12.84975	06 37 25.46	+20 07 08.0	16.0 V	610
(4918)	1997 01 12.86439	06 37 24.71	+20 07 09.8		610
(4918)	1997 01 12.88065	06 37 23.88	+20 07 11.8		610
(4989)	1997 01 15.02189	09 53 33.21	+13 46 17.0		610
(4989)	1997 01 15.03456	09 53 32.59	+13 46 15.8		610
(4989)	1997 01 15.04648	09 53 32.01	+13 46 14.7		610
(4989)	1997 01 16.04042	09 52 43.54	+13 45 41.9		610
(4989)	1997 01 16.04929	09 52 43.11	+13 45 41.6		610
(4989)	1997 01 16.05635	09 52 42.76	+13 45 41.4		610
(4989)	1997 01 16.07583	09 52 41.80	+13 45 40.8		610
(4993)	1997 01 13.00631	09 32 25.92	+26 36 26.4	16.8 V	610
(4993)	1997 01 13.02488	09 32 25.05	+26 36 34.3		610

(4993)	1997 01 13.03959	09 32 24.35	+26 36 40.6		610
(5486)	1997 01 13.01016	09 29 37.78	+29 22 43.1	16.1 V	610
(5486)	1997 01 13.02883	09 29 36.89	+29 22 50.9		610
(5486)	1997 01 13.04304	09 29 36.20	+29 22 56.8		610
(5943)	1997 01 13.93726	08 02 16.07	+18 17 04.2	16.6 V	610
(5943)	1997 01 13.94786	08 02 15.35	+18 17 08.6		610
(5943)	1997 01 13.95796	08 02 14.66	+18 17 12.8		610
(5952)	1997 01 14.97117	09 02 55.63	+17 11 20.1	16.3 V	610
(5952)	1997 01 14.97493	09 02 55.41	+17 11 20.6		610
(5952)	1997 01 14.98962	09 02 54.55	+17 11 22.6		610
(5952)	1997 01 15.00750	09 02 53.51	+17 11 25.0		610
(6023)	1997 01 13.94286	08 04 13.78	+18 30 45.1	15.2 V	610
(6023)	1997 01 13.95292	08 04 13.13	+18 30 49.6		610
(6023)	1997 01 13.96310	08 04 12.47	+18 30 54.2		610
(6576)	1997 01 14.95816	09 02 59.47	+18 57 19.8	17.2 V	610
(6576)	1997 01 14.98219	09 02 58.39	+18 57 25.4		610
(6576)	1997 01 14.99583	09 02 57.77	+18 57 28.6		610
(6605)	1997 01 13.93137	07 47 06.21	+21 41 01.1	16.2 V	610
(6605)	1997 01 13.94464	07 47 05.39	+21 41 05.1		610
(6605)	1997 01 13.95461	07 47 04.78	+21 41 08.1		610
(6625)	1997 01 12.90683	07 25 29.07	+19 59 05.3	17.2 V	610
(6625)	1997 01 12.93019	07 25 27.78	+19 59 08.9		610
(6625)	1997 01 12.95216	07 25 26.57	+19 59 12.3		610
(6648)	1997 01 17.00499	09 44 49.52	+15 16 49.3	17.2 V	610
(6648)	1997 01 17.02230	09 44 48.69	+15 16 52.1		610
(6648)	1997 01 17.03403	09 44 48.13	+15 16 54.0		610

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Observers M. Busch, W. Ernst

Measurer M. Busch

0.2-m $f/6$ reflector + CCD

GSC

1990 TR ₁₂	1997 02 01.91076	07 59 54.67	+08 15 28.6	17.3 R	611
1990 TR ₁₂	1997 02 01.94201	07 59 53.11	+08 15 33.7	17.1 R	611
1990 TR ₁₂	1997 02 07.84670	07 55 26.24	+08 30 51.7	17.6 R	611
1990 TR ₁₂	1997 02 07.87639	07 55 25.04	+08 30 56.7	17.2 R	611
1991 TE ₅	1997 02 01.98750	09 21 17.85	+35 46 05.8	16.0 R	611
1991 TE ₅	1997 02 02.02083	09 21 15.41	+35 46 11.1	16.2 R	611
1991 TE ₅	1997 02 06.82049	09 15 34.71	+35 56 07.4	16.4 R	611
1991 TE ₅	1997 02 06.83056	09 15 33.95	+35 56 08.2	16.4 R	611

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Observers F. Casarramona, E. Vigil, M. Ribell, X. Puig

Measurer F. Casarramona

0.51-m $f/3.9$ reflector + CCD

GSC

1997 CZ ₅	1997 02 07.88715	04 28 54.64	+19 29 12.7		619
1997 CZ ₅	1997 02 07.89601	04 28 55.95	+19 28 57.4		619
1997 CZ ₅	1997 02 07.90252	04 28 56.92	+19 28 45.9		619
1997 CZ ₅	1997 02 07.91032	04 28 58.07	+19 28 32.1		619

1997 CZ ₅	1997 02 09.87018	04 33 54.67	+18 32 56.0	15.3 I	619
1997 CZ ₅	1997 02 09.87940	04 33 56.02	+18 32 40.5	15.5 I	619
1997 CZ ₅	1997 02 09.88641	04 33 57.04	+18 32 28.8	15.3 I	619
1997 CZ ₅	1997 02 09.89147	04 33 57.79	+18 32 20.2	15.3 I	619
1997 CZ ₅	1997 02 09.89714	04 33 58.64	+18 32 10.5	15.3 I	619
1997 CZ ₅	1997 02 10.80255	04 36 15.78	+18 07 16.1		619
1997 CZ ₅	1997 02 10.80963	04 36 16.82	+18 07 04.6		619
1997 CZ ₅	1997 02 10.82598	04 36 19.24	+18 06 37.6		619
1997 CZ ₅	1997 02 10.83201	04 36 20.11	+18 06 27.9		619
1997 CZ ₅	1997 02 13.86229	04 43 57.00	+16 46 28.9		619
1997 CZ ₅	1997 02 13.87006	04 43 58.15	+16 46 16.4		619
1997 CZ ₅	1997 02 13.87650	04 43 59.13	+16 46 06.2		619
1997 CZ ₅	1997 02 13.88163	04 43 59.85	+16 45 58.7		619

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

[astroam@dinky.bitel.es]

Observers A. Lopez, R. Pacheco

Measurer A. Lopez

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

1997 BR	1997 02 07.97193	09 59 37.61	+37 36 56.6	17.0	620
1997 BR	1997 02 07.98016	09 59 36.91	+37 37 25.3	16.7	620
1997 BR	1997 02 07.98890	09 59 36.30	+37 37 55.8		620
1997 BR	1997 02 07.99817	09 59 35.36	+37 38 27.8	16.7	620
1997 BR	1997 02 08.10093	09 59 25.89	+37 43 53.9		620
1997 CZ ₅	1997 02 09.90394	04 33 59.73	+18 31 59.9	15.1	620
1997 CZ ₅	1997 02 09.90865	04 34 00.36	+18 31 51.5	15.0	620
1997 CZ ₅	1997 02 09.92089	04 34 02.19	+18 31 30.6	15.0	620
1997 CZ ₅	1997 02 10.89576	04 36 29.49	+18 04 44.0	15.1	620
1997 CZ ₅	1997 02 10.89992	04 36 30.09	+18 04 37.8	15.1	620
1997 CZ ₅	1997 02 10.90949	04 36 31.55	+18 04 21.4		620
1997 CZ ₅	1997 02 10.92176	04 36 33.36	+18 04 01.4		620

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

Observer R. Roy

Measurer A. Klotz

0.26-m *f*/4.7 reflector + CCD

GSC

1994 PC ₁	1997 01 14.87623	04 01 38.70	-31 48 57.5	14.3	627
1994 PC ₁	1997 01 14.87984	04 01 35.36	-31 48 11.8	14.2	627
1994 PC ₁	1997 01 14.89676	04 01 19.79	-31 44 39.2	14.4	627
1994 PC ₁	1997 01 14.89788	04 01 18.72	-31 44 25.0	14.4	627
1994 PC ₁	1997 01 14.90007	04 01 16.61	-31 43 57.0	14.3	627
1994 PC ₁	1997 01 14.90122	04 01 15.50	-31 43 42.2	14.4	627
1994 PC ₁	1997 01 14.90394	04 01 12.85	-31 43 07.6	14.0	627
1994 PC ₁	1997 01 14.90515	04 01 11.71	-31 42 51.1	14.5	627
1994 PC ₁	1997 01 14.90638	04 01 10.52	-31 42 35.3	14.4	627
1994 PC ₁	1997 01 14.90756	04 01 09.39	-31 42 20.0	13.9	627
1994 PC ₁	1997 01 14.90869	04 01 08.28	-31 42 05.4	13.9	627
1994 PC ₁	1997 01 14.90991	04 01 07.11	-31 41 49.9	14.5	627
1994 PC ₁	1997 01 16.86330	03 29 14.05	-23 20 12.6	14.2	627

1994 PC ₁	1997 01 16.87064	03 29 05.96	-23 17 57.4	14.3	627
1994 PC ₁	1997 01 16.87867	03 28 57.10	-23 15 28.1	14.3	627
1994 PC ₁	1997 01 16.88286	03 28 52.48	-23 14 10.2	14.3	627
1994 PC ₁	1997 01 16.89044	03 28 44.12	-23 11 48.8	14.2	627
(5407)	1997 01 29.87548	08 17 17.71	+23 25 25.9	15.3	627
(5407)	1997 01 29.88926	08 17 16.48	+23 25 38.6	15.4	627
(5407)	1997 01 29.89909	08 17 15.60	+23 25 47.6	15.4	627
(5407)	1997 01 30.86816	08 15 52.35	+23 40 41.2	15.4	627
(5407)	1997 01 30.87443	08 15 51.77	+23 40 47.3	15.4	627
(5407)	1997 01 30.88219	08 15 51.09	+23 40 54.1	15.5	627

628 Mülheim-Ruhr

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

0.2-m Schmidt-Cassegrain + CCD

GSC

(32)	1996 12 28.93061	05 51 01.11	+16 37 12.2	11.7 V	628
(32)	1997 01 01.93061	05 47 09.39	+16 33 27.2	11.1 V	628
(32)	1997 01 07.87506	05 41 49.84	+16 29 37.5	11.4 V	628
(32)	1997 01 11.85770	05 38 37.95	+16 28 17.4	11.4 V	628
(32)	1997 01 11.97922	05 38 32.25	+16 28 15.8	11.2 V	628
(32)	1997 01 14.83339	05 36 28.76	+16 27 55.9	11.5 V	628
(32)	1997 01 16.78131	05 35 11.30	+16 28 00.5	11.6 V	628
(32)	1997 02 01.86811	05 28 33.22	+16 37 22.0	11.5 V	628
(2359)	1997 01 16.86377	05 57 13.45	+17 11 54.9	17.3 V	628
(2750)	1997 02 02.04565	08 35 06.65	+28 48 10.3	15.6 V	628
(2750)	1997 02 02.08245	08 35 04.05	+28 48 18.1	15.7 V	628

629 JATE Observatory, Szeged

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

Observers L. Kiss, K. Sárneczky

0.28-m Schmidt-Cassegrain + CCD

GSC

1994 PC ₁	1997 01 27.78194	23 41 56.66	+42 37 17.4	14.6	629
1994 PC ₁	1997 01 27.78470	23 41 53.62	+42 37 43.1	14.5	629
1994 PC ₁	1997 01 27.79381	23 41 43.78	+42 39 08.2	14.7	629
1997 CZ ₅	1997 02 17.75551	04 53 42.17	+15 10 59.9	15.5	629
1997 CZ ₅	1997 02 17.75796	04 53 42.49	+15 10 56.3	15.4	629
1997 CZ ₅	1997 02 17.76618	04 53 43.69	+15 10 45.6	15.5	629
1997 CZ ₅	1997 02 17.77522	04 53 45.08	+15 10 32.1	15.4	629
(529)	1997 01 27.82501	04 13 41.63	+25 49 30.7	15.1	629
(529)	1997 01 27.82655	04 13 41.61	+25 49 32.1		629
(908)	1997 01 28.01192	05 42 54.31	+30 38 04.4	14.3	629
(908)	1997 01 28.01689	05 42 54.17	+30 38 06.4		629
(908)	1997 01 28.01954	05 42 54.19	+30 38 07.0		629
(908)	1997 01 28.02190	05 42 54.10	+30 38 07.4		629
(4179)	1997 01 27.90118	08 02 12.58	+20 23 08.9		629
(4179)	1997 01 27.96528	08 02 09.81	+20 23 21.0		629

630 Osenbach

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

[Sky.Walker@wanadoo.fr]

Observers C. Demeautis, D. Matter

Measurer C. Demeautis

0.30-m $f/6$ reflector + CCD

GSC

(5407)	1997 02 08.97060	08 03 10.05	+25 54 14.0	15.2	630
(5407)	1997 02 09.05980	08 03 02.77	+25 55 27.2	15.3	630
(5407)	1997 02 09.12534	08 02 57.47	+25 56 19.2	15.2	630

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Observers D. D. Balam, R. Cardinal

Measurer D. D. Balam

0.5-m reflector + CCD

GSC

1996 YE ₂	1997 02 06.28833	07 56 11.30	+19 33 49.8	15.9 V	657
1996 YE ₂	1997 02 06.32676	07 56 09.11	+19 33 49.2		657
1996 YE ₂	1997 02 06.36523	07 56 06.90	+19 33 48.4		657
1997 AZ ₁	1997 02 06.27439	07 55 50.91	+28 29 45.4		657
1997 AZ ₁	1997 02 06.30304	07 55 49.72	+28 29 45.0		657
1997 AZ ₁	1997 02 06.31277	07 55 49.14	+28 29 44.7		657
1997 AB ₂	1997 02 06.27909	07 56 01.85	+29 03 31.9	16.8 V	657
1997 AB ₂	1997 02 06.31524	07 55 59.84	+29 03 46.3		657
1997 AB ₂	1997 02 06.35370	07 55 57.81	+29 04 02.2		657
1997 AB ₂	1997 02 06.35589	07 55 57.59	+29 04 03.1	17.0 V	657
1997 AN ₂	1997 02 06.32211	07 56 15.93	+25 38 32.6	17.4 V	657
1997 AN ₂	1997 02 06.35838	07 56 13.79	+25 38 31.0		657
1997 AN ₂	1997 02 06.36060	07 56 13.64	+25 38 32.1		657
1997 AH ₅	1997 02 06.44781	10 37 53.22	+09 05 56.5	16.5 V	657
1997 AH ₅	1997 02 06.45449	10 37 52.93	+09 05 58.6		657
1997 AH ₅	1997 02 06.45669	10 37 52.85	+09 05 59.7		657
1997 AH ₅	1997 02 06.46558	10 37 52.30	+09 06 00.2		657
1997 AM ₂₂	1997 02 04.32709	07 57 28.76	+20 04 15.4	16.0 V	657
1997 AM ₂₂	1997 02 04.33073	07 57 28.60	+20 04 15.7		657
1997 AM ₂₂	1997 02 04.33439	07 57 28.45	+20 04 17.0		657
1997 AM ₂₂	1997 02 06.23992	07 56 07.26	+20 13 27.2		657
1997 AM ₂₂	1997 02 06.25091	07 56 06.79	+20 13 29.2		657
1997 AM ₂₂	1997 02 06.26006	07 56 06.34	+20 13 32.5		657
1997 BQ	1997 02 06.54943	14 15 25.66	+70 11 43.9	16.9 V	657
1997 BQ	1997 02 06.55094	14 15 27.32	+70 11 44.8	16.9 V	657
1997 BQ	1997 02 06.55241	14 15 28.60	+70 11 43.5	17.0 V	657
1997 BQ	1997 02 06.55389	14 15 30.11	+70 11 44.3	17.0 V	657
1997 BQ	1997 02 06.55535	14 15 31.54	+70 11 43.7	17.0 V	657
1997 BR	1997 02 04.41187	10 04 06.45	+34 27 32.6	17.2 V	657
1997 BR	1997 02 04.41552	10 04 06.17	+34 27 43.6		657
1997 BR	1997 02 04.41737	10 04 06.01	+34 27 49.0		657
1997 BR	1997 02 06.41867	10 01 41.48	+36 13 44.7		657
1997 BR	1997 02 06.42648	10 01 40.82	+36 14 10.2	16.8 V	657
1997 BR	1997 02 06.43416	10 01 40.13	+36 14 34.1		657
1997 BV	1997 02 04.36972	07 55 42.41	+18 14 25.9	17.7 V	657
1997 BV	1997 02 04.37156	07 55 42.26	+18 14 25.6	17.5 V	657
1997 BV	1997 02 04.37889	07 55 41.86	+18 14 26.5		657
1997 BV	1997 02 06.26709	07 54 12.92	+18 15 21.8	17.3 V	657
1997 BV	1997 02 06.29594	07 54 11.70	+18 15 20.3		657

1997 BV	1997 02 06.33659	07 54 09.63	+18 15 21.9	657
1997 BV	1997 02 06.34635	07 54 09.16	+18 15 22.2	657

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

Measurer D. D. Balam

1.82-m Plaskett telescope + CCD

GSC

1992 NA	1996 12 16.55074	09 42 27.34	+25 21 28.6	20.3 V	658
1992 NA	1996 12 16.55700	09 42 27.20	+25 21 29.7		658
1992 NA	1996 12 16.56380	09 42 26.93	+25 21 31.3		658
1994 PC	1997 01 24.28156	05 25 32.11	+16 40 43.0		658
1994 PC	1997 01 24.28765	05 25 32.40	+16 40 51.0		658
1994 PC	1997 01 24.29135	05 25 32.52	+16 40 54.8		658
1994 PC	1997 01 26.13530	05 27 09.23	+17 20 14.7		658
1994 PC	1997 01 26.13847	05 27 09.40	+17 20 19.5		658
1994 PC	1997 01 26.14090	05 27 09.46	+17 20 21.0		658
1995 LH	1996 12 16.45394	07 15 03.04	+34 36 41.1	19.6 V	658
1995 LH	1996 12 16.45854	07 15 02.79	+34 36 41.7		658
1995 LH	1996 12 16.46211	07 15 02.66	+34 36 44.2		658
1995 QG	1997 01 14.53742	11 47 42.00	-03 38 32.2		658
1995 QG	1997 01 14.54520	11 47 42.03	-03 38 36.0		658
1995 QG	1997 01 14.55274	11 47 42.06	-03 38 37.6		658
1995 QG	1997 01 24.46170	11 46 35.80	-04 34 57.8		658
1995 QG	1997 01 24.46689	11 46 35.66	-04 34 58.3		658
1995 QG	1997 01 24.47262	11 46 35.51	-04 35 01.1		658
1995 SJ ₄	1996 12 16.47038	06 23 15.64	+16 10 09.8	17.8 V	658
1995 SJ ₄	1996 12 16.47384	06 23 15.49	+16 10 08.4		658
1995 SJ ₄	1996 12 16.47910	06 23 15.13	+16 10 07.0		658
1995 SJ ₄	1997 01 24.33779	05 51 55.80	+13 48 47.2		658
1995 SJ ₄	1997 01 24.34645	05 51 55.48	+13 48 45.9		658
1995 SJ ₄	1997 01 24.35531	05 51 55.20	+13 48 44.6		658
1996 XX ₁₄	1997 01 24.32528	05 46 09.30	-03 08 25.5		658
1996 XX ₁₄	1997 01 24.32805	05 46 09.50	-03 08 20.6		658
1996 XX ₁₄	1997 01 26.23186	05 48 11.85	-02 19 19.1		658
1996 XX ₁₄	1997 01 26.23601	05 48 12.12	-02 19 12.9		658
1996 XS ₂₃	1997 01 26.14552	04 41 19.73	+61 15 20.6		658
1996 XS ₂₃	1997 01 26.14714	04 41 19.83	+61 15 20.3		658
1996 XS ₂₃	1997 01 26.15454	04 41 19.93	+61 15 18.7		658
1996 YF ₁	1997 01 26.30836	07 34 05.19	+39 15 46.0		658
1996 YF ₁	1997 01 26.31277	07 34 05.02	+39 15 49.7		658
1996 YF ₁	1997 01 26.32155	07 34 04.57	+39 15 56.1		658
1996 YF ₁	1997 01 27.37731	07 33 25.07	+39 28 43.1		658
1996 YF ₁	1997 01 27.38416	07 33 24.73	+39 28 47.7		658
1996 YF ₁	1997 01 27.38959	07 33 24.55	+39 28 51.6		658
1997 AW	1997 01 27.41009	08 16 22.15	+22 48 29.1		658
1997 AW	1997 01 27.41582	08 16 21.77	+22 48 29.6		658
1997 AW	1997 01 27.42118	08 16 21.34	+22 48 31.4		658
1997 AP ₁₀	1997 01 26.25442	07 39 24.35	+20 21 26.2		658
1997 AP ₁₀	1997 01 26.25741	07 39 24.10	+20 21 26.8		658
1997 AC ₁₁	1997 01 24.44522	11 53 01.47	+66 47 02.9		658

1997 AC ₁₁	1997 01 24.44713	11 53 04.34	+66 47 37.3	658
1997 AC ₁₁	1997 01 24.44841	11 53 06.03	+66 47 59.0	658
1997 AB ₁₅	1997 01 26.33192	07 10 37.12	+30 36 04.7	658
1997 AB ₁₅	1997 01 26.33503	07 10 36.84	+30 36 13.4	658
1997 AB ₁₅	1997 01 27.31476	07 08 43.86	+31 16 22.9	658
1997 AB ₁₅	1997 01 27.31801	07 08 43.48	+31 16 30.7	658
1997 AQ ₁₈	1997 01 27.39412	07 23 47.19	+17 25 32.5	658
1997 AQ ₁₈	1997 01 27.39677	07 23 46.73	+17 25 31.4	658
1997 AQ ₁₈	1997 01 27.40556	07 23 45.27	+17 25 23.4	658
1997 BQ	1997 01 24.43454	11 24 36.43	+63 43 05.9	658
1997 BQ	1997 01 24.43758	11 24 37.86	+63 43 14.5	658
1997 BQ	1997 01 24.43932	11 24 38.63	+63 43 19.0	658
1997 BR	1997 01 24.29792	10 12 14.71	+25 32 09.0	658
1997 BR	1997 01 24.29926	10 12 14.65	+25 32 12.2	658
1997 BR	1997 01 24.30148	10 12 14.63	+25 32 17.8	658
1997 BR	1997 01 27.46167	10 10 45.89	+27 52 57.5	658
1997 BR	1997 01 27.46519	10 10 45.75	+27 53 06.8	658
1997 BR	1997 01 27.47346	10 10 45.46	+27 53 29.0	658

670 Camarillo

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0.25-m Schmidt-Cassegrain + CCD
GSC

1996 PA ₇	1997 01 30.15868	02 44 15.68	+11 21 08.6	17.6 V	670
1996 PA ₇	1997 01 30.16562	02 44 16.36	+11 21 20.3		670
1996 PA ₇	1997 01 30.17743	02 44 17.52	+11 21 39.8		670
1996 PA ₇	1997 01 30.19340	02 44 19.19	+11 22 06.3		670
1996 PA ₇	1997 01 31.17326	02 46 00.72	+11 48 54.0	18.1 V	670
1996 PA ₇	1997 01 31.18594	02 46 01.97	+11 49 14.0		670
1996 PA ₇	1997 01 31.19549	02 46 02.99	+11 49 30.7		670
1997 BQ	1997 01 30.32066	12 24 44.84	+67 47 35.4		670
1997 BQ	1997 01 30.32691	12 24 49.42	+67 47 51.3		670
1997 BQ	1997 01 30.33472	12 24 55.24	+67 48 07.5		670
1997 BQ	1997 01 30.34427	12 25 02.47	+67 48 29.5	17.7 V	670
1997 BQ	1997 01 31.29427	12 37 18.13	+68 20 20.2		F 670
1997 BQ	1997 01 31.31545	12 37 34.58	+68 21 04.2	18.2 V	F 670
1997 BR	1997 01 31.35781	10 08 04.37	+31 00 02.3	17.3 V	670
1997 BR	1997 01 31.36476	10 08 03.98	+31 00 25.3		670
1997 BR	1997 01 31.37500	10 08 03.37	+31 00 56.0		670
1997 BR	1997 02 09.30104	09 57 42.49	+38 48 35.7	17.2 V	670
1997 BR	1997 02 09.31007	09 57 41.63	+38 49 04.6		670
1997 BR	1997 02 09.32118	09 57 40.45	+38 49 40.8		670
1997 CO ₅	1997 02 09.22812	09 04 39.00	+17 18 26.4	17.1 V	670
1997 CO ₅	1997 02 09.24358	09 04 37.57	+17 18 04.3		670
1997 CO ₅	1997 02 09.25920	09 04 36.08	+17 17 42.8		670
1997 CZ ₅	1997 02 09.17951	04 32 10.32	+18 52 18.3	15.4 V	670
1997 CZ ₅	1997 02 09.19236	04 32 12.21	+18 51 56.4		670
1997 CZ ₅	1997 02 09.20330	04 32 13.83	+18 51 37.7		670
1997 CZ ₅	1997 02 12.17795	04 39 43.20	+17 30 19.8		670
1997 CZ ₅	1997 02 12.19201	04 39 45.27	+17 29 57.4	14.8 V	670
1997 CZ ₅	1997 02 12.20521	04 39 47.21	+17 29 36.3		670
(529)	1997 01 30.27621	04 14 11.98	+25 54 21.5	14.8 V	670

(529)	1997 01 30.28750	04 14 12.14	+25 54 22.9	670
(529)	1997 01 31.21563	04 14 26.34	+25 56 16.3	14.6 V 670
(529)	1997 01 31.23125	04 14 26.56	+25 56 18.2	670
(796)	1997 02 12.23837	09 52 48.74	+41 30 56.7	670
(796)	1997 02 12.24879	09 52 47.95	+41 30 58.2	670
(796)	1997 02 12.26354	09 52 46.85	+41 31 00.3	13.3 V 670

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9 = 6+3

Observers S. J. Bus (3, S), T. Gehrels (4, L), E. F. Helin (2, S), H. E. Holt (3, S), P. Kempchinsky (3, S), K. J. Lawrence (2, S), D. H. Levy (3, S), T. Melis (3, S), F. J. Mendez (3, S), C. M. Olmstead (3, S), T. Rodriguez (3, S), F. Salazar (3, S), C. S. Shoemaker (3, S), E. M. Shoemaker (3, S), P. G. Shoemaker (3, S), B. A. Skiff (3, S), T. B. Spahr (3, S), N. G. Thomas (3, S), D. K. Williams (3, S), L. A. Zimmerman (3, S)

Measurers J. Hlavac (6), K. J. Lawrence (2), 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)

1969 TR ₁	1991 01 19.25420	07 32 44.98	+24 27 17.3	17.8	9 675
1969 TR ₁	1991 01 19.29410	07 32 42.13	+24 27 20.8		9 675
1973 QG ₂	1991 01 19.25420	07 31 27.82	+25 37 57.7	17.8	9 675
1975 EA ₃	1994 09 09.25182	21 58 56.85	-17 20 40.0	17.5	9 675
1975 EA ₃	1994 09 09.27986	21 58 55.38	-17 20 44.3		9 675
1975 SK	1992 10 22.36667	03 10 40.57	+15 52 50.7	17.5	9 675
1975 SK	1992 10 22.39861	03 10 39.22	+15 52 45.9		9 675
1976 DJ ₁	1954 05 28.26563	15 48 17.05	-12 53 17.6	17.2	6 675
1976 DJ ₁	1954 05 28.28994	15 48 15.97	-12 53 16.7		6 675
1976 QL ₂	1993 08 15.30000	22 17 03.16	-25 31 38.7	17.5	9 675
1976 QL ₂	1993 08 15.32726	22 17 01.82	-25 31 44.4	17.5	9 675
1977 AW ₂	1994 10 03.42274	02 31 16.63	+18 42 15.6	17.2	9 675
1977 AW ₂	1994 10 03.45799	02 31 15.26	+18 42 14.0		9 675
1978 PU ₂	1951 12 27.41250	08 23 57.53	+11 23 04.1		6 675
1978 PU ₂	1951 12 27.44306	08 23 56.22	+11 23 10.8	18.5	6 675
1978 QC ₃	1993 12 07.24688	03 13 12.55	-02 31 44.2	16.5	9 675
1978 QC ₃	1993 12 07.27917	03 13 11.28	-02 31 37.3		9 675
1978 RY ₆	1988 05 15.32587	14 47 02.75	-29 50 28.9		9 675
1978 SJ ₅	1993 12 09.24340	04 05 32.62	+27 41 39.2	17.5	9 675
1978 SJ ₅	1993 12 09.27483	04 05 30.47	+27 41 36.0		9 675
1978 SP ₅	1992 10 22.36667	03 04 30.31	+13 37 43.1	17.2	9 675
1978 SP ₅	1992 10 22.39861	03 04 28.81	+13 37 32.1		9 675
1979 MD ₂	1954 05 28.26563	15 41 35.32	-15 11 45.5	18.5	6 675
1979 QT ₈	1993 12 09.24340	03 39 55.71	+24 14 34.8	17.2	9 675
1979 QT ₈	1993 12 09.27483	03 39 53.93	+24 14 26.4		9 675
1979 XJ	1991 04 19.33889	13 18 33.49	+02 11 27.4	18.5	9 675
1979 XJ	1991 04 19.36736	13 18 31.54	+02 11 38.2		9 675

1980 FY	1994 10 03.42274	02 42 01.33	+18 49 52.3	17.8	9 675	1983 UG	1993 08 17.40260	00 04 43.20	-12 16 42.2	16.8	9 675
1980 FY	1994 10 03.45799	02 41 59.87	+18 49 49.2		9 675	1983 UG	1993 08 17.42934	00 04 42.98	-12 16 52.3		9 675
1980 PB ₂	1992 10 22.36667	03 08 19.22	+09 25 05.4	17.8	9 675	1983 VH ₁	1954 05 28.26563	15 38 18.40	-13 34 17.2	17.2	6 675
1980 PB ₂	1992 10 22.39861	03 08 17.91	+09 24 54.2		9 675	1983 VH ₁	1954 05 28.28994	15 38 17.22	-13 34 17.6		6 675
1981 DN ₂	1988 08 13.26771	20 46 06.43	-02 47 58.4	18.8	9 675	1984 DQ	1993 07 25.31372	21 09 15.73	-24 09 02.5	17.5	9 675
1981 DN ₂	1988 08 13.29913	20 46 04.89	-02 48 04.9		9 675	1984 DQ	1993 07 25.34244	21 09 13.75	-24 09 03.1		9 675
1981 DN ₂	1994 10 03.42274	02 14 24.73	+22 22 39.8		9 675	1984 DQ	1994 11 07.25747	01 47 02.12	+26 54 41.3		9 675
1981 DN ₂	1994 10 03.45799	02 14 23.53	+22 22 30.6		9 675	1984 DQ	1994 11 07.28715	01 47 00.28	+26 54 33.8		9 675
1981 DN ₂	1994 11 29.11771	01 39 01.86	+15 40 23.7		9 675	1984 HO ₁	1994 09 09.25182	22 02 11.31	-17 00 13.7	18.0	9 675
1981 DN ₂	1994 11 29.15573	01 39 01.14	+15 40 11.4	19.0	9 675	1984 HO ₁	1994 09 09.27986	22 02 09.78	-17 00 16.3		9 675
1981 EG ₁	1991 10 08.39670	01 17 42.59	+07 49 04.7	17.8	9 675	1984 HR ₁	1993 07 25.31372	21 25 52.77	-24 57 48.2		9 675
1981 EG ₁	1991 10 08.42222	01 17 41.04	+07 48 56.4		9 675	1984 HR ₁	1993 07 25.34244	21 25 51.27	-24 57 55.1	17.0	9 675
1981 EY ₉	1991 01 22.29444	08 48 18.65	+16 54 40.6	17.5	9 675	1984 HR ₁	1993 08 13.23524	21 08 09.97	-26 03 02.1	16.5	9 675
1981 EY ₉	1991 01 22.33316	08 48 16.16	+16 54 42.4		9 675	1984 HR ₁	1993 08 13.26441	21 08 08.26	-26 03 05.5		9 675
1981 EQ ₁₄	1994 09 07.32066	21 48 13.88	-09 30 07.5	18.2	9 675	1984 HR ₁	1993 10 09.16944	20 53 36.74	-23 51 44.6		9 675
1981 EQ ₁₄	1994 09 07.35590	21 48 11.90	-09 30 06.6		9 675	1984 JN	1991 01 22.29444	08 48 05.27	+19 48 38.8	18.2	9 675
1981 EF ₁₆	1991 10 08.39670	01 14 51.23	+07 49 49.7	17.2	9 675	1984 JN	1991 01 22.33316	08 48 02.95	+19 48 52.2		9 675
1981 EF ₁₆	1991 10 08.42222	01 14 50.07	+07 49 30.3		9 675	1984 SB ₁	1994 11 07.25747	02 16 17.27	+22 56 49.3		9 675
1981 EC ₁₈	1994 09 07.32066	21 59 36.23	-08 29 04.9	19.0	9 675	1984 SB ₁	1994 11 07.28715	02 16 15.15	+22 56 41.4		9 675
1981 EC ₁₈	1994 09 07.35590	21 59 34.88	-08 29 15.6		9 675	1985 CN ₁	1993 07 25.31372	21 26 15.79	-19 58 09.0	18.5	9 675
1981 EM ₁₈	1991 01 19.25420	07 38 33.85	+28 55 00.3		9 675	1985 CN ₁	1993 07 25.34244	21 26 14.04	-19 58 16.8		9 675
1981 EM ₁₈	1991 01 19.29410	07 38 30.80	+28 54 59.9	17.2	9 675	1985 GA ₁	1992 06 28.38403	20 43 35.93	-13 48 55.8	16.8	9 675
1981 EL ₂₀	1994 11 07.25747	02 01 11.15	+24 15 58.0		9 675	1985 GA ₁	1992 06 28.41510	20 43 35.23	-13 49 05.2		9 675
1981 EL ₂₀	1994 11 07.28715	02 01 09.56	+24 15 52.1		9 675	1985 GA ₁	1992 08 27.17326	20 05 31.52	-21 05 44.5	17.2	9 675
1981 EO ₂₁	1994 11 29.11771	01 24 03.82	+11 59 26.4		9 675	1985 GA ₁	1992 08 27.20556	20 05 31.18	-21 05 54.0		9 675
1981 EO ₂₁	1994 11 29.15573	01 24 03.80	+11 59 25.0		9 675	1985 PL	1991 01 19.25420	07 41 29.50	+30 21 49.7	18.0	9 675
1981 EV ₂₂	1992 08 27.20556	20 17 40.90	-16 42 22.3		9 675	1985 RQ	1993 08 17.40260	23 56 50.04	-09 55 11.8	17.0	9 675
1981 EQ ₂₆	1992 08 27.17326	20 21 56.89	-17 35 37.8	18.8	9 675	1985 RQ	1993 08 17.42934	23 56 49.59	-09 55 10.3		9 675
1981 EQ ₂₆	1992 08 27.20556	20 21 55.83	-17 35 41.7		9 675	1985 SB	1988 05 15.32587	15 03 19.74	-26 33 42.2	17.2	9 675
1981 EY ₂₇	1994 09 09.25182	22 15 50.88	-22 24 40.0	17.2	9 675	1985 SB	1988 05 15.35260	15 03 17.93	-26 33 38.1		9 675
1981 EY ₂₇	1994 09 09.27986	22 15 49.18	-22 24 33.0		9 675	1985 SB	1991 02 10.44531	10 54 18.67	+10 13 15.8	17.8	9 675
1981 EY ₂₇	1994 10 01.13160	22 01 46.61	-19 57 20.4	17.8	9 675	1985 SB	1991 02 10.49965	10 54 15.75	+10 13 27.9		9 675
1981 EY ₂₇	1994 10 01.16094	22 01 46.05	-19 57 06.2		9 675	1985 SR	1993 12 09.27483	04 02 21.82	+22 55 08.8		9 675
1981 EF ₃₀	1951 12 27.41250	08 34 40.13	+10 44 50.8		6 675	1986 QL ₂	1993 12 09.24340	03 52 56.12	+25 06 26.1		9 675
1981 EF ₃₀	1951 12 27.44306	08 34 39.02	+10 44 54.3	17.5	6 675	1986 QL ₂	1993 12 09.27483	03 52 54.53	+25 06 21.5	18.8	9 675
1981 JS ₂	1991 01 19.25420	07 28 30.52	+24 54 45.4		9 675	1986 VQ ₂	1991 01 18.38889	08 29 18.40	+15 21 32.9	18.5	9 675
1981 JS ₂	1991 01 19.29410	07 28 27.87	+24 54 50.2	18.8	9 675	1986 VQ ₂	1991 01 18.42292	08 29 15.98	+15 21 36.8		9 675
1981 QF	1991 01 22.29444	08 54 34.30	+20 43 57.4	19.0	9 675	1986 VQ ₂	1993 12 09.24340	03 40 14.59	+24 57 07.3	17.0	9 675
1981 QF	1991 01 22.33316	08 54 31.85	+20 44 07.2		9 675	1986 VQ ₂	1993 12 09.27483	03 40 12.98	+24 56 53.1		9 675
1981 QW ₂	1991 10 08.39670	01 39 08.82	+07 31 46.6	18.0	9 675	1987 DO ₆	1988 05 15.32587	14 44 10.59	-27 41 03.1	17.5	9 675
1981 UT ₇	1992 10 22.36667	03 15 10.44	+15 17 54.3	17.5	9 675	1987 DO ₆	1988 05 15.35260	14 44 09.19	-27 40 57.2		9 675
1981 UT ₇	1992 10 22.39861	03 15 09.04	+15 17 49.3		9 675	1987 RG	1992 08 27.17326	20 33 18.15	-20 20 49.3	17.2	9 675
1981 UC ₂₆	1949 11 19.25833	03 24 01.58	+12 45 33.5	17.5	9 675	1987 RG	1992 08 27.20556	20 33 17.14	-20 20 54.2		9 675
1981 UC ₂₆	1949 11 19.28647	03 24 00.17	+12 45 28.7		9 675	1987 SS ₉	1992 08 27.17326	20 12 53.32	-21 05 07.8	18.8	9 675
1981 WS ₁	1994 10 01.13160	22 09 10.66	-22 29 01.7		9 675	1987 VB ₁	1991 10 08.39670	01 25 56.80	+09 08 20.1	16.8	9 675
1981 WS ₁	1994 10 01.16094	22 09 10.39	-22 28 53.2	17.2	9 675	1987 VB ₁	1991 10 08.42222	01 25 55.33	+09 08 19.8		9 675
1982 BE ₁	1992 08 27.17326	20 06 58.57	-20 18 23.8	18.5	9 675	1988 FM	1994 11 29.11771	01 26 56.42	+17 54 16.5	18.5	9 675
1982 BE ₁	1992 08 27.20556	20 06 57.25	-20 18 32.5		9 675	1988 FM	1994 11 29.15573	01 26 55.21	+17 54 15.8		9 675
1983 RV ₃	1991 04 19.33889	13 15 20.85	-03 59 13.7	18.5	9 675	1988 JB ₁	1994 09 09.27986	22 07 19.28	-14 28 30.7		9 675
1983 RV ₃	1991 04 19.36736	13 15 19.38	-03 59 00.5		9 675	1988 LH	1994 09 07.32066	21 41 38.92	-05 08 52.1	18.8	9 675
1983 RR ₄	1994 09 07.32066	21 39 16.92	-06 38 08.5	16.2	9 675	1988 LH	1994 09 07.35590	21 41 37.54	-05 09 02.6		9 675
1983 RR ₄	1994 09 07.35590	21 39 15.73	-06 38 39.6		9 675	1988 NR	1993 12 09.24340	03 38 16.55	+25 14 36.2	17.0	9 675

1988 NR	1993 12 09.27483	03 38 15.05	+25 14 18.2	9 675	1990 BN	1993 12 07.27917	03 21 25.63	+03 05 11.2	9 675
1988 PA	1988 09 10.23273	21 17 35.26	-14 02 58.8	9 675	1990 FR ₁	1993 12 07.24688	03 30 54.52	+00 21 10.3	17.8 9 675
1988 QA	1988 09 10.26944	21 30 51.41	-14 34 55.0	16.8 9 675	1990 FR ₁	1993 12 07.27917	03 30 53.11	+00 21 14.8	9 675
1988 QB	1988 09 10.23273	21 31 08.77	-14 27 45.7	17.0 9 675	1990 OW ₂	1954 05 28.26563	15 31 53.26	-13 31 16.2	18.5 6 675
1988 QB	1988 09 10.26944	21 31 07.40	-14 28 03.0	9 675	1990 OY ₃	1989 03 09.40174	11 55 35.04	-04 55 53.3	18.5 9 675
1988 QU	1988 09 10.23273	21 30 23.82	-15 13 38.6	17.5 9 675	1990 OY ₃	1989 03 09.43281	11 55 33.28	-04 55 47.0	9 675
1988 QU	1988 09 10.26944	21 30 22.57	-15 13 57.4	9 675	1990 OY ₃	1994 11 29.11771	01 17 25.51	+18 11 56.9	18.5 9 675
1988 RQ ₂	1992 08 27.17326	20 10 03.62	-20 01 12.0	17.5 9 675	1990 OY ₃	1994 11 29.15573	01 17 25.14	+18 11 50.0	9 675
1988 RQ ₂	1992 08 27.20556	20 10 02.46	-20 01 07.9	9 675	1990 RP ₉	1994 10 03.42274	02 25 55.51	+20 35 48.5	18.2 9 675
1988 RK ₉	1988 09 10.23273	21 07 09.09	-16 55 51.9	16.8 9 675	1990 RP ₉	1994 10 03.45799	02 25 54.03	+20 35 39.1	9 675
1988 RK ₉	1988 09 10.26944	21 07 08.32	-16 56 08.8	9 675	1990 RP ₉	1994 11 29.11771	01 40 58.54	+14 19 22.0	9 675
1988 RL ₉	1988 09 10.23273	21 09 39.00	-16 01 12.6	16.8 9 675	1990 RP ₉	1994 11 29.15573	01 40 57.68	+14 19 09.7	18.5 9 675
1988 RL ₉	1988 09 10.26944	21 09 37.57	-16 01 11.2	9 675	1990 UL ₁	1993 07 25.31372	21 15 09.31	-19 22 43.3	17.5 9 675
1988 RA ₁₁	1994 09 09.27986	22 00 54.00	-14 42 53.3	9 675	1990 UL ₂	1993 08 17.40260	23 59 45.29	-10 32 09.4	17.2 9 675
1988 RJ ₁₃	1991 04 19.33889	13 03 35.78	+01 07 40.3	18.8 9 675	1990 UL ₂	1993 08 17.42934	23 59 44.58	-10 32 18.7	9 675
1988 SH ₂	1986 03 04.36076	11 41 59.48	+16 56 25.0	18.5 9 675	1990 VL ₁	1994 10 03.42274	02 29 56.09	+23 10 11.9	17.2 9 675
1988 SH ₂	1993 08 15.30000	22 14 57.59	-22 35 33.7	17.0 9 675	1990 VL ₁	1994 10 03.45799	02 29 54.96	+23 10 02.0	9 675
1988 SH ₂	1993 08 15.32726	22 14 56.38	-22 35 46.9	9 675	1990 WD ₂	1993 07 25.31372	21 06 24.58	-21 52 57.7	18.5 9 675
1988 VK ₂	1992 10 22.36667	03 24 22.26	+11 04 13.7	17.2 9 675	1990 WD ₂	1993 07 25.34244	21 06 22.86	-21 53 09.4	9 675
1988 VK ₂	1992 10 22.39861	03 24 20.69	+11 04 12.5	9 675	1990 YP	1991 01 22.29444	08 58 36.00	+15 07 17.1	17.0 9 675
1988 VS ₂	1992 10 22.36667	02 57 09.78	+13 55 02.1	9 675	1990 YP	1991 01 22.33316	08 58 33.37	+15 07 01.7	9 675
1988 VS ₂	1992 10 22.39861	02 57 08.35	+13 54 38.2	16.5 9 675	1990 YX	1993 07 25.31372	21 28 02.22	-22 07 28.1	9 675
1988 XB ₅	1994 09 09.25182	22 21 05.14	-18 47 36.5	17.8 9 675	1990 YX	1993 07 25.34244	21 28 00.79	-22 07 34.2	9 675
1988 XB ₅	1994 09 09.27986	22 21 03.51	-18 47 43.8	9 675	1991 AC	1991 01 19.25420	07 52 20.04	+24 45 04.8	17.2 9 675
1988 XB ₅	1994 10 01.13160	22 05 20.33	-19 24 55.5	9 675	1991 AC	1991 01 19.29410	07 52 17.74	+24 45 12.9	9 675
1988 XB ₅	1994 10 01.16094	22 05 19.48	-19 24 54.0	9 675	1991 AJ	1994 09 09.25182	22 12 36.77	-21 01 13.5	18.8 9 675
1989 FG	1991 10 08.39670	01 36 54.15	+06 28 23.1	17.5 9 675	1991 AJ	1994 09 09.27986	22 12 35.70	-21 01 22.0	9 675
1989 FG	1991 10 08.42222	01 36 52.66	+06 28 14.2	9 675	1991 AJ	1994 10 01.13160	22 00 46.33	-22 01 15.9	18.8 9 675
1989 GC ₁	1994 10 03.42274	02 15 19.34	+18 40 21.8	18.2 9 675	1991 AJ	1994 10 01.16094	22 00 45.65	-22 01 18.9	9 675
1989 GC ₁	1994 10 03.45799	02 15 17.73	+18 40 16.6	9 675	1991 AH ₁	1991 01 22.29444	08 56 11.83	+15 51 27.4	18.0 9 675
1989 GC ₁	1994 11 29.11771	01 32 01.40	+14 08 28.9	9 675	1991 AH ₁	1991 01 22.33316	08 56 09.55	+15 51 35.3	9 675
1989 GC ₁	1994 11 29.15573	01 32 00.66	+14 08 22.7	9 675	1991 AQ ₂	1991 01 22.29444	08 52 52.72	+17 29 23.2	17.5 9 675
1989 GJ ₂	1994 10 03.42274	02 08 01.60	+18 59 22.2	17.0 9 675	1991 AQ ₂	1991 01 22.33316	08 52 50.40	+17 29 31.7	9 675
1989 GJ ₂	1994 10 03.45799	02 08 00.24	+18 59 09.0	9 675	1991 AS ₂	1991 01 22.29444	08 52 49.70	+15 42 41.0	19.0 9 675
1989 SW ₂	1993 07 25.31372	21 26 46.18	-21 53 59.3	18.2 9 675	1991 AS ₂	1991 01 22.33316	08 52 47.24	+15 42 46.5	9 675
1989 TZ ₁₅	1994 10 03.42274	02 26 48.57	+22 26 58.7	18.2 9 675	1991 AT ₂	1991 01 22.29444	08 55 45.21	+15 13 50.3	17.8 9 675
1989 TZ ₁₅	1994 10 03.45799	02 26 47.02	+22 26 59.4	9 675	1991 AT ₂	1991 01 22.33316	08 55 43.29	+15 14 01.1	9 675
1989 TZ ₁₅	1994 11 07.25747	01 56 07.61	+21 16 22.0	17.5 9 675	1991 AU ₂	1991 01 22.29444	08 58 13.28	+16 40 01.7	18.5 9 675
1989 TZ ₁₅	1994 11 07.28715	01 56 05.96	+21 16 15.8	9 675	1991 AU ₂	1991 01 22.33316	08 58 10.85	+16 40 05.8	9 675
1989 UN ₃	1991 01 22.29444	09 03 36.39	+15 36 59.2	18.8 9 675	1991 AV ₂	1991 01 22.29444	08 59 35.14	+17 43 41.2	17.2 9 675
1989 UN ₃	1991 01 22.33316	09 03 34.29	+15 37 08.3	9 675	1991 AW ₂	1991 01 22.29444	09 03 37.62	+16 18 45.1	18.0 9 675
1989 VQ	1991 02 10.44531	10 56 32.61	+11 03 03.3	9 675	1991 AW ₂	1991 01 22.33316	09 03 35.89	+16 19 07.3	9 675
1989 VQ	1991 02 10.49965	10 56 29.76	+11 03 22.4	18.8 9 675	1991 AY ₂	1991 01 22.29444	09 02 53.69	+17 19 19.3	18.8 9 675
1989 VQ	1991 03 13.22066	10 28 27.30	+13 49 31.3	9 675	1991 AY ₂	1991 01 22.33316	09 02 51.20	+17 19 28.5	9 675
1989 VQ	1991 03 13.24931	10 28 25.60	+13 49 40.1	9 675	1991 AC ₃	1991 01 22.33316	08 58 11.61	+16 15 16.1	9 675
1989 VP ₁	1989 11 25.29878	02 49 32.80	+02 08 08.4	18.5 9 675	1991 AE ₃	1991 01 22.29444	09 04 53.38	+15 36 19.7	17.8 9 675
1989 VP ₁	1989 11 25.32917	02 49 31.49	+02 07 57.0	9 675	1991 AE ₃	1991 01 22.33316	09 04 51.34	+15 36 33.9	9 675
1989 VC ₂	1991 01 19.25420	07 35 57.63	+30 35 12.8	17.8 9 675	1991 BK	1991 01 19.25420	07 34 47.18	+30 33 51.3	15.5 9 675
1989 VC ₂	1991 01 19.29410	07 35 55.54	+30 35 16.2	9 675	1991 BK	1991 01 19.29410	07 34 44.93	+30 34 03.1	9 675
1989 WT	1991 04 19.33889	13 12 46.07	-01 39 18.4	9 675	1991 BK ₂	1991 01 19.25420	07 45 09.70	+23 32 48.4	17.8 9 675
1989 WT	1991 04 19.36736	13 12 44.31	-01 39 11.9	16.8 9 675	1991 BK ₂	1991 01 19.29410	07 45 07.53	+23 32 55.6	9 675
1990 BN	1993 12 07.24688	03 21 27.11	+03 05 10.7	17.2 9 675	1991 BP ₂	1991 01 22.29444	08 34 56.00	+18 44 29.8	9 675

1991 BP ₂	1991 01 22.33316	08 34 52.24	+18 43 58.3	15.5	9 675	1991 GF ₁₁	1991 04 19.33889	13 13 44.28	-04 23 13.9	9 675
1991 CU	1991 01 22.29444	08 56 46.97	+13 55 25.2	17.8	9 675	1991 GF ₁₁	1991 04 19.36736	13 13 42.83	-04 23 06.9	9 675
1991 CU	1991 01 22.33316	08 56 44.85	+13 55 40.8		9 675	1991 GH ₁₁	1991 04 19.33889	13 15 55.19	-04 24 26.9	9 675
1991 CU ₁	1992 06 28.38403	20 54 52.99	-15 04 51.1	18.8	9 675	1991 GH ₁₁	1991 04 19.36736	13 15 53.86	-04 24 19.4	9 675
1991 CU ₁	1992 06 28.41510	20 54 51.78	-15 04 50.2		9 675	1991 GK ₁₁	1991 04 19.33889	13 16 05.66	-04 27 32.9	18.8 9 675
1991 CU ₁	1993 12 09.24340	03 49 08.31	+23 29 12.4	16.8	9 675	1991 GK ₁₁	1991 04 19.36736	13 16 04.03	-04 27 23.7	9 675
1991 CU ₁	1993 12 09.27483	03 49 06.39	+23 29 02.1		9 675	1991 HC	1992 10 22.36667	03 00 13.41	+10 51 48.9	17.8 9 675
1991 DU	1991 02 10.44531	10 51 17.81	+10 22 26.1		9 675	1991 HC	1992 10 22.39861	03 00 11.41	+10 51 41.8	9 675
1991 DU	1991 02 10.49965	10 51 15.29	+10 22 39.2		9 675	1991 LY	1986 03 04.36076	11 43 28.33	+21 19 49.6	18.5 9 675
1991 DH ₁	1991 03 13.22066	10 30 47.14	+12 10 00.2		9 675	1991 RZ ₁₀	1991 10 08.39670	01 19 40.10	+04 26 51.3	17.8 9 675
1991 DH ₁	1991 03 13.24931	10 30 45.94	+12 10 20.9		9 675	1991 RZ ₁₀	1991 10 08.42222	01 19 38.82	+04 26 44.3	9 675
1991 FP	1991 04 19.33889	13 26 37.22	-02 03 16.3	16.5	9 675	1991 RA ₁₁	1991 10 08.39670	01 19 18.02	+07 52 42.7	17.5 9 675
1991 FP	1991 04 19.36736	13 26 36.13	-02 02 59.1		9 675	1991 RA ₁₁	1991 10 08.42222	01 19 16.61	+07 52 41.6	9 675
1991 FO ₁	1988 09 10.23273	21 24 54.71	-16 17 59.0	18.5	9 675	1991 RB ₁₁	1991 10 08.39670	01 24 52.40	+07 11 25.0	17.2 9 675
1991 FO ₁	1988 09 10.26944	21 24 53.37	-16 18 03.3		9 675	1991 RB ₁₁	1991 10 08.42222	01 24 51.23	+07 11 17.3	9 675
1991 FB ₄	1993 12 09.24340	03 40 24.56	+25 50 06.7	18.2	9 675	1991 SN ₁	1991 10 08.39670	01 13 23.45	+09 12 30.0	17.0 9 675
1991 FB ₄	1993 12 09.27483	03 40 22.98	+25 50 00.7		9 675	1991 SN ₁	1991 10 08.42222	01 13 22.17	+09 12 12.3	9 675
1991 GH ₁	1991 04 19.33889	13 24 06.70	-03 14 01.6	16.8	9 675	1991 SV ₁	1991 10 08.39670	01 08 59.80	+07 03 12.7	16.8 9 675
1991 GH ₁	1991 04 19.36736	13 24 05.10	-03 13 55.5		9 675	1991 SV ₁	1991 10 08.42222	01 08 58.27	+07 03 11.4	9 675
1991 GK ₁	1991 04 19.33889	13 18 31.59	-05 47 21.8	17.8	9 675	1991 SM ₂	1991 10 08.39670	01 18 53.62	+08 55 41.2	17.8 9 675
1991 GK ₁	1991 04 19.36736	13 18 29.93	-05 47 14.4		9 675	1991 SM ₂	1991 10 08.42222	01 18 51.85	+08 55 37.1	9 675
1991 GE ₃	1991 04 19.33889	13 00 07.35	-02 07 00.6	18.2	9 675	1991 TL	1994 09 09.25182	22 03 57.72	-15 26 49.7	17.8 9 675
1991 GE ₃	1991 04 19.36736	13 00 06.04	-02 06 51.1		9 675	1991 TL	1994 09 09.27986	22 03 56.55	-15 27 03.2	9 675
1991 GP ₄	1991 04 19.33889	13 14 11.07	-04 03 21.5		9 675	1991 TL	1994 10 01.13160	21 57 05.31	-17 09 59.7	19.0 9 675
1991 GP ₄	1991 04 19.36736	13 14 09.86	-04 03 09.5	17.2	9 675	1991 TL	1994 10 01.16094	21 57 05.24	-17 10 04.3	9 675
1991 GT ₄	1991 04 19.36736	13 12 33.93	-05 45 53.7		9 675	1991 TH ₁	1991 10 08.39670	01 18 36.96	+07 17 28.8	16.5 9 675
1991 GY ₄	1991 04 19.33889	13 14 19.35	-05 26 22.8		9 675	1991 TH ₁	1991 10 08.42222	01 18 34.28	+07 17 53.0	9 675
1991 GY ₄	1991 04 19.36736	13 14 17.55	-05 26 15.1	17.5	9 675	1991 VP ₁	1994 09 09.27986	22 12 54.13	-16 10 19.6	17.5 9 675
1991 GM ₉	1991 04 19.33889	13 14 36.46	-04 34 31.2	17.8	9 675	1991 VP ₁	1994 10 01.13160	21 58 50.55	-17 42 57.0	18.8 9 675
1991 GM ₉	1991 04 19.36736	13 14 35.20	-04 34 23.1		9 675	1991 VP ₁	1994 10 01.16094	21 58 49.92	-17 42 58.5	9 675
1991 GN ₉	1991 04 19.33889	13 12 53.54	-04 31 30.6		9 675	1991 VE ₄	1994 10 01.13160	21 55 28.86	-16 08 12.8	17.5 9 675
1991 GN ₉	1991 04 19.36736	13 12 51.92	-04 31 22.1		9 675	1991 VE ₄	1994 10 01.16094	21 55 29.06	-16 08 16.8	9 675
1991 GF ₁₀	1991 04 19.33889	13 00 37.77	-00 01 01.0		9 675	1992 CF ₁	1993 07 25.31372	21 20 48.96	-24 27 53.5	16.8 9 675
1991 GF ₁₀	1991 04 19.36736	13 00 36.41	-00 00 56.7	18.5	9 675	1992 CF ₁	1993 07 25.34244	21 20 47.23	-24 27 57.1	9 675
1991 GG ₁₀	1992 08 27.17326	20 26 16.72	-21 22 57.8	19.0	9 675	1992 CF ₁	1993 10 09.12569	20 48 47.54	-21 20 09.9	18.5 9 675
1991 GG ₁₀	1992 08 27.20556	20 26 15.09	-21 23 04.0		9 675	1992 CF ₁	1993 10 09.16944	20 48 49.01	-21 19 53.4	9 675
1991 GH ₁₀	1991 04 19.33889	12 59 39.04	+00 01 56.5		9 675	1992 CU ₂	1988 05 15.32587	14 59 13.72	-25 44 35.6	18.8 9 675
1991 GH ₁₀	1991 04 19.36736	12 59 37.37	+00 02 01.1	18.2	9 675	1992 CU ₂	1988 05 15.35260	14 59 12.59	-25 44 26.7	9 675
1991 GJ ₁₀	1991 04 19.33889	13 01 14.03	-00 29 01.8	18.0	9 675	1992 DS ₆	1993 08 13.23524	20 58 35.99	-29 22 32.1	15.0 9 675
1991 GJ ₁₀	1991 04 19.36736	13 01 12.66	-00 28 59.1		9 675	1992 DS ₆	1993 08 13.26441	20 58 34.37	-29 22 26.7	9 675
1991 GK ₁₀	1991 04 19.33889	13 01 57.30	-01 17 53.8	18.2	9 675	1992 DS ₆	1993 10 09.12569	20 54 55.19	-22 31 46.9	9 675
1991 GK ₁₀	1991 04 19.36736	13 01 55.94	-01 17 46.7		9 675	1992 DS ₆	1993 10 09.16944	20 54 57.25	-20 31 19.6	17.2 9 675
1991 GM ₁₀	1991 04 19.33889	13 04 32.23	-00 29 21.5	18.8	9 675	1992 ER	1993 08 13.23524	21 12 04.10	-26 41 43.3	17.8 9 675
1991 GM ₁₀	1991 04 19.36736	13 04 31.17	-00 29 16.2		9 675	1992 ER	1993 08 13.26441	21 12 02.09	-26 41 46.2	9 675
1991 GR ₁₀	1991 04 19.33889	13 02 56.37	+00 28 52.3	18.8	9 675	1992 EC ₄	1994 09 09.25182	22 03 56.02	-14 44 55.5	17.5 9 675
1991 GR ₁₀	1991 04 19.36736	13 02 54.69	+00 28 52.0		9 675	1992 EC ₄	1994 09 09.27986	22 03 54.72	-14 45 04.1	9 675
1991 GS ₁₀	1991 04 19.33889	13 03 57.22	-01 05 50.0		9 675	1992 EM ₈	1994 09 09.25182	21 53 53.52	-20 47 14.2	18.5 9 675
1991 GS ₁₀	1991 04 19.36736	13 03 55.59	-01 05 44.4		9 675	1992 EM ₈	1994 09 09.27986	21 53 52.20	-20 47 21.3	9 675
1991 GU ₁₀	1991 04 19.33889	13 06 17.71	+00 13 01.3	18.8	9 675	1992 EQ ₈	1994 09 09.25182	22 16 42.66	-15 48 11.8	17.0 9 675
1991 GU ₁₀	1991 04 19.36736	13 06 16.10	+00 13 00.1		9 675	1992 EQ ₈	1994 09 09.27986	22 16 41.37	-15 48 18.4	9 675
1991 GV ₁₀	1991 04 19.33889	13 08 07.23	-01 42 39.4		9 675	1992 EQ ₈	1994 10 01.13160	22 04 47.51	-16 41 03.5	17.5 9 675
1991 GV ₁₀	1991 04 19.36736	13 08 05.78	-01 42 38.4		9 675	1992 EQ ₈	1994 10 01.16094	22 04 46.99	-16 41 04.6	9 675

1992 FS	1993 08 15.30000	21 57 31.96	-22 27 24.4	16.8	9 675	1993 FB ₂₂	1991 10 08.42222	01 14 10.69	+08 14 16.6		9 675
1992 FS	1993 08 15.32726	21 57 30.41	-22 27 30.4		9 675	1993 JG	1986 03 04.36076	11 44 14.29	+17 18 17.4	18.2	9 675
1992 FL ₁	1988 05 15.32587	14 51 36.68	-31 43 23.8	17.5	9 675	1993 LC	1994 10 03.42274	02 19 45.74	+20 22 18.2	18.5	9 675
1992 FY ₁	1993 08 13.26441	20 59 43.47	-32 06 15.3	17.5	9 675	1993 LC	1994 10 03.45799	02 19 44.35	+20 22 06.1		9 675
1992 HK ₁	1991 01 22.33316	09 01 34.10	+21 03 39.4		9 675	1993 OA ₄	1991 01 22.33316	08 41 43.46	+18 35 05.6	18.5	9 675
1992 HA ₅	1991 02 10.44531	11 00 15.19	+09 15 15.8		9 675	1993 OF ₉	1991 01 19.25420	07 42 18.16	+22 54 07.6	17.2	9 675
1992 HA ₅	1991 02 10.49965	11 00 13.16	+09 15 28.7	18.8	9 675	1993 OF ₉	1991 01 19.29410	07 42 15.93	+22 54 06.4		9 675
1992 KQ	1993 12 07.24688	03 04 00.37	-00 05 14.9	17.2	9 675	1993 PV ₆	1991 01 22.29444	09 03 28.79	+17 42 05.8	18.8	9 675
1992 KQ	1993 12 07.27917	03 03 59.00	-00 05 06.5		9 675	1993 PV ₆	1991 01 22.33316	09 03 26.38	+17 42 14.9		9 675
1992 OV ₂	1989 11 25.29878	02 39 12.67	-00 15 24.1	18.0	9 675	1993 PW ₇	1991 01 22.29444	09 02 06.71	+18 24 11.6	18.5	9 675
1992 OV ₂	1989 11 25.32917	02 39 11.23	-00 15 22.1		9 675	1993 PW ₇	1991 01 22.33316	09 02 04.73	+18 24 18.9		9 675
1992 PH ₁	1991 01 22.29444	08 59 12.76	+16 47 46.1	18.8	9 675	1993 QD ₁	1993 08 15.30000	22 07 38.11	-19 35 13.0		9 675
1992 RX	1991 02 10.44531	10 51 38.60	+13 44 32.5	17.2	9 675	1993 QD ₁	1993 08 15.32726	22 07 36.12	-19 35 05.3	18.2	9 675
1992 RX	1991 02 10.49965	10 51 35.72	+13 44 48.6		9 675	1993 QE ₁	1993 08 15.30000	22 20 11.74	-21 11 13.5	16.5	9 675
1992 RF ₇	1993 12 09.24340	03 48 12.41	+22 49 05.5	18.5	9 675	1993 QE ₁	1993 08 15.32726	22 20 10.57	-21 11 34.5		9 675
1992 SM ₁₂	1988 09 10.23273	21 19 17.45	-15 55 39.3	17.5	9 675	1993 QH ₃	1988 09 10.23273	21 29 23.24	-13 41 15.0	18.0	9 675
1992 SM ₁₂	1991 04 19.33889	13 17 00.01	+00 56 58.1	17.2	9 675	1993 QH ₃	1988 09 10.26944	21 29 21.84	-13 41 21.6		9 675
1992 SM ₁₂	1991 04 19.36736	13 16 58.41	+00 57 10.2		9 675	1993 SG ₁	1989 11 25.29878	02 48 21.31	-05 16 39.3		9 675
1992 SV ₁₂	1988 05 15.32587	14 45 44.02	-26 56 38.8	16.5	9 675	1993 SG ₁	1989 11 25.32917	02 48 20.24	-05 16 41.3		9 675
1992 SV ₁₂	1988 05 15.35260	14 45 41.98	-26 56 37.5		9 675	1993 SR ₁	1991 01 19.25420	07 29 10.01	+28 22 17.8	18.0	9 675
1992 UY ₂	1992 10 22.36667	03 08 05.01	+15 14 52.3	17.5	9 675	1993 SR ₁	1991 01 19.29410	07 29 07.12	+28 22 22.7		9 675
1992 UY ₂	1992 10 22.39861	03 08 03.32	+15 14 38.3		9 675	1993 TU ₃₈	1991 04 19.33889	13 25 59.98	-00 07 16.6	18.5	9 675
1992 UZ ₂	1992 10 22.36667	03 08 07.14	+15 11 09.4	17.5	9 675	1993 TU ₃₈	1991 04 19.36736	13 25 58.54	-00 07 11.6		9 675
1992 UZ ₂	1992 10 22.39861	03 08 05.66	+15 11 06.2		9 675	1993 WQ	1991 04 19.33889	13 21 25.73	-05 13 58.2	18.2	9 675
1992 UE ₄	1992 10 22.36667	03 03 43.71	+10 31 47.2	17.2	9 675	1993 WQ	1991 04 19.36736	13 21 24.29	-05 13 51.0		9 675
1992 UE ₄	1992 10 22.39861	03 03 42.21	+10 31 44.1		9 675	1993 XF	1992 08 27.17326	20 30 14.99	-20 46 35.2	18.2	9 675
1992 UG ₄	1992 10 22.36667	02 54 58.22	+12 23 20.7	17.0	9 675	1993 XF	1992 08 27.20556	20 30 13.80	-20 46 41.5		9 675
1992 UG ₄	1992 10 22.39861	02 54 56.64	+12 23 18.2		9 675	1993 YH	1992 10 22.36667	03 01 52.66	+14 12 49.1		9 675
1992 UX ₅	1951 12 27.41250	08 20 03.00	+12 09 58.8		6 675	1993 YH	1992 10 22.39861	03 01 51.40	+14 12 43.1		9 675
1992 UX ₅	1951 12 27.44306	08 20 01.71	+12 10 03.5	18.0	6 675	1994 AQ	1992 06 28.38403	20 53 03.25	-14 01 16.8	17.5	9 675
1992 UX ₅	1992 10 22.36667	03 25 26.38	+10 13 51.3	17.2	9 675	1994 AQ	1992 06 28.41510	20 53 02.53	-14 01 29.5		9 675
1992 UX ₅	1992 10 22.39861	03 25 24.83	+10 13 39.9		9 675	1994 AQ	1992 08 27.20556	20 10 11.10	-23 04 09.3		9 675
1992 UL ₆	1992 10 22.36667	03 26 50.01	+12 54 29.6	17.5	9 675	1994 CP ₁₀	1991 10 08.42222	01 18 28.97	+11 45 20.1		9 675
1992 UL ₆	1992 10 22.39861	03 26 48.63	+12 54 27.0		9 675	1994 ER ₃	1951 12 27.41250	08 37 13.40	+11 16 22.0		6 675
1992 WP ₅	1988 09 10.23273	21 30 19.38	-19 24 17.5	17.0	9 675	1994 ER ₃	1951 12 27.44306	08 37 12.84	+11 16 28.9	16.5	6 675
1992 WP ₅	1988 09 10.26944	21 30 17.94	-19 24 24.0	17.5	9 675	1994 ER ₃	1988 10 07.40799	02 30 16.23	+03 14 58.4	17.8	9 675
1993 BM ₁₂	1991 10 08.42222	01 05 04.93	+09 25 11.6		9 675	1994 ER ₃	1988 10 07.43455	02 30 15.17	+03 14 45.8		9 675
1993 DD ₁	1994 09 09.25182	22 11 08.75	-17 06 27.1	18.2	9 675	1994 EG ₆	1991 04 19.33889	13 25 35.31	+02 07 17.8	18.0	9 675
1993 DD ₁	1994 09 09.27986	22 11 07.06	-17 06 30.6		9 675	1994 EG ₆	1991 04 19.36736	13 25 33.59	+02 07 30.7		9 675
1993 DD ₁	1994 10 01.13160	21 55 53.68	-17 15 44.0	18.2	9 675	1994 FZ	1954 05 28.26563	15 49 24.15	-12 29 38.7	16.5	6 675
1993 DD ₁	1994 10 01.16094	21 55 52.92	-17 15 40.2		9 675	1994 FZ	1954 05 28.28994	15 49 22.77	-12 29 40.6		6 675
1993 EQ	1991 10 07.41684	02 10 27.38	+15 49 41.6	17.8	9 675	1994 PA ₁	1994 09 07.32066	21 58 45.59	-05 26 33.8	17.5	9 675
1993 EQ	1991 10 07.45260	02 10 25.25	+15 49 41.3		9 675	1994 PA ₁	1994 09 07.35590	21 58 44.14	-05 26 50.0		9 675
1993 EQ	1994 09 09.25182	22 15 40.24	-18 54 14.6	18.0	9 675	1994 PG ₄	1994 09 09.25182	22 12 52.10	-15 47 06.7	18.8	9 675
1993 EQ	1994 09 09.27986	22 15 38.55	-18 54 16.8		9 675	1994 PG ₄	1994 09 09.27986	22 12 51.08	-15 47 24.3		9 675
1993 EQ	1994 10 01.13160	21 59 53.45	-18 37 21.0	18.8	9 675	1994 PX ₄	1994 09 07.32066	22 07 48.14	-08 05 23.3	18.5	9 675
1993 EQ	1994 10 01.16094	21 59 52.58	-18 37 16.8	19.0	9 675	1994 PX ₄	1994 09 07.35590	22 07 46.13	-08 05 21.6		9 675
1993 FS ₉	1994 09 09.25182	22 21 46.22	-16 19 15.6	16.2	9 675	1994 PY ₅	1994 09 09.25182	22 24 53.20	-16 35 55.4	18.5	9 675
1993 FS ₉	1994 09 09.27986	22 21 45.23	-16 19 29.2		9 675	1994 PK ₇	1994 10 01.13160	22 05 37.84	-14 42 05.7	18.5	9 675
1993 FS ₉	1994 10 01.13160	22 16 39.82	-18 09 07.2	17.2	9 675	1994 PK ₇	1994 10 01.16094	22 05 37.49	-14 42 11.0		9 675
1993 FS ₉	1994 10 01.16094	22 16 39.95	-18 09 09.1		9 675	1994 PQ ₉	1994 09 09.25182	22 16 42.34	-17 21 20.4	18.8	9 675
1993 FB ₂₂	1991 10 08.39670	01 14 12.11	+08 14 24.2	18.5	9 675	1994 PQ ₉	1994 09 09.27986	22 16 40.84	-17 21 53.9		9 675

1994 PU ₂₄	1994 09 09.25182	22 07 06.56	-15 07 35.4	18.5	9 675	1994 PC ₃₉	1994 09 07.35590	21 59 52.70	-08 32 07.2		9 675
1994 PU ₂₄	1994 09 09.27986	22 07 05.36	-15 07 43.4		9 675	1994 PQ ₃₉	1994 09 07.32066	22 00 22.63	-08 47 29.9	18.0	9 675
1994 PV ₂₄	1994 10 01.13160	21 59 35.28	-15 14 38.5		9 675	1994 PQ ₃₉	1994 09 07.35590	22 00 20.85	-08 47 32.4		9 675
1994 PV ₂₄	1994 10 01.16094	21 59 34.78	-15 14 39.3		9 675	1994 RX	1994 09 09.25182	22 24 53.88	-19 44 37.8	16.2	9 675
1994 PF ₂₅	1994 09 09.25182	22 07 28.89	-16 07 59.1	18.5	9 675	1994 RX	1994 09 09.27986	22 24 52.55	-19 44 52.5		9 675
1994 PF ₂₅	1994 09 09.27986	22 07 27.71	-16 08 05.9		9 675	1994 RX	1994 10 01.13160	22 14 52.91	-21 49 01.7	17.0	9 675
1994 PH ₂₅	1994 09 09.25182	22 09 12.29	-15 11 56.0	18.2	9 675	1994 RX	1994 10 01.16094	22 14 52.57	-21 49 05.2		9 675
1994 PH ₂₅	1994 09 09.27986	22 09 11.27	-15 12 10.3		9 675	1994 RY ₁	1994 09 07.32066	22 01 42.00	-04 25 09.8	15.8	9 675
1994 PL ₂₅	1994 09 09.25182	22 10 38.51	-15 19 19.3	18.5	9 675	1994 RY ₁	1994 09 07.35590	22 01 41.12	-04 25 49.4		9 675
1994 PL ₂₅	1994 09 09.27986	22 10 37.46	-15 19 29.6		9 675	1994 SC	1994 09 07.32066	21 42 57.32	-08 18 55.8	18.0	9 675
1994 PN ₂₅	1994 09 09.25182	22 04 49.55	-14 56 39.3	18.5	9 675	1994 SC	1994 09 07.35590	21 42 55.74	-08 19 08.1		9 675
1994 PC ₂₆	1994 09 09.25182	22 11 20.39	-16 18 48.9	19.0	9 675	1994 TU ₁	1994 11 29.11771	01 21 46.06	+19 57 00.7		9 675
1994 PC ₂₆	1994 09 09.27986	22 11 19.17	-16 19 00.8		9 675	1994 TU ₁	1994 11 29.15573	01 21 45.47	+19 56 52.2	18.8	9 675
1994 PH ₂₆	1994 09 09.25182	22 11 11.72	-15 26 09.1	18.8	9 675	1994 TA ₃	1994 11 29.11771	01 15 11.99	+13 59 35.8	17.5	9 675
1994 PH ₂₆	1994 09 09.27986	22 11 10.55	-15 26 15.0		9 675	1994 TA ₃	1994 11 29.15573	01 15 12.12	+13 59 39.7		9 675
1994 PP ₂₆	1994 09 09.25182	22 08 19.53	-15 16 24.5	18.2	9 675	1994 TD ₃	1994 11 29.11771	01 16 17.12	+12 38 58.6		9 675
1994 PP ₂₆	1994 09 09.27986	22 08 18.07	-15 16 30.3		9 675	1994 TD ₃	1994 11 29.15573	01 16 16.61	+12 39 00.3	18.0	9 675
1994 PW ₂₆	1994 09 09.25182	22 14 33.48	-14 50 22.5	17.8	9 675	1994 TQ ₃	1994 10 03.42274	02 33 06.48	+18 38 34.4	16.8	9 675
1994 PW ₂₆	1994 09 09.27986	22 14 32.29	-14 50 36.2		9 675	1994 TQ ₃	1994 10 03.45799	02 33 04.75	+18 38 42.7		9 675
1994 PZ ₂₆	1994 09 09.25182	22 16 16.73	-15 06 56.1	18.2	9 675	1994 TD ₁₅	1994 11 29.11771	01 20 55.30	+12 01 49.7	17.8	9 675
1994 PZ ₂₆	1994 09 09.27986	22 16 15.46	-15 07 06.1		9 675	1994 TD ₁₅	1994 11 29.15573	01 20 54.85	+12 02 18.2		9 675
1994 PZ ₂₆	1994 10 01.13160	22 04 44.08	-16 57 09.6		9 675	1994 UT	1994 11 29.11771	01 21 22.42	+14 31 55.2	18.0	9 675
1994 PZ ₂₆	1994 10 01.16094	22 04 43.51	-16 57 16.7	18.0	9 675	1994 UT	1994 11 29.15573	01 21 22.38	+14 31 46.8		9 675
1994 PA ₂₇	1994 09 09.25182	22 15 45.40	-16 25 08.7	18.5	9 675	1994 UW	1994 10 03.42274	02 24 38.16	+16 56 27.7	18.2	9 675
1994 PA ₂₇	1994 09 09.27986	22 15 44.15	-16 25 25.0		9 675	1994 UW	1994 10 03.45799	02 24 36.70	+16 56 30.5		9 675
1994 PF ₂₇	1994 09 09.25182	22 15 28.12	-14 47 29.8	17.8	9 675	1994 UW	1994 11 29.11771	01 37 20.17	+16 19 51.6		9 675
1994 PF ₂₇	1994 09 09.27986	22 15 26.95	-14 47 31.5		9 675	1994 UW	1994 11 29.15573	01 37 19.60	+16 19 51.3		9 675
1994 PJ ₂₇	1994 09 09.25182	22 12 51.70	-16 19 50.8	18.5	9 675	1994 UY	1994 10 03.42274	02 25 17.97	+19 26 51.3	18.2	9 675
1994 PJ ₂₇	1994 09 09.27986	22 12 50.17	-16 19 56.5		9 675	1994 UY	1994 10 03.45799	02 25 16.69	+19 26 50.4		9 675
1994 PR ₂₇	1994 09 09.25182	22 14 47.92	-15 12 51.9	18.2	9 675	1994 UZ	1994 10 03.42274	02 24 14.04	+17 00 44.2	17.8	9 675
1994 PR ₂₇	1994 09 09.27986	22 14 46.46	-15 12 55.0		9 675	1994 UZ	1994 10 03.45799	02 24 12.97	+17 00 43.9		9 675
1994 PR ₂₇	1994 10 01.13160	22 01 06.37	-15 42 03.6	19.0	9 675	1994 UJ ₂	1986 03 04.36076	11 39 25.40	+22 49 41.8	18.2	9 675
1994 PR ₂₇	1994 10 01.16094	22 01 05.37	-15 42 02.9		9 675	1994 UU ₆	1994 11 29.11771	01 38 12.39	+15 53 10.1	18.2	9 675
1994 PV ₂₇	1994 09 09.25182	22 16 27.58	-15 01 29.5	19.0	9 675	1994 UU ₆	1994 11 29.15573	01 38 12.16	+15 53 15.6		9 675
1994 PV ₂₇	1994 09 09.27986	22 16 26.40	-15 01 37.5		9 675	1994 UT ₁₁	1994 10 03.42274	02 24 03.34	+24 23 57.3		9 675
1994 PV ₃₃	1994 09 07.32066	21 46 44.93	-09 06 15.7	18.8	9 675	1994 UT ₁₁	1994 10 03.45799	02 24 02.09	+24 23 43.5		9 675
1994 PV ₃₃	1994 09 07.35590	21 46 43.39	-09 06 21.3		9 675	1994 VO ₂	1991 04 19.33889	13 02 32.69	-01 16 20.8	17.5	9 675
1994 PS ₃₆	1994 09 07.32066	21 55 17.37	-08 59 07.9	18.8	9 675	1994 VO ₂	1991 04 19.36736	13 02 31.54	-01 16 15.1		9 675
1994 PS ₃₆	1994 09 07.35590	21 55 15.99	-08 59 20.8		9 675	1994 WM	1993 08 17.40260	23 45 06.71	-15 48 53.4	18.0	9 675
1994 PJ ₃₇	1994 09 07.32066	21 58 07.13	-09 41 45.9	19.0	9 675	1994 WM	1993 08 17.42934	23 45 05.70	-15 49 03.1		9 675
1994 PJ ₃₇	1994 09 07.35590	21 58 05.66	-09 42 04.1		9 675	1994 WF ₄	1993 07 25.31372	21 21 58.81	-18 31 55.2		9 675
1994 PK ₃₇	1994 09 07.32066	21 52 36.90	-08 50 00.4	19.0	9 675	1994 WF ₄	1993 07 25.34244	21 21 57.38	-18 32 07.7		9 675
1994 PK ₃₇	1994 09 07.35590	21 52 35.10	-08 50 09.3		9 675	1994 XJ	1993 08 15.30000	22 09 57.29	-23 45 49.7	17.5	9 675
1994 PO ₃₇	1994 09 07.32066	21 59 50.47	-09 17 04.9	18.5	9 675	1994 XJ	1993 08 15.32726	22 09 55.67	-23 45 59.0		9 675
1994 PO ₃₇	1994 09 07.35590	21 59 49.09	-09 17 16.1		9 675	1994 XO	1989 11 25.29878	02 57 38.87	+02 11 11.4	15.5	9 675
1994 PE ₃₈	1994 09 07.32066	21 59 10.82	-08 35 42.6	18.2	9 675	1994 XO	1989 11 25.32917	02 57 37.30	+02 11 20.1		9 675
1994 PE ₃₈	1994 09 07.35590	21 59 09.19	-08 35 46.5		9 675	1994 XC ₁	1991 01 19.25420	07 42 40.43	+30 27 34.5	18.0	9 675
1994 PM ₃₈	1994 09 07.32066	21 57 41.57	-08 16 09.5	18.8	9 675	1994 XC ₁	1991 01 19.29410	07 42 37.65	+30 27 52.9		9 675
1994 PM ₃₈	1994 09 07.35590	21 57 40.04	-08 16 25.2		9 675	1994 YM	1993 08 13.23524	21 19 22.62	-28 12 22.2	16.8	9 675
1994 PA ₃₉	1994 09 07.32066	21 58 28.23	-08 14 17.9	18.8	9 675	1994 YM	1993 08 13.26441	21 19 20.96	-28 12 37.2		9 675
1994 PA ₃₉	1994 09 07.35590	21 58 26.50	-08 14 29.4		9 675	1995 BS ₁	1991 02 10.44531	11 21 17.86	+13 20 40.8	17.2	9 675
1994 PC ₃₉	1994 09 07.32066	21 59 54.43	-08 31 57.5	18.8	9 675	1995 BS ₁	1991 02 10.49965	11 21 15.81	+13 21 13.7		9 675

1995 BS ₁	1993 08 17.40260	23 46 35.43	-12 57 44.6	16.5	9 675	1996 CQ ₁	1994 09 07.32066	22 06 20.78	-07 41 41.2	18.0	9 675
1995 BS ₁	1993 08 17.42934	23 46 34.88	-12 58 04.0		9 675	1996 CQ ₁	1994 09 07.35590	22 06 18.79	-07 41 42.8		9 675
1995 CX	1991 01 22.29444	08 36 53.94	+18 37 31.7	18.0	9 675	1996 CL ₂	1994 10 03.42274	02 22 26.62	+21 09 47.7	16.8	9 675
1995 CX	1991 01 22.33316	08 36 51.44	+18 37 50.6		9 675	1996 CL ₂	1994 10 03.45799	02 22 25.12	+21 09 52.7		9 675
1995 CX	1993 12 07.24688	03 18 43.30	-02 28 05.8	16.5	9 675	1996 CL ₂	1994 11 07.25747	01 51 17.73	+21 16 54.9	17.2	9 675
1995 CX	1993 12 07.27917	03 18 41.86	-02 27 54.1		9 675	1996 CL ₂	1994 11 07.28715	01 51 16.07	+21 16 51.8		9 675
1995 CE ₂	1992 06 28.38403	20 54 10.99	-10 24 08.9	18.0	9 675	1996 CS ₈	1991 04 19.33889	13 21 57.97	+01 01 38.4	17.5	9 675
1995 CE ₂	1992 06 28.41510	20 54 09.39	-10 23 50.7		9 675	1996 CS ₈	1991 04 19.36736	13 21 56.71	+01 01 46.3		9 675
1995 DA	1991 04 19.33889	13 10 45.37	-00 57 40.0	18.0	9 675	1996 DJ ₁	1988 09 10.23273	21 05 33.60	-15 33 49.3		9 675
1995 DA	1991 04 19.36736	13 10 43.78	-00 57 36.1		9 675	1996 DJ ₁	1988 09 10.26944	21 05 32.47	-15 33 56.3		9 675
1995 DE	1988 09 10.23273	21 15 04.15	-15 11 25.4		9 675	1996 EW ₂	1994 10 03.42274	02 37 04.69	+20 00 02.3		9 675
1995 DE	1988 09 10.26944	21 15 03.21	-15 11 47.3	16.8	9 675	1996 EW ₂	1994 10 03.45799	02 37 03.05	+19 59 58.7		9 675
1995 DK	1993 12 07.24688	03 26 16.64	+04 06 11.1	18.2	9 675	1996 GG ₂	1991 01 22.29444	08 45 36.18	+17 20 19.9	18.8	9 675
1995 DK	1993 12 07.27917	03 26 15.26	+04 06 08.4		9 675	1996 GG ₂	1991 01 22.33316	08 45 34.01	+17 20 26.7		9 675
1995 DJ ₁	1993 12 09.24340	03 57 44.30	+23 12 03.1	18.5	9 675	1996 GA ₁₈	1971 04 16.22812	12 35 30.77	-05 53 39.7	19.1	4 675
1995 DJ ₁	1993 12 09.27483	03 57 42.40	+23 11 58.1		9 675	1996 GA ₁₈	1971 04 16.30139	12 35 27.77	-05 52 59.1	19.0	4 675
1995 EF ₁	1991 01 19.25420	07 29 40.81	+26 58 11.7	16.8	9 675	1996 GA ₁₈	1971 05 14.19427	12 25 52.33	-02 42 08.1	19.0	4 675
1995 EF ₁	1991 01 19.29410	07 29 38.08	+26 58 18.6		9 675	1996 GA ₁₈	1971 05 14.24549	12 25 52.24	-02 41 56.0	18.5	4 675
1995 EZ ₈	1991 01 22.29444	08 38 09.69	+15 34 35.1	18.2	9 675	1996 HZ ₁	1993 08 17.40260	23 42 35.21	-13 16 52.4	17.5	9 675
1995 EZ ₈	1991 01 22.33316	08 38 07.09	+15 34 46.2		9 675	1996 HZ ₁	1993 08 17.42934	23 42 34.44	-13 17 06.7		9 675
1995 KO ₁	1988 05 13.44826	17 13 49.60	+17 36 28.5	18.2	3 675	1996 JF	1993 07 25.31372	21 13 34.63	-24 14 59.7		9 675
1995 KO ₁	1988 05 13.47222	17 13 48.64	+17 36 28.6		3 675	1996 JF	1993 07 25.34244	21 13 32.85	-24 15 12.1	18.5	9 675
1995 QN	1991 04 19.33889	13 07 08.79	-01 49 14.5	17.2	9 675	1996 NG	1991 09 09.42674	00 35 47.88	-06 21 14.4		2 675
1995 QN	1991 04 19.36736	13 07 07.11	-01 49 02.1		9 675	1996 NG	1991 09 09.45972	00 35 46.72	-06 21 25.8		2 675
1995 QN	1992 10 22.36667	03 27 04.13	+12 36 21.7	17.8	9 675	1996 TG	1991 01 22.33316	08 43 57.85	+19 54 40.0		9 675
1995 QN	1992 10 22.39861	03 27 02.38	+12 36 12.8		9 675	1996 TN	1991 02 10.44531	11 15 09.89	+14 49 49.7		9 675
1995 QY ₂	1991 03 13.22066	10 54 14.64	+17 03 07.2		9 675	1996 TN	1991 02 10.49965	11 15 07.16	+14 50 08.9	17.8	9 675
1995 QY ₂	1991 03 13.24931	10 54 13.14	+17 03 25.8	17.8	9 675	1996 TN	1991 03 13.22066	10 44 59.98	+17 29 53.6		9 675
1995 WU ₂	1994 10 01.13160	22 19 59.97	-18 48 51.6	18.2	9 675	1996 TN	1991 03 13.24931	10 44 58.20	+17 29 59.4	17.8	9 675
1995 WU ₂	1994 10 01.16094	22 19 59.16	-18 48 51.4		9 675	1996 TV ₁₀	1993 12 09.24340	03 47 37.87	+23 47 04.3		9 675
1995 WZ ₃	1994 10 01.13160	22 10 04.74	-22 39 45.2	17.5	9 675	1996 TV ₁₀	1993 12 09.27483	03 47 35.83	+23 47 00.5		9 675
1995 WZ ₃	1994 10 01.16094	22 10 03.95	-22 39 44.0	18.2	9 675	1996 VJ ₃₈	1992 08 27.17326	20 04 13.28	-21 00 37.3	18.2	9 675
1995 WN ₅	1994 10 01.13160	22 14 19.57	-20 21 56.8	18.0	9 675	1996 VJ ₃₈	1992 08 27.20556	20 04 12.15	-21 00 35.9		9 675
1995 WN ₅	1994 10 01.16094	22 14 18.84	-20 21 57.4	18.5	9 675	1996 WY	1991 04 19.33889	13 28 58.20	-01 12 16.8	18.8	9 675
1995 XT	1991 01 22.29444	08 40 43.17	+18 59 26.0	17.2	9 675	1996 WY	1991 04 19.36736	13 28 56.51	-01 12 10.5		9 675
1995 XT	1991 01 22.33316	08 40 41.21	+18 59 35.9		9 675	1996 XQ ₅	1991 04 19.33889	13 17 54.28	-04 02 18.6		9 675
1995 YG	1991 10 08.39670	01 32 10.92	+10 39 00.1	17.2	9 675	1996 XQ ₅	1991 04 19.36736	13 17 52.52	-04 02 09.9	17.8	9 675
1995 YG	1991 10 08.42222	01 32 09.39	+10 38 48.6		9 675	1996 XR ₂₅	1991 04 19.33889	13 33 33.13	-01 52 43.8		9 675
1995 YC ₃	1988 09 10.23273	21 23 35.14	-17 53 01.8		9 675	1996 XR ₂₅	1991 04 19.36736	13 33 31.53	-01 52 33.1		9 675
1995 YC ₃	1988 09 10.26944	21 23 33.88	-17 53 07.3	19.0	9 675	1996 XR ₂₅	1994 02 11.34931	09 58 15.69	+13 56 25.5	17.2	9 675
1995 YC ₃	1991 02 18.31979	09 45 13.68	+16 25 01.9	16.5	2 675	1996 XR ₂₅	1994 02 11.42344	09 58 11.13	+13 57 00.2		9 675
1995 YC ₃	1991 02 18.35399	09 45 12.02	+16 25 13.3		2 675	1996 XW ₃₀	1992 08 25.33958	23 05 07.26	+02 14 02.8	17.2	9 675
1995 YC ₃	1991 02 19.32639	09 44 25.03	+16 29 53.2		2 675	1996 XW ₃₀	1992 08 25.37674	23 05 05.19	+02 13 52.5		9 675
1995 YU ₉	1994 11 07.25747	01 54 22.75	+25 56 43.8		9 675	2023 P-L	1992 08 27.17326	20 02 04.47	-20 40 04.5	18.5	9 675
1995 YU ₉	1994 11 07.28715	01 54 21.10	+25 56 33.0		9 675	2129 P-L	* 1960 09 24.45000	00 52 12.41	+07 37 10.7	19.4	4 675
1996 BY ₁	1988 05 15.32587	15 08 09.44	-30 28 09.7	18.2	9 675	2129 P-L	1960 09 26.37010	00 50 39.73	+07 23 18.0		4 675
1996 BY ₁	1988 05 15.35260	15 08 07.91	-30 28 05.0		9 675	2129 P-L	1960 09 28.45140	00 48 56.83	+07 07 50.7		4 675
1996 BY ₁	1994 11 07.25747	01 51 28.03	+24 49 37.6		9 675	2129 P-L	1960 09 29.44510	00 48 07.13	+07 00 20.6		4 675
1996 BY ₁	1994 11 07.28715	01 51 26.32	+24 49 31.3	16.5	9 675	2129 P-L	1960 10 17.30420	00 33 14.38	+04 41 15.2		4 675
1996 BD ₂	1991 10 08.39670	01 19 47.95	+08 30 59.4	18.2	9 675	2129 P-L	1960 10 25.30351	00 27 33.52	+03 43 54.5		4 675
1996 BN ₆	1993 07 25.31372	21 22 42.00	-21 15 56.7	18.2	9 675	2129 P-L	1960 10 26.35766	00 26 53.66	+03 36 54.7		4 675
1996 BN ₆	1993 07 25.34244	21 22 40.70	-21 16 05.6		9 675	2207 P-L	1991 01 19.25420	07 32 30.77	+28 52 36.7	17.8	9 675

2207 P-L	1991 01 19.29410	07 32 27.95	+28 52 35.2	9 675	7610 P-L	1994 09 09.25182	22 06 03.00	-16 25 46.1	18.0	9 675
2574 P-L	1994 11 07.25747	01 52 49.23	+27 31 56.5	9 675	7610 P-L	1994 09 09.27986	22 06 01.57	-16 25 54.5		9 675
2574 P-L	1994 11 07.28715	01 52 47.23	+27 31 55.9	18.5	9 675	7633 P-L	1993 07 25.31372	21 06 43.12	-18 29 47.4	18.2
2590 P-L	1994 09 09.27986	22 20 30.94	-15 17 21.6	9 675	7633 P-L	1993 07 25.34244	21 06 41.78	-18 29 56.8	18.2	9 675
3560 P-L	* 1960 10 22.12083	00 28 19.27	+12 50 28.8	17.1	4 675	9073 P-L	1994 10 03.42274	02 09 29.92	+18 24 09.3	17.2
3560 P-L	1960 10 24.30972	00 26 39.41	+12 47 07.4	4 675	9073 P-L	1994 10 03.45799	02 09 28.52	+18 24 06.8		9 675
3560 P-L	1960 10 26.37951	00 25 09.69	+12 43 55.9	4 675	9073 P-L	1994 11 29.11771	01 30 55.95	+15 44 48.7		9 675
4030 P-L	1994 02 15.31267	09 20 55.96	+13 26 26.0	18.0	9 675	9073 P-L	1994 11 29.15573	01 30 55.36	+15 44 43.6	18.0
4030 P-L	1994 02 15.34861	09 20 53.97	+13 26 33.3	9 675	1104 T-1	1994 09 09.25182	21 53 35.44	-19 57 11.3		9 675
4041 P-L	1993 12 09.24340	04 01 17.28	+23 06 27.5	18.8	9 675	1104 T-1	1994 09 09.27986	21 53 33.72	-19 57 05.0	9 675
4041 P-L	1993 12 09.27483	04 01 15.59	+23 06 20.8	9 675	1205 T-1	1971 03 24.38924	12 14 51.03	-04 03 34.0		4 675
4119 P-L	1951 12 27.41250	08 25 36.11	+12 19 56.2	6 675	1205 T-1	1971 03 25.27326	12 13 53.78	-04 00 41.6		4 675
4119 P-L	1951 12 27.44306	08 25 34.48	+12 19 59.6	19.5	6 675	1205 T-1	* 1971 03 25.31562	12 13 50.86	-04 00 33.7	17.7
4603 P-L	1991 02 10.44531	10 51 59.37	+11 50 27.8	18.5	9 675	1205 T-1	1971 03 26.26771	12 12 49.17	-03 57 29.8	4 675
4603 P-L	1991 02 10.49965	10 51 56.98	+11 50 43.5	9 675	1205 T-1	1971 03 27.32500	12 11 40.15	-03 54 01.0		4 675
4603 P-L	1994 09 09.25182	22 14 07.10	-15 25 42.5	18.5	9 675	1205 T-1	1971 04 02.40000	12 05 08.71	-03 33 36.7	4 675
4603 P-L	1994 09 09.27986	22 14 05.91	-15 25 50.9	9 675	1205 T-1	1971 04 16.18087	11 52 19.15	-02 52 47.1		4 675
4661 P-L	1994 09 09.27986	22 13 30.03	-15 17 29.9	9 675	1205 T-1	1971 04 16.26458	11 52 15.03	-02 52 36.3		4 675
4831 P-L	1994 11 07.25747	01 58 12.69	+22 59 21.5	9 675	1205 T-1	1971 05 13.18941	11 43 27.52	-02 44 17.4		4 675
4831 P-L	1994 11 07.28715	01 58 10.56	+22 59 20.1	18.5	9 675	1205 T-1	1971 05 14.21962	11 43 37.22	-02 46 26.6	4 675
5004 P-L	1992 10 22.36667	03 02 01.23	+13 40 08.5	16.8	9 675	1285 T-1	1971 03 24.38924	12 20 52.65	-04 53 43.6	4 675
5004 P-L	1992 10 22.39861	03 01 59.75	+13 39 53.4	9 675	1285 T-1	1971 03 24.42015	12 20 50.85	-04 53 32.4		4 675
6030 P-L	1991 01 22.29444	08 52 12.64	+13 50 19.3	18.5	9 675	1285 T-1	1971 03 25.27326	12 20 03.89	-04 48 30.2	4 675
6030 P-L	1991 01 22.33316	08 52 10.96	+13 50 24.6	9 675	1285 T-1	* 1971 03 25.31562	12 20 01.41	-04 48 16.9	19.4	4 675
6071 P-L	1954 05 28.26563	15 40 51.44	-09 44 18.8	17.8	6 675	1285 T-1	1971 03 25.33090	12 20 00.43	-04 48 09.5	4 675
6071 P-L	1954 05 28.27431	15 40 51.01	-09 44 17.1	6 675	1285 T-1	1971 03 26.26771	12 19 08.52	-04 42 35.6		4 675
6130 P-L	1994 09 07.32066	21 55 55.76	-08 07 22.2	18.8	9 675	1285 T-1	1971 03 26.29653	12 19 06.81	-04 42 26.0	4 675
6130 P-L	1994 09 07.35590	21 55 54.04	-08 07 35.6	9 675	1285 T-1	1971 03 26.33611	12 19 04.47	-04 42 11.6		4 675
6516 P-L	1993 08 13.23524	20 46 05.01	-30 16 15.7	18.5	9 675	1285 T-1	1971 03 27.32500	12 18 09.76	-04 36 17.0	4 675
6516 P-L	1993 08 13.26441	20 46 02.85	-30 16 16.2	9 675	1285 T-1	1971 04 02.40000	12 12 38.42	-03 59 52.4		4 675
6543 P-L	1991 01 22.29444	09 01 24.24	+19 06 44.6	19.2	9 675	3057 T-1	1992 06 28.41510	20 53 07.94	-13 46 30.5	9 675
6543 P-L	1991 01 22.33316	09 01 22.35	+19 06 51.4	9 675	3057 T-1	1992 08 27.20556	20 07 26.83	-16 15 48.6		9 675
6594 P-L	1994 09 07.32066	21 55 11.44	-08 06 27.9	18.8	9 675	3249 T-1	1971 03 24.42015	12 38 38.64	-06 23 08.7	4 675
6594 P-L	1994 09 07.35590	21 55 09.82	-08 06 43.7	9 675	3249 T-1	1971 03 25.33090	12 37 47.48	-06 19 28.1		4 675
6600 P-L	1991 01 19.25420	07 21 19.65	+24 48 40.4	18.0	9 675	3249 T-1	1971 03 26.29653	12 36 52.61	-06 15 29.9	4 675
6600 P-L	1991 01 19.29410	07 21 16.67	+24 48 46.8	9 675	3249 T-1	* 1971 03 26.33611	12 36 50.36	-06 15 20.6	19.5	4 675
6615 P-L	1993 07 25.31372	21 13 30.05	-24 21 57.0	18.0	9 675	3249 T-1	1971 03 27.33854	12 35 52.99	-06 11 08.7	4 675
6615 P-L	1993 07 25.34244	21 13 28.17	-24 22 03.8	9 675	3249 T-1	1971 04 02.42604	12 30 04.87	-05 45 05.8		4 675
6636 P-L	* 1960 09 24.35002	00 01 13.56	-05 23 45.9	19.2	4 675	4825 T-1	1991 01 22.29444	09 01 56.06	+17 32 39.8	18.0
6636 P-L	1960 09 26.28543	23 59 44.30	-05 34 05.5	4 675	4825 T-1	1991 01 22.33316	09 01 53.64	+17 32 55.5		9 675
6636 P-L	1960 09 27.34237	23 58 55.72	-05 39 36.7	4 675	4863 T-1	* 1971 05 13.20278	12 18 47.43	+00 31 05.2	19.5	4 675
6636 P-L	1960 09 28.33822	23 58 10.29	-05 44 43.4	4 675	4863 T-1	1971 05 14.23246	12 18 34.95	+00 32 58.4	20.0	4 675
6636 P-L	1960 10 17.22501	23 45 36.17	-07 00 50.3	4 675	4863 T-1	1971 05 16.29774	12 18 14.64	+00 36 11.6	19.5	4 675
6636 P-L	1960 10 22.16324	23 43 11.74	-07 12 32.1	4 675	2097 T-2	1973 09 19.19948	00 38 36.32	+07 10 10.4		4 675
6636 P-L	1960 10 24.23753	23 42 19.65	-07 16 16.6	4 675	2097 T-2	1973 09 19.25006	00 38 33.30	+07 10 02.4		4 675
6636 P-L	1960 10 26.27157	23 41 33.70	-07 19 16.9	4 675	2097 T-2	1973 09 20.26458	00 37 36.12	+07 07 23.5		4 675
6683 P-L	* 1960 09 24.35002	23 54 19.20	-04 33 09.5	19.7	4 675	2097 T-2	1973 09 24.36181	00 33 38.31	+06 55 38.8	4 675
6683 P-L	1960 09 26.28543	23 53 00.61	-04 43 27.4	4 675	2097 T-2	1973 09 24.42847	00 33 34.21	+06 55 24.8		4 675
6683 P-L	1960 09 27.34237	23 52 17.87	-04 49 00.8	4 675	2097 T-2	1973 09 25.25642	00 32 45.55	+06 52 52.0		4 675
6683 P-L	1960 09 28.33822	23 51 37.83	-04 54 11.0	4 675	2097 T-2	1973 09 25.32031	00 32 41.48	+06 52 37.3		4 675
6683 P-L	1960 10 17.22501	23 40 28.17	-06 16 43.8	4 675	2097 T-2	1973 09 29.26632	00 28 44.28	+06 39 42.7		4 675
6683 P-L	1960 10 22.16324	23 38 15.66	-06 32 01.0	4 675	2097 T-2	* 1973 09 29.33073	00 28 40.32	+06 39 30.0	19.1	4 675

2097 T-2	1973 09 30.22257	00 27 46.45	+06 36 23.7	4 675	2315 T-3	1977 10 11.27743	01 16 17.91	+09 33 34.0	4 675
2097 T-2	1973 09 30.28785	00 27 42.40	+06 36 09.4	4 675	2315 T-3	1977 10 11.28819	01 16 17.24	+09 33 31.8	4 675
2097 T-2	1973 10 04.30208	00 23 39.74	+06 21 58.1	4 675	2315 T-3	1977 10 11.34375	01 16 14.12	+09 33 07.7	4 675
2097 T-2	1973 10 04.36476	00 23 35.90	+06 21 43.5	4 675	2315 T-3	1977 10 11.35642	01 16 13.46	+09 33 03.7	4 675
2097 T-2	1973 10 05.32917	00 22 38.16	+06 18 14.5	4 675	2315 T-3	1977 10 12.27587	01 15 24.77	+09 26 56.7	4 675
2097 T-2	1973 10 05.39132	00 22 34.33	+06 17 59.7	4 675	2315 T-3	1977 10 12.28681	01 15 24.15	+09 26 53.1	4 675
2277 T-2	1991 10 08.39670	01 35 17.13	+08 57 01.9	18.0 9 675	2315 T-3	1977 10 12.34271	01 15 20.99	+09 26 29.2	4 675
2277 T-2	1991 10 08.42222	01 35 15.58	+08 56 56.9	9 675	2315 T-3	1977 10 12.35347	01 15 20.34	+09 26 25.7	4 675
3187 T-2	1992 08 25.48021	01 06 10.53	+03 09 56.4	18.0 3 675	2315 T-3	* 1977 10 16.26233	01 11 52.16	+09 00 07.1	17.8 4 675
3187 T-2	1992 08 25.50781	01 06 10.16	+03 09 55.0	3 675	2315 T-3	1977 10 16.27309	01 11 51.53	+09 00 05.9	4 675
3256 T-2	1973 09 19.22500	00 29 05.89	-00 31 35.8	4 675	2315 T-3	1977 10 16.32795	01 11 48.44	+08 59 40.7	4 675
3256 T-2	1973 09 19.27865	00 29 02.80	-00 31 50.2	4 675	2315 T-3	1977 10 16.33872	01 11 47.83	+08 59 38.2	4 675
3256 T-2	1973 09 20.30278	00 28 05.67	-00 36 52.4	4 675	2315 T-3	1977 10 17.26458	01 10 58.96	+08 53 21.7	4 675
3256 T-2	1973 09 24.38750	00 24 13.71	-00 56 54.5	4 675	2315 T-3	1977 10 17.27552	01 10 58.39	+08 53 18.3	4 675
3256 T-2	1973 09 24.45434	00 24 09.72	-00 57 13.9	4 675	2315 T-3	1977 10 17.33177	01 10 55.20	+08 52 54.4	4 675
3256 T-2	1973 09 25.26875	00 23 23.27	-01 01 11.3	4 675	2315 T-3	1977 10 17.34236	01 10 54.68	+08 52 50.1	4 675
3256 T-2	1973 09 25.28125	00 23 22.55	-01 01 16.6	4 675	2315 T-3	1977 10 21.39792	01 07 24.18	+08 25 35.6	4 675
3256 T-2	1973 09 25.33299	00 23 19.47	-01 01 29.4	4 675	2315 T-3	1977 10 21.45799	01 07 21.01	+08 25 12.1	4 675
3256 T-2	1973 09 25.34601	00 23 18.70	-01 01 35.2	4 675	2315 T-3	1977 10 22.39844	01 06 34.02	+08 18 55.4	4 675
3256 T-2	1973 09 29.27986	00 19 32.69	-01 20 19.3	4 675	2315 T-3	1977 10 22.45920	01 06 30.95	+08 18 33.1	4 675
3256 T-2	1973 09 29.34375	00 19 28.71	-01 20 37.5	4 675	3102 T-3	1977 10 07.27031	01 32 15.22	+04 29 13.9	4 675
3256 T-2	1973 09 30.23524	00 18 37.96	-01 24 44.5	4 675	3102 T-3	1977 10 11.28819	01 28 52.96	+04 07 51.5	4 675
3256 T-2	* 1973 09 30.30174	00 18 34.11	-01 25 02.7	19.1 4 675	3102 T-3	1977 10 11.30000	01 28 52.56	+04 07 49.1	4 675
3256 T-2	1973 10 04.31493	00 14 48.76	-01 42 45.0	4 675	3102 T-3	1977 10 11.35642	01 28 49.27	+04 07 32.6	4 675
3256 T-2	1973 10 04.37674	00 14 45.09	-01 42 59.9	4 675	3102 T-3	1977 10 11.36771	01 28 48.87	+04 07 28.8	4 675
3256 T-2	1973 10 05.34167	00 13 52.33	-01 47 00.9	4 675	3102 T-3	1977 10 12.28681	01 28 01.62	+04 02 38.7	4 675
3256 T-2	1973 10 05.40347	00 13 48.93	-01 47 15.0	4 675	3102 T-3	1977 10 12.29826	01 28 01.07	+04 02 33.3	4 675
3295 T-2	1991 04 19.33889	13 06 31.67	+00 25 00.2	9 675	3102 T-3	1977 10 12.35347	01 27 57.93	+04 02 17.0	4 675
3295 T-2	1991 04 19.36736	13 06 30.18	+00 25 14.1	9 675	3102 T-3	1977 10 12.36441	01 27 57.38	+04 02 14.2	4 675
4094 T-2	1973 09 19.19948	00 34 36.11	+01 21 36.9	4 675	3102 T-3	* 1977 10 16.27309	01 24 34.88	+03 42 23.0	18.4 4 675
4094 T-2	1973 09 19.22500	00 34 35.15	+01 21 32.7	4 675	3102 T-3	1977 10 16.28368	01 24 34.18	+03 42 21.5	4 675
4094 T-2	1973 09 19.25006	00 34 34.05	+01 21 22.8	4 675	3102 T-3	1977 10 16.33872	01 24 31.20	+03 42 05.0	4 675
4094 T-2	1973 09 19.27865	00 34 32.85	+01 21 14.8	4 675	3102 T-3	1977 10 16.34931	01 24 30.63	+03 42 02.9	4 675
4094 T-2	1973 09 20.26458	00 33 52.06	+01 16 09.2	4 675	3102 T-3	1977 10 17.27552	01 23 42.80	+03 37 30.8	4 675
4094 T-2	1973 09 24.38750	00 30 55.07	+00 54 21.1	4 675	3102 T-3	1977 10 17.28628	01 23 42.22	+03 37 25.9	4 675
4094 T-2	1973 09 24.45434	00 30 52.02	+00 53 59.1	4 675	3102 T-3	1977 10 17.34236	01 23 39.24	+03 37 11.7	4 675
4094 T-2	1973 09 25.28125	00 30 16.12	+00 49 33.5	4 675	3102 T-3	1977 10 17.35313	01 23 38.62	+03 37 07.1	4 675
4094 T-2	1973 09 25.34601	00 30 13.30	+00 49 12.1	4 675	3102 T-3	1977 10 21.38698	01 20 13.23	+03 18 37.5	4 675
4094 T-2	* 1973 09 29.29219	00 27 18.31	+00 28 05.5	18.8 4 675	3102 T-3	1977 10 21.44705	01 20 10.17	+03 18 22.7	4 675
4094 T-2	1973 09 29.35694	00 27 15.30	+00 27 44.9	4 675	3102 T-3	1977 10 22.38542	01 19 23.66	+03 14 21.4	4 675
4094 T-2	1973 09 30.24826	00 26 35.65	+00 23 03.7	4 675	3102 T-3	1977 10 22.44878	01 19 20.68	+03 14 05.5	4 675
4094 T-2	1973 09 30.31476	00 26 32.56	+00 22 42.3	4 675	3247 T-3	1977 10 07.27031	01 25 22.87	+06 06 33.6	4 675
4094 T-2	1973 10 04.32708	00 23 34.30	+00 01 49.5	4 675	3247 T-3	1977 10 11.28819	01 21 41.87	+05 36 51.3	4 675
4094 T-2	1973 10 04.38889	00 23 31.53	+00 01 30.1	4 675	3247 T-3	1977 10 11.35642	01 21 37.89	+05 36 21.4	4 675
4094 T-2	1973 10 05.35382	00 22 49.26	-00 03 25.6	4 675	3247 T-3	1977 10 12.28681	01 20 46.69	+05 29 30.9	4 675
4094 T-2	1973 10 05.41597	00 22 46.38	-00 03 44.3	4 675	3247 T-3	1977 10 12.35347	01 20 42.91	+05 29 01.0	4 675
5148 T-2	1994 11 07.25747	02 02 19.75	+26 09 23.1	17.0 9 675	3247 T-3	* 1977 10 16.27309	01 17 07.88	+05 00 52.8	19.1 4 675
5148 T-2	1994 11 07.28715	02 02 17.97	+26 09 10.6	9 675	3247 T-3	1977 10 16.33872	01 17 04.06	+05 00 24.5	4 675
1039 T-3	1994 09 09.25182	22 14 08.51	-14 51 35.1	18.2 9 675	3247 T-3	1977 10 17.27552	01 16 13.65	+04 53 52.4	4 675
1039 T-3	1994 09 09.27986	22 14 07.03	-14 51 31.9	9 675	3247 T-3	1977 10 17.34236	01 16 09.83	+04 53 24.2	4 675
2315 T-3	1977 10 07.25868	01 19 48.68	+09 59 28.9	4 675	3247 T-3	1977 10 21.39792	01 12 37.07	+04 26 13.6	4 675
2315 T-3	1977 10 07.27031	01 19 47.94	+09 59 23.4	4 675	3247 T-3	1977 10 21.45799	01 12 33.83	+04 25 48.9	4 675

4071 T-3	1994 09 09.25182	22 12 29.99	-20 14 56.4	18.5	9 675	(139)	1994 09 09.25182	22 20 14.86	-18 02 15.9	9 675
4122 T-3	1977 10 11.30000	01 25 35.05	+03 12 46.3		4 675	(139)	1994 09 09.27986	22 20 13.38	-18 02 18.3	9 675
4122 T-3	1977 10 11.36771	01 25 30.91	+03 12 24.8		4 675	(139)	1994 10 01.13160	22 05 11.90	-18 05 35.5	9 675
4122 T-3	1977 10 12.29826	01 24 37.71	+03 07 24.5		4 675	(139)	1994 10 01.16094	22 05 11.01	-18 05 33.8	9 675
4122 T-3	1977 10 12.36441	01 24 33.85	+03 07 02.8		4 675	(144)	1991 04 19.33889	13 13 07.17	-01 33 55.5	9 675
4122 T-3	* 1977 10 16.28368	01 20 47.19	+02 46 34.1	19.8	4 675	(144)	1991 04 19.36736	13 13 05.71	-01 33 48.7	9 675
4122 T-3	1977 10 16.34931	01 20 43.33	+02 46 13.5		4 675	(160)	1991 10 08.39670	01 19 19.30	+09 32 21.2	9 675
4122 T-3	1977 10 17.28628	01 19 48.99	+02 41 29.6		4 675	(160)	1991 10 08.42222	01 19 17.92	+09 32 15.7	9 675
4122 T-3	1977 10 17.35313	01 19 44.95	+02 41 08.9		4 675	(174)	1988 09 10.23273	21 16 39.38	-15 54 05.4	9 675
4122 T-3	1977 10 21.38698	01 15 53.19	+02 21 39.6		4 675	(174)	1988 09 10.26944	21 16 38.00	-15 54 01.3	9 675
4122 T-3	1977 10 21.44705	01 15 49.68	+02 21 24.8		4 675	(178)	1992 08 27.17326	20 25 12.26	-22 26 04.1	9 675
4220 T-3	1977 10 07.28125	01 35 29.98	+02 36 23.1		4 675	(178)	1992 08 27.20556	20 25 11.06	-22 26 06.1	9 675
4220 T-3	1977 10 11.30000	01 31 31.73	+02 40 55.5		4 675	(180)	1992 08 27.17326	20 11 27.97	-20 03 35.6	9 675
4220 T-3	1977 10 11.36771	01 31 27.47	+02 41 01.5		4 675	(180)	1992 08 27.20556	20 11 26.86	-20 03 38.6	9 675
4220 T-3	1977 10 12.29826	01 30 31.36	+02 42 08.6		4 675	(184)	1991 01 19.25420	07 26 29.95	+23 03 05.9	9 675
4220 T-3	1977 10 12.36441	01 30 27.19	+02 42 14.5		4 675	(184)	1991 01 19.29410	07 26 27.78	+23 03 09.5	9 675
4220 T-3	* 1977 10 16.28368	01 26 28.89	+02 47 29.9	17.9	4 675	(197)	1993 08 15.30000	22 19 54.94	-25 24 09.6	9 675
4220 T-3	1977 10 16.34931	01 26 24.77	+02 47 35.5		4 675	(197)	1993 08 15.32726	22 19 53.56	-25 24 21.3	9 675
4220 T-3	1977 10 17.28628	01 25 27.64	+02 48 56.2		4 675	(217)	1991 04 19.33889	13 26 26.09	+01 42 40.7	9 675
4220 T-3	1977 10 17.35313	01 25 23.42	+02 49 02.3		4 675	(217)	1991 04 19.36736	13 26 24.70	+01 42 53.8	9 675
4220 T-3	1977 10 21.38698	01 21 17.94	+02 55 31.6		4 675	(221)	1994 09 09.25182	22 00 20.01	-15 51 45.6	9 675
4220 T-3	1977 10 21.44705	01 21 14.27	+02 55 38.3		4 675	(221)	1994 09 09.27986	22 00 18.94	-15 51 57.3	9 675
4220 T-3	1977 10 22.38542	01 20 17.87	+02 57 16.2		4 675	(221)	1994 10 01.13160	21 51 33.16	-17 43 14.2	9 675
4220 T-3	1977 10 22.44878	01 20 14.06	+02 57 22.1		4 675	(221)	1994 10 01.16094	21 51 32.84	-17 43 20.0	9 675
4237 T-3	1977 10 07.28125	01 35 48.66	+01 45 32.9		4 675	(239)	1992 10 22.36667	02 59 19.36	+10 13 05.9	9 675
4237 T-3	1977 10 11.30000	01 32 02.04	+01 23 46.5		4 675	(240)	1991 04 19.33889	13 01 13.50	-03 11 11.4	9 675
4237 T-3	1977 10 11.36771	01 31 57.91	+01 23 25.6		4 675	(240)	1991 04 19.36736	13 01 12.09	-03 11 03.8	9 675
4237 T-3	1977 10 12.29826	01 31 04.33	+01 18 30.9		4 675	(251)	1988 09 10.23273	21 13 22.04	-13 14 30.1	9 675
4237 T-3	1977 10 12.36441	01 31 00.37	+01 18 07.8		4 675	(251)	1988 09 10.26944	21 13 20.93	-13 14 42.1	9 675
4237 T-3	* 1977 10 16.28368	01 27 11.22	+00 57 57.6	18.6	4 675	(251)	1989 11 25.29878	02 55 57.72	+01 03 57.7	9 675
4237 T-3	1977 10 16.34931	01 27 07.23	+00 57 37.7		4 675	(251)	1989 11 25.32917	02 55 56.40	+01 03 53.6	9 675
4237 T-3	1977 10 17.28628	01 26 12.19	+00 52 59.6		4 675	(278)	1994 10 01.13160	22 12 13.75	-22 33 32.0	9 675
4237 T-3	1977 10 17.35313	01 26 08.11	+00 52 38.9		4 675	(278)	1994 10 01.16094	22 12 12.93	-22 33 30.7	9 675
4237 T-3	1977 10 21.38698	01 22 11.50	+00 33 44.7		4 675	(280)	1994 11 29.11771	01 20 35.18	+13 45 16.4	9 675
4237 T-3	1977 10 21.44705	01 22 07.94	+00 33 27.9		4 675	(280)	1994 11 29.15573	01 20 34.41	+13 45 14.2	9 675
4237 T-3	1977 10 22.38542	01 21 13.57	+00 29 21.8		4 675	(308)	1988 09 10.23273	21 16 42.10	-11 58 42.6	9 675
4237 T-3	1977 10 22.44878	01 21 09.86	+00 29 06.2		4 675	(308)	1988 09 10.26944	21 16 40.96	-11 58 53.4	9 675
(7)	1951 12 27.41250	08 29 56.17	+13 40 11.5		6 675	(372)	1988 09 10.23273	21 30 42.14	-14 05 19.8	9 675
(7)	1951 12 27.44306	08 29 54.72	+13 40 08.8		6 675	(372)	1988 09 10.26944	21 30 40.34	-14 05 16.1	9 675
(27)	1991 01 22.29444	09 07 59.39	+18 14 14.9		9 675	(380)	1991 02 10.44531	11 03 25.65	+14 27 57.4	9 675
(27)	1991 01 22.33316	09 07 57.11	+18 14 27.3		9 675	(380)	1991 02 10.49965	11 03 23.30	+14 28 18.4	9 675
(31)	1991 04 19.33889	13 21 17.12	-01 41 33.3		9 675	(380)	1991 03 13.22066	10 38 12.12	+17 29 31.6	9 675
(31)	1991 04 19.36736	13 21 15.38	-01 41 35.5		9 675	(380)	1991 03 13.24931	10 38 10.68	+17 29 39.2	9 675
(63)	1988 09 10.23273	21 29 18.89	-16 00 48.2		9 675	(381)	1989 11 25.29878	02 41 12.38	-01 56 03.5	9 675
(63)	1988 09 10.26944	21 29 17.43	-16 00 46.6		9 675	(381)	1989 11 25.32917	02 41 11.21	-01 56 04.2	9 675
(100)	1991 01 22.29444	09 05 22.42	+17 06 06.9		9 675	(399)	1991 02 10.44531	11 09 04.48	+09 18 07.6	9 675
(100)	1991 01 22.33316	09 05 20.68	+17 06 18.1		9 675	(399)	1991 02 10.49965	11 09 01.99	+09 18 09.4	9 675
(102)	1954 05 28.26563	15 37 23.56	-15 34 37.1		6 675	(449)	1992 08 27.17326	20 25 32.10	-22 36 15.1	9 675
(102)	1954 05 28.28994	15 37 22.20	-15 34 31.0		6 675	(449)	1992 08 27.20556	20 25 30.80	-22 36 18.8	9 675
(103)	1991 04 19.33889	13 12 02.19	+00 30 28.5		9 675	(452)	1994 09 09.25182	21 51 23.38	-17 23 04.3	9 675
(103)	1991 04 19.36736	13 12 00.77	+00 30 37.3		9 675	(452)	1994 09 09.27986	21 51 22.16	-17 23 09.7	9 675
(103)	1992 08 27.20556	20 37 32.22	-18 44 09.6		9 675	(472)	1951 12 27.41250	08 25 21.04	+12 32 37.0	6 675

(472)	1951 12 27.44306	08 25 19.83	+12 32 51.0	6 675	(991)	1991 01 19.25420	07 34 40.51	+23 52 10.7	9 675
(488)	1993 08 15.30000	22 11 03.77	-25 49 35.1	9 675	(991)	1991 01 19.29410	07 34 38.44	+23 52 15.4	9 675
(488)	1993 08 15.32726	22 11 02.51	-25 49 43.3	9 675	(1008)	1991 02 10.44531	11 08 57.22	+15 15 52.4	9 675
(497)	1993 10 09.12569	20 28 17.17	-23 01 43.5	9 675	(1008)	1991 02 10.49965	11 08 54.92	+15 16 05.2	9 675
(497)	1993 10 09.16944	20 28 19.26	-23 01 26.2	9 675	(1008)	1991 03 13.22066	10 44 13.59	+16 54 12.5	9 675
(514)	1994 10 03.42274	02 30 05.36	+19 48 41.3	9 675	(1008)	1991 03 13.24931	10 44 12.14	+16 54 15.7	9 675
(514)	1994 10 03.45799	02 30 04.17	+19 48 36.7	9 675	(1008)	1994 11 29.11771	01 23 06.09	+12 38 23.2	9 675
(606)	1991 01 22.29444	09 02 07.21	+19 28 34.9	9 675	(1008)	1994 11 29.15573	01 23 05.33	+12 38 22.8	9 675
(606)	1991 01 22.33316	09 02 04.65	+19 28 38.3	9 675	(1039)	1951 12 27.41250	08 26 13.08	+12 27 34.0	6 675
(607)	1992 06 28.38403	20 56 06.11	-13 19 25.3	9 675	(1039)	1951 12 27.44306	08 26 11.85	+12 27 33.8	6 675
(607)	1992 06 28.41510	20 56 05.04	-13 19 22.0	9 675	(1055)	1993 10 09.12569	20 38 00.37	-20 11 38.7	9 675
(611)	1991 04 19.33889	13 14 53.69	-03 27 15.5	9 675	(1055)	1993 10 09.16944	20 38 03.95	-20 11 33.3	9 675
(611)	1991 04 19.36736	13 14 52.46	-03 27 02.2	9 675	(1148)	1992 06 28.38403	21 08 34.76	-09 48 00.6	9 675
(627)	1988 09 10.23273	21 13 46.55	-16 46 58.6	9 675	(1148)	1992 06 28.41510	21 08 34.27	-09 48 06.3	9 675
(627)	1988 09 10.26944	21 13 45.51	-16 47 08.1	9 675	(1148)	1993 12 07.24688	03 31 19.31	+03 00 32.9	9 675
(637)	1991 01 22.29444	08 51 36.67	+17 58 07.3	9 675	(1148)	1993 12 07.27917	03 31 17.99	+03 00 33.7	9 675
(637)	1991 01 22.33316	08 51 34.70	+17 58 14.3	9 675	(1260)	1994 09 07.32066	22 02 10.50	-04 42 35.0	9 675
(667)	1994 10 01.13160	22 07 03.83	-15 23 31.5	9 675	(1260)	1994 09 07.35590	22 02 08.70	-04 42 39.2	9 675
(667)	1994 10 01.16094	22 07 03.13	-15 23 42.5	9 675	(1262)	1993 12 07.24688	03 21 09.13	+00 25 28.5	9 675
(670)	1991 04 19.33889	13 06 46.89	-02 10 48.9	9 675	(1262)	1993 12 07.27917	03 21 07.77	+00 25 32.2	9 675
(670)	1991 04 19.36736	13 06 45.58	-02 10 38.9	9 675	(1265)	1988 05 15.32587	14 54 18.42	-30 57 49.8	9 675
(682)	1992 10 22.36667	03 09 13.35	+08 29 39.8	9 675	(1265)	1988 05 15.35260	14 54 16.98	-30 57 43.9	9 675
(682)	1992 10 22.39861	03 09 11.74	+08 29 23.8	9 675	(1324)	1993 12 09.24340	03 45 18.19	+26 12 59.0	9 675
(710)	1991 10 08.39670	01 23 03.80	+06 27 07.0	9 675	(1324)	1993 12 09.27483	03 45 16.18	+26 12 49.2	9 675
(710)	1991 10 08.42222	01 23 02.65	+06 26 58.9	9 675	(1331)	1993 10 09.12569	20 29 25.75	-20 38 43.3	9 675
(727)	1992 06 28.38403	20 51 22.68	-11 43 13.0	9 675	(1331)	1993 10 09.16944	20 29 27.35	-20 38 39.1	9 675
(727)	1992 06 28.41510	20 51 21.84	-11 43 23.3	9 675	(1334)	1994 09 09.25182	22 21 54.79	-17 32 11.8	15.0 9 675
(727)	1992 08 27.17326	20 07 22.71	-19 57 23.6	9 675	(1334)	1994 09 09.27986	22 21 53.60	-17 32 23.0	9 675
(727)	1992 08 27.20556	20 07 21.65	-19 57 38.3	9 675	(1334)	1994 10 01.13160	22 10 36.73	-19 16 11.3	9 675
(764)	1993 12 09.24340	03 55 13.66	+23 49 05.9	9 675	(1334)	1994 10 01.16094	22 10 36.16	-19 16 16.5	9 675
(764)	1993 12 09.27483	03 55 12.21	+23 48 56.8	9 675	(1344)	1993 08 15.32726	22 16 52.27	-21 03 25.5	9 675
(781)	1992 06 28.38403	20 44 04.87	-08 27 01.1	9 675	(1345)	1993 12 07.24688	03 29 30.46	+03 18 40.6	9 675
(781)	1992 06 28.41510	20 44 04.06	-08 27 09.8	9 675	(1345)	1993 12 07.27917	03 29 29.32	+03 18 41.1	9 675
(781)	1992 08 27.17326	20 07 28.14	-16 36 34.0	9 675	(1370)	1991 01 22.29444	08 34 45.04	+18 56 10.8	9 675
(781)	1992 08 27.20556	20 07 27.31	-16 36 49.0	9 675	(1370)	1991 01 22.33316	08 34 42.41	+18 56 18.6	9 675
(792)	1988 05 15.32587	14 59 10.22	-25 11 59.8	9 675	(1371)	1991 04 19.33889	13 07 52.53	-00 38 41.4	9 675
(792)	1988 05 15.35260	14 59 08.74	-25 11 49.0	9 675	(1371)	1991 04 19.36736	13 07 51.38	-00 38 28.0	9 675
(793)	1991 04 19.33889	13 03 42.03	+00 51 32.9	9 675	(1380)	1993 08 13.23524	20 49 40.19	-30 01 35.5	9 675
(793)	1991 04 19.36736	13 03 40.37	+00 51 34.0	9 675	(1380)	1993 08 13.26441	20 49 38.61	-30 01 35.5	9 675
(840)	1994 11 07.25747	01 55 38.52	+24 18 08.0	9 675	(1380)	1993 10 09.12569	20 32 33.44	-26 48 30.3	9 675
(840)	1994 11 07.28715	01 55 37.15	+24 17 56.5	9 675	(1380)	1993 10 09.16944	20 32 34.35	-26 48 16.0	9 675
(860)	1994 09 07.32066	21 40 23.55	-04 35 37.5	9 675	(1406)	1993 07 25.31372	21 20 04.82	-23 42 24.6	9 675
(860)	1994 09 07.35590	21 40 21.77	-04 35 37.3	9 675	(1406)	1993 07 25.34244	21 20 03.10	-23 42 26.5	9 675
(922)	1951 12 27.41250	08 23 58.40	+08 50 39.6	6 675	(1406)	1993 10 09.12569	20 36 07.91	-20 33 21.2	9 675
(922)	1951 12 27.44306	08 23 57.11	+08 50 40.4	6 675	(1406)	1993 10 09.16944	20 36 08.65	-20 33 06.6	9 675
(930)	1993 08 15.30000	22 00 30.45	-21 58 29.7	9 675	(1438)	1994 10 03.42274	02 21 51.74	+15 54 52.6	9 675
(930)	1993 08 15.32726	22 00 28.32	-21 58 22.7	9 675	(1438)	1994 10 03.45799	02 21 50.59	+15 54 46.3	9 675
(941)	1994 10 01.13160	22 20 16.33	-20 49 52.7	9 675	(1447)	1993 12 09.24340	03 42 39.69	+23 45 40.1	9 675
(941)	1994 10 01.16094	22 20 15.55	-20 49 49.8	9 675	(1447)	1993 12 09.27483	03 42 37.87	+23 45 36.8	9 675
(974)	1991 04 19.33889	13 08 20.48	+01 05 51.5	9 675	(1480)	1992 10 22.36667	03 15 50.15	+14 34 54.0	9 675
(974)	1991 04 19.36736	13 08 18.97	+01 05 58.4	9 675	(1480)	1992 10 22.39861	03 15 48.36	+14 34 51.6	9 675
(988)	1991 01 19.25420	07 42 51.32	+23 34 54.7	9 675	(1483)	1993 07 25.31372	21 01 00.19	-22 42 53.3	9 675

(1483)	1993 07 25.34244	21 00 58.61	-22 43 01.3	9 675	(1789)	1991 01 22.29444	08 53 36.19	+18 52 32.1	16.8	9 675
(1483)	1993 10 09.12569	20 26 11.10	-24 11 41.3	9 675	(1789)	1991 01 22.33316	08 53 33.61	+18 52 43.7		9 675
(1483)	1993 10 09.16944	20 26 11.83	-24 11 35.0	9 675	(1805)	1988 09 10.23273	21 18 44.89	-18 55 15.5		9 675
(1495)	1994 10 03.42274	02 24 53.59	+20 08 29.1	9 675	(1805)	1988 09 10.26944	21 18 43.69	-18 55 19.8		9 675
(1495)	1994 10 03.45799	02 24 51.81	+20 08 32.7	9 675	(1813)	1991 10 08.39670	01 36 40.62	+06 50 18.6		9 675
(1495)	1994 11 29.11771	01 33 33.68	+19 04 37.9	9 675	(1813)	1991 10 08.42222	01 36 39.33	+06 50 14.6		9 675
(1495)	1994 11 29.15573	01 33 32.51	+19 04 33.5	9 675	(1825)	1991 01 22.29444	08 36 11.37	+16 42 56.3		9 675
(1517)	1991 01 19.25420	07 43 10.22	+27 39 39.4	9 675	(1825)	1991 01 22.33316	08 36 09.00	+16 43 00.1		9 675
(1517)	1991 01 19.29410	07 43 07.78	+27 39 47.9	9 675	(1859)	1988 05 15.32587	14 42 04.09	-27 06 57.5		9 675
(1517)	1993 08 15.30000	21 59 41.37	-21 16 19.6	9 675	(1859)	1988 05 15.35260	14 42 02.74	-27 06 52.8		9 675
(1517)	1993 08 15.32726	21 59 39.88	-21 16 27.5	9 675	(1892)	1994 09 07.32066	21 51 49.95	-04 22 54.0		9 675
(1526)	1988 09 10.23273	21 08 22.76	-18 03 32.7	9 675	(1892)	1994 09 07.35590	21 51 47.83	-04 22 53.4		9 675
(1526)	1988 09 10.26944	21 08 21.21	-18 03 31.3	9 675	(1930)	1991 01 22.33316	09 01 06.71	+20 40 57.5		9 675
(1590)	1951 12 27.41250	08 34 32.70	+12 19 20.4	6 675	(1970)	1988 09 10.26944	21 13 37.94	-13 42 15.1		9 675
(1606)	1954 05 28.26563	15 53 59.25	-09 59 54.7	6 675	(1989)	1991 03 13.22066	10 44 22.41	+18 04 04.1		9 675
(1606)	1954 05 28.28994	15 53 57.83	-09 59 47.8	6 675	(1989)	1991 03 13.24931	10 44 20.61	+18 04 05.6		9 675
(1611)	1992 06 28.38403	20 39 58.69	-12 37 55.3	9 675	(1990)	1992 06 28.38403	20 41 26.39	-12 43 33.8		9 675
(1611)	1992 06 28.41510	20 39 57.81	-12 37 54.5	9 675	(1990)	1992 06 28.41510	20 41 25.22	-12 43 35.9		9 675
(1619)	1993 08 13.23524	21 05 57.09	-28 41 18.0	9 675	(2030)	1992 06 28.38403	21 04 46.86	-13 03 49.4		9 675
(1619)	1993 08 13.26441	21 05 55.14	-28 41 26.8	9 675	(2030)	1992 06 28.41510	21 04 46.00	-13 03 53.4		9 675
(1619)	1993 10 09.12569	20 49 49.15	-27 00 24.4	9 675	(2030)	1992 08 27.17326	20 16 59.32	-17 12 17.1		9 675
(1619)	1993 10 09.16944	20 49 50.98	-27 00 06.3	9 675	(2030)	1992 08 27.20556	20 16 58.35	-17 12 23.8		9 675
(1629)	1993 10 09.12569	20 53 48.98	-22 29 44.7	9 675	(2070)	1991 10 08.39670	01 13 13.15	+09 27 20.3		9 675
(1629)	1993 10 09.16944	20 53 50.69	-22 29 43.1	9 675	(2070)	1991 10 08.42222	01 13 11.61	+09 27 14.5		9 675
(1634)	1991 01 19.25420	07 23 22.26	+26 34 34.4	9 675	(2092)	1992 08 27.17326	20 22 35.99	-23 31 26.4		9 675
(1648)	1991 02 10.44531	10 52 05.17	+10 19 43.0	9 675	(2092)	1992 08 27.20556	20 22 34.94	-23 31 30.8		9 675
(1648)	1991 02 10.49965	10 52 02.42	+10 20 07.5	9 675	(2108)	1993 07 25.31372	21 29 37.10	-20 18 03.0		9 675
(1648)	1991 03 13.22066	10 22 29.31	+14 26 53.3	9 675	(2108)	1993 07 25.34244	21 29 35.36	-20 18 03.9		9 675
(1648)	1991 03 13.24931	10 22 27.60	+14 27 05.1	9 675	(2123)	1992 08 27.17326	20 16 59.38	-19 41 34.3		9 675
(1654)	1994 11 29.11771	01 26 02.93	+12 33 13.0	9 675	(2123)	1992 08 27.20556	20 16 58.28	-19 41 36.5		9 675
(1654)	1994 11 29.15573	01 26 02.12	+12 33 14.4	9 675	(2132)	1993 08 15.30000	22 03 04.03	-20 36 32.2		9 675
(1663)	1993 07 25.31372	21 09 45.31	-24 24 56.4	9 675	(2132)	1993 08 15.32726	22 03 02.64	-20 36 41.4		9 675
(1663)	1993 07 25.34244	21 09 43.78	-24 25 10.6	9 675	(2140)	1951 12 27.41250	08 41 39.53	+14 23 18.2		6 675
(1663)	1993 08 13.23524	20 52 13.37	-26 40 33.8	9 675	(2140)	1951 12 27.44306	08 41 38.41	+14 23 18.4		6 675
(1663)	1993 08 13.26441	20 52 11.65	-26 40 43.8	9 675	(2155)	1991 01 19.25420	07 27 05.42	+25 41 58.4		9 675
(1663)	1993 10 09.12569	20 50 23.42	-25 47 22.7	9 675	(2155)	1991 01 19.29410	07 27 03.08	+25 42 03.5		9 675
(1663)	1993 10 09.16944	20 50 25.95	-25 47 06.8	9 675	(2163)	1991 04 19.33889	13 03 18.00	-03 03 48.8		9 675
(1667)	1991 04 19.33889	13 23 40.79	-00 40 12.3	9 675	(2163)	1991 04 19.36736	13 03 16.77	-03 03 41.4		9 675
(1667)	1991 04 19.36736	13 23 38.95	-00 40 05.0	9 675	(2182)	1991 01 22.29444	09 06 00.46	+19 57 02.3		9 675
(1680)	1991 01 19.25420	07 23 54.84	+25 05 44.9	9 675	(2182)	1991 01 22.33316	09 05 58.60	+19 57 09.2		9 675
(1680)	1991 01 19.29410	07 23 52.35	+25 05 51.9	9 675	(2199)	1991 03 13.22066	10 43 30.19	+12 16 17.3		9 675
(1682)	1991 01 19.25420	07 51 17.03	+24 16 39.8	9 675	(2200)	1994 10 03.42274	02 39 52.80	+20 43 47.5		9 675
(1710)	1994 11 07.25747	02 03 00.09	+25 04 08.4	9 675	(2200)	1994 10 03.45799	02 39 51.34	+20 43 44.9		9 675
(1710)	1994 11 07.28715	02 02 58.08	+25 04 03.4	9 675	(2213)	1954 05 28.26563	15 42 16.52	-10 35 41.3		6 675
(1714)	1991 01 22.29444	08 56 40.24	+15 36 44.0	9 675	(2213)	1954 05 28.28994	15 42 15.02	-10 35 38.2		6 675
(1714)	1991 01 22.33316	08 56 37.90	+15 36 47.9	9 675	(2232)	1991 10 08.39670	01 25 01.06	+11 02 52.6		9 675
(1740)	1991 01 22.29444	08 49 37.06	+17 08 07.6	9 675	(2232)	1991 10 08.42222	01 24 59.75	+11 02 42.4		9 675
(1740)	1991 01 22.33316	08 49 34.55	+17 08 15.1	9 675	(2235)	1991 10 08.39670	01 14 22.86	+11 06 31.0		9 675
(1752)	1951 12 27.41250	08 32 00.03	+14 10 57.5	6 675	(2235)	1991 10 08.42222	01 14 21.75	+11 06 17.4		9 675
(1752)	1951 12 27.44306	08 31 58.43	+14 10 58.6	6 675	(2255)	1991 04 19.33889	13 13 33.29	-00 01 05.6		9 675
(1785)	1993 12 09.24340	03 58 23.70	+24 20 38.4	9 675	(2255)	1991 04 19.36736	13 13 31.93	-00 01 02.1		9 675
(1785)	1993 12 09.27483	03 58 21.68	+24 20 29.4	9 675	(2292)	1989 11 25.29878	02 56 47.98	-02 35 30.7		9 675

(2292)	1989 11 25.32917	02 56 46.58	-02 35 34.5	9 675	(2672)	1992 06 28.38403	20 51 19.80	-12 09 17.8	9 675
(2294)	1994 11 07.25747	01 59 23.48	+22 54 51.3	9 675	(2672)	1992 06 28.41510	20 51 19.09	-12 09 31.8	9 675
(2294)	1994 11 07.28715	01 59 21.84	+22 54 39.4	9 675	(2672)	1992 08 27.17326	20 13 13.43	-22 22 33.9	9 675
(2304)	1993 12 07.24688	03 18 27.11	+04 46 43.1	9 675	(2672)	1992 08 27.20556	20 13 12.75	-22 22 49.7	9 675
(2304)	1993 12 07.27917	03 18 25.74	+04 46 36.2	9 675	(2681)	1991 04 19.33889	13 26 51.20	-04 17 26.2	9 675
(2312)	1991 02 10.44531	11 13 03.38	+12 15 08.3	9 675	(2681)	1991 04 19.36736	13 26 49.65	-04 17 20.1	9 675
(2312)	1991 02 10.49965	11 13 01.62	+12 15 21.4	9 675	(2704)	1994 09 07.32066	21 43 35.18	-07 17 42.0	9 675
(2312)	1991 03 13.22066	10 54 27.91	+14 11 06.6	9 675	(2704)	1994 09 07.35590	21 43 33.46	-07 17 55.0	9 675
(2312)	1991 03 13.24931	10 54 26.75	+14 11 12.6	9 675	(2707)	1992 08 27.17326	20 29 29.64	-22 04 33.6	9 675
(2316)	1992 10 22.36667	03 04 53.39	+14 27 39.2	9 675	(2707)	1992 08 27.20556	20 29 28.54	-22 04 37.2	9 675
(2316)	1992 10 22.39861	03 04 51.64	+14 27 29.9	9 675	(2713)	1988 09 10.23273	21 09 05.91	-16 54 35.0	9 675
(2349)	1993 10 09.12569	20 35 57.35	-24 25 41.5	9 675	(2713)	1988 09 10.26944	21 09 04.78	-16 54 38.2	9 675
(2349)	1993 10 09.16944	20 35 58.91	-24 25 45.3	9 675	(2717)	1991 01 22.29444	08 36 39.87	+15 08 47.8	9 675
(2353)	1991 01 19.25420	07 25 28.42	+29 04 18.3	9 675	(2717)	1991 01 22.33316	08 36 37.31	+15 08 59.8	9 675
(2353)	1991 01 19.29410	07 25 26.04	+29 04 21.2	9 675	(2719)	1991 10 08.39670	01 36 27.67	+08 48 01.7	9 675
(2376)	1991 01 19.25420	07 33 12.07	+25 59 50.8	9 675	(2719)	1991 10 08.42222	01 36 26.18	+08 47 51.4	9 675
(2376)	1991 01 19.29410	07 33 09.94	+25 59 56.5	9 675	(2729)	1991 01 22.29444	08 46 15.13	+22 13 26.6	9 675
(2411)	1992 10 22.36667	02 54 39.90	+13 48 06.9	9 675	(2729)	1991 01 22.33316	08 46 13.05	+22 13 35.5	9 675
(2411)	1992 10 22.39861	02 54 37.92	+13 47 57.6	9 675	(2773)	1991 02 10.44531	10 50 33.91	+12 26 18.3	9 675
(2418)	1992 08 27.17326	20 32 10.39	-20 44 13.9	9 675	(2773)	1991 02 10.49965	10 50 31.00	+12 26 40.9	9 675
(2418)	1992 08 27.20556	20 32 09.09	-20 44 16.1	9 675	(2773)	1991 03 13.22066	10 21 31.64	+15 41 44.3	9 675
(2429)	1988 05 15.32587	14 49 00.47	-29 36 10.1	9 675	(2773)	1991 03 13.24931	10 21 30.07	+15 41 52.2	9 675
(2429)	1988 05 15.35260	14 48 58.51	-29 36 05.8	9 675	(2798)	1994 10 03.42274	02 39 29.97	+17 17 10.8	9 675
(2432)	1993 10 09.12569	20 51 44.60	-23 09 42.6	9 675	(2798)	1994 10 03.45799	02 39 28.91	+17 17 00.9	9 675
(2432)	1993 10 09.16944	20 51 45.33	-23 09 29.5	9 675	(2800)	1993 07 25.31372	21 07 05.13	-18 46 45.7	9 675
(2451)	1994 11 07.25747	01 56 19.81	+24 57 11.6	9 675	(2800)	1993 07 25.34244	21 07 03.79	-18 46 53.5	9 675
(2451)	1994 11 07.28715	01 56 18.16	+24 57 03.2	9 675	(2800)	1993 10 09.12569	20 40 49.45	-20 58 35.5	9 675
(2509)	1993 12 09.24340	03 58 03.47	+25 18 02.1	9 675	(2800)	1993 10 09.16944	20 40 50.52	-20 58 30.8	9 675
(2509)	1993 12 09.27483	03 58 01.57	+25 17 55.3	9 675	(2832)	1988 09 10.23273	21 28 56.69	-13 22 30.9	9 675
(2519)	1992 10 22.36667	02 57 58.18	+14 21 30.6	9 675	(2832)	1988 09 10.26944	21 28 55.33	-13 22 41.1	9 675
(2519)	1992 10 22.39861	02 57 56.65	+14 21 23.6	9 675	(2838)	1992 08 27.17326	20 16 54.68	-22 39 40.4	18.0 9 675
(2530)	1994 09 07.32066	21 49 08.97	-01 19 20.4	9 675	(2838)	1992 08 27.20556	20 16 53.35	-22 39 44.2	9 675
(2530)	1994 09 07.35590	21 49 07.69	-01 19 36.3	9 675	(2841)	1992 10 22.36667	03 04 09.10	+10 32 19.2	9 675
(2571)	1994 09 09.25182	21 58 19.59	-19 02 03.0	9 675	(2841)	1992 10 22.39861	03 04 07.23	+10 32 12.3	9 675
(2571)	1994 09 09.27986	21 58 18.34	-19 02 05.8	9 675	(2844)	1988 09 10.23273	21 35 50.43	-16 58 42.1	9 675
(2571)	1994 10 01.13160	21 51 49.48	-18 43 43.3	9 675	(2844)	1988 09 10.26944	21 35 49.30	-16 58 49.6	9 675
(2571)	1994 10 01.16094	21 51 49.57	-18 43 37.9	9 675	(2850)	1993 08 17.40260	00 01 41.00	-11 17 08.9	9 675
(2586)	1992 10 22.36667	03 14 36.89	+11 47 56.6	9 675	(2850)	1993 08 17.42934	00 01 40.30	-11 17 20.7	9 675
(2586)	1992 10 22.39861	03 14 35.24	+11 47 45.8	9 675	(2887)	1994 09 09.25182	22 06 07.50	-16 59 46.7	9 675
(2592)	1991 10 08.39670	01 32 14.90	+09 44 14.2	9 675	(2887)	1994 09 09.27986	22 06 06.18	-16 59 55.2	9 675
(2592)	1991 10 08.42222	01 32 13.74	+09 44 06.2	9 675	(2887)	1994 10 01.13160	21 56 32.61	-17 57 33.0	9 675
(2607)	1988 09 10.23273	21 08 46.54	-18 30 53.7	9 675	(2887)	1994 10 01.16094	21 56 32.34	-17 57 34.2	9 675
(2607)	1988 09 10.26944	21 08 45.89	-18 30 50.8	9 675	(2894)	1991 01 22.29444	08 56 48.90	+20 04 24.1	9 675
(2620)	1994 09 09.25182	21 58 12.37	-17 24 05.3	9 675	(2894)	1991 01 22.33316	08 56 46.91	+20 04 34.6	9 675
(2620)	1994 09 09.27986	21 58 11.22	-17 24 11.3	9 675	(2914)	1992 08 27.20556	20 31 28.06	-16 19 48.7	9 675
(2621)	1991 01 19.25420	07 18 41.97	+27 08 28.1	9 675	(2917)	1994 09 09.25182	22 08 16.49	-16 51 56.5	9 675
(2621)	1991 01 19.29410	07 18 39.75	+27 08 39.1	9 675	(2917)	1994 09 09.27986	22 08 14.92	-16 51 54.2	9 675
(2644)	1991 01 22.29444	08 48 21.70	+20 52 25.3	17.0 9 675	(2971)	1993 08 17.40260	00 03 56.60	-12 42 24.8	9 675
(2644)	1991 01 22.33316	08 48 19.01	+20 52 34.1	9 675	(2971)	1993 08 17.42934	00 03 55.92	-12 42 35.1	9 675
(2663)	1993 07 25.31372	21 18 53.28	-26 18 08.3	9 675	(2974)	1994 10 03.42274	02 28 09.44	+16 38 49.3	9 675
(2663)	1993 08 13.23524	20 58 01.71	-27 34 33.8	9 675	(2974)	1994 10 03.45799	02 28 08.19	+16 38 35.5	9 675
(2663)	1993 08 13.26441	20 57 59.86	-27 34 39.5	9 675	(2982)	1991 04 19.33889	13 00 14.49	+00 26 09.9	9 675

(2982)	1991 04 19.36736	13 00 13.06	+00 26 13.2	9 675	(3349)	1994 10 01.16094	22 01 34.05	-18 23 15.1	9 675
(2982)	1993 08 17.40260	00 04 47.79	-13 04 26.7	9 675	(3354)	1988 05 15.32587	14 45 41.62	-28 24 57.2	9 675
(2982)	1993 08 17.42934	00 04 47.06	-13 04 33.6	9 675	(3354)	1988 05 15.35260	14 45 39.87	-28 24 49.9	9 675
(3003)	1993 12 07.24688	03 07 15.42	+03 58 54.2	9 675	(3367)	1994 09 07.32066	21 47 31.41	-05 14 12.8	9 675
(3003)	1993 12 07.27917	03 07 14.19	+03 59 00.0	9 675	(3367)	1994 09 07.35590	21 47 29.85	-05 14 21.7	9 675
(3009)	1991 01 19.25420	07 24 44.99	+29 15 09.4	9 675	(3372)	1991 01 19.25420	07 54 32.35	+26 12 56.5	9 675
(3009)	1991 01 19.29410	07 24 41.88	+29 15 11.1	9 675	(3372)	1991 01 19.29410	07 54 29.77	+26 13 01.9	9 675
(3013)	1993 07 25.31372	21 23 12.27	-20 28 37.8	9 675	(3384)	1991 04 19.33889	13 16 13.29	-03 59 18.7	9 675
(3013)	1993 07 25.34244	21 23 10.69	-20 28 47.0	9 675	(3384)	1991 04 19.36736	13 16 11.74	-03 59 07.4	9 675
(3013)	1993 10 09.12569	20 39 34.66	-21 26 11.8	9 675	(3386)	1949 11 19.25833	03 22 28.32	+15 19 09.8	9 675
(3013)	1993 10 09.16944	20 39 35.66	-21 26 03.2	9 675	(3386)	1949 11 19.28647	03 22 26.75	+15 19 03.6	9 675
(3016)	1991 04 19.33889	13 20 40.47	-03 55 37.0	9 675	(3414)	1991 10 08.39670	01 12 11.00	+06 03 46.1	9 675
(3016)	1991 04 19.36736	13 20 39.09	-03 55 28.2	9 675	(3414)	1991 10 08.42222	01 12 09.31	+06 03 40.5	9 675
(3083)	1988 09 10.23273	21 36 16.51	-17 12 47.1	9 675	(3414)	1994 10 01.13160	22 20 57.72	-16 11 40.5	9 675
(3083)	1988 09 10.26944	21 36 14.93	-17 12 42.8	9 675	(3414)	1994 10 01.16094	22 20 56.54	-16 11 40.4	9 675
(3091)	1992 06 28.38403	20 55 38.17	-13 56 47.2	17.8	(3439)	1993 12 09.24340	04 12 58.71	+27 27 09.2	9 675
(3091)	1992 06 28.41510	20 55 37.18	-13 56 48.4	9 675	(3439)	1993 12 09.27483	04 12 56.90	+27 27 05.8	9 675
(3091)	1992 08 27.17326	20 08 30.62	-16 40 07.1	17.8	(3442)	1991 01 19.25420	07 26 15.30	+25 47 55.9	9 675
(3091)	1992 08 27.20556	20 08 29.76	-16 40 10.2	9 675	(3442)	1991 01 19.29410	07 26 13.12	+25 48 08.2	9 675
(3096)	1994 09 07.32066	22 02 34.60	-06 56 25.1	9 675	(3470)	1991 10 08.42222	01 20 43.80	+11 11 23.5	9 675
(3096)	1994 09 07.35590	22 02 33.35	-06 56 50.2	9 675	(3561)	1993 08 17.40260	00 03 10.07	-10 24 04.6	9 675
(3112)	1991 04 19.33889	13 05 45.60	-01 41 45.2	9 675	(3561)	1993 08 17.42934	00 03 09.50	-10 24 13.6	9 675
(3112)	1991 04 19.36736	13 05 43.89	-01 41 37.2	9 675	(3586)	1993 08 13.23524	21 19 34.76	-30 02 08.5	9 675
(3115)	1994 11 07.25747	02 01 47.03	+24 29 58.1	9 675	(3586)	1993 08 13.26441	21 19 32.71	-30 02 08.3	9 675
(3115)	1994 11 07.28715	02 01 45.49	+24 29 40.2	9 675	(3586)	1993 10 09.12569	20 57 43.90	-24 54 42.7	9 675
(3205)	1986 03 04.36076	11 29 55.10	+17 38 04.3	9 675	(3586)	1993 10 09.16944	20 57 45.14	-24 54 21.7	9 675
(3214)	1986 03 04.36076	11 31 30.06	+19 52 09.5	9 675	(3587)	1994 09 09.25182	22 06 17.56	-22 57 11.9	9 675
(3224)	1991 10 08.39670	01 12 57.64	+11 04 22.8	9 675	(3587)	1994 09 09.27986	22 06 16.14	-22 57 13.7	9 675
(3224)	1991 10 08.42222	01 12 56.41	+11 04 13.2	9 675	(3604)	1988 05 15.32587	14 41 49.27	-26 28 23.9	9 675
(3249)	1993 10 09.12569	20 28 25.73	-23 50 51.4	9 675	(3604)	1988 05 15.35260	14 41 47.52	-26 28 24.4	9 675
(3249)	1993 10 09.16944	20 28 28.19	-23 50 39.0	9 675	(3605)	1992 08 27.17326	20 24 40.18	-15 39 54.4	9 675
(3264)	1992 08 27.20556	20 22 55.52	-19 12 39.2	9 675	(3615)	1949 11 19.25833	03 22 50.92	+15 36 20.9	9 675
(3268)	1951 12 27.41250	08 22 18.22	+10 01 12.7	6 675	(3615)	1949 11 19.28647	03 22 49.52	+15 36 15.5	9 675
(3268)	1951 12 27.44306	08 22 16.83	+10 01 12.4	6 675	(3616)	1993 07 25.31372	21 09 36.16	-20 39 25.3	9 675
(3283)	1994 10 03.42274	02 13 15.13	+19 29 33.7	9 675	(3616)	1993 07 25.34244	21 09 34.69	-20 39 42.1	9 675
(3283)	1994 10 03.45799	02 13 13.35	+19 29 35.4	9 675	(3616)	1993 10 09.12569	20 42 10.61	-26 25 59.4	9 675
(3283)	1994 11 29.11771	01 25 19.91	+17 32 04.0	9 675	(3616)	1993 10 09.16944	20 42 11.98	-26 25 56.4	9 675
(3283)	1994 11 29.15573	01 25 19.24	+17 31 59.8	9 675	(3630)	1991 01 19.25420	07 28 26.12	+29 23 46.9	9 675
(3297)	1994 10 01.13160	22 05 32.44	-14 27 07.3	9 675	(3630)	1991 01 19.29410	07 28 23.69	+29 23 47.9	9 675
(3297)	1994 10 01.16094	22 05 31.82	-14 27 09.2	9 675	(3630)	1993 07 25.31372	20 58 42.91	-24 23 09.6	9 675
(3300)	1991 10 08.39670	01 35 10.96	+06 30 27.3	9 675	(3630)	1993 07 25.34244	20 58 41.26	-24 23 09.6	9 675
(3300)	1991 10 08.42222	01 35 09.44	+06 30 27.5	9 675	(3638)	1993 10 09.12569	20 29 29.69	-26 40 26.7	9 675
(3303)	1991 10 08.39670	01 27 40.04	+06 40 19.4	9 675	(3638)	1993 10 09.16944	20 29 30.97	-26 40 21.2	9 675
(3303)	1991 10 08.42222	01 27 38.73	+06 40 12.3	9 675	(3644)	1988 09 10.23273	21 10 06.81	-19 07 58.9	9 675
(3315)	1994 10 01.13160	22 17 32.24	-14 57 49.6	9 675	(3644)	1988 09 10.26944	21 10 05.33	-19 07 58.5	9 675
(3315)	1994 10 01.16094	22 17 31.51	-14 57 57.5	9 675	(3649)	1994 10 01.13160	22 17 20.85	-17 33 29.0	9 675
(3325)	1992 10 22.36667	03 04 48.93	+14 35 48.5	9 675	(3649)	1994 10 01.16094	22 17 20.12	-17 33 33.3	9 675
(3325)	1992 10 22.39861	03 04 47.21	+14 35 51.7	9 675	(3661)	1991 01 19.25420	07 18 01.10	+25 14 30.1	9 675
(3335)	1988 05 15.32587	14 59 23.42	-32 34 24.6	9 675	(3661)	1991 01 19.29410	07 17 58.75	+25 14 33.6	9 675
(3349)	1994 09 09.25182	22 14 27.15	-17 50 29.3	9 675	(3679)	1992 08 27.17326	20 22 20.54	-17 58 57.6	9 675
(3349)	1994 09 09.27986	22 14 25.81	-17 50 34.1	9 675	(3679)	1992 08 27.20556	20 22 19.17	-17 58 55.8	9 675
(3349)	1994 10 01.13160	22 01 34.69	-18 23 13.6	9 675	(3691)	1994 09 09.25182	22 03 17.84	-22 13 33.7	9 675

(3691)	1994 09 09.27986	22 03 15.06	-22 13 11.4	9 675	(4020)	1954 05 28.28994	15 41 24.40	-09 33 35.0	6 675
(3693)	1991 04 19.33889	13 07 08.19	+00 26 56.6	9 675	(4023)	1994 09 07.32066	22 00 50.54	-08 21 58.3	9 675
(3693)	1991 04 19.36736	13 07 07.04	+00 27 07.4	9 675	(4023)	1994 09 07.35590	22 00 48.68	-08 22 08.9	9 675
(3709)	1991 04 19.33889	12 58 27.10	-01 43 55.5	9 675	(4054)	1993 07 25.31372	21 16 07.12	-22 44 24.3	9 675
(3709)	1991 04 19.36736	12 58 26.35	-01 43 47.5	9 675	(4054)	1993 07 25.34244	21 16 05.70	-22 44 30.8	9 675
(3715)	1991 04 19.33889	13 11 02.05	+01 07 10.6	9 675	(4054)	1993 10 09.12569	20 39 54.61	-22 52 21.9	9 675
(3715)	1991 04 19.36736	13 11 00.44	+01 07 21.3	9 675	(4054)	1993 10 09.16944	20 39 55.40	-22 52 11.1	9 675
(3720)	1994 10 03.42274	02 40 33.37	+17 36 29.9	9 675	(4071)	1993 12 09.24340	03 41 25.99	+26 20 01.7	9 675
(3720)	1994 10 03.45799	02 40 31.69	+17 36 30.8	9 675	(4071)	1993 12 09.27483	03 41 24.60	+26 19 48.4	9 675
(3742)	1991 10 08.39670	01 35 36.11	+07 14 54.0	9 675	(4091)	1992 10 22.36667	03 07 07.22	+15 24 30.8	9 675
(3746)	1992 08 27.17326	20 29 16.49	-20 37 57.5	9 675	(4091)	1992 10 22.39861	03 07 05.73	+15 24 28.5	9 675
(3746)	1992 08 27.20556	20 29 15.59	-20 37 59.4	9 675	(4133)	1993 07 25.31372	21 25 55.98	-19 52 47.6	9 675
(3771)	1994 10 03.42274	02 22 37.19	+21 04 06.8	9 675	(4133)	1993 07 25.34244	21 25 54.20	-19 52 48.1	9 675
(3771)	1994 10 03.45799	02 22 36.11	+21 04 00.6	9 675	(4139)	1992 10 22.36667	03 10 57.18	+15 22 20.9	9 675
(3813)	1993 12 09.24340	03 40 40.06	+26 33 35.8	9 675	(4139)	1992 10 22.39861	03 10 55.67	+15 22 13.5	9 675
(3813)	1993 12 09.27483	03 40 38.12	+26 33 26.0	9 675	(4150)	1994 09 09.25182	22 12 28.93	-15 16 41.9	9 675
(3828)	1991 10 08.39670	01 17 21.81	+11 51 54.8	9 675	(4150)	1994 09 09.27986	22 12 27.68	-15 16 50.8	9 675
(3828)	1991 10 08.42222	01 17 20.68	+11 51 45.7	9 675	(4150)	1994 10 01.13160	22 04 31.42	-16 16 28.1	9 675
(3836)	1991 01 22.29444	08 55 05.64	+19 59 27.0	9 675	(4150)	1994 10 01.16094	22 04 31.34	-16 16 28.6	9 675
(3836)	1991 01 22.33316	08 55 03.23	+19 59 38.9	9 675	(4154)	1994 10 03.42274	02 14 55.33	+18 43 56.5	9 675
(3842)	1994 10 03.42274	02 39 54.63	+20 30 55.2	9 675	(4154)	1994 10 03.45799	02 14 53.67	+18 43 53.6	9 675
(3842)	1994 10 03.45799	02 39 53.40	+20 30 56.0	9 675	(4154)	1994 11 29.11771	01 27 50.66	+15 37 40.6	9 675
(3868)	1991 04 19.33889	13 19 34.44	-00 57 50.3	9 675	(4154)	1994 11 29.15573	01 27 49.62	+15 37 33.2	9 675
(3868)	1991 04 19.36736	13 19 32.89	-00 57 36.6	9 675	(4188)	1994 09 09.25182	21 59 03.67	-16 34 26.1	9 675
(3877)	1994 11 29.11771	01 15 37.26	+14 41 09.0	9 675	(4188)	1994 09 09.27986	21 59 02.49	-16 34 38.1	9 675
(3877)	1994 11 29.15573	01 15 36.70	+14 40 52.9	9 675	(4188)	1994 10 01.13160	21 51 13.67	-18 14 58.2	9 675
(3917)	1992 10 22.36667	03 12 06.49	+13 35 35.7	9 675	(4188)	1994 10 01.16094	21 51 13.59	-18 15 02.4	9 675
(3917)	1992 10 22.39861	03 12 04.85	+13 35 28.2	9 675	(4191)	1994 10 03.42274	02 26 45.67	+21 31 26.5	9 675
(3919)	1991 04 19.36736	13 00 14.98	-01 09 16.0	9 675	(4191)	1994 10 03.45799	02 26 44.24	+21 31 15.5	9 675
(3937)	1991 02 10.44531	10 46 59.33	+13 53 03.6	9 675	(4214)	1994 09 09.25182	22 00 29.94	-16 05 42.0	9 675
(3937)	1991 02 10.49965	10 46 56.83	+13 53 11.9	9 675	(4214)	1994 09 09.27986	22 00 28.44	-16 05 46.6	9 675
(3937)	1991 03 13.22066	10 21 09.17	+15 01 39.0	9 675	(4223)	1988 05 15.32587	14 58 13.07	-25 49 37.7	9 675
(3937)	1991 03 13.24931	10 21 07.67	+15 01 41.4	9 675	(4223)	1988 05 15.35260	14 58 11.73	-25 49 29.1	9 675
(3937)	1993 07 25.31372	21 28 45.56	-24 43 37.5	9 675	(4243)	1991 02 10.44531	10 52 59.68	+09 31 41.0	9 675
(3937)	1993 07 25.34244	21 28 44.09	-24 43 42.6	9 675	(4243)	1991 02 10.49965	10 52 57.20	+09 31 49.9	9 675
(3937)	1993 08 13.23524	21 12 35.10	-25 25 37.2	9 675	(4265)	1991 03 13.22066	10 45 56.98	+12 01 18.7	9 675
(3937)	1993 08 13.26441	21 12 33.65	-25 25 39.9	9 675	(4274)	1991 02 10.44531	11 03 48.37	+12 08 29.9	9 675
(3937)	1993 10 09.12569	20 48 25.72	-23 51 04.8	9 675	(4274)	1991 02 10.49965	11 03 45.71	+12 08 43.3	9 675
(3937)	1993 10 09.16944	20 48 26.17	-23 50 54.2	9 675	(4274)	1991 03 13.22066	10 36 22.83	+14 01 24.7	9 675
(3937)	1994 10 03.42274	02 15 49.28	+20 39 12.6	9 675	(4274)	1991 03 13.24931	10 36 21.38	+14 01 28.8	9 675
(3937)	1994 10 03.45799	02 15 47.75	+20 39 12.9	9 675	(4274)	1993 08 13.23524	21 15 42.76	-26 38 08.4	9 675
(3937)	1994 11 29.11771	01 33 08.42	+18 35 15.7	9 675	(4274)	1993 08 13.26441	21 15 40.87	-26 38 11.5	9 675
(3937)	1994 11 29.15573	01 33 07.44	+18 35 09.8	9 675	(4274)	1993 10 09.12569	20 53 56.39	-23 17 48.1	9 675
(3938)	1992 08 27.20556	20 03 12.40	-18 59 16.7	9 675	(4274)	1993 10 09.16944	20 53 57.63	-23 17 29.0	9 675
(3967)	1993 12 07.24688	03 09 50.81	-01 24 15.3	9 675	(4278)	1954 05 28.26563	15 55 39.14	-11 08 51.3	6 675
(3967)	1993 12 07.27917	03 09 49.46	-01 24 08.2	9 675	(4278)	1954 05 28.28994	15 55 37.47	-11 08 47.5	6 675
(3991)	1994 10 03.42274	02 32 57.83	+21 26 03.0	9 675	(4283)	1993 08 13.23524	20 44 33.68	-30 15 22.6	9 675
(3991)	1994 10 03.45799	02 32 56.20	+21 25 57.8	9 675	(4291)	1994 11 07.25747	02 02 00.20	+22 15 14.3	9 675
(3991)	1994 11 29.15573	01 42 46.87	+16 10 03.6	9 675	(4291)	1994 11 07.28715	02 01 58.84	+22 15 00.1	9 675
(4003)	1992 06 28.38403	21 03 15.81	-10 06 56.6	9 675	(4293)	1986 03 04.36076	11 32 35.53	+20 15 50.8	9 675
(4003)	1992 06 28.41510	21 03 15.15	-10 06 57.9	9 675	(4301)	1991 01 19.29410	07 42 30.14	+24 33 48.2	9 675
(4020)	1954 05 28.26563	15 41 25.76	-09 33 41.6	6 675	(4302)	1951 12 27.41250	08 19 40.03	+14 01 48.0	6 675

(4302)	1951 12 27.44306	08 19 38.66	+14 01 52.2	6 675	(4655)	1988 09 10.23273	21 12 15.72	-14 54 11.2	9 675
(4304)	1988 09 10.23273	21 21 28.43	-13 39 39.8	9 675	(4655)	1988 09 10.26944	21 12 14.65	-14 54 13.0	9 675
(4304)	1988 09 10.26944	21 21 27.00	-13 39 42.5	9 675	(4675)	1994 10 03.42274	02 23 26.82	+21 13 11.9	9 675
(4310)	1991 10 08.39670	01 25 20.80	+06 37 45.2	9 675	(4675)	1994 10 03.45799	02 23 25.23	+21 13 06.9	9 675
(4310)	1991 10 08.42222	01 25 19.31	+06 37 31.5	9 675	(4675)	1994 11 29.11771	01 35 57.77	+16 33 46.8	9 675
(4344)	1991 10 08.39670	01 24 39.90	+05 18 20.9	9 675	(4675)	1994 11 29.15573	01 35 56.82	+16 33 37.1	9 675
(4344)	1991 10 08.42222	01 24 38.75	+05 18 13.5	9 675	(4691)	1993 08 15.30000	22 14 07.38	-24 35 14.9	9 675
(4350)	1991 04 19.33889	13 24 37.20	-05 04 25.2	9 675	(4691)	1993 08 15.32726	22 14 05.81	-24 35 21.7	9 675
(4350)	1991 04 19.36736	13 24 35.30	-05 04 27.5	9 675	(4719)	1993 07 25.31372	21 29 08.11	-23 37 43.0	9 675
(4359)	1992 10 22.36667	03 07 03.84	+15 46 44.9	9 675	(4719)	1993 07 25.34244	21 29 06.62	-23 37 49.1	9 675
(4359)	1992 10 22.39861	03 07 02.06	+15 46 35.2	9 675	(4719)	1993 10 09.12569	20 44 26.54	-23 43 11.6	9 675
(4364)	1992 10 22.36667	03 14 50.15	+15 12 21.5	9 675	(4719)	1993 10 09.16944	20 44 26.92	-23 43 00.7	9 675
(4364)	1992 10 22.39861	03 14 48.42	+15 12 12.9	9 675	(4727)	1991 01 22.29444	08 59 21.53	+16 42 43.5	9 675
(4367)	1993 08 15.30000	22 02 23.97	-24 25 39.1	9 675	(4727)	1991 01 22.33316	08 59 19.55	+16 42 54.5	9 675
(4367)	1993 08 15.32726	22 02 22.37	-24 25 43.9	9 675	(4749)	1986 03 04.36076	11 45 45.02	+17 43 55.0	9 675
(4375)	1988 09 10.23273	21 19 30.52	-17 36 20.5	9 675	(4751)	1991 01 22.29444	08 56 58.39	+16 38 22.4	9 675
(4375)	1988 09 10.26944	21 19 29.23	-17 36 30.7	9 675	(4751)	1991 01 22.33316	08 56 56.53	+16 38 31.4	9 675
(4382)	1991 04 19.33889	13 15 03.99	+01 52 21.9	9 675	(4763)	1993 07 25.31372	21 17 33.41	-23 14 51.2	9 675
(4382)	1991 04 19.36736	13 15 02.48	+01 52 30.8	9 675	(4763)	1993 07 25.34244	21 17 31.66	-23 14 53.2	9 675
(4397)	1988 05 15.32587	15 06 29.18	-28 10 12.1	9 675	(4763)	1993 10 09.12569	20 35 33.62	-20 46 23.0	9 675
(4397)	1988 05 15.35260	15 06 27.36	-28 10 05.3	9 675	(4763)	1994 11 07.25747	01 52 49.35	+28 29 44.4	9 675
(4398)	1991 02 10.44531	11 19 50.82	+10 24 15.6	16.8 9 675	(4763)	1994 11 07.28715	01 52 47.57	+28 29 36.5	9 675
(4398)	1991 02 10.49965	11 19 48.68	+10 24 40.7	9 675	(4783)	1993 07 25.31372	21 21 06.22	-25 08 05.9	9 675
(4398)	1991 03 13.22066	10 53 34.92	+14 14 07.4	9 675	(4783)	1993 07 25.34244	21 21 04.67	-25 08 19.5	9 675
(4398)	1991 03 13.24931	10 53 33.32	+14 14 17.9	9 675	(4783)	1993 08 13.23524	21 03 55.61	-27 43 44.7	9 675
(4419)	1992 08 27.20556	20 19 31.64	-19 05 40.3	9 675	(4783)	1993 08 13.26441	21 03 53.96	-27 43 57.7	9 675
(4430)	1993 08 15.30000	22 15 19.16	-20 08 45.3	9 675	(4790)	1991 02 10.44531	11 14 21.86	+13 51 24.8	9 675
(4430)	1993 08 15.32726	22 15 17.60	-20 08 50.0	9 675	(4790)	1991 02 10.49965	11 14 20.10	+13 51 59.2	9 675
(4444)	1991 02 10.44531	11 11 12.34	+12 18 20.1	9 675	(4810)	1993 08 17.40260	23 49 09.31	-13 51 51.3	9 675
(4444)	1991 02 10.49965	11 11 10.07	+12 18 47.8	9 675	(4810)	1993 08 17.42934	23 49 08.21	-13 52 01.1	9 675
(4444)	1991 03 13.22066	10 44 00.24	+16 29 21.9	9 675	(4813)	1991 03 13.22066	10 45 00.14	+19 47 52.0	9 675
(4444)	1991 03 13.24931	10 43 58.65	+16 29 34.3	9 675	(4813)	1991 03 13.24931	10 44 58.68	+19 47 52.7	9 675
(4459)	1988 09 10.23273	21 02 45.03	-16 02 03.9	9 675	(4823)	1992 08 27.20556	20 11 34.78	-20 38 48.8	9 675
(4459)	1988 09 10.26944	21 02 43.70	-16 02 12.7	9 675	(4824)	1991 02 10.44531	11 16 39.30	+15 46 59.3	9 675
(4473)	1993 07 25.31372	21 11 06.99	-18 25 50.8	9 675	(4824)	1991 02 10.49965	11 16 36.68	+15 47 16.8	9 675
(4473)	1993 07 25.34244	21 11 05.51	-18 25 53.0	9 675	(4824)	1991 03 13.22066	10 46 09.20	+18 08 25.1	9 675
(4545)	1988 09 10.23273	21 09 47.54	-18 46 43.9	9 675	(4824)	1991 03 13.24931	10 46 07.40	+18 08 28.9	9 675
(4545)	1988 09 10.26944	21 09 46.45	-18 46 48.2	9 675	(4864)	1991 04 19.33889	13 13 45.89	-01 57 50.9	9 675
(4575)	1991 02 10.44531	10 58 33.57	+08 28 18.0	9 675	(4864)	1991 04 19.36736	13 13 44.36	-01 57 41.9	9 675
(4575)	1991 02 10.49965	10 58 31.60	+08 28 42.5	9 675	(4869)	1991 02 10.44531	11 00 08.27	+11 30 26.4	9 675
(4575)	1991 03 13.22066	10 37 12.19	+12 31 30.6	9 675	(4869)	1991 02 10.49965	11 00 05.55	+11 30 49.2	9 675
(4575)	1991 03 13.24931	10 37 11.00	+12 31 43.8	9 675	(4869)	1991 03 13.22066	10 30 24.40	+14 53 05.2	9 675
(4620)	1991 04 19.33889	13 20 44.40	-01 21 55.2	9 675	(4869)	1991 03 13.24931	10 30 22.68	+14 53 14.5	9 675
(4620)	1991 04 19.36736	13 20 42.79	-01 21 44.8	9 675	(4874)	1991 01 22.29444	08 59 39.77	+17 08 45.1	9 675
(4645)	1994 09 07.32066	21 43 36.57	-06 37 23.7	9 675	(4874)	1991 01 22.33316	08 59 37.73	+17 09 12.4	9 675
(4645)	1994 09 07.35590	21 43 35.04	-06 37 38.0	9 675	(4895)	1993 08 15.30000	22 10 57.96	-26 21 44.1	9 675
(4652)	1988 09 10.23273	21 27 48.82	-12 38 32.2	9 675	(4895)	1993 08 15.32726	22 10 56.29	-26 21 51.4	9 675
(4652)	1988 09 10.26944	21 27 47.02	-12 38 21.3	9 675	(4903)	1991 01 19.25420	07 39 08.17	+22 53 27.8	9 675
(4654)	1993 08 13.23524	20 56 02.63	-28 32 03.5	9 675	(4903)	1991 01 19.29410	07 39 06.13	+22 53 33.4	9 675
(4654)	1993 08 13.26441	20 56 00.83	-28 32 03.4	9 675	(4936)	1951 12 27.41250	08 37 00.04	+11 06 15.8	6 675
(4654)	1993 10 09.12569	20 51 51.72	-23 45 16.6	9 675	(4936)	1951 12 27.44306	08 36 59.01	+11 06 20.8	6 675
(4654)	1993 10 09.16944	20 51 53.76	-23 44 57.9	9 675	(4939)	1994 09 09.25182	22 14 21.90	-15 57 27.0	9 675

(4939)	1994 09 09.27986	22 14 20.42	-15 57 30.6	9 675	(5319)	1992 10 22.39861	03 11 46.28	+14 03 38.3	9 675
(4939)	1994 10 01.13160	21 58 58.04	-16 24 29.2	9 675	(5323)	1993 07 25.31372	21 02 21.54	-22 20 44.0	9 675
(4939)	1994 10 01.16094	21 58 57.07	-16 24 29.5	9 675	(5323)	1993 07 25.34244	21 02 19.90	-22 20 53.6	9 675
(5003)	1992 06 28.38403	21 00 24.37	-14 55 06.2	9 675	(5323)	1993 10 09.16944	20 28 24.07	-23 32 12.7	9 675
(5003)	1992 06 28.41510	21 00 23.39	-14 55 07.8	9 675	(5384)	1992 10 22.36667	03 22 24.95	+09 05 02.1	9 675
(5003)	1992 08 27.20556	20 08 29.92	-17 35 10.7	9 675	(5384)	1992 10 22.39861	03 22 21.94	+09 05 22.6	9 675
(5018)	1994 09 09.25182	21 56 57.06	-18 08 42.9	9 675	(5396)	1992 10 22.36667	02 58 49.95	+14 50 19.9	9 675
(5018)	1994 09 09.27986	21 56 55.50	-18 08 44.9	9 675	(5396)	1992 10 22.39861	02 58 48.44	+14 50 04.7	9 675
(5021)	1992 08 27.20556	20 31 06.77	-20 35 57.7	9 675	(5404)	1988 05 15.32587	15 02 58.27	-28 34 07.3	9 675
(5055)	1992 10 22.36667	02 58 44.14	+12 30 08.7	9 675	(5404)	1988 05 15.35260	15 02 56.25	-28 34 06.5	9 675
(5086)	1991 10 08.39670	01 32 01.05	+07 45 31.1	9 675	(5407)	1993 12 07.24688	03 06 35.23	+00 41 49.2	9 675
(5086)	1991 10 08.42222	01 31 59.49	+07 45 18.3	9 675	(5407)	1993 12 07.27917	03 06 33.36	+00 41 54.4	9 675
(5087)	1992 10 22.36667	02 53 47.06	+12 52 40.4	9 675	(5430)	1991 01 22.29444	08 48 36.07	+20 01 04.3	9 675
(5087)	1992 10 22.39861	02 53 45.56	+12 52 30.6	9 675	(5441)	1993 12 07.24688	03 17 50.59	+02 57 18.1	9 675
(5100)	1994 10 01.13160	22 14 29.08	-21 11 01.0	9 675	(5441)	1993 12 07.27917	03 17 49.34	+02 57 18.9	9 675
(5100)	1994 10 01.16094	22 14 28.24	-21 11 02.4	9 675	(5480)	1991 02 10.44531	10 54 55.07	+12 30 09.3	9 675
(5116)	1991 10 08.39670	01 35 28.74	+08 29 45.4	9 675	(5480)	1991 02 10.49965	10 54 52.97	+12 30 29.3	9 675
(5116)	1991 10 08.42222	01 35 27.44	+08 29 40.7	9 675	(5480)	1991 03 13.24931	10 33 00.94	+15 25 52.4	9 675
(5139)	1994 09 09.25182	22 08 18.14	-16 07 21.2	9 675	(5502)	1994 09 09.25182	21 59 33.36	-19 20 51.2	9 675
(5139)	1994 10 01.13160	21 56 34.65	-16 44 41.5	9 675	(5502)	1994 09 09.27986	21 59 31.87	-19 20 48.5	9 675
(5169)	1991 01 22.29444	08 59 49.13	+19 54 51.2	9 675	(5529)	1994 09 09.25182	22 13 10.06	-16 42 21.4	9 675
(5169)	1991 01 22.33316	08 59 46.47	+19 54 59.5	9 675	(5529)	1994 09 09.27986	22 13 08.36	-16 42 24.3	9 675
(5172)	1994 11 29.11771	01 22 39.90	+13 22 16.5	9 675	(5529)	1994 10 01.13160	21 59 46.97	-16 30 44.0	9 675
(5172)	1994 11 29.15573	01 22 40.10	+13 22 06.8	9 675	(5529)	1994 10 01.16094	21 59 46.44	-16 30 39.5	9 675
(5184)	1993 07 25.31372	21 14 12.75	-18 59 53.7	9 675	(5536)	1992 06 28.38403	20 50 58.42	-09 00 27.9	9 675
(5184)	1993 07 25.34244	21 14 10.91	-18 59 57.9	9 675	(5536)	1992 06 28.41510	20 50 57.40	-09 00 21.0	9 675
(5200)	1994 09 09.25182	21 55 23.31	-20 23 21.8	9 675	(5538)	1988 09 10.23273	21 11 57.53	-17 02 01.2	9 675
(5200)	1994 09 09.27986	21 55 21.80	-20 23 21.5	9 675	(5538)	1988 09 10.26944	21 11 56.16	-17 01 57.7	9 675
(5215)	1991 01 22.29444	08 37 14.77	+18 25 06.5	9 675	(5547)	1994 10 03.42274	02 19 13.21	+23 52 16.4	9 675
(5215)	1991 01 22.33316	08 37 12.64	+18 25 23.3	9 675	(5547)	1994 10 03.45799	02 19 11.74	+23 52 05.2	9 675
(5220)	1993 12 09.24340	03 37 08.57	+25 22 25.9	9 675	(5547)	1994 11 29.11771	01 37 28.53	+16 50 10.0	9 675
(5220)	1993 12 09.27483	03 37 06.62	+25 22 20.2	9 675	(5547)	1994 11 29.15573	01 37 27.63	+16 49 54.1	9 675
(5262)	1989 11 25.29878	02 45 39.77	-00 49 31.9	9 675	(5605)	1994 09 09.25182	21 53 24.96	-17 23 13.5	9 675
(5262)	1989 11 25.32917	02 45 38.42	-00 49 30.5	9 675	(5605)	1994 09 09.27986	21 53 23.53	-17 23 16.5	9 675
(5271)	1991 02 10.44531	10 57 12.54	+15 48 39.6	9 675	(5606)	1991 10 08.42222	01 31 12.23	+04 56 36.9	9 675
(5271)	1991 02 10.49965	10 57 10.56	+15 49 18.2	9 675	(5671)	1991 02 10.44531	10 53 11.33	+10 18 23.0	9 675
(5286)	1988 09 10.23273	21 24 25.44	-17 19 27.2	9 675	(5671)	1991 02 10.49965	10 53 08.78	+10 18 43.0	9 675
(5286)	1988 09 10.26944	21 24 24.17	-17 19 32.5	9 675	(5671)	1991 03 13.22066	10 27 42.11	+13 24 37.8	9 675
(5294)	1951 12 27.41250	08 21 59.55	+11 53 11.4	6 675	(5671)	1991 03 13.24931	10 27 40.78	+13 24 46.3	9 675
(5294)	1951 12 27.44306	08 21 58.42	+11 53 25.8	6 675	(5674)	1993 10 09.12569	20 28 45.00	-21 18 40.3	9 675
(5295)	1993 07 25.31372	21 31 45.75	-21 52 42.2	9 675	(5685)	1994 11 29.11771	01 22 34.87	+18 30 03.9	9 675
(5295)	1993 07 25.34244	21 31 44.55	-21 52 50.4	9 675	(5685)	1994 11 29.15573	01 22 34.11	+18 29 52.2	9 675
(5295)	1993 10 09.12569	20 54 26.63	-24 14 08.0	9 675	(5687)	1991 01 22.29444	08 45 50.75	+16 46 56.6	9 675
(5299)	1993 12 09.24340	03 36 29.39	+26 45 01.5	9 675	(5687)	1991 01 22.33316	08 45 48.77	+16 47 11.9	9 675
(5299)	1993 12 09.27483	03 36 27.93	+26 44 54.3	9 675	(5709)	1991 04 19.33889	13 02 55.70	-00 37 56.6	9 675
(5302)	1993 07 25.31372	21 04 16.45	-18 41 25.5	9 675	(5709)	1991 04 19.36736	13 02 54.54	-00 37 49.8	9 675
(5302)	1993 07 25.34244	21 04 14.75	-18 41 31.0	9 675	(5717)	1991 01 19.25420	07 45 42.80	+24 19 00.1	9 675
(5304)	1993 08 17.42934	23 55 16.63	-11 21 44.2	9 675	(5717)	1991 01 19.29410	07 45 40.05	+24 19 04.2	9 675
(5315)	1992 06 28.38403	21 00 58.56	-07 52 01.9	9 675	(5740)	1991 04 19.33889	13 24 11.42	+01 24 51.0	9 675
(5315)	1992 06 28.41510	21 00 58.11	-07 52 01.5	9 675	(5740)	1991 04 19.36736	13 24 09.74	+01 24 54.1	9 675
(5317)	1993 10 09.16944	20 54 55.42	-25 12 07.1	9 675	(5741)	1988 09 10.23273	21 29 54.78	-19 32 02.9	9 675
(5319)	1992 10 22.36667	03 11 48.12	+14 03 52.0	9 675	(5741)	1988 09 10.26944	21 29 53.51	-19 32 08.2	9 675

(5758)	1993 08 17.40260	23 45 49.94	-14 54 42.4	9 675	(6108)	1994 11 29.11771	01 29 32.23	+12 44 25.0	9 675
(5758)	1993 08 17.42934	23 45 48.97	-14 54 52.9	9 675	(6108)	1994 11 29.15573	01 29 31.94	+12 44 18.0	9 675
(5769)	1993 12 09.24340	03 40 17.41	+29 45 34.0	9 675	(6129)	1988 05 15.32587	15 01 50.76	-27 46 16.6	9 675
(5769)	1993 12 09.27483	03 40 15.71	+29 45 24.7	9 675	(6129)	1988 05 15.35260	15 01 49.37	-27 46 10.4	9 675
(5791)	1992 08 27.17326	20 19 43.05	-19 03 40.4	9 675	(6146)	1994 09 09.25182	22 06 36.82	-18 55 23.4	9 675
(5791)	1992 08 27.20556	20 19 41.93	-19 03 45.2	9 675	(6146)	1994 09 09.27986	22 06 35.72	-18 55 22.4	9 675
(5812)	1992 08 27.17326	20 14 16.03	-20 49 19.5	9 675	(6146)	1994 10 01.13160	22 01 08.71	-17 50 19.9	9 675
(5812)	1992 08 27.20556	20 14 14.80	-20 49 09.1	9 675	(6146)	1994 10 01.16094	22 01 08.81	-17 50 11.1	9 675
(5825)	1992 06 28.38403	21 07 04.02	-09 36 54.6	18.8 9 675	(6156)	1991 01 22.29444	08 51 47.40	+15 21 48.0	9 675
(5825)	1992 08 27.17326	20 24 10.36	-15 37 22.4	18.5 9 675	(6156)	1991 01 22.33316	08 51 45.19	+15 21 48.7	9 675
(5825)	1992 08 27.20556	20 24 09.14	-15 37 34.8	9 675	(6167)	1994 10 03.42274	02 35 45.92	+17 12 23.6	9 675
(5829)	1991 02 10.44531	11 03 08.55	+09 16 38.4	9 675	(6167)	1994 10 03.45799	02 35 44.43	+17 12 19.7	9 675
(5829)	1991 02 10.49965	11 03 05.63	+09 16 44.1	9 675	(6197)	1994 11 29.11771	01 16 53.99	+13 22 22.2	9 675
(5866)	1991 04 19.33889	13 04 52.18	+00 01 34.3	9 675	(6197)	1994 11 29.15573	01 16 53.71	+13 22 09.9	9 675
(5866)	1991 04 19.36736	13 04 50.85	+00 01 41.9	9 675	(6208)	1991 10 08.39670	01 13 43.85	+09 05 20.3	9 675
(5872)	1992 06 28.38403	21 00 10.38	-07 17 52.3	9 675	(6208)	1991 10 08.42222	01 13 42.29	+09 05 11.0	9 675
(5872)	1992 06 28.41510	21 00 09.67	-07 17 43.6	9 675	(6210)	1991 01 22.29444	08 38 53.71	+18 22 44.4	17.0 9 675
(5873)	1991 02 10.44531	10 56 24.07	+09 40 26.4	9 675	(6210)	1991 01 22.33316	08 38 51.59	+18 22 54.3	9 675
(5873)	1991 02 10.49965	10 56 21.36	+09 40 51.4	9 675	(6219)	1991 01 22.29444	08 57 31.80	+19 22 41.7	19.0 9 675
(5873)	1991 03 13.22066	10 27 00.06	+13 27 21.5	9 675	(6223)	1994 10 03.42274	02 39 57.57	+21 56 15.3	9 675
(5873)	1991 03 13.24931	10 26 58.53	+13 27 33.2	9 675	(6223)	1994 10 03.45799	02 39 56.41	+21 56 12.9	9 675
(5874)	1992 06 28.38403	20 55 38.52	-14 15 05.1	9 675	(6227)	1988 09 10.23273	21 08 25.94	-15 47 09.8	9 675
(5874)	1992 06 28.41510	20 55 37.60	-14 15 09.4	9 675	(6227)	1988 09 10.26944	21 08 24.98	-15 47 14.5	9 675
(5874)	1992 08 27.17326	20 05 53.59	-19 40 54.3	9 675	(6232)	1988 09 10.23273	21 05 07.12	-17 27 00.5	9 675
(5874)	1992 08 27.20556	20 05 52.36	-19 41 02.8	9 675	(6232)	1988 09 10.26944	21 05 06.05	-17 26 56.6	9 675
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(5891)	1992 08 27.20556	20 29 53.24	-17 25 16.2	9 675	(6247)	1993 08 15.32726	22 10 05.48	-21 33 34.9	9 675
(5908)	1992 06 28.38403	20 56 45.58	-07 16 26.5	9 675	(6283)	1991 02 10.44531	11 09 23.38	+10 44 16.8	9 675
(5930)	1954 05 28.26563	15 35 32.68	-10 00 33.7	6 675	(6283)	1991 02 10.49965	11 09 20.72	+10 44 25.5	9 675
(5930)	1954 05 28.28994	15 35 31.21	-10 00 30.1	6 675	(6283)	1991 03 13.22066	10 41 09.04	+12 01 24.8	9 675
(5951)	1991 02 10.44531	11 00 27.00	+14 49 39.9	9 675	(6283)	1991 03 13.24931	10 41 07.39	+12 01 28.1	9 675
(5951)	1991 02 10.49965	11 00 23.98	+14 50 04.5	9 675	(6323)	1991 02 10.44531	11 15 48.57	+10 21 20.0	9 675
(5951)	1991 03 13.22066	10 29 17.29	+18 14 01.5	9 675	(6323)	1991 02 10.49965	11 15 46.36	+10 21 29.2	9 675
(5951)	1991 03 13.24931	10 29 15.61	+18 14 09.5	9 675	(6329)	1993 08 17.40260	23 42 53.18	-11 24 23.9	9 675
(5999)	1989 11 25.29878	02 46 31.04	-00 32 09.1	9 675	(6329)	1993 08 17.42934	23 42 52.12	-11 24 34.3	9 675
(5999)	1989 11 25.32917	02 46 28.53	-00 31 52.9	9 675	(6335)	1991 02 10.44531	11 15 22.30	+10 12 13.9	9 675
(6020)	1991 10 08.39670	01 08 30.91	+06 49 19.1	9 675	(6335)	1991 02 10.49965	11 15 20.58	+10 12 46.3	9 675
(6022)	1992 10 22.36667	02 59 25.31	+11 44 35.7	9 675	(6335)	1991 03 13.22066	10 53 16.02	+15 48 55.3	9 675
(6022)	1992 10 22.39861	02 59 23.39	+11 44 31.0	9 675	(6335)	1991 03 13.24931	10 53 14.57	+15 49 12.0	9 675
(6087)	1994 09 09.25182	22 05 01.55	-15 29 02.8	9 675	(6337)	1992 10 22.36667	03 00 22.15	+11 07 55.3	9 675
(6087)	1994 09 09.27986	22 05 00.22	-15 29 36.3	9 675	(6337)	1992 10 22.39861	03 00 20.71	+11 07 48.7	9 675
(6087)	1994 10 01.13160	21 54 31.43	-20 58 10.6	9 675	(6348)	1991 01 22.29444	08 52 56.25	+18 31 42.6	9 675
(6087)	1994 10 01.16094	21 54 31.02	-20 58 30.0	9 675	(6348)	1991 01 22.33316	08 52 53.71	+18 31 47.8	9 675
(6088)	1992 06 28.41510	20 56 41.77	-12 06 59.5	9 675	(6377)	1951 12 27.41250	08 26 51.55	+14 41 14.0	6 675
(6088)	1992 08 27.17326	20 16 33.63	-14 49 20.6	9 675	(6377)	1951 12 27.44306	08 26 50.33	+14 41 22.9	6 675
(6088)	1992 08 27.20556	20 16 32.63	-14 49 25.8	9 675	(6402)	1991 04 19.36736	13 03 22.81	-00 05 15.4	9 675
(6092)	1951 12 27.41250	08 41 00.81	+14 29 20.1	6 675	(6413)	1991 01 19.25420	07 37 55.94	+30 40 53.8	9 675
(6092)	1951 12 27.44306	08 40 59.58	+14 29 28.2	19.2 6 675	(6413)	1991 01 19.29410	07 37 53.05	+30 40 59.2	9 675
(6106)	1988 09 10.23273	21 29 01.54	-16 31 35.4	9 675	(6442)	1991 04 19.33889	13 14 44.66	-03 56 13.4	9 675
(6106)	1988 09 10.26944	21 29 00.42	-16 31 41.9	9 675	(6442)	1991 04 19.36736	13 14 43.22	-03 56 03.1	9 675
(6108)	1994 10 03.42274	02 12 07.64	+18 30 03.7	9 675	(6451)	1991 04 19.33889	13 02 25.56	-00 25 00.4	9 675
(6108)	1994 10 03.45799	02 12 05.85	+18 29 55.2	9 675	(6451)	1991 04 19.36736	13 02 24.24	-00 24 50.8	9 675

(6451)	1992 08 27.17326	20 31 45.19	-20 59 30.7	9 675	(6990)	1992 08 27.20556	20 09 42.80	-20 55 56.3	9 675
(6451)	1992 08 27.20556	20 31 43.84	-20 59 34.8	9 675	(6993)	1992 08 27.17326	20 34 08.07	-19 06 58.5	18.0 9 675
(6486)	1991 04 19.33889	13 19 13.85	-04 39 51.3	9 675	(6993)	1992 08 27.20556	20 34 06.89	-19 07 02.5	9 675
(6486)	1991 04 19.36736	13 19 12.34	-04 39 37.6	9 675	(7011)	1994 11 29.11771	01 26 48.81	+15 09 54.8	9 675
(6534)	1993 12 07.24688	03 09 12.45	+04 07 08.0	9 675	(7011)	1994 11 29.15573	01 26 48.33	+15 09 56.7	9 675
(6534)	1993 12 07.27917	03 09 10.86	+04 07 19.2	9 675	(7031)	1994 10 03.42274	02 24 30.94	+18 08 51.4	9 675
(6630)	1991 04 19.33889	13 11 55.69	-00 35 51.2	9 675	(7031)	1994 10 03.45799	02 24 29.43	+18 08 51.2	9 675
(6631)	1991 10 08.39670	01 09 21.26	+06 14 36.2	9 675	(7031)	1994 11 29.11771	01 33 14.77	+15 56 42.0	9 675
(6631)	1991 10 08.42222	01 09 20.04	+06 14 20.0	9 675	(7031)	1994 11 29.15573	01 33 13.75	+15 56 39.0	9 675
(6664)	1991 10 08.39670	01 30 32.46	+06 30 15.5	18.0 9 675	(7049)	1994 10 01.13160	22 06 02.64	-16 09 40.7	9 675
(6664)	1991 10 08.42222	01 30 30.98	+06 30 09.5	9 675	(7049)	1994 10 01.16094	22 06 01.81	-16 09 43.4	9 675
(6677)	1986 03 04.36076	11 36 44.43	+18 54 21.2	18.2 9 675	(7050)	1991 02 10.44531	11 11 09.16	+14 12 21.4	9 675
(6719)	1994 09 09.25182	22 21 19.08	-15 43 53.1	9 675	(7050)	1991 02 10.49965	11 11 06.80	+14 12 34.8	9 675
(6719)	1994 09 09.27986	22 21 17.72	-15 43 59.2	9 675	(7050)	1991 03 13.22066	10 44 21.97	+16 08 44.5	9 675
(6719)	1994 10 01.13160	22 08 14.16	-16 35 19.8	9 675	(7050)	1991 03 13.24931	10 44 20.37	+16 08 49.3	9 675
(6719)	1994 10 01.16094	22 08 13.45	-16 35 21.9	9 675	(7056)	1993 07 25.31372	21 07 05.22	-23 23 34.5	9 675
(6722)	1988 09 10.23273	21 32 09.95	-18 33 02.1	9 675	(7056)	1993 07 25.34244	21 07 03.62	-23 23 44.6	9 675
(6722)	1988 09 10.26944	21 32 08.66	-18 33 06.2	9 675	(7056)	1993 10 09.12569	20 36 22.88	-24 44 25.7	9 675
(6761)	1951 12 27.44306	08 19 54.26	+13 19 56.9	19.0 6 675	(7056)	1993 10 09.16944	20 36 24.02	-24 44 18.1	9 675
(6763)	1951 12 27.44306	08 19 56.66	+08 19 39.0	6 675	(7065)	1954 05 28.26563	15 47 56.47	-12 12 50.6	6 675
(6767)	1994 09 09.25182	22 17 33.17	-21 57 45.4	18.2 9 675	(7065)	1954 05 28.28994	15 47 55.30	-12 12 44.9	6 675
(6767)	1994 09 09.27986	22 17 31.73	-21 57 49.1	9 675	(7069)	1993 08 17.40260	23 45 40.76	-10 53 44.0	9 675
(6773)	1994 10 01.13160	22 03 04.35	-15 30 41.9	9 675	(7069)	1993 08 17.42934	23 45 39.90	-10 53 53.3	9 675
(6773)	1994 10 01.16094	22 03 03.92	-15 30 48.7	9 675	(7097)	1991 02 10.49965	10 48 11.91	+10 29 58.7	9 675
(6786)	1991 02 10.44531	10 53 05.67	+10 20 29.6	9 675	(7128)	1991 10 08.39670	01 12 40.21	+10 45 22.4	9 675
(6786)	1991 02 10.49965	10 53 03.47	+10 20 45.8	9 675	(7128)	1991 10 08.42222	01 12 38.99	+10 45 14.2	9 675
(6786)	1991 03 13.22066	10 30 27.86	+12 54 44.3	9 675	(7145)	1991 04 19.33889	13 29 29.19	-03 10 26.2	9 675
(6786)	1991 03 13.24931	10 30 26.66	+12 54 52.0	9 675	(7145)	1991 04 19.36736	13 29 27.70	-03 10 14.0	9 675
(6793)	1994 10 01.13160	22 14 18.37	-16 48 46.1	9 675	(7153)	1993 12 09.24340	04 11 10.24	+26 13 56.0	9 675
(6812)	1991 01 22.29444	08 55 00.00	+16 19 45.1	18.5 9 675	(7153)	1993 12 09.27483	04 11 08.25	+26 13 51.9	9 675
(6813)	1994 10 03.42274	02 23 28.52	+17 22 31.5	9 675	(7163)	1991 03 13.22066	10 43 36.03	+15 29 02.4	9 675
(6813)	1994 10 03.45799	02 23 27.29	+17 22 25.0	9 675	(7163)	1991 03 13.24931	10 43 34.72	+15 29 34.2	9 675
(6851)	1994 10 01.13160	22 02 42.11	-16 11 01.1	9 675	(7187)	1993 07 25.31372	21 00 38.90	-24 56 52.5	9 675
(6851)	1994 10 01.16094	22 02 41.40	-16 11 05.1	9 675	(7187)	1993 07 25.34244	21 00 35.88	-24 56 36.0	9 675
(6869)	1993 10 09.12569	20 29 34.24	-23 26 10.6	9 675	(7194)	1989 11 25.29878	02 52 37.72	-01 40 54.6	9 675
(6869)	1993 10 09.16944	20 29 35.09	-23 26 12.2	9 675	(7194)	1989 11 25.32917	02 52 36.50	-01 41 04.3	9 675
(6887)	1994 09 09.25182	22 07 36.21	-22 25 30.8	9 675	(7196)	1992 08 27.17326	20 16 17.97	-18 29 31.4	9 675
(6887)	1994 09 09.27986	22 07 34.61	-22 25 34.0	9 675	(7196)	1992 08 27.20556	20 16 16.65	-18 29 40.3	9 675
(6892)	1994 09 09.25182	22 05 41.04	-21 09 43.6	9 675	(7198)	1951 12 27.41250	08 44 35.68	+12 37 42.2	6 675
(6892)	1994 09 09.27986	22 05 39.93	-21 09 45.0	9 675	(7198)	1951 12 27.44306	08 44 34.53	+12 37 52.8	17.2 6 675
(6892)	1994 10 01.13160	21 59 38.37	-20 26 04.8	9 675	(7204)	1988 09 10.23273	21 13 25.72	-12 50 15.7	9 675
(6895)	1991 01 22.29444	08 37 12.57	+18 17 52.2	17.8 9 675	(7204)	1988 09 10.26944	21 13 24.56	-12 50 26.5	9 675
(6895)	1991 01 22.33316	08 37 10.25	+18 17 59.0	9 675	(7204)	1991 04 19.33889	13 22 29.69	-04 37 41.1	9 675
(6913)	1994 09 09.25182	22 11 26.87	-18 49 20.3	9 675	(7204)	1991 04 19.36736	13 22 28.37	-04 37 29.0	9 675
(6913)	1994 09 09.27986	22 11 25.42	-18 49 28.5	9 675	(7209)	1988 05 15.32587	14 55 22.61	-31 19 58.7	9 675
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(6913)	1994 10 01.16094	22 00 24.34	-19 38 54.4	9 675	(7210)	1991 01 22.29444	08 34 45.61	+18 41 30.6	9 675
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(6935)	1991 10 08.42222	01 19 21.39	+08 55 19.0	9 675	(7242)	1954 05 28.26563	15 32 07.41	-12 16 20.0	18.5 6 675
(6965)	1993 10 09.12569	20 29 31.00	-21 15 17.0	9 675	(7294)	1991 01 19.25420	07 24 37.90	+28 58 41.1	9 675
(6987)	1991 01 22.29444	08 49 56.44	+14 31 39.4	18.5 9 675	(7294)	1991 01 19.29410	07 24 35.36	+28 58 50.3	9 675
(6987)	1991 01 22.33316	08 49 54.28	+14 31 45.5	9 675	(7297)	1992 10 22.36667	03 13 19.81	+08 00 37.9	9 675

(7297)	1992 10 22.39861	03 13 18.34	+08 00 37.1		9 675
(7309)	1993 12 09.27483	04 05 59.72	+24 49 17.2		9 675
(7317)	1991 10 08.39670	01 10 10.68	+05 44 14.7	17.8	9 675
(7317)	1991 10 08.42222	01 10 09.22	+05 44 03.8		9 675
(7353)	1991 01 22.29444	08 56 17.63	+20 57 41.6	17.5	9 675
(7353)	1991 01 22.33316	08 56 15.02	+20 57 42.0		9 675
(7359)	1954 05 28.26563	15 37 07.07	-14 48 26.3		6 675
(7359)	1991 02 10.44531	11 07 43.99	+09 03 05.2		9 675
(7365)	1993 12 07.24688	03 18 25.96	+05 29 21.9		9 675
(7365)	1993 12 07.27917	03 18 24.65	+05 29 21.7		9 675
(7394)	1992 06 28.38403	20 43 19.11	-08 41 05.3	17.8	9 675
(7394)	1992 06 28.41510	20 43 18.25	-08 41 07.8		9 675
(7396)	1988 09 10.23273	21 01 59.12	-15 22 10.4	18.2	9 675
(7396)	1988 09 10.26944	21 01 58.03	-15 22 16.5		9 675
(7429)	1991 10 08.39670	01 35 32.56	+11 09 34.0	17.0	9 675

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[tucker@mail.hvs.com]

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GSC

1996 XY ₂₅	1997 01 31.09191	01 04 53.71	-05 33 39.7		683
1996 XY ₂₅	1997 01 31.10037	01 04 54.48	-05 33 33.5		683
1996 XY ₂₅	1997 01 31.10980	01 04 55.36	-05 33 26.4		683
1996 XY ₂₅	1997 01 31.11503	01 04 55.88	-05 33 23.6		683
1996 XY ₂₅	1997 02 02.10767	01 08 07.27	-05 09 57.7		683
1996 XY ₂₅	1997 02 02.11530	01 08 07.96	-05 09 52.3		683
1996 XY ₂₅	1997 02 02.12280	01 08 08.68	-05 09 46.9		683
1996 YZ ₂	1997 01 12.08441	00 58 48.54	+04 55 04.2		683
1996 YZ ₂	1997 01 12.09243	00 58 49.00	+04 55 06.0		683
1996 YZ ₂	1997 01 12.10682	00 58 50.02	+04 55 09.0		683
1997 AT ₆	1997 02 07.13999	02 05 31.88	+10 25 18.0	18.4 R	683
1997 AT ₆	1997 02 07.16732	02 05 35.65	+10 25 32.7	19.6 R	683
1997 AT ₆	1997 02 10.11301	02 12 29.53	+10 55 24.6	19.1 R	683
1997 AT ₆	1997 02 10.12231	02 12 30.85	+10 55 30.2	19.2 R	683
1997 AT ₆	1997 02 10.13022	02 12 31.89	+10 55 35.3	18.7 R	683
1997 AT ₁₇	1997 01 28.23337	08 17 39.10	+22 51 10.5		683
1997 AT ₁₇	1997 01 28.23830	08 17 38.84	+22 51 11.3		683
1997 AT ₁₇	1997 01 28.24565	08 17 38.44	+22 51 12.5		683
1997 AT ₁₇	1997 01 30.22751	08 15 56.35	+22 56 58.1	17.7 R	683
1997 AT ₁₇	1997 01 30.23480	08 15 55.95	+22 56 59.2	17.5 R	683
1997 AT ₁₇	1997 01 30.24607	08 15 55.33	+22 57 01.1	17.7 R	683
1997 AT ₁₇	1997 01 30.31396	08 15 51.72	+22 57 13.0		683
1997 AT ₁₇	1997 01 31.32313	08 15 00.45	+23 00 01.0		683
1997 AT ₁₇	1997 01 31.32851	08 15 00.21	+23 00 01.6		683
1997 AT ₁₇	1997 02 01.33076	08 14 09.92	+23 02 42.8		683
1997 AT ₁₇	1997 02 01.33804	08 14 09.53	+23 02 43.8		683
1997 AT ₁₇	1997 02 01.34591	08 14 09.13	+23 02 45.0		683
1997 BO ₆	* 1997 01 30.25662	08 15 57.09	+23 06 03.6	18.9 R	683
1997 BO ₆	1997 01 30.26179	08 15 56.81	+23 06 04.5	18.8 R	683
1997 BO ₆	1997 01 30.26978	08 15 56.37	+23 06 06.2	18.5 R	683
1997 BO ₆	1997 01 30.32087	08 15 53.41	+23 06 19.2		683
1997 BO ₆	1997 01 31.36023	08 14 56.42	+23 10 32.2		683

1997 BO ₆	1997 01 31.37111	08 14 55.81	+23 10 34.9		683
1997 BO ₆	1997 01 31.38016	08 14 55.33	+23 10 37.1		683
1997 BO ₆	1997 02 01.35609	08 14 02.47	+23 14 29.8		683
1997 BO ₆	1997 02 01.36178	08 14 02.12	+23 14 31.2		683
1997 BO ₆	1997 02 01.36963	08 14 01.71	+23 14 33.1		683
1997 BO ₆	1997 02 06.22056	08 09 49.32	+23 32 25.2		683
1997 BO ₆	1997 02 06.22803	08 09 48.91	+23 32 26.8	18.6 R	683
1997 BO ₆	1997 02 06.23600	08 09 48.47	+23 32 28.6	18.7 R	683
1997 BP ₆	* 1997 01 30.29053	08 16 16.17	+23 16 35.5	19.2 R	683
1997 BP ₆	1997 01 30.29590	08 16 15.78	+23 16 37.0	19.7 R	683
1997 BP ₆	1997 01 30.30414	08 16 15.58	+23 16 39.2	19.5 R	683
1997 BP ₆	1997 01 30.32768	08 16 13.67	+23 16 49.3		683
1997 BP ₆	1997 01 31.38682	08 15 06.56	+23 21 38.5		683
1997 BP ₆	1997 01 31.39202	08 15 06.25	+23 21 40.0		683
1997 BP ₆	1997 01 31.40015	08 15 05.71	+23 21 42.5		683
1997 BP ₆	1997 02 01.37726	08 14 04.67	+23 26 03.3		683
1997 BP ₆	1997 02 01.38266	08 14 04.42	+23 26 04.5		683
1997 BP ₆	1997 02 01.40667	08 14 02.94	+23 26 11.5		683
1997 CB ₆	1997 02 06.34093	09 08 54.87	+12 30 32.8	18.3 R	683
1997 CB ₆	1997 02 06.34900	09 08 54.42	+12 30 35.3	18.4 R	683
1997 CB ₆	1997 02 06.35633	09 08 53.99	+12 30 37.7	18.2 R	683
1997 CB ₆	1997 02 07.29693	09 08 00.61	+12 35 35.3	18.0 R	683
1997 CB ₆	1997 02 07.30404	09 08 00.17	+12 35 37.5	18.2 R	683
1997 CB ₆	1997 02 07.31287	09 07 59.63	+12 35 40.2	18.1 R	683
1997 CE ₇	1997 02 06.10896	02 03 12.47	+10 17 22.4		683
1997 CE ₇	1997 02 06.11586	02 03 13.01	+10 17 25.5		683
1997 CE ₇	1997 02 06.12381	02 03 13.67	+10 17 28.8	18.1 R	683
1997 CE ₇	1997 02 06.17525	02 03 17.90	+10 17 51.5		683
1997 CE ₇	1997 02 07.09579	02 04 34.99	+10 24 29.3	18.4 R	683
1997 CE ₇	1997 02 07.10263	02 04 35.58	+10 24 32.5	18.9 R	683
1997 CE ₇	1997 02 07.11067	02 04 36.25	+10 24 35.7	18.4 R	683
1997 CE ₇	1997 02 07.12084	02 04 37.07	+10 24 41.2	18.6 R	683
(5507)	1997 01 12.23447	08 30 27.45	+21 33 34.1		683
(5507)	1997 01 12.24301	08 30 26.94	+21 33 35.6	17.2 R	683
(5507)	1997 01 12.25145	08 30 26.43	+21 33 37.2	17.5 R	683
(5507)	1997 01 16.18662	08 26 29.75	+21 44 58.9		683
(5507)	1997 01 16.19337	08 26 29.34	+21 45 00.2		683
(7226)	1997 02 03.14182	01 26 40.55	+06 41 27.2	18.2 R	683
(7226)	1997 02 03.14700	01 26 40.96	+06 41 29.9	18.3 R	683
(7226)	1997 02 03.15478	01 26 41.52	+06 41 33.5		683

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GSC

1989 SF	1997 02 04.35743	10 17 54.83	+10 43 16.5		684
1989 SF	1997 02 04.37819	10 17 53.52	+10 43 20.6	16.0 R	684
1990 TH ₇	1997 01 28.11741	02 32 52.37	+15 54 40.8	19.3 R	684
1990 TH ₇	1997 01 28.12502	02 32 52.67	+15 54 42.3		684
1990 TH ₇	1997 01 30.12763	02 34 13.93	+16 00 50.3	19.3 R	684
1990 TH ₇	1997 01 30.13470	02 34 14.22	+16 00 51.5		684
1990 TH ₇	1997 01 30.14248	02 34 14.51	+16 00 52.9		684

1990 VU ₁₄	1997 01 30.25198	08 02 19.56	+28 24 58.4	684	1997 BO	1997 02 10.33105	10 07 45.23	+11 13 01.6	684
1990 VU ₁₄	1997 01 30.25447	08 02 19.41	+28 24 59.5	684	1997 BG ₂	* 1997 01 28.11741	02 32 29.70	+15 49 45.9	19.3 R 684
1990 VU ₁₄	1997 01 30.25749	08 02 19.25	+28 25 00.1	684	1997 BG ₂	1997 01 28.12502	02 32 30.15	+15 49 48.5	684
1990 VU ₁₄	1997 02 02.26606	07 59 46.59	+28 35 37.9	16.4 R 684	1997 BG ₂	1997 01 30.12763	02 34 35.57	+16 01 12.0	19.8 R 684
1990 VU ₁₄	1997 02 02.26838	07 59 46.47	+28 35 38.3	684	1997 BG ₂	1997 01 30.13470	02 34 36.27	+16 01 15.9	F 684
1990 VU ₁₄	1997 02 02.27115	07 59 46.33	+28 35 38.8	684	1997 BG ₂	1997 01 30.14248	02 34 36.56	+16 01 15.2	F 684
1994 EC ₁	1997 01 31.18953	05 42 01.59	+17 04 14.3	16.3 R 684	1997 BH ₂	* 1997 01 28.11741	02 33 36.62	+15 54 38.9	19.5 R 684
1994 EC ₁	1997 01 31.19322	05 42 01.54	+17 04 15.3	684	1997 BH ₂	1997 01 28.12502	02 33 37.21	+15 54 41.4	684
1994 EC ₁	1997 01 31.19811	05 42 01.49	+17 04 16.6	684	1997 BH ₂	1997 01 30.15373	02 36 15.66	+16 04 56.1	F 684
1994 EC ₁	1997 02 02.25429	05 41 47.96	+17 13 18.7	16.4 R 684	1997 BH ₂	1997 01 30.16016	02 36 15.87	+16 04 59.5	684
1994 EC ₁	1997 02 02.25786	05 41 47.93	+17 13 19.7	684	1997 BP ₅	* 1997 01 31.23119	10 17 01.13	+10 40 46.1	18.0 R 684
1994 EC ₁	1997 02 02.26064	05 41 47.90	+17 13 20.6	684	1997 BP ₅	1997 01 31.24649	10 17 00.37	+10 40 51.9	684
1996 XC	1997 01 28.17713	04 25 20.76	+19 59 31.0	684	1997 BP ₅	1997 01 31.26485	10 16 59.45	+10 40 58.9	684
1996 XC	1997 01 28.20512	04 25 20.70	+19 59 34.7	19.1 R 684	1997 BP ₅	1997 02 01.26718	10 16 10.55	+10 47 22.0	18.2 R 684
1996 XD ₂₀	1997 01 28.19563	04 35 30.94	+20 31 03.8	684	1997 BP ₅	1997 02 01.31152	10 16 08.25	+10 47 39.5	684
1996 XD ₂₀	1997 01 28.21353	04 35 31.20	+20 31 07.5	19.3 R 684	1997 BP ₅	1997 02 01.44405	10 16 01.37	+10 48 30.5	684
1996 XD ₂₀	1997 02 08.23285	04 40 28.37	+21 18 02.9	684	1997 BP ₅	1997 02 16.31056	10 02 13.28	+12 31 01.8	684
1996 XD ₂₀	1997 02 08.24036	04 40 28.67	+21 18 04.6	684	1997 BP ₅	1997 02 16.31462	10 02 13.03	+12 31 03.5	17.4 R 684
1996 XD ₂₀	1997 02 08.24743	04 40 28.89	+21 18 06.4	19.0 R 684	1997 BP ₅	1997 02 16.31846	10 02 12.80	+12 31 05.2	684
1996 XH ₂₆	1997 01 31.20620	07 13 47.24	+21 19 52.2	17.7 R 684	1997 BQ ₅	* 1997 01 31.23119	10 17 01.60	+10 36 23.7	18.4 R 684
1996 XH ₂₆	1997 01 31.21167	07 13 46.97	+21 19 52.5	684	1997 BQ ₅	1997 01 31.24649	10 17 00.84	+10 36 31.3	684
1996 XH ₂₆	1997 01 31.21554	07 13 46.79	+21 19 52.5	684	1997 BQ ₅	1997 01 31.26485	10 16 59.87	+10 36 40.4	684
1996 YT ₂	1997 01 30.19473	04 39 38.11	+18 35 01.9	19.0 R 684	1997 BQ ₅	1997 02 01.26718	10 16 08.53	+10 44 43.4	18.7 R 684
1996 YT ₂	1997 01 30.21216	04 39 38.50	+18 35 04.2	684	1997 BQ ₅	1997 02 01.31152	10 16 06.10	+10 45 05.6	684
1996 YT ₂	1997 02 08.26054	04 44 31.74	+18 57 34.7	18.8 R 684	1997 BQ ₅	1997 02 01.44405	10 15 58.97	+10 46 09.5	684
1996 YT ₂	1997 02 08.27915	04 44 32.46	+18 57 37.4	684	1997 BR ₅	* 1997 01 31.23968	10 16 52.95	+10 54 47.6	18.6 R 684
1997 AA	1997 01 30.22313	06 36 55.53	+24 30 03.0	17.5 R 684	1997 BR ₅	1997 01 31.25831	10 16 52.16	+10 54 56.9	684
1997 AA	1997 01 30.22715	06 36 55.37	+24 30 03.3	684	1997 BR ₅	1997 02 01.26089	10 16 10.48	+11 03 31.7	684
1997 AA	1997 01 30.23078	06 36 55.25	+24 30 03.5	684	1997 BR ₅	1997 02 01.27286	10 16 10.11	+11 03 37.1	18.8 R 684
1997 AA	1997 02 10.27353	06 31 50.02	+24 41 03.7	17.5 R 684	1997 BR ₅	1997 02 01.43655	10 16 02.70	+11 05 02.6	684
1997 AA	1997 02 10.27781	06 31 49.92	+24 41 03.8	684	1997 BR ₅	1997 02 02.27726	10 15 26.96	+11 12 21.5	18.8 R 684
1997 AA	1997 02 10.28215	06 31 49.85	+24 41 04.0	684	1997 BR ₅	1997 02 02.28203	10 15 26.72	+11 12 24.1	684
1997 AB ₂	1997 02 02.26606	07 59 42.73	+28 35 35.4	17.4 R 684	1997 BR ₅	1997 02 02.28655	10 15 26.52	+11 12 26.1	684
1997 AB ₂	1997 02 02.26838	07 59 42.57	+28 35 36.5	684	1997 BS ₅	* 1997 01 31.28155	10 17 52.20	+10 59 33.2	18.4 R 684
1997 AB ₂	1997 02 02.27115	07 59 42.41	+28 35 37.5	684	1997 BS ₅	1997 01 31.29865	10 17 51.56	+10 59 43.1	684
1997 AL ₆	1997 01 28.22347	06 31 54.54	+21 55 58.6	F 684	1997 BS ₅	1997 02 01.40831	10 17 10.81	+11 10 32.8	18.6 R 684
1997 AL ₆	1997 01 28.23104	06 31 54.04	+21 55 54.4	F 684	1997 BS ₅	1997 02 01.41468	10 17 10.58	+11 10 36.7	684
1997 AL ₆	1997 01 28.23794	06 31 53.78	+21 55 52.6	F 684	1997 BT ₅	* 1997 01 31.28155	10 18 48.49	+10 49 00.2	18.9 R 684
1997 AL ₆	1997 02 08.30023	06 25 13.53	+20 37 10.3	684	1997 BT ₅	1997 01 31.29865	10 18 47.73	+10 49 04.1	E 684
1997 AL ₆	1997 02 10.28978	06 24 27.22	+20 23 52.7	18.6 R 684	1997 BT ₅	1997 02 01.42147	10 17 59.28	+10 53 08.2	F 684
1997 AL ₆	1997 02 10.29652	06 24 27.05	+20 23 50.0	684	1997 BT ₅	1997 02 01.42741	10 17 59.07	+10 53 09.3	F 684
1997 AL ₆	1997 02 10.30321	06 24 26.91	+20 23 47.1	684	1997 BT ₅	1997 02 06.32160	10 14 15.30	+11 11 58.3	684
1997 AN ₁₂	1997 01 28.15141	03 53 59.56	+12 35 23.8	684	1997 BT ₅	1997 02 06.32632	10 14 15.08	+11 11 59.4	19.1 R 684
1997 AN ₁₂	1997 01 28.18633	03 54 00.27	+12 35 29.2	18.9 R 684	1997 BT ₅	1997 02 06.33054	10 14 14.84	+11 12 00.6	684
1997 AN ₁₂	1997 01 30.18198	03 54 47.51	+12 40 45.5	18.6 R 684	1997 BT ₅	1997 02 07.30698	10 13 27.99	+11 15 56.1	684
1997 AN ₁₂	1997 01 30.20323	03 54 48.01	+12 40 49.2	684	1997 BT ₅	1997 02 07.31983	10 13 27.35	+11 15 59.2	19.0 R 684
1997 BO	1997 01 31.23119	10 16 37.11	+10 39 55.8	18.7 R 684	1997 BU ₅	* 1997 01 31.29314	10 18 26.95	+10 32 41.1	E 684
1997 BO	1997 01 31.26485	10 16 35.53	+10 40 02.3	684	1997 BU ₅	1997 01 31.30862	10 18 26.18	+10 32 45.1	17.6 R 684
1997 BO	1997 02 01.26718	10 15 46.67	+10 43 02.4	18.9 R 684	1997 BU ₅	1997 02 01.31793	10 17 37.40	+10 37 00.3	684
1997 BO	1997 02 01.31152	10 15 44.50	+10 43 10.8	684	1997 BU ₅	1997 02 01.39252	10 17 33.51	+10 37 19.8	684
1997 BO	1997 02 01.44405	10 15 37.74	+10 43 34.4	684	1997 BU ₅	1997 02 01.39957	10 17 33.19	+10 37 21.2	684
1997 BO	1997 02 10.32372	10 07 45.66	+11 13 00.2	18.8 R 684	1997 BU ₅	1997 02 02.29330	10 16 48.91	+10 41 13.5	17.7 R 684

1997 BU ₅	1997 02 02.29794	10 16 48.68	+10 41 14.7		684	1997 CO ₄	1997 02 06.33993	10 15 57.25	+11 02 48.7		684
1997 BU ₅	1997 02 02.30241	10 16 48.44	+10 41 16.0		684	1997 CO ₄	1997 02 06.34919	10 15 56.70	+11 02 50.1		684
1997 BU ₅	1997 02 12.42762	10 07 18.33	+11 30 20.9	17.2 R	684	1997 CO ₄	1997 02 07.31329	10 15 02.50	+11 05 24.2	18.1 R	684
1997 BU ₅	1997 02 12.43708	10 07 17.74	+11 30 23.8		684	1997 CO ₄	1997 02 07.32564	10 15 01.77	+11 05 26.2		684
1997 BV ₅	* 1997 01 31.29314	10 18 49.96	+10 31 55.2		I 684	1997 CO ₄	1997 02 14.32418	10 08 07.85	+11 25 16.7		684
1997 BV ₅	1997 01 31.30862	10 18 49.25	+10 31 58.4	17.8 R	E 684	1997 CO ₄	1997 02 14.32947	10 08 07.51	+11 25 17.6	17.7 R	684
1997 BV ₅	1997 02 01.31793	10 18 03.16	+10 36 23.9		684	1997 CO ₄	1997 02 14.33375	10 08 07.25	+11 25 18.3		684
1997 BV ₅	1997 02 01.39252	10 17 59.49	+10 36 44.0		684	1997 CO ₄	1997 02 15.32209	10 07 07.02	+11 28 11.7		684
1997 BV ₅	1997 02 01.39957	10 17 59.19	+10 36 45.6		684	1997 CO ₄	1997 02 15.33038	10 07 06.49	+11 28 13.2		I 684
1997 BV ₅	1997 02 02.29330	10 17 17.51	+10 40 45.6	17.9 R	684	1997 CO ₄	1997 02 15.34358	10 07 05.66	+11 28 15.5	17.7 R	684
1997 BV ₅	1997 02 02.29794	10 17 17.29	+10 40 47.0		684	1997 CP ₄	* 1997 02 04.35743	10 17 26.25	+10 39 48.5		684
1997 BV ₅	1997 02 02.30241	10 17 17.05	+10 40 48.3		684	1997 CP ₄	1997 02 04.37819	10 17 24.91	+10 39 48.9	18.6 R	684
1997 BV ₅	1997 02 12.43226	10 08 30.87	+11 30 16.0	17.5 R	684	1997 CP ₄	1997 02 06.35598	10 15 22.22	+10 40 40.5		684
1997 BV ₅	1997 02 12.44262	10 08 30.28	+11 30 19.2		684	1997 CP ₄	1997 02 06.36131	10 15 21.91	+10 40 41.3		684
1997 BW ₅	* 1997 01 31.23968	10 16 33.59	+10 52 49.3	18.9 R	684	1997 CP ₄	1997 02 06.36795	10 15 21.46	+10 40 41.7	18.3 R	684
1997 BW ₅	1997 01 31.25831	10 16 32.58	+10 52 53.2		684	1997 CP ₄	1997 02 07.33167	10 14 20.22	+10 41 13.0	18.7 R	684
1997 BW ₅	1997 02 01.43655	10 15 29.37	+10 56 50.7		684	1997 CP ₄	1997 02 07.33807	10 14 19.78	+10 41 13.2		684
1997 BW ₅	1997 02 02.27726	10 14 43.79	+10 59 46.2	18.5 R	684	1997 CP ₄	1997 02 16.33271	10 04 17.03	+10 47 57.5	18.8 R	684
1997 BW ₅	1997 02 02.28203	10 14 43.51	+10 59 47.0		684	1997 CP ₄	1997 02 16.34119	10 04 16.46	+10 47 58.5		684
1997 BW ₅	1997 02 02.28655	10 14 43.27	+10 59 48.1		684	1997 CP ₅	* 1997 02 06.32160	10 14 25.59	+11 08 24.1		684
1997 CM	* 1997 02 01.26089	10 15 40.12	+11 05 18.6		684	1997 CP ₅	1997 02 06.32632	10 14 25.29	+11 08 26.5	19.5 R	684
1997 CM	1997 02 01.27286	10 15 39.54	+11 05 18.6	16.8 R	684	1997 CP ₅	1997 02 06.33054	10 14 25.09	+11 08 28.7		684
1997 CM	1997 02 01.43655	10 15 31.32	+11 05 19.5		684	1997 CP ₅	1997 02 07.30698	10 13 31.86	+11 16 11.7	19.2 R	684
1997 CM	1997 02 02.27726	10 14 50.35	+11 05 25.4	17.1 R	684	1997 CP ₅	1997 02 07.31983	10 13 31.18	+11 16 17.9		684
1997 CM	1997 02 02.28203	10 14 50.11	+11 05 25.5		684	1997 CQ ₅	* 1997 02 06.33579	10 16 34.09	+11 02 41.9	19.0 R	E 684
1997 CM	1997 02 02.28655	10 14 49.88	+11 05 25.5		684	1997 CQ ₅	1997 02 06.33993	10 16 33.91	+11 02 43.7		E 684
1997 CM	1997 02 10.32372	10 07 48.51	+11 07 54.0	16.5 R	684	1997 CQ ₅	1997 02 06.34919	10 16 33.38	+11 02 47.2		E 684
1997 CM	1997 02 10.33105	10 07 48.09	+11 07 54.2		684	1997 CQ ₅	1997 02 07.31329	10 15 44.67	+11 09 00.0	19.3 R	684
1997 CM	1997 02 10.34079	10 07 47.55	+11 07 54.6		684	1997 CQ ₅	1997 02 07.32564	10 15 44.00	+11 09 04.5		684
1997 CM	1997 02 16.32345	10 02 14.70	+11 10 46.5	16.4 R	684	1997 CR ₅	* 1997 02 06.35598	10 14 54.79	+10 43 25.9		684
1997 CM	1997 02 16.32595	10 02 14.57	+11 10 46.5		684	1997 CR ₅	1997 02 06.36131	10 14 54.52	+10 43 26.9		684
1997 CM	1997 02 16.32829	10 02 14.42	+11 10 46.6		684	1997 CR ₅	1997 02 06.36795	10 14 54.21	+10 43 29.2	18.7 R	684
1997 CZ ₁	1997 02 04.36312	10 17 26.78	+10 26 45.5	17.5 R	E 684	1997 CR ₅	1997 02 07.33167	10 14 10.53	+10 48 28.8	18.4 R	684
1997 CZ ₁	1997 02 04.38270	10 17 25.64	+10 26 42.0		E 684	1997 CR ₅	1997 02 07.33807	10 14 10.24	+10 48 30.6		684
1997 CZ ₁	1997 02 06.37420	10 15 30.68	+10 20 53.8	17.4 R	684	1997 CR ₅	1997 02 14.32418	10 08 39.36	+11 25 45.3		684
1997 CZ ₁	1997 02 06.37837	10 15 30.42	+10 20 53.0		684	1997 CR ₅	1997 02 14.32947	10 08 39.09	+11 25 47.1	17.9 R	684
1997 CZ ₁	1997 02 06.38294	10 15 30.14	+10 20 52.3		684	1997 CR ₅	1997 02 14.33375	10 08 38.87	+11 25 48.4		684
1997 CZ ₁	1997 02 07.34425	10 14 32.80	+10 18 07.8		684	1997 CR ₅	1997 02 15.32209	10 07 50.82	+11 31 09.2		684
1997 CZ ₁	1997 02 07.34899	10 14 32.50	+10 18 07.1	17.3 R	684	1997 CR ₅	1997 02 15.33038	10 07 50.39	+11 31 12.2	17.8 R	684
1997 CZ ₁	1997 02 07.35310	10 14 32.23	+10 18 06.3		684	1997 CS ₅	* 1997 02 06.37420	10 15 40.92	+10 20 15.1	19.3 R	684
1997 CN ₄	* 1997 02 04.30946	10 16 01.51	+11 00 43.2	18.3 R	684	1997 CS ₅	1997 02 06.37837	10 15 40.71	+10 20 16.4		684
1997 CN ₄	1997 02 06.32160	10 14 26.36	+11 08 46.6		684	1997 CS ₅	1997 02 06.38294	10 15 40.47	+10 20 18.4		684
1997 CN ₄	1997 02 06.32632	10 14 26.12	+11 08 47.7	17.9 R	684	1997 CS ₅	1997 02 07.34425	10 14 52.74	+10 26 36.4		684
1997 CN ₄	1997 02 06.33054	10 14 25.91	+11 08 48.8		684	1997 CS ₅	1997 02 07.34899	10 14 52.54	+10 26 38.4	19.3 R	684
1997 CN ₄	1997 02 07.30698	10 13 38.77	+11 12 48.1		684	1997 CS ₅	1997 02 07.35310	10 14 52.27	+10 26 40.0		684
1997 CN ₄	1997 02 07.31983	10 13 38.12	+11 12 51.4	18.3 R	684	1997 CL ₁₉	* 1997 02 10.32372	10 08 14.23	+11 15 05.9	19.3 R	684
1997 CN ₄	1997 02 13.37931	10 08 33.56	+11 38 23.0	18.0 R	684	1997 CL ₁₉	1997 02 10.33105	10 08 13.74	+11 15 08.5		684
1997 CN ₄	1997 02 13.38471	10 08 33.26	+11 38 24.2		684	1997 CL ₁₉	1997 02 10.34079	10 08 13.19	+11 15 13.0		684
1997 CN ₄	1997 02 13.38955	10 08 32.99	+11 38 26.0		684	1997 CL ₁₉	1997 02 12.40617	10 06 14.31	+11 31 43.1	19.3 R	684
1997 CO ₄	* 1997 02 04.35199	10 17 46.28	+10 57 42.0		684	1997 CL ₁₉	1997 02 12.41354	10 06 13.93	+11 31 46.8		684
1997 CO ₄	1997 02 04.37134	10 17 45.21	+10 57 45.0	18.4 R	684	1997 CL ₁₉	1997 02 12.42064	10 06 13.42	+11 31 50.0		684
1997 CO ₄	1997 02 06.33579	10 15 57.49	+11 02 48.2	18.2 R	684	1997 CM ₁₉	* 1997 02 10.35159	12 25 10.46	+17 53 28.8	18.5 R	684

1997 CM ₁₉	1997 02 10.37164	12 25 10.07	+17 53 37.8		684
1997 CM ₁₉	1997 02 12.45082	12 24 28.86	+18 09 22.1	18.7 R	684
1997 CM ₁₉	1997 02 12.46630	12 24 28.51	+18 09 29.0		684
1997 CM ₁₉	1997 02 14.38773	12 23 45.02	+18 24 14.4	18.5 R	684
1997 CM ₁₉	1997 02 14.40256	12 23 44.62	+18 24 21.3		684
1997 CM ₁₉	1997 02 14.40880	12 23 44.46	+18 24 24.3		684
1997 CN ₁₉	* 1997 02 10.38613	12 24 34.23	+18 07 26.9	19.5 R	684
1997 CN ₁₉	1997 02 10.39215	12 24 34.12	+18 07 30.2		684
1997 CN ₁₉	1997 02 12.45920	12 23 56.92	+18 27 47.6	19.4 R	684
1997 CN ₁₉	1997 02 12.47330	12 23 56.60	+18 27 56.4		684
1997 CN ₁₉	1997 02 12.48625	12 23 56.32	+18 28 04.1		684
1997 CO ₂₀	* 1997 02 12.47981	12 21 37.11	+18 35 43.9	19.4 R	684
1997 CO ₂₀	1997 02 12.49286	12 21 36.85	+18 35 51.2		684
1997 CO ₂₀	1997 02 13.42085	12 21 20.77	+18 45 44.6	F	684
1997 CO ₂₀	1997 02 13.42683	12 21 20.71	+18 45 49.3	F	684
1997 CP ₂₀	* 1997 02 12.47981	12 21 47.98	+18 30 58.7	19.0 R	684
1997 CP ₂₀	1997 02 12.49286	12 21 47.80	+18 31 08.5		684
1997 CP ₂₀	1997 02 13.42085	12 21 36.37	+18 42 51.8	19.2 R	684
1997 CP ₂₀	1997 02 13.42683	12 21 36.30	+18 42 57.2		684
1997 CF ₂₂	* 1997 02 13.39815	10 52 11.23	+06 43 51.1	17.6 R	684
1997 CF ₂₂	1997 02 13.40887	10 52 10.76	+06 43 54.8		684
1997 CF ₂₂	1997 02 14.33991	10 51 31.26	+06 49 42.3	17.6 R	684
1997 CF ₂₂	1997 02 14.34478	10 51 31.04	+06 49 44.1		684
1997 CF ₂₂	1997 02 14.34887	10 51 30.87	+06 49 45.7		684
1997 CF ₂₂	1997 02 15.35479	10 50 47.33	+06 56 05.3	17.6 R	684
1997 CF ₂₂	1997 02 15.35929	10 50 47.12	+06 56 07.0		684
1997 CF ₂₂	1997 02 15.37475	10 50 46.42	+06 56 12.9		684
1997 CG ₂₂	* 1997 02 13.44666	10 53 13.05	+06 38 10.1	18.6 R	684
1997 CG ₂₂	1997 02 13.45944	10 53 12.48	+06 38 12.4		684
1997 CG ₂₂	1997 02 14.35624	10 52 36.24	+06 42 04.8	18.7 R	684
1997 CG ₂₂	1997 02 14.36059	10 52 36.09	+06 42 05.7		684
1997 CG ₂₂	1997 02 14.36497	10 52 35.88	+06 42 07.0		684
1997 CH ₂₂	* 1997 02 13.45192	10 53 43.90	+06 21 49.3	18.7 R	684
1997 CH ₂₂	1997 02 13.46496	10 53 43.26	+06 21 52.0		684
1997 CH ₂₂	1997 02 14.37068	10 52 59.77	+06 24 20.2	18.8 R	684
1997 CH ₂₂	1997 02 14.37583	10 52 59.51	+06 24 21.3		684
1997 CH ₂₂	1997 02 14.38029	10 52 59.28	+06 24 22.1		684
1997 CK ₂₂	* 1997 02 14.32418	10 09 05.54	+11 22 02.5		684
1997 CK ₂₂	1997 02 14.32947	10 09 05.29	+11 22 06.1	16.8 R	684
1997 CK ₂₂	1997 02 14.33375	10 09 05.08	+11 22 09.1		684
1997 CK ₂₂	1997 02 15.33427	10 08 18.64	+11 33 33.1	16.8 R	684
1997 CK ₂₂	1997 02 15.33841	10 08 18.45	+11 33 36.0		684
1997 CK ₂₂	1997 02 15.34818	10 08 17.97	+11 33 42.7		684
1997 CK ₂₂	1997 02 16.34751	10 07 31.34	+11 45 06.7	16.8 R	684
1997 CK ₂₂	1997 02 16.35093	10 07 31.18	+11 45 09.1		684
1997 CK ₂₂	1997 02 16.35421	10 07 31.02	+11 45 11.2		684
1997 CL ₂₂	* 1997 02 14.37068	10 52 13.55	+06 31 24.8	16.3 R	E 684
1997 CL ₂₂	1997 02 14.37583	10 52 13.29	+06 31 26.3		E 684
1997 CL ₂₂	1997 02 14.38029	10 52 13.06	+06 31 27.5		E 684
1997 CL ₂₂	1997 02 15.36397	10 51 25.35	+06 36 08.2	16.3 R	684
1997 CL ₂₂	1997 02 15.37010	10 51 25.03	+06 36 10.0		684
1997 CL ₂₂	1997 02 15.37931	10 51 24.55	+06 36 12.6		684

1997 CL ₂₂	1997 02 16.35943	10 50 35.88	+06 40 59.0	16.8 R	684
1997 CL ₂₂	1997 02 16.36214	10 50 35.74	+06 41 00.0		684
1997 CL ₂₂	1997 02 16.36498	10 50 35.58	+06 41 00.7		684

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Measurer J. V. Scotti

0.91-m Spacewatch telescope + CCD

GSC

1976 DA ₁	1997 02 02.47527	11 53 28.83	+04 12 23.5	17.8 V	691
1976 DA ₁	1997 02 02.49010	11 53 28.81	+04 12 27.3	17.8 V	691
1976 DA ₁	1997 02 02.50515	11 53 28.78	+04 12 31.3	17.8 V	691
1976 UG ₂	1997 02 06.32833	10 23 06.77	+09 58 52.9	18.3 V	691
1976 UG ₂	1997 02 06.34972	10 23 05.60	+09 58 58.7	18.3 V	691
1976 UG ₂	1997 02 06.37108	10 23 04.44	+09 59 04.5	18.4 V	691
1978 NS	1997 02 03.37627	10 28 00.36	+10 15 14.0	20.4 V	691
1978 NS	1997 02 03.39764	10 27 59.53	+10 15 19.1	20.6 V	691
1978 NS	1997 02 03.41883	10 27 58.66	+10 15 24.4	20.2 V	691
1978 NS	1997 02 07.41417	10 25 12.26	+10 31 47.7	20.1 V	691
1978 NS	1997 02 07.43561	10 25 11.30	+10 31 53.0	20.2 V	691
1978 NS	1997 02 07.45691	10 25 10.38	+10 31 58.3	19.9 V	691
1978 NS	1997 02 13.32307	10 20 51.45	+10 57 05.9	19.7 V	691
1978 NS	1997 02 13.35393	10 20 50.01	+10 57 14.6	20.0 V	691
1978 NS	1997 02 13.37539	10 20 49.02	+10 57 20.4	20.0 V	691
1979 QR ₁	1997 02 01.44829	10 26 12.83	+10 39 01.5	18.3 V	691
1979 QR ₁	1997 02 01.46993	10 26 11.95	+10 39 06.3	18.6 V	691
1979 QR ₁	1997 02 01.50812	10 26 10.34	+10 39 14.4	18.1 V	691
1979 QR ₁	1997 02 11.40545	10 18 42.95	+11 18 09.5	17.6 V	691
1979 QR ₁	1997 02 11.42707	10 18 41.91	+11 18 13.8	17.9 V	691
1979 QR ₁	1997 02 11.45277	10 18 40.62	+11 18 20.1	17.9 V	691
1981 EF ₁₄	1997 02 04.10323	03 43 04.21	+20 03 59.5	20.3 V	691
1981 EF ₁₄	1997 02 04.12569	03 43 04.99	+20 04 01.2	21.0 V	691
1981 EF ₁₄	1997 02 04.14801	03 43 05.83	+20 04 02.8	20.4 V	691
1981 EW ₂₀	1997 02 06.22379	08 16 14.56	+20 57 03.5	19.4 V	691
1981 EW ₂₀	1997 02 06.24703	08 16 13.46	+20 57 07.1	19.5 V	691
1981 EW ₂₀	1997 02 06.26965	08 16 12.38	+20 57 09.6	19.2 V	691
1981 EB ₂₇	1997 01 31.37204	09 26 49.59	+12 35 14.2	18.4 V	691
1981 EB ₂₇	1997 01 31.39511	09 26 48.31	+12 35 22.2	18.4 V	691
1981 EB ₂₇	1997 01 31.41700	09 26 47.08	+12 35 29.7	18.6 V	691
1981 EB ₂₇	1997 02 02.29947	09 25 05.82	+12 46 22.5	18.4 V	691
1981 EB ₂₇	1997 02 02.36620	09 25 02.03	+12 46 45.9	18.6 V	691
1981 EB ₂₇	1997 02 02.39858	09 25 00.20	+12 46 57.0	18.5 V	691
1981 EB ₂₇	1997 02 03.33796	09 24 09.06	+12 52 27.0	18.6 V	691
1981 EB ₂₇	1997 02 03.34919	09 24 08.43	+12 52 30.8	18.5 V	691
1981 EB ₂₇	1997 02 03.36038	09 24 07.78	+12 52 34.9	18.6 V	691
1981 EB ₂₇	1997 02 11.32019	09 16 48.54	+13 40 00.8	18.5 V	691
1981 EB ₂₇	1997 02 11.38693	09 16 44.73	+13 40 24.7	18.6 V	691
1981 EG ₃₉	1997 02 03.25495	09 06 55.41	+20 51 55.0	19.5 V	691
1981 EG ₃₉	1997 02 03.27622	09 06 54.33	+20 51 58.9	19.4 V	691
1981 EG ₃₉	1997 02 03.29732	09 06 53.24	+20 52 02.7	19.3 V	691
1981 EA ₄₀	1997 02 07.25164	08 06 43.96	+19 40 22.7	19.9 V	691

1981 EA ₄₀	1997 02 07.27441	08 06 42.95	+19 40 26.7	20.0 V	691	1989 KE	1997 02 02.50726	11 56 31.17	+04 26 54.2	18.3 V	691
1981 EA ₄₀	1997 02 07.29679	08 06 41.96	+19 40 30.1	20.3 V	691	1989 SF	1997 02 01.44450	10 20 45.32	+10 34 03.0	15.3 V	691
1983 CA ₁	1997 02 07.42174	10 36 07.59	+10 51 12.3	16.1 V	691	1989 SF	1997 02 01.46614	10 20 43.95	+10 34 08.9	16.3 V	691
1983 CA ₁	1997 02 07.44317	10 36 06.49	+10 51 13.4	16.1 V	691	1989 SF	1997 02 01.50432	10 20 41.71	+10 34 15.6	16.3 V	691
1983 CA ₁	1997 02 07.46448	10 36 05.43	+10 51 14.6	16.1 V	691	1990 RK ₇	1997 02 07.19951	08 29 23.78	+20 29 21.6	17.2 V	691
1983 CA ₁	1997 02 13.33011	10 31 01.44	+10 58 03.5	16.3 V	691	1990 RK ₇	1997 02 07.22173	08 29 22.62	+20 29 26.2	17.3 V	691
1983 CA ₁	1997 02 13.36097	10 30 59.69	+10 58 05.9	16.0 V	691	1990 RK ₇	1997 02 07.24394	08 29 21.46	+20 29 31.0	17.2 V	691
1983 CA ₁	1997 02 13.38243	10 30 58.48	+10 58 07.6	16.0 V	691	1990 RK ₇	1997 02 14.12533	08 23 59.00	+20 52 18.1	17.5 V	691
1984 DE ₁	1997 02 03.08963	03 21 11.25	+20 24 52.3	18.4 V	691	1990 RK ₇	1997 02 14.14816	08 23 57.99	+20 52 22.6	17.3 V	691
1984 DE ₁	1997 02 03.11219	03 21 11.65	+20 24 53.8	18.4 V	691	1990 RK ₇	1997 02 14.17093	08 23 56.97	+20 52 26.7	17.3 V	691
1984 DE ₁	1997 02 03.13452	03 21 12.04	+20 24 54.7	18.5 V	691	1990 SE ₁₁	1997 02 01.14001	08 21 54.86	+20 57 06.1	17.5 V	691
1984 DE ₁	1997 02 10.10838	03 23 39.24	+20 30 27.5	18.7 V	691	1990 SE ₁₁	1997 02 01.16224	08 21 53.58	+20 57 07.7	17.5 V	691
1984 DE ₁	1997 02 10.13109	03 23 39.79	+20 30 28.8	18.7 V	691	1990 SE ₁₁	1997 02 01.18440	08 21 52.31	+20 57 08.9	17.5 V	691
1984 DE ₁	1997 02 10.15344	03 23 40.34	+20 30 30.2	18.5 V	691	1990 SE ₁₁	1997 02 06.22447	08 17 13.50	+21 01 32.0	17.9 V	691
1984 MR	1997 02 10.46777	10 31 34.79	+09 53 16.2	17.5 V	691	1990 SE ₁₁	1997 02 06.24771	08 17 12.24	+21 01 33.2	17.7 V	691
1984 MR	1997 02 10.48940	10 31 33.64	+09 53 26.6	17.2 V	691	1990 SE ₁₁	1997 02 06.27032	08 17 10.96	+21 01 34.2	17.7 V	691
1984 MR	1997 02 10.51187	10 31 32.45	+09 53 37.4	17.2 V	691	1990 TO ₃	1997 02 11.31897	09 15 02.93	+14 00 38.9	17.5 V	691
1984 TD	1997 02 06.13550	03 37 34.77	+19 27 45.2	18.9 V	691	1990 TO ₃	1997 02 11.38571	09 14 59.37	+14 00 55.2	17.6 V	691
1984 TD	1997 02 06.15843	03 37 35.72	+19 27 48.3	19.2 V	691	1990 TP ₇	1997 02 01.14539	08 29 40.17	+21 01 01.2	17.7 V	691
1984 TD	1997 02 06.18139	03 37 36.69	+19 27 51.6	19.0 V	691	1990 TP ₇	1997 02 01.16761	08 29 38.98	+21 01 04.6	18.1 V	691
1987 DP ₆	1997 01 31.23454	09 21 42.11	+13 56 53.8	16.8 V	691	1990 TP ₇	1997 02 01.18977	08 29 37.77	+21 01 08.2	17.7 V	691
1987 DP ₆	1997 01 31.25614	09 21 41.06	+13 57 01.5	16.7 V	691	1990 UT ₁₀	1997 02 03.15891	08 08 52.46	+19 37 15.1	17.4 V	691
1987 DP ₆	1997 01 31.27754	09 21 40.00	+13 57 09.3	16.5 V	691	1990 UT ₁₀	1997 02 03.18096	08 08 51.35	+19 37 19.6	17.3 V	691
1987 RQ ₂	1997 02 06.29882	09 11 43.10	+20 50 47.6	19.0 V	691	1990 UT ₁₀	1997 02 03.20302	08 08 50.23	+19 37 23.5	17.5 V	691
1987 RQ ₂	1997 02 06.30650	09 11 42.62	+20 50 49.9	18.9 V	691	1990 UT ₁₀	1997 02 07.25088	08 05 38.78	+19 49 05.9	17.8 V	691
1987 RQ ₂	1997 02 06.31456	09 11 42.10	+20 50 52.0	18.8 V	691	1990 UT ₁₀	1997 02 07.27366	08 05 37.65	+19 49 11.5	17.3 V	691
1987 RQ ₂	1997 02 10.29872	09 07 43.33	+21 07 44.9	18.7 V	691	1990 UT ₁₀	1997 02 07.29603	08 05 36.77	+19 49 14.3	17.2 V	691
1987 RQ ₂	1997 02 10.30450	09 07 42.97	+21 07 46.3	18.8 V	691	1990 VQ ₆	1997 02 03.25581	09 08 10.25	+20 42 51.4	17.2 V	691
1987 RQ ₂	1997 02 10.31112	09 07 42.60	+21 07 48.0	19.0 V	691	1990 VQ ₆	1997 02 03.27708	09 08 09.16	+20 42 59.7	17.2 V	691
1988 PG ₂	1997 02 03.37977	10 33 03.61	+10 25 22.8	18.9 V	691	1990 VQ ₆	1997 02 03.29819	09 08 08.08	+20 43 07.8	17.3 V	691
1988 PG ₂	1997 02 03.40113	10 33 02.51	+10 25 30.7	18.9 V	691	1991 LY	1993 11 20.40900	09 06 41.47	+16 07 06.4		691
1988 PG ₂	1997 02 03.42233	10 33 01.38	+10 25 38.8	19.0 V	691	1991 LY	1993 11 20.44246	09 06 42.14	+16 07 10.0	18.8 V	691
1988 PG ₂	1997 02 07.41714	10 29 29.56	+10 52 02.4	18.9 V	691	1991 LY	1993 11 20.47583	09 06 42.86	+16 07 12.2		691
1988 PG ₂	1997 02 07.43857	10 29 28.36	+10 52 11.0	19.0 V	691	1991 PG ₁₅	1997 01 31.43836	10 30 37.81	+11 13 32.6	19.0 V	691
1988 PG ₂	1997 02 07.45988	10 29 27.13	+10 52 19.7	19.0 V	691	1991 PG ₁₅	1997 01 31.45962	10 30 36.82	+11 13 38.9	19.1 V	691
1988 PG ₂	1997 02 11.41032	10 25 44.08	+11 19 21.7	19.1 V	691	1991 PG ₁₅	1997 01 31.48089	10 30 35.80	+11 13 45.4	19.0 V	691
1988 PG ₂	1997 02 11.43193	10 25 42.74	+11 19 29.6	19.4 V	691	1991 PG ₁₇	1997 02 01.13405	08 13 18.53	+20 54 17.4	17.1 V	691
1988 PG ₂	1997 02 11.45762	10 25 41.22	+11 19 40.2	19.4 V	691	1991 PG ₁₇	1997 02 01.15627	08 13 16.93	+20 54 16.5	17.1 V	691
1988 PO ₂	1997 01 31.22912	09 13 52.27	+13 42 26.6	18.3 V	691	1991 PG ₁₇	1997 02 01.17843	08 13 15.32	+20 54 15.4	17.2 V	691
1988 PO ₂	1997 01 31.25072	09 13 50.92	+13 42 35.1	18.3 V	691	1991 RH ₇	1997 02 07.09819	03 37 08.79	+18 49 37.2	20.1 V	691
1988 PO ₂	1997 01 31.27211	09 13 49.61	+13 42 43.9	18.3 V	691	1991 RH ₇	1997 02 07.12152	03 37 09.46	+18 49 37.9	20.0 V	691
1988 RV ₁	1997 02 02.23473	09 30 40.69	+21 58 08.8	17.0 V	691	1991 RH ₇	1997 02 07.14480	03 37 10.12	+18 49 39.0	20.1 V	691
1988 RV ₁	1997 02 02.25706	09 30 39.17	+21 58 14.1	17.0 V	691	1991 UL ₄	1997 02 01.20881	09 22 05.39	+22 23 14.4	18.5 V	691
1988 RV ₁	1997 02 02.27944	09 30 37.63	+21 58 19.1	17.0 V	691	1991 UL ₄	1997 02 01.23168	09 22 04.08	+22 23 22.3	18.6 V	691
1988 RV ₁₁	1997 02 15.12279	08 36 09.89	+16 03 22.6	18.4 V	691	1991 UL ₄	1997 02 01.25423	09 22 02.70	+22 23 29.3	18.5 V	691
1988 RV ₁₁	1997 02 15.14496	08 36 08.58	+16 03 29.7	18.3 V	691	1991 VU ₄	1997 01 31.43961	10 32 25.66	+11 03 20.5	18.6 V	691
1988 RV ₁₁	1997 02 15.17123	08 36 07.01	+16 03 37.9	18.3 V	691	1991 VU ₄	1997 01 31.46087	10 32 24.74	+11 03 27.7	18.5 V	691
1988 VR ₃	1997 01 31.29532	09 15 01.72	+13 05 14.3	17.6 V	691	1991 VU ₄	1997 01 31.48214	10 32 23.74	+11 03 34.9	18.7 V	691
1988 VR ₃	1997 01 31.31718	09 15 00.34	+13 05 21.4	17.7 V	691	1992 ER ₉	1997 02 03.15602	08 03 58.88	+19 58 00.3	18.0 V	691
1988 VR ₃	1997 01 31.33850	09 14 59.00	+13 05 27.9	17.7 V	691	1992 ER ₉	1997 02 03.17808	08 03 57.79	+19 58 04.5	18.2 V	691
1989 KE	1997 02 02.47738	11 56 31.32	+04 26 41.0	18.2 V	691	1992 ER ₉	1997 02 03.20014	08 03 56.74	+19 58 08.0	18.3 V	691
1989 KE	1997 02 02.49220	11 56 31.26	+04 26 47.5	18.3 V	691	1992 SK ₁₃	1997 02 02.15135	08 09 18.58	+20 28 09.2	18.1 V	691

1992 SK ₁₃	1997 02 02.17404	08 09 17.06	+20 28 11.1	18.1 V	691	1995 SV ₂	1997 01 31.53313	11 47 35.20	+05 16 28.6	18.4 V	691
1992 SK ₁₃	1997 02 02.19651	08 09 15.57	+20 28 13.0	17.9 V	691	1995 UL ₆	1997 02 03.37672	10 28 39.32	+10 17 28.4	19.5 V	691
1992 UP ₄	1997 02 06.48957	12 09 45.26	+05 30 47.4	16.8 V	691	1995 UL ₆	1997 02 03.39808	10 28 38.27	+10 17 33.8	19.5 V	691
1992 UP ₄	1997 02 06.51076	12 09 45.10	+05 30 56.1	16.8 V	691	1995 UL ₆	1997 02 07.41417	10 25 11.80	+10 35 13.7	19.5 V	691
1992 UP ₄	1997 02 06.53208	12 09 44.95	+05 31 04.1	16.9 V	691	1995 UL ₆	1997 02 07.43560	10 25 10.60	+10 35 19.3	19.5 V	691
1992 UP ₈	1997 01 31.23711	09 25 24.75	+13 59 05.3	17.3 V	691	1995 UL ₆	1997 02 07.45690	10 25 09.45	+10 35 25.3	19.6 V	691
1992 UP ₈	1997 01 31.25871	09 25 23.35	+13 59 11.2	17.5 V	691	1995 UA ₇	1997 02 15.28861	09 23 00.31	+21 27 19.7	17.7 V	691
1992 UP ₈	1997 01 31.28010	09 25 21.90	+13 59 16.0	17.6 V	691	1995 UA ₇	1997 02 15.31896	09 22 58.37	+21 27 29.9	17.7 V	691
1992 YC ₂	1997 02 06.12439	03 21 32.94	+19 22 41.1	18.8 V	691	1995 UA ₇	1997 02 15.34840	09 22 56.48	+21 27 39.9	17.7 V	691
1992 YC ₂	1997 02 06.14734	03 21 34.76	+19 22 46.8	19.1 V	691	1995 WE ₁	1997 02 02.23248	09 27 26.10	+21 42 01.0	17.9 V	691
1992 YC ₂	1997 02 06.17031	03 21 36.54	+19 22 52.0	18.9 V	691	1995 WE ₁	1997 02 02.25482	09 27 24.96	+21 42 07.0	17.9 V	691
1993 BN ₄	1997 02 03.52546	11 57 03.04	+03 49 19.8	19.3 V	691	1995 WE ₁	1997 02 02.27720	09 27 23.78	+21 42 13.4	17.9 V	691
1993 BN ₄	1997 02 03.53744	11 57 02.77	+03 49 22.8	19.2 V	691	1995 WM ₅	1997 02 06.33329	10 30 16.29	+09 47 36.2	18.1 V	691
1993 BN ₄	1997 02 03.54941	11 57 02.48	+03 49 25.6	19.0 V	691	1995 WM ₅	1997 02 06.35468	10 30 15.37	+09 47 40.8	18.0 V	691
1993 DT ₁	1997 02 15.18789	08 15 29.52	+15 14 04.2	19.6 V	691	1995 WM ₅	1997 02 06.37605	10 30 14.43	+09 47 46.1	18.2 V	691
1993 DT ₁	1997 02 15.21842	08 15 27.95	+15 14 11.5	19.7 V	691	1995 WM ₅	1997 02 16.35152	10 22 44.78	+10 28 01.7	18.0 V	691
1993 DT ₁	1997 02 15.24026	08 15 26.83	+15 14 16.6	19.6 V	691	1995 WM ₅	1997 02 16.37268	10 22 43.75	+10 28 07.2	17.9 V	691
1993 FT ₁₄	1997 02 06.41628	10 43 20.56	+11 20 01.0	17.0 V	691	1995 WM ₅	1997 02 16.39718	10 22 42.57	+10 28 13.2	18.7 V	691
1993 FT ₁₄	1997 02 06.43806	10 43 19.73	+11 20 12.2	17.0 V	691	1996 AG ₇	1997 02 07.48841	12 07 37.84	+04 58 12.4	20.3 V	691
1993 FT ₁₄	1997 02 06.45947	10 43 18.91	+11 20 22.8	16.9 V	691	1996 AG ₇	1997 02 07.50938	12 07 37.36	+04 58 17.7	20.7 V	691
1993 FN ₂₀	1997 01 31.37585	09 32 18.92	+12 41 43.7	17.9 V	691	1996 AG ₇	1997 02 07.53046	12 07 36.91	+04 58 22.1	20.5 V	691
1993 FN ₂₀	1997 01 31.39892	09 32 17.66	+12 41 49.2	18.0 V	691	1996 BN ₆	1994 12 28.21758	03 37 39.88	+18 53 11.8		691
1993 FN ₂₀	1997 01 31.42080	09 32 16.45	+12 41 53.9	18.2 V	691	1996 BN ₆	1994 12 28.24193	03 37 39.22	+18 53 10.3		691
1993 FN ₂₀	1997 02 03.34176	09 29 38.69	+12 52 57.5	18.0 V	691	1996 BN ₆	1994 12 28.26651	03 37 38.57	+18 53 09.9	18.8 V	691
1993 FN ₂₀	1997 02 03.35300	09 29 38.05	+12 53 00.1	18.1 V	691	1996 HZ ₁	1996 05 12.35968	15 16 20.24	-07 59 06.2		691
1993 FN ₂₀	1997 02 03.36419	09 29 37.43	+12 53 02.6	18.2 V	691	1996 HZ ₁	1996 05 12.38104	15 16 18.89	-07 59 03.5	17.9 V	691
1993 FT ₃₃	1997 02 02.23258	09 27 34.47	+21 59 16.4	17.9 V	691	1996 HZ ₁	1996 05 12.40238	15 16 17.55	-07 59 00.8		691
1993 FT ₃₃	1997 02 02.25491	09 27 33.24	+21 59 22.5	17.5 V	691	1996 SS ₄	1997 02 01.09050	01 50 11.83	+09 23 59.3	20.3 V	691
1993 FT ₃₃	1997 02 02.27730	09 27 31.97	+21 59 28.5	17.6 V	691	1996 SS ₄	1997 02 01.10234	01 50 12.64	+09 24 03.6	20.1 V	691
1994 TX ₁₂	1997 02 03.37419	10 25 00.13	+10 22 43.7	19.1 V	691	1996 SS ₄	1997 02 01.11255	01 50 13.38	+09 24 07.7	20.2 V	691
1994 TX ₁₂	1997 02 03.39556	10 24 59.28	+10 22 48.2	19.2 V	691	1996 TW ₁₀	1997 02 01.09245	01 53 00.63	+09 22 05.1	18.7 V	691
1994 TX ₁₂	1997 02 03.41675	10 24 58.43	+10 22 53.0	19.3 V	691	1996 TW ₁₀	1997 02 01.10429	01 53 01.52	+09 22 10.8	18.9 V	691
1994 TX ₁₂	1997 02 07.41215	10 22 17.59	+10 37 55.6	19.5 V	691	1996 TW ₁₀	1997 02 01.11450	01 53 02.31	+09 22 15.8	19.0 V	691
1994 TX ₁₂	1997 02 07.43359	10 22 16.66	+10 38 00.2	19.4 V	691	1996 UJ ₁	1997 02 04.09148	03 26 06.04	+19 45 51.4	20.1 V	691
1994 TX ₁₂	1997 02 07.45490	10 22 15.77	+10 38 05.4	19.2 V	691	1996 UJ ₁	1997 02 04.11395	03 26 08.10	+19 46 00.2	20.3 V	691
1994 TX ₁₂	1997 02 13.32115	10 18 05.26	+11 01 14.7	19.0 V	691	1996 UJ ₁	1997 02 04.13629	03 26 10.18	+19 46 08.7	20.3 V	691
1994 TX ₁₂	1997 02 13.35201	10 18 03.90	+11 01 23.0	19.4 V	691	1996 UJ ₁	1997 02 10.11683	03 35 50.71	+20 24 31.0	20.5 V	691
1994 TX ₁₂	1997 02 13.37347	10 18 02.93	+11 01 28.0	19.3 V	691	1996 UJ ₁	1997 02 10.13955	03 35 53.00	+20 24 39.8	20.4 V	691
1995 OA ₂	1997 02 01.09275	01 53 26.39	+09 43 43.5	18.9 V	691	1996 UJ ₁	1997 02 10.16192	03 35 55.18	+20 24 48.1	20.8 V	691
1995 OA ₂	1997 02 01.10459	01 53 27.00	+09 43 46.6	19.0 V	691	1996 VM ₃	1997 02 04.09989	03 38 14.71	+19 41 27.2	18.7 V	691
1995 OA ₂	1997 02 01.11479	01 53 27.53	+09 43 48.5	19.0 V	691	1996 VM ₃	1997 02 04.12235	03 38 15.48	+19 41 29.6	18.5 V	691
1995 QQ ₃	1997 02 14.32693	08 07 20.80	+19 22 53.3	18.7 V	691	1996 VM ₃	1997 02 04.14467	03 38 16.26	+19 41 31.8	18.5 V	691
1995 QQ ₃	1997 02 14.34950	08 07 19.79	+19 22 58.9	18.7 V	691	1996 VL ₄	1997 02 04.08950	03 23 14.98	+19 54 33.0	20.2 V	691
1995 QQ ₃	1997 02 14.37607	08 07 18.60	+19 23 05.6	18.7 V	691	1996 VL ₄	1997 02 04.11197	03 23 15.81	+19 54 36.5	20.3 V	691
1995 SU	1997 02 07.20093	08 31 26.73	+20 04 50.1	17.8 V	691	1996 VL ₄	1997 02 04.13429	03 23 16.63	+19 54 40.0	20.2 V	691
1995 SU	1997 02 07.22315	08 31 25.22	+20 04 51.4	17.8 V	691	1996 VL ₄	1997 02 10.11095	03 27 21.74	+20 11 25.7	20.2 V	691
1995 SU	1997 02 07.24536	08 31 23.72	+20 04 53.1	17.8 V	691	1996 VL ₄	1997 02 10.13366	03 27 22.72	+20 11 29.9	19.9 V	691
1995 SU	1997 02 14.19461	08 24 14.65	+20 11 11.5	17.9 V	691	1996 VL ₄	1997 02 10.15601	03 27 23.70	+20 11 33.5	19.7 V	691
1995 SU	1997 02 14.21713	08 24 13.29	+20 11 12.3	17.8 V	691	1996 WC ₂	1997 02 06.12179	03 17 47.11	+19 16 05.5	19.2 V	691
1995 SU	1997 02 14.23955	08 24 11.95	+20 11 13.2	17.8 V	691	1996 WC ₂	1997 02 06.14472	03 17 48.28	+19 16 13.1	19.3 V	691
1995 SV ₂	1997 01 31.49845	11 47 35.88	+05 16 23.3	18.5 V	691	1996 WC ₂	1997 02 06.16769	03 17 49.48	+19 16 20.4	19.4 V	691
1995 SV ₂	1997 01 31.51579	11 47 35.53	+05 16 25.9	18.6 V	691	1996 XE ₂	1997 02 06.12595	03 23 47.31	+19 10 18.8	18.3 V	691

1996 XE ₂	1997 02 06.14888	03 23 48.54	+19 10 26.8	18.3 V	691	1996 YO ₂	1997 02 06.13039	03 30 11.93	+19 02 06.7	18.7 V	691
1996 XN ₂	1997 02 04.08575	03 17 50.23	+19 50 13.7	20.0 V	691	1996 YO ₂	1997 02 06.15332	03 30 12.88	+19 02 11.2	18.8 V	691
1996 XN ₂	1997 02 04.10823	03 17 51.85	+19 50 18.4	20.3 V	691	1996 YO ₂	1997 02 06.17628	03 30 13.84	+19 02 15.6	18.6 V	691
1996 XN ₂	1997 02 04.13056	03 17 53.51	+19 50 22.3	20.2 V	691	1997 AK	1997 01 31.17072	08 17 10.93	+20 56 03.9	18.1 V	691
1996 XL ₄	1997 02 03.09734	03 32 19.32	+20 20 56.4	19.5 V	691	1997 AK	1997 01 31.19444	08 17 09.62	+20 56 05.7	18.1 V	691
1996 XL ₄	1997 02 03.11992	03 32 21.23	+20 20 56.0	19.5 V	691	1997 AK	1997 01 31.21674	08 17 08.36	+20 56 06.7	18.2 V	691
1996 XL ₄	1997 02 03.14227	03 32 23.12	+20 20 55.3	19.7 V	691	1997 AK	1997 02 01.13615	08 16 20.10	+20 56 54.2	18.2 V	691
1996 XL ₄	1997 02 10.12166	03 42 48.96	+20 19 27.3	19.9 V	691	1997 AK	1997 02 01.15837	08 16 18.88	+20 56 55.7	18.2 V	691
1996 XL ₄	1997 02 10.14438	03 42 51.02	+20 19 27.5	20.0 V	691	1997 AK	1997 02 01.18054	08 16 17.67	+20 56 57.0	18.1 V	691
1996 XL ₄	1997 02 10.16674	03 42 53.03	+20 19 27.7	20.2 V	691	1997 AK	1997 02 06.22093	08 12 06.64	+21 00 09.7	18.6 V	691
1996 XY ₁₂	1997 02 06.13872	03 42 14.23	+19 11 43.0	20.9 V	691	1997 AK	1997 02 06.24417	08 12 05.61	+21 00 08.3	18.0 V	691
1996 XY ₁₂	1997 02 06.16165	03 42 15.01	+19 11 50.3	21.0 V	691	1997 AK	1997 02 06.26678	08 12 04.37	+21 00 11.1	18.5 V	691
1996 XY ₁₂	1997 02 06.18462	03 42 15.82	+19 11 57.7	20.3 V	691	1997 AK	1997 02 14.11342	08 06 46.76	+21 00 32.2	18.7 V	691
1996 XH ₁₈	1997 01 31.18713	08 06 36.28	+20 35 17.8	17.1 V	691	1997 AK	1997 02 14.13625	08 06 45.93	+21 00 32.7	18.6 V	691
1996 XH ₁₈	1997 01 31.20943	08 06 35.06	+20 35 27.4	16.9 V	691	1997 AK	1997 02 14.15902	08 06 45.13	+21 00 32.7	18.6 V	691
1996 XH ₁₈	1997 02 01.12886	08 05 48.22	+20 41 56.6	17.2 V	691	1997 AP	1997 02 04.15642	08 06 34.80	+19 24 52.1	18.6 V	691
1996 XH ₁₈	1997 02 01.15108	08 05 47.06	+20 42 06.7	16.9 V	691	1997 AP	1997 02 04.17905	08 06 33.38	+19 24 55.7	18.7 V	691
1996 XH ₁₈	1997 02 01.17324	08 05 45.91	+20 42 16.5	16.9 V	691	1997 AP	1997 02 04.20135	08 06 31.97	+19 24 59.0	18.5 V	691
1996 XJ ₁₈	1997 02 02.15285	08 11 28.99	+20 11 15.8	20.7 V	691	1997 AR	1997 02 04.15859	08 09 42.10	+19 18 40.2	18.8 V	691
1996 XJ ₁₈	1997 02 02.17555	08 11 27.74	+20 11 25.6	20.7 V	691	1997 AR	1997 02 04.18121	08 09 40.68	+19 18 44.2	18.8 V	691
1996 XJ ₁₈	1997 02 02.19803	08 11 26.50	+20 11 35.2	20.4 V	691	1997 AR	1997 02 04.20351	08 09 39.30	+19 18 47.3	18.9 V	691
1996 XJ ₁₈	1997 02 06.21805	08 07 57.35	+20 39 46.7	20.4 V	691	1997 AR	1997 02 09.27402	08 04 43.22	+19 30 23.2	18.5 V	691
1996 XJ ₁₈	1997 02 06.26390	08 07 54.94	+20 40 05.5	20.4 V	691	1997 AR	1997 02 09.29635	08 04 41.96	+19 30 25.9	18.5 V	691
1996 XZ ₂₆	1997 02 04.28951	09 15 44.16	+20 26 15.7	17.5 V	691	1997 AR	1997 02 09.31883	08 04 40.66	+19 30 28.8	18.7 V	691
1996 XZ ₂₆	1997 02 04.29808	09 15 43.60	+20 26 17.5	17.5 V	691	1997 AD ₁	1997 02 01.13708	08 17 40.28	+20 35 42.2	17.7 V	691
1996 XZ ₂₆	1997 02 13.28945	09 06 18.07	+20 54 13.0	17.5 V	691	1997 AD ₁	1997 02 01.15930	08 17 38.95	+20 35 49.4	17.6 V	691
1996 XZ ₂₆	1997 02 13.29900	09 06 17.46	+20 54 14.3	17.5 V	691	1997 AD ₁	1997 02 01.18146	08 17 37.66	+20 35 56.4	17.5 V	691
1996 XZ ₂₆	1997 02 13.30911	09 06 16.79	+20 54 16.0	17.5 V	691	1997 AG ₁	1997 02 01.13857	08 19 49.89	+21 01 02.0	17.9 V	691
1996 XY ₂₈	1997 02 04.09899	03 36 56.89	+19 55 59.6	19.3 V	691	1997 AG ₁	1997 02 01.16080	08 19 48.68	+21 01 03.1	17.9 V	691
1996 XY ₂₈	1997 02 04.12146	03 36 57.86	+19 56 03.3	19.5 V	691	1997 AG ₁	1997 02 01.18296	08 19 47.47	+21 01 04.0	17.7 V	691
1996 XY ₂₈	1997 02 04.14378	03 36 58.82	+19 56 07.0	19.6 V	691	1997 AG ₁	1997 02 06.22320	08 15 23.57	+21 03 28.7	18.0 V	691
1996 XY ₂₈	1997 02 10.12102	03 41 53.70	+20 14 41.9	19.3 V	691	1997 AG ₁	1997 02 06.24644	08 15 22.25	+21 03 28.8	18.1 V	691
1996 XY ₂₈	1997 02 10.14373	03 41 54.89	+20 14 46.7	19.3 V	691	1997 AG ₁	1997 02 06.26905	08 15 21.05	+21 03 29.1	18.1 V	691
1996 XY ₂₈	1997 02 10.16609	03 41 56.07	+20 14 50.9	19.7 V	691	1997 AQ ₁	1997 02 02.15461	08 14 00.99	+20 22 51.1	17.7 V	691
1996 XL ₂₉	1997 02 03.10507	03 43 28.62	+20 31 37.7	20.4 V	691	1997 AQ ₁	1997 02 02.17730	08 13 59.47	+20 22 51.6	17.8 V	691
1996 XL ₂₉	1997 02 03.12764	03 43 29.92	+20 31 42.7	20.6 V	691	1997 AQ ₁	1997 02 02.19977	08 13 57.96	+20 22 51.6	17.7 V	691
1996 XL ₂₉	1997 02 03.14998	03 43 31.22	+20 31 47.3	20.2 V	691	1997 AE ₂	1997 02 15.12596	08 40 44.40	+15 54 13.0	18.8 V	691
1996 XX ₂₉	1997 02 03.10150	03 38 20.05	+20 04 22.0	20.7 V	691	1997 AE ₂	1997 02 15.14814	08 40 43.34	+15 54 14.3	18.7 V	691
1996 XX ₂₉	1997 02 03.12408	03 38 21.34	+20 04 27.5	20.7 V	691	1997 AE ₂	1997 02 15.17441	08 40 42.07	+15 54 15.8	18.2 V	691
1996 XX ₂₉	1997 02 03.14642	03 38 22.59	+20 04 32.7	20.4 V	691	1997 AW ₃	1997 02 14.18352	08 08 13.47	+20 07 40.3	17.5 V	691
1996 XC ₃₆	1997 02 04.15672	08 07 00.44	+19 19 14.2	19.9 V	691	1997 AW ₃	1997 02 14.20603	08 08 12.41	+20 07 48.1	17.4 V	691
1996 XC ₃₆	1997 02 04.17935	08 06 59.25	+19 19 21.7	19.8 V	691	1997 AW ₃	1997 02 14.22846	08 08 11.41	+20 07 55.7	17.4 V	691
1996 XC ₃₆	1997 02 04.20165	08 06 58.08	+19 19 27.8	19.6 V	691	1997 AE ₄	1997 02 07.26797	08 30 19.09	+19 53 16.7	16.0 V	691
1996 XC ₃₆	1997 02 07.25041	08 04 27.53	+19 33 32.9	19.8 V	691	1997 AE ₄	1997 02 07.29075	08 30 17.98	+19 53 25.7	16.0 V	691
1996 XC ₃₆	1997 02 07.27320	08 04 26.41	+19 33 39.0	19.1 V	691	1997 AE ₄	1997 02 07.31312	08 30 16.87	+19 53 34.4	16.1 V	691
1996 XC ₃₆	1997 02 07.29557	08 04 25.26	+19 33 45.3	19.8 V	691	1997 AE ₄	1997 02 14.12628	08 25 21.01	+20 36 11.9	16.3 V	691
1996 YR ₁	1997 01 31.37288	09 28 02.30	+12 32 44.1	18.0 V	691	1997 AE ₄	1997 02 14.14911	08 25 20.07	+20 36 20.2	16.2 V	691
1996 YR ₁	1997 01 31.39595	09 28 00.83	+12 32 45.6	17.9 V	691	1997 AE ₄	1997 02 14.17188	08 25 19.10	+20 36 28.6	16.1 V	691
1996 YR ₁	1997 01 31.41784	09 27 59.41	+12 32 47.0	18.0 V	691	1997 AJ ₄	1996 12 07.40728	09 05 42.75	+14 38 10.0	18.2 V	691
1996 YH ₂	1997 02 04.36724	10 31 08.48	+17 28 14.3	17.7 V	691	1997 AJ ₄	1996 12 07.43230	09 05 42.93	+14 38 04.3	18.3 V	691
1996 YH ₂	1997 02 04.38933	10 31 07.29	+17 28 22.5	17.4 V	691	1997 AJ ₄	1996 12 07.45750	09 05 43.14	+14 37 58.2	18.4 V	691
1996 YH ₂	1997 02 04.41135	10 31 06.09	+17 28 30.0	17.8 V	691	1997 AA ₆	1997 02 04.09741	03 34 40.00	+19 50 01.6	19.9 V	691

1997 AA ₆	1997 02 04.11988	03 34 41.40	+19 50 00.1	20.1 V	691	1997 AB ₁₆	1997 01 09.25675	08 05 56.99	+19 30 20.4	18.4 V	691
1997 AA ₆	1997 02 04.14221	03 34 42.77	+19 49 58.8	20.0 V	691	1997 AZ ₁₇	1997 02 15.28882	09 23 18.98	+21 19 13.5	16.4 V	691
1997 AT ₆	1997 02 01.09128	01 51 19.20	+09 22 26.2	19.1 V	691	1997 AZ ₁₇	1997 02 15.31918	09 23 17.05	+21 19 20.9	16.4 V	691
1997 AT ₆	1997 02 01.10313	01 51 20.87	+09 22 33.9	19.4 V	691	1997 AZ ₁₇	1997 02 15.34861	09 23 15.19	+21 19 28.1	16.5 V	691
1997 AT ₆	1997 02 01.11334	01 51 22.29	+09 22 40.6	19.7 V	691	1997 AE ₁₈	1997 02 03.16307	08 14 52.63	+19 48 39.3	17.6 V	691
1997 AT ₆	1997 02 07.15592	02 05 34.05	+10 25 25.7	19.5 V	691	1997 AE ₁₈	1997 02 03.18511	08 14 51.09	+19 48 40.5	17.6 V	691
1997 AT ₆	1997 02 07.16147	02 05 34.85	+10 25 30.7	19.7 V	691	1997 AE ₁₈	1997 02 03.20716	08 14 49.53	+19 48 41.8	17.7 V	691
1997 AT ₆	1997 02 07.16721	02 05 35.63	+10 25 33.0	19.2 V	691	1997 AE ₁₈	1997 02 07.25409	08 10 16.44	+19 51 30.5	17.6 V	691
1997 AU ₆	1992 02 01.20285	08 07 11.70	+20 16 30.0		691	1997 AE ₁₈	1997 02 07.27686	08 10 14.86	+19 51 31.4	17.8 V	691
1997 AU ₆	1992 02 01.22443	08 07 10.55	+20 16 34.7		691	1997 AE ₁₈	1997 02 07.29923	08 10 13.35	+19 51 32.2	17.7 V	691
1997 AU ₆	1992 02 01.25068	08 07 09.15	+20 16 40.6	19.4 V	691	1997 AM ₁₈	1997 02 14.33963	08 25 41.22	+19 10 07.1	19.7 V	691
1997 AY ₆	1997 02 01.29045	09 20 45.65	+12 54 45.2	18.2 V	691	1997 AM ₁₈	1997 02 14.36220	08 25 40.26	+19 10 17.7	19.8 V	691
1997 AY ₆	1997 02 01.31968	09 20 43.86	+12 54 47.4	18.2 V	691	1997 AM ₁₈	1997 02 14.38878	08 25 39.14	+19 10 28.9	19.8 V	691
1997 AY ₆	1997 02 01.34647	09 20 42.24	+12 54 49.6	18.2 V	691	1997 AT ₂₀	1997 01 31.22938	09 14 15.07	+13 43 43.5	18.5 V	691
1997 AY ₆	1997 02 01.38157	09 20 40.06	+12 54 52.3	18.2 V	691	1997 AT ₂₀	1997 01 31.25098	09 14 13.78	+13 43 47.4	18.4 V	691
1997 AY ₆	1997 02 01.40888	09 20 38.38	+12 54 54.4	18.3 V	691	1997 AT ₂₀	1997 01 31.27237	09 14 12.51	+13 43 51.8	18.3 V	691
1997 AY ₆	1997 02 01.43620	09 20 36.73	+12 54 56.6	18.6 V	691	1997 AF ₂₁	1996 12 02.40772	08 15 44.92	+23 33 00.4	18.5 V	691
1997 AY ₆	1997 02 03.33429	09 18 44.41	+12 57 28.4	18.4 V	691	1997 AF ₂₁	1996 12 02.43295	08 15 44.48	+23 33 03.7	18.5 V	691
1997 AY ₆	1997 02 03.34553	09 18 43.72	+12 57 29.4	18.4 V	691	1997 AF ₂₁	1996 12 02.45810	08 15 44.00	+23 33 06.5	18.5 V	691
1997 AY ₆	1997 02 03.35672	09 18 43.03	+12 57 30.1	18.4 V	691	1997 AN ₂₁	1997 02 14.33815	08 23 32.64	+19 02 55.7	17.3 V	691
1997 AY ₆	1997 02 15.27130	09 07 14.73	+13 14 16.7	18.3 V	691	1997 AN ₂₁	1997 02 14.36071	08 23 31.35	+19 02 51.2	17.3 V	691
1997 AY ₆	1997 02 15.30259	09 07 12.96	+13 14 19.3	18.3 V	691	1997 AN ₂₁	1997 02 14.38729	08 23 29.82	+19 02 45.2	17.2 V	691
1997 AY ₆	1997 02 15.33227	09 07 11.27	+13 14 22.0	18.3 V	691	1997 AP ₂₂	1997 01 09.29228	08 24 05.76	+19 14 26.8	18.1 V	691
1997 AZ ₆	1996 11 05.48944	08 58 08.63	+14 09 04.7	19.1 V	691	1997 AP ₂₂	1997 01 09.31446	08 24 04.48	+19 14 33.9	18.1 V	691
1997 AZ ₆	1996 11 05.50454	08 58 09.47	+14 09 00.9	19.1 V	691	1997 AP ₂₂	1997 01 09.33735	08 24 03.18	+19 14 41.7	18.3 V	691
1997 AZ ₆	1996 11 05.51972	08 58 10.29	+14 08 56.9	19.2 V	691	1997 AQ ₂₂	1997 01 31.16251	08 05 18.84	+20 57 16.1	17.2 V	691
1997 AF ₇	1997 01 31.24059	09 30 26.56	+13 56 53.1	17.7 V	691	1997 AQ ₂₂	1997 01 31.18625	08 05 17.50	+20 57 24.9	17.2 V	691
1997 AF ₇	1997 01 31.26220	09 30 25.39	+13 57 02.0	17.7 V	691	1997 AQ ₂₂	1997 01 31.20855	08 05 16.25	+20 57 33.1	17.2 V	691
1997 AF ₇	1997 01 31.28359	09 30 24.24	+13 57 10.9	17.6 V	691	1997 AQ ₂₂	1997 02 01.12828	08 04 26.49	+21 02 57.1	17.1 V	691
1997 AD ₈	1997 02 15.12507	08 39 27.57	+15 41 33.6	19.5 V	691	1997 AQ ₂₂	1997 02 01.15051	08 04 25.24	+21 03 06.0	17.0 V	691
1997 AD ₈	1997 02 15.14725	08 39 26.47	+15 41 37.7	19.5 V	691	1997 AQ ₂₂	1997 02 01.17265	08 04 24.00	+21 03 14.0	17.2 V	691
1997 AD ₈	1997 02 15.17352	08 39 25.06	+15 41 42.7	19.5 V	691	1997 AT ₂₂	1997 02 01.45605	10 37 25.20	+10 35 55.8	18.0 V	691
1997 AC ₉	1997 01 31.36016	09 09 39.97	+12 58 27.9	18.5 V	691	1997 AT ₂₂	1997 02 01.47769	10 37 24.29	+10 36 05.6	18.0 V	691
1997 AC ₉	1997 01 31.38322	09 09 38.43	+12 58 27.5	18.8 V	691	1997 AT ₂₂	1997 02 01.51588	10 37 22.68	+10 36 22.2	17.8 V	691
1997 AC ₉	1997 01 31.40511	09 09 36.95	+12 58 27.9	18.7 V	691	1997 AT ₂₂	1997 02 06.40971	10 33 51.15	+11 13 16.9	18.2 V	691
1997 AU ₉	1996 11 05.49066	08 59 54.20	+14 16 14.2	19.2 V	691	1997 AT ₂₂	1997 02 06.43149	10 33 50.14	+11 13 27.1	17.9 V	691
1997 AU ₉	1996 11 05.50576	08 59 55.10	+14 16 10.2	19.3 V	691	1997 AT ₂₂	1997 02 06.45289	10 33 49.12	+11 13 36.9	17.8 V	691
1997 AU ₉	1996 11 05.52094	08 59 55.99	+14 16 06.0	19.1 V	691	1997 BX	1997 01 09.29436	08 27 06.09	+19 22 15.2	17.8 V	691
1997 AW ₁₂	1997 02 07.19953	08 29 26.16	+20 13 35.8	18.6 V	691	1997 BX	1997 01 09.31654	08 27 04.77	+19 22 22.3	17.6 V	691
1997 AW ₁₂	1997 02 07.22175	08 29 24.71	+20 13 31.4	18.3 V	691	1997 BX	1997 01 09.33943	08 27 03.41	+19 22 29.8	17.8 V	691
1997 AW ₁₂	1997 02 07.24397	08 29 23.23	+20 13 26.9	18.7 V	691	1997 BE ₁	1997 01 09.24760	08 25 18.90	+19 53 59.6	18.7 V	691
1997 AW ₁₂	1997 02 14.26183	08 22 24.26	+19 48 52.7	18.7 V	691	1997 BE ₁	1997 01 09.26982	08 25 17.75	+19 54 03.9	18.7 V	691
1997 AW ₁₂	1997 02 14.28863	08 22 22.74	+19 48 46.2	18.7 V	691	1997 BE ₁	1997 01 31.16287	08 05 51.49	+21 00 58.9	18.4 V	691
1997 AW ₁₂	1997 02 14.31254	08 22 21.33	+19 48 41.1	18.8 V	691	1997 BE ₁	1997 01 31.18660	08 05 50.24	+21 01 03.2	18.4 V	691
1997 AX ₁₂	1996 12 11.50056	09 00 17.29	+15 34 08.2	18.7 V	691	1997 BE ₁	1997 01 31.20890	08 05 49.08	+21 01 06.9	18.6 V	691
1997 AX ₁₂	1996 12 11.52321	09 00 18.24	+15 34 13.1	18.5 V	691	1997 BE ₁	1997 02 01.12849	08 05 02.72	+21 03 30.0	18.9 V	691
1997 AX ₁₂	1996 12 11.54557	09 00 19.17	+15 34 17.4	18.6 V	691	1997 BE ₁	1997 02 01.15072	08 05 01.57	+21 03 34.5	19.0 V	691
1997 AA ₁₆	1997 01 09.27903	08 04 30.64	+19 27 13.9	18.5 V	691	1997 BE ₁	1997 02 01.17286	08 05 00.42	+21 03 38.1	19.3 V	691
1997 AA ₁₆	1997 01 09.30122	08 04 29.45	+19 27 17.5	18.5 V	691	1997 BK ₁	1997 02 14.26847	08 31 59.40	+20 00 04.8	17.7 V	691
1997 AA ₁₆	1997 01 09.32411	08 04 28.23	+19 27 20.8	18.6 V	691	1997 BK ₁	1997 02 14.29527	08 31 58.09	+20 00 10.4	17.9 V	691
1997 AB ₁₆	1997 01 09.21229	08 05 59.83	+19 30 13.7	18.3 V	691	1997 BK ₁	1997 02 14.31918	08 31 56.85	+20 00 15.5	18.0 V	691
1997 AB ₁₆	1997 01 09.23453	08 05 58.41	+19 30 17.4	18.4 V	691	1997 BM ₁	1997 02 14.26883	08 32 30.62	+19 43 04.9	19.2 V	691

1997 BM ₁	1997 02 14.29563	08 32 29.24	+19 43 07.6	19.2 V	691	1997 BB ₄	1997 02 06.26194	08 04 43.60	+21 03 57.1	19.5 V	691
1997 BM ₁	1997 02 14.31954	08 32 27.93	+19 43 10.9	19.4 V	691	1997 BC ₄	* 1997 01 31.16616	08 10 36.58	+20 50 17.8	19.0 V	691
1997 BB ₂	1997 02 03.25619	09 08 43.07	+20 31 22.7	17.3 V	691	1997 BC ₄	1997 01 31.18989	08 10 35.33	+20 50 23.7	19.1 V	691
1997 BB ₂	1997 02 03.27745	09 08 41.53	+20 31 28.2	17.1 V	691	1997 BC ₄	1997 01 31.21219	08 10 34.14	+20 50 28.9	19.4 V	691
1997 BB ₂	1997 02 03.29856	09 08 39.98	+20 31 33.5	17.1 V	691	1997 BC ₄	1997 02 01.13161	08 09 46.92	+20 53 50.8	19.2 V	691
1997 BC ₂	1997 02 03.25828	09 11 43.64	+20 45 27.4	16.7 V	691	1997 BC ₄	1997 02 01.15383	08 09 45.76	+20 53 56.3	19.1 V	691
1997 BC ₂	1997 02 03.27954	09 11 42.54	+20 45 36.4	16.8 V	691	1997 BC ₄	1997 02 01.17600	08 09 44.59	+20 54 01.3	19.2 V	691
1997 BC ₂	1997 02 03.30065	09 11 41.46	+20 45 44.8	16.8 V	691	1997 BD ₄	* 1997 01 31.16622	08 10 41.40	+20 46 57.2	20.1 V	691
1997 BL ₃	1997 02 04.35741	10 16 26.37	+17 11 57.4	17.0 V	691	1997 BD ₄	1997 01 31.18995	08 10 40.17	+20 47 00.8	20.0 V	691
1997 BL ₃	1997 02 04.37951	10 16 25.20	+17 12 05.7	16.8 V	691	1997 BD ₄	1997 01 31.21225	08 10 39.00	+20 47 03.4	20.3 V	691
1997 BL ₃	1997 02 04.40157	10 16 24.04	+17 12 15.6	16.8 V	691	1997 BD ₄	1997 02 01.13168	08 09 52.61	+20 48 53.2	20.1 V	691
1997 BL ₃	1997 02 10.32706	10 11 09.72	+17 52 54.9	16.7 V	691	1997 BD ₄	1997 02 01.15390	08 09 51.47	+20 48 56.9	20.3 V	691
1997 BL ₃	1997 02 10.33272	10 11 09.40	+17 52 57.3	16.7 V	691	1997 BD ₄	1997 02 01.17607	08 09 50.32	+20 48 59.7	20.2 V	691
1997 BL ₃	1997 02 10.33837	10 11 09.07	+17 52 59.7	16.7 V	691	1997 BD ₄	1997 02 06.21651	08 05 43.97	+20 58 24.7	20.7 V	691
1997 BW ₃	* 1997 01 31.16440	08 08 04.10	+20 34 10.9	20.0 V	691	1997 BD ₄	1997 02 06.23975	08 05 42.76	+20 58 28.1	20.5 V	691
1997 BW ₃	1997 01 31.18813	08 08 02.64	+20 34 19.5	20.1 V	691	1997 BD ₄	1997 02 06.26236	08 05 41.69	+20 58 29.6	20.2 V	691
1997 BW ₃	1997 01 31.21043	08 08 01.32	+20 34 26.8	20.2 V	691	1997 BE ₄	* 1997 01 31.16639	08 10 55.95	+20 33 06.9	19.1 V	691
1997 BW ₃	1997 02 01.12977	08 07 07.23	+20 39 31.7	20.3 V	691	1997 BE ₄	1997 01 31.19011	08 10 54.53	+20 33 10.1	19.3 V	691
1997 BW ₃	1997 02 01.15199	08 07 05.92	+20 39 39.7	20.2 V	691	1997 BE ₄	1997 01 31.21241	08 10 53.19	+20 33 13.2	19.5 V	691
1997 BW ₃	1997 02 01.17415	08 07 04.59	+20 39 47.4	20.2 V	691	1997 BE ₄	1997 02 01.13176	08 10 00.12	+20 35 04.1	19.1 V	691
1997 BX ₃	* 1997 01 31.16520	08 09 12.84	+20 55 22.6	18.9 V	691	1997 BE ₄	1997 02 01.15399	08 09 58.80	+20 35 07.3	19.1 V	691
1997 BX ₃	1997 01 31.18893	08 09 11.58	+20 55 26.6	18.8 V	691	1997 BE ₄	1997 02 01.17615	08 09 57.50	+20 35 10.2	19.1 V	691
1997 BX ₃	1997 01 31.21122	08 09 10.40	+20 55 30.0	19.1 V	691	1997 BE ₄	1997 02 06.21629	08 05 17.56	+20 44 29.1	18.9 V	691
1997 BX ₃	1997 02 01.13065	08 08 23.68	+20 57 46.2	19.1 V	691	1997 BE ₄	1997 02 06.23950	08 05 16.24	+20 44 31.9	18.9 V	691
1997 BX ₃	1997 02 01.15287	08 08 22.52	+20 57 50.3	19.0 V	691	1997 BE ₄	1997 02 06.26212	08 05 15.00	+20 44 33.8	18.8 V	691
1997 BX ₃	1997 02 01.17504	08 08 21.36	+20 57 54.5	18.7 V	691	1997 BF ₄	* 1997 01 31.16718	08 12 04.39	+20 38 51.0	18.9 V	691
1997 BY ₃	* 1997 01 31.16530	08 09 22.03	+20 49 13.0	17.2 V	691	1997 BF ₄	1997 01 31.19091	08 12 03.11	+20 38 55.3	19.0 V	691
1997 BY ₃	1997 01 31.18903	08 09 20.73	+20 49 25.2	16.9 V	691	1997 BF ₄	1997 01 31.21320	08 12 01.88	+20 38 58.9	19.2 V	691
1997 BY ₃	1997 01 31.21133	08 09 19.50	+20 49 36.3	16.7 V	691	1997 BF ₄	1997 02 01.13262	08 11 14.18	+20 41 22.2	19.1 V	691
1997 BY ₃	1997 02 01.13075	08 08 32.09	+20 57 02.2	17.1 V	691	1997 BF ₄	1997 02 01.15484	08 11 13.00	+20 41 25.9	18.9 V	691
1997 BY ₃	1997 02 01.15297	08 08 30.89	+20 57 13.8	17.3 V	691	1997 BF ₄	1997 02 01.17701	08 11 11.82	+20 41 29.3	19.1 V	691
1997 BY ₃	1997 02 01.17513	08 08 29.69	+20 57 24.8	17.0 V	691	1997 BG ₄	* 1997 01 31.16753	08 12 35.04	+20 47 17.5	19.9 V	691
1997 BZ ₃	* 1997 01 31.16576	08 10 01.60	+20 59 41.9	20.3 V	691	1997 BG ₄	1997 01 31.19126	08 12 33.57	+20 47 26.1	19.7 V	691
1997 BZ ₃	1997 01 31.18948	08 10 00.00	+20 59 43.3	20.1 V	691	1997 BG ₄	1997 01 31.21355	08 12 32.15	+20 47 33.6	19.6 V	691
1997 BZ ₃	1997 01 31.21178	08 09 58.42	+20 59 44.6	20.7 V	691	1997 BG ₄	1997 02 01.13287	08 11 36.38	+20 52 44.7	19.9 V	691
1997 BZ ₃	1997 02 01.13105	08 08 58.38	+21 00 07.0	20.4 V	691	1997 BG ₄	1997 02 01.15510	08 11 34.98	+20 52 53.2	19.6 V	691
1997 BZ ₃	1997 02 01.15327	08 08 56.84	+21 00 08.4	20.1 V	691	1997 BG ₄	1997 02 01.17726	08 11 33.64	+20 53 00.9	19.2 V	691
1997 BZ ₃	1997 02 01.17543	08 08 55.42	+21 00 10.0	20.2 V	691	1997 BH ₄	* 1997 01 31.16781	08 12 59.56	+20 56 15.7	20.0 V	691
1997 BA ₄	* 1997 01 31.16594	08 10 17.54	+20 37 35.4	20.7 V	691	1997 BH ₄	1997 01 31.19154	08 12 58.06	+20 56 23.9	20.2 V	691
1997 BA ₄	1997 01 31.18967	08 10 16.32	+20 37 43.5	20.6 V	691	1997 BH ₄	1997 01 31.21384	08 12 56.65	+20 56 30.5	20.4 V	691
1997 BA ₄	1997 01 31.21197	08 10 15.19	+20 37 51.4	21.3 V	691	1997 BH ₄	1997 02 01.13316	08 12 01.25	+21 01 07.8	20.2 V	691
1997 BA ₄	1997 02 01.13143	08 09 31.27	+20 42 51.2	20.5 V	691	1997 BH ₄	1997 02 01.15538	08 11 59.88	+21 01 15.5	20.1 V	691
1997 BA ₄	1997 02 01.15366	08 09 30.16	+20 42 59.3	20.4 V	691	1997 BH ₄	1997 02 01.17754	08 11 58.49	+21 01 21.8	20.3 V	691
1997 BA ₄	1997 02 01.17582	08 09 29.08	+20 43 06.7	20.7 V	691	1997 BJ ₄	* 1997 01 31.16814	08 13 28.14	+20 35 47.7	20.2 V	691
1997 BB ₄	* 1997 01 31.16599	08 10 21.75	+20 55 32.0	19.2 V	691	1997 BJ ₄	1997 01 31.19187	08 13 26.79	+20 35 53.6	20.5 V	691
1997 BB ₄	1997 01 31.18972	08 10 20.32	+20 55 34.6	19.3 V	691	1997 BJ ₄	1997 01 31.21417	08 13 25.47	+20 35 59.6	20.7 V	691
1997 BB ₄	1997 01 31.21202	08 10 19.00	+20 55 36.6	19.7 V	691	1997 BJ ₄	1997 02 01.13355	08 12 34.46	+20 39 48.2	20.7 V	691
1997 BB ₄	1997 02 01.13137	08 09 26.27	+20 57 00.5	19.5 V	691	1997 BJ ₄	1997 02 01.15577	08 12 33.26	+20 39 53.9	20.5 V	691
1997 BB ₄	1997 02 01.15359	08 09 24.97	+20 57 03.2	19.5 V	691	1997 BJ ₄	1997 02 01.17793	08 12 32.02	+20 39 59.3	20.3 V	691
1997 BB ₄	1997 02 01.17576	08 09 23.68	+20 57 05.5	19.4 V	691	1997 BJ ₄	1997 02 06.21814	08 08 04.77	+20 59 44.2	21.0 V	691
1997 BB ₄	1997 02 06.21611	08 04 46.14	+21 03 53.8	19.6 V	691	1997 BJ ₄	1997 02 06.26399	08 08 02.38	+20 59 54.0	20.7 V	691
1997 BB ₄	1997 02 06.23932	08 04 44.80	+21 03 55.7	19.4 V	691	1997 BK ₄	* 1997 01 31.16957	08 15 31.69	+20 44 02.2	19.2 V	691

1997 BK ₄	1997 01 31.19330	08 15 30.28	+20 44 10.8	19.3 V	691	1997 BR ₄	1997 01 31.41421	09 22 45.20	+12 42 25.3	20.2 V	691
1997 BK ₄	1997 01 31.21559	08 15 28.90	+20 44 18.8	19.6 V	691	1997 BR ₄	1997 02 01.38216	09 22 04.38	+12 49 02.5	19.8 V	691
1997 BK ₄	1997 02 01.13494	08 14 35.41	+20 49 39.9	19.3 V	691	1997 BR ₄	1997 02 01.40947	09 22 03.21	+12 49 13.9	19.9 V	691
1997 BK ₄	1997 02 01.15716	08 14 34.08	+20 49 48.1	19.3 V	691	1997 BR ₄	1997 02 01.43678	09 22 02.02	+12 49 24.9	20.0 V	691
1997 BK ₄	1997 02 01.17933	08 14 32.75	+20 49 55.5	19.2 V	691	1997 BR ₄	1997 02 03.33556	09 20 41.50	+13 02 28.8	19.9 V	691
1997 BL ₄	* 1997 01 31.16965	08 15 38.38	+20 46 31.5	19.9 V	691	1997 BR ₄	1997 02 03.34680	09 20 41.01	+13 02 33.6	20.1 V	691
1997 BL ₄	1997 01 31.19338	08 15 37.21	+20 46 40.7	20.2 V	691	1997 BR ₄	1997 02 03.35799	09 20 40.53	+13 02 38.7	19.9 V	691
1997 BL ₄	1997 01 31.21568	08 15 36.14	+20 46 49.8	20.4 V	691	1997 BS ₄	* 1997 01 31.36932	09 22 53.49	+12 50 52.9	19.1 V	691
1997 BL ₄	1997 02 01.13513	08 14 51.85	+20 52 59.4	20.6 V	691	1997 BS ₄	1997 01 31.39239	09 22 52.07	+12 51 00.4	19.2 V	691
1997 BL ₄	1997 02 01.15736	08 14 50.75	+20 53 09.2	20.4 V	691	1997 BS ₄	1997 01 31.41427	09 22 50.69	+12 51 07.5	19.3 V	691
1997 BL ₄	1997 02 01.17952	08 14 49.68	+20 53 18.1	20.3 V	691	1997 BS ₄	1997 02 01.38202	09 21 52.56	+12 56 26.4	19.1 V	691
1997 BM ₄	* 1997 01 31.17030	08 16 34.53	+20 45 37.2	21.1 V	691	1997 BS ₄	1997 02 01.40933	09 21 50.83	+12 56 34.7	19.0 V	691
1997 BM ₄	1997 01 31.19402	08 16 33.30	+20 45 42.8	21.3 V	691	1997 BS ₄	1997 02 01.43663	09 21 49.16	+12 56 44.2	19.3 V	691
1997 BM ₄	1997 01 31.21632	08 16 32.12	+20 45 48.8	21.2 V	691	1997 BS ₄	1997 02 03.33502	09 19 54.53	+13 07 14.5	19.2 V	691
1997 BM ₄	1997 02 01.13575	08 15 45.37	+20 49 38.9	21.0 V	691	1997 BS ₄	1997 02 03.34625	09 19 53.82	+13 07 18.2	19.2 V	691
1997 BM ₄	1997 02 01.15797	08 15 44.22	+20 49 44.7	21.2 V	691	1997 BS ₄	1997 02 03.35744	09 19 53.12	+13 07 21.9	19.1 V	691
1997 BM ₄	1997 02 01.18014	08 15 43.02	+20 49 50.1	21.0 V	691	1997 BT ₄	* 1997 01 31.36934	09 22 55.53	+12 48 59.6	19.4 V	691
1997 BN ₄	* 1997 01 31.17101	08 17 36.22	+20 50 38.0	19.5 V	691	1997 BT ₄	1997 01 31.39241	09 22 54.35	+12 49 04.8	19.9 V	691
1997 BN ₄	1997 01 31.19473	08 17 34.61	+20 50 42.9	19.0 V	691	1997 BT ₄	1997 01 31.41430	09 22 53.22	+12 49 08.8	20.2 V	691
1997 BN ₄	1997 01 31.21703	08 17 33.10	+20 50 45.0	19.5 V	691	1997 BT ₄	1997 02 01.38216	09 22 05.00	+12 52 14.2	19.7 V	691
1997 BN ₄	1997 02 01.13629	08 16 32.07	+20 52 56.3	19.6 V	691	1997 BT ₄	1997 02 01.40948	09 22 03.56	+12 52 19.8	19.9 V	691
1997 BN ₄	1997 02 01.15851	08 16 30.56	+20 53 00.0	19.7 V	691	1997 BT ₄	1997 02 01.43678	09 22 02.16	+12 52 24.9	19.9 V	691
1997 BN ₄	1997 02 01.18067	08 16 29.08	+20 53 02.9	19.8 V	691	1997 BT ₄	1997 02 03.33539	09 20 26.72	+12 58 34.5	20.0 V	691
1997 BN ₄	1997 02 06.22022	08 11 04.93	+21 04 00.8	19.9 V	691	1997 BT ₄	1997 02 03.34663	09 20 26.15	+12 58 36.7	20.0 V	691
1997 BN ₄	1997 02 06.24345	08 11 03.46	+21 04 03.6	20.0 V	691	1997 BT ₄	1997 02 03.35782	09 20 25.55	+12 58 39.1	19.7 V	691
1997 BN ₄	1997 02 06.26606	08 11 02.02	+21 04 06.3	19.9 V	691	1997 BU ₄	* 1997 01 31.37034	09 24 22.14	+12 49 19.5	18.2 V	691
1997 BO ₄	* 1997 01 31.17202	08 19 03.76	+20 40 06.0	19.3 V	691	1997 BU ₄	1997 01 31.39341	09 24 20.99	+12 49 32.0	18.2 V	691
1997 BO ₄	1997 01 31.19575	08 19 02.45	+20 40 09.6	19.3 V	691	1997 BU ₄	1997 01 31.41530	09 24 19.90	+12 49 43.2	18.0 V	691
1997 BO ₄	1997 01 31.21804	08 19 01.20	+20 40 12.6	19.4 V	691	1997 BU ₄	1997 02 01.38318	09 23 33.09	+12 58 24.2	18.1 V	691
1997 BO ₄	1997 02 01.13744	08 18 11.56	+20 42 19.6	19.4 V	691	1997 BU ₄	1997 02 01.41049	09 23 31.70	+12 58 38.8	18.2 V	691
1997 BO ₄	1997 02 01.15966	08 18 10.33	+20 42 23.1	19.3 V	691	1997 BU ₄	1997 02 01.43780	09 23 30.33	+12 58 53.6	18.1 V	691
1997 BO ₄	1997 02 01.18182	08 18 09.13	+20 42 26.4	19.3 V	691	1997 BU ₄	1997 02 02.29789	09 22 48.57	+13 06 39.5	18.1 V	691
1997 BP ₄	* 1997 01 31.17211	08 19 11.59	+20 53 26.2	21.2 V	691	1997 BU ₄	1997 02 02.36462	09 22 45.19	+13 07 15.5	18.2 V	691
1997 BP ₄	1997 01 31.19583	08 19 10.07	+20 53 31.3	21.1 V	691	1997 BU ₄	1997 02 02.39700	09 22 43.54	+13 07 32.9	18.1 V	691
1997 BP ₄	1997 01 31.21813	08 19 08.67	+20 53 35.5	21.4 V	691	1997 BW ₄	1997 01 09.44440	09 12 51.05	+21 51 48.6	18.4 V	691
1997 BP ₄	1997 02 01.13744	08 18 12.11	+20 56 22.7	21.1 V	691	1997 BW ₄	1997 01 09.46684	09 12 50.19	+21 52 03.3	18.4 V	691
1997 BP ₄	1997 02 01.15967	08 18 10.79	+20 56 26.4	21.2 V	691	1997 BW ₄	1997 01 09.48921	09 12 49.32	+21 52 18.0	18.4 V	691
1997 BP ₄	1997 02 01.18183	08 18 09.42	+20 56 30.9	21.0 V	691	1997 BW ₄	1997 01 10.35206	09 12 17.76	+22 01 53.4	18.5 V	691
1997 BQ ₄	* 1997 01 31.30013	09 21 58.22	+13 01 56.4	19.9 V	691	1997 BW ₄	1997 01 10.35936	09 12 17.41	+22 02 00.3	18.0 V	691
1997 BQ ₄	1997 01 31.32199	09 21 56.96	+13 02 00.0	20.2 V	691	1997 BB ₅	* 1997 01 31.30260	09 25 32.59	+13 02 49.4	20.8 V	691
1997 BQ ₄	1997 01 31.34331	09 21 55.73	+13 02 02.7	19.9 V	691	1997 BB ₅	1997 01 31.32446	09 25 31.28	+13 02 52.6	21.1 V	691
1997 BQ ₄	1997 02 01.29055	09 21 03.29	+13 04 27.4	18.7 V	691	1997 BB ₅	1997 01 31.34578	09 25 30.05	+13 02 55.2	20.6 V	691
1997 BQ ₄	1997 02 01.31979	09 21 01.54	+13 04 29.5	19.9 V	691	1997 BB ₅	1997 02 02.29843	09 23 35.87	+13 07 50.6	20.7 V	691
1997 BQ ₄	1997 02 01.34658	09 21 00.02	+13 04 33.7	20.0 V	691	1997 BB ₅	1997 02 02.36515	09 23 31.85	+13 08 01.0	20.7 V	691
1997 BQ ₄	1997 02 01.38167	09 20 58.01	+13 04 38.9	20.1 V	691	1997 BB ₅	1997 02 02.39754	09 23 29.92	+13 08 05.4	20.9 V	691
1997 BQ ₄	1997 02 01.40899	09 20 56.42	+13 04 42.9	19.9 V	691	1997 BC ₅	* 1997 01 31.36781	09 20 42.50	+12 57 58.6	19.9 V	691
1997 BQ ₄	1997 02 01.43631	09 20 54.88	+13 04 47.0	20.3 V	691	1997 BC ₅	1997 01 31.39088	09 20 41.12	+12 58 04.6	20.4 V	691
1997 BQ ₄	1997 02 03.33449	09 19 08.59	+13 09 37.3	19.7 V	691	1997 BC ₅	1997 01 31.41276	09 20 39.80	+12 58 10.7	20.0 V	691
1997 BQ ₄	1997 02 03.34572	09 19 07.95	+13 09 38.9	19.9 V	691	1997 BC ₅	1997 02 02.29513	09 18 49.39	+13 06 37.5	19.8 V	691
1997 BQ ₄	1997 02 03.35691	09 19 07.31	+13 09 40.4	19.8 V	691	1997 BC ₅	1997 02 02.36190	09 18 45.34	+13 06 55.3	20.1 V	691
1997 BR ₄	* 1997 01 31.36925	09 22 47.16	+12 42 06.5	20.1 V	691	1997 BC ₅	1997 02 02.39429	09 18 43.36	+13 07 04.1	20.2 V	691
1997 BR ₄	1997 01 31.39232	09 22 46.14	+12 42 15.7	19.8 V	691	1997 BC ₅	1997 02 11.31540	09 09 53.19	+13 47 50.3	20.1 V	691

1997 BC ₅	1997 02 11.38213	09 09 49.14	+13 48 08.4	19.9 V	691	1997 BK ₅	1997 02 02.36571	09 24 19.66	+12 48 26.3	18.6 V	691
1997 BD ₅	* 1997 01 31.36797	09 20 56.99	+12 44 40.3	20.3 V	691	1997 BK ₅	1997 02 02.39809	09 24 17.62	+12 48 34.8	18.3 V	691
1997 BD ₅	1997 01 31.39104	09 20 55.62	+12 44 46.7	19.9 V	691	1997 BK ₅	1997 02 03.33740	09 23 20.74	+12 52 54.9	18.5 V	691
1997 BD ₅	1997 01 31.41293	09 20 54.34	+12 44 53.0	19.9 V	691	1997 BK ₅	1997 02 03.34863	09 23 20.01	+12 52 57.8	18.4 V	691
1997 BD ₅	1997 02 02.29531	09 19 05.63	+12 53 49.6	20.2 V	691	1997 BK ₅	1997 02 03.35982	09 23 19.30	+12 53 01.0	18.3 V	691
1997 BD ₅	1997 02 02.36203	09 19 01.63	+12 54 08.2	20.4 V	691	1997 BL ₅	* 1997 01 31.37180	09 26 28.09	+12 54 59.0	19.6 V	691
1997 BD ₅	1997 02 02.39442	09 18 59.72	+12 54 17.7	20.3 V	691	1997 BL ₅	1997 01 31.39487	09 26 26.90	+12 55 08.2	19.6 V	691
1997 BD ₅	1997 02 03.33406	09 18 05.16	+12 58 47.7	20.4 V	691	1997 BL ₅	1997 01 31.41675	09 26 25.75	+12 55 16.2	19.8 V	691
1997 BD ₅	1997 02 03.34530	09 18 04.48	+12 58 51.9	20.3 V	691	1997 BL ₅	1997 02 02.29930	09 24 50.59	+13 07 13.5	19.6 V	691
1997 BD ₅	1997 02 03.35649	09 18 03.81	+12 58 54.4	19.9 V	691	1997 BL ₅	1997 02 02.39841	09 24 45.36	+13 07 51.3	19.8 V	691
1997 BE ₅	* 1997 01 31.36812	09 21 09.43	+12 33 45.0	20.9 V	691	1997 BM ₅	* 1997 01 31.37195	09 26 41.53	+12 45 14.4	19.8 V	691
1997 BE ₅	1997 01 31.39119	09 21 08.19	+12 33 53.0	21.1 V	691	1997 BM ₅	1997 01 31.39502	09 26 40.49	+12 45 25.4	19.5 V	691
1997 BE ₅	1997 01 31.41308	09 21 07.04	+12 34 00.3	21.0 V	691	1997 BM ₅	1997 01 31.41691	09 26 39.45	+12 45 36.0	20.0 V	691
1997 BE ₅	1997 02 02.29557	09 19 27.85	+12 45 15.2	20.7 V	691	1997 BM ₅	1997 02 02.29959	09 25 16.02	+13 00 34.6	19.7 V	691
1997 BE ₅	1997 02 02.39468	09 19 22.38	+12 45 50.4	21.1 V	691	1997 BM ₅	1997 02 02.36632	09 25 12.93	+13 01 06.7	19.9 V	691
1997 BF ₅	* 1997 01 31.36901	09 22 26.90	+12 57 42.8	20.5 V	691	1997 BM ₅	1997 02 02.39871	09 25 11.43	+13 01 22.0	19.9 V	691
1997 BF ₅	1997 01 31.39208	09 22 25.50	+12 57 49.9	20.5 V	691	1997 BM ₅	1997 02 03.33819	09 24 29.34	+13 08 53.9	19.7 V	691
1997 BF ₅	1997 01 31.41397	09 22 24.14	+12 57 56.3	20.5 V	691	1997 BM ₅	1997 02 03.34943	09 24 28.82	+13 08 59.4	19.7 V	691
1997 BF ₅	1997 02 02.29630	09 20 31.26	+13 07 24.2	20.2 V	691	1997 BM ₅	1997 02 03.36062	09 24 28.31	+13 09 04.9	19.7 V	691
1997 BF ₅	1997 02 02.36302	09 20 27.11	+13 07 44.3	20.3 V	691	1997 BN ₅	* 1997 01 31.37218	09 27 01.36	+12 31 43.7	20.0 V	691
1997 BF ₅	1997 02 02.39540	09 20 25.07	+13 07 54.2	20.5 V	691	1997 BN ₅	1997 01 31.39525	09 27 00.29	+12 31 48.6	20.6 V	691
1997 BG ₅	* 1997 01 31.37051	09 24 36.46	+12 40 55.7	20.9 V	691	1997 BN ₅	1997 01 31.41714	09 26 59.08	+12 31 54.2	21.1 V	691
1997 BG ₅	1997 01 31.39357	09 24 34.90	+12 41 01.8	21.2 V	691	1997 BN ₅	1997 02 02.29968	09 25 24.05	+12 40 44.2	21.7 V	691
1997 BG ₅	1997 01 31.41546	09 24 33.45	+12 41 07.8	20.9 V	691	1997 BN ₅	1997 02 02.36641	09 25 20.48	+12 41 02.7	20.8 V	691
1997 BG ₅	1997 02 02.29768	09 22 30.43	+12 49 28.5	21.0 V	691	1997 BN ₅	1997 02 02.39879	09 25 18.80	+12 41 11.6	20.9 V	691
1997 BG ₅	1997 02 02.36439	09 22 25.89	+12 49 46.7	21.0 V	691	1997 BN ₅	1997 02 03.33821	09 24 30.87	+12 45 39.0	20.9 V	691
1997 BG ₅	1997 02 02.39677	09 22 23.71	+12 49 54.8	21.1 V	691	1997 BN ₅	1997 02 03.34944	09 24 30.29	+12 45 42.1	20.7 V	691
1997 BG ₅	1997 02 03.33603	09 21 21.89	+12 54 07.2	20.6 V	691	1997 BN ₅	1997 02 03.36063	09 24 29.69	+12 45 45.5	20.9 V	691
1997 BG ₅	1997 02 03.34726	09 21 21.13	+12 54 10.4	20.9 V	691	1997 BO ₅	* 1997 01 31.37220	09 27 02.89	+12 44 33.6	19.0 V	691
1997 BG ₅	1997 02 03.35845	09 21 20.34	+12 54 13.7	21.4 V	691	1997 BO ₅	1997 01 31.39527	09 27 01.66	+12 44 35.2	19.3 V	691
1997 BH ₅	* 1997 01 31.37056	09 24 41.36	+12 59 08.3	20.9 V	691	1997 BO ₅	1997 01 31.41716	09 27 00.42	+12 44 36.1	19.3 V	691
1997 BH ₅	1997 01 31.39363	09 24 39.85	+12 59 07.3	20.7 V	691	1997 BO ₅	1997 02 02.29962	09 25 18.99	+12 46 00.0	19.1 V	691
1997 BH ₅	1997 01 31.41552	09 24 38.42	+12 59 05.5	21.0 V	691	1997 BO ₅	1997 02 02.36635	09 25 15.24	+12 46 03.2	19.5 V	691
1997 BH ₅	1997 02 02.29776	09 22 37.80	+12 57 04.4	20.7 V	691	1997 BO ₅	1997 02 02.39873	09 25 13.42	+12 46 04.4	19.3 V	691
1997 BH ₅	1997 02 02.36448	09 22 33.42	+12 57 01.7	20.4 V	691	1997 BO ₅	1997 02 03.33811	09 24 22.32	+12 46 48.8	19.4 V	691
1997 BH ₅	1997 02 02.39686	09 22 31.19	+12 56 58.2	20.8 V	691	1997 BO ₅	1997 02 03.34935	09 24 21.66	+12 46 49.5	19.3 V	691
1997 BH ₅	1997 02 07.32540	09 17 10.30	+12 52 03.8	21.0 V	691	1997 BO ₅	1997 02 03.36053	09 24 21.03	+12 46 50.3	19.0 V	691
1997 BH ₅	1997 02 07.34715	09 17 08.80	+12 52 02.3	20.6 V	691	1997 BB ₆	* 1997 01 31.30814	09 33 32.06	+13 02 53.6	19.8 V	691
1997 BH ₅	1997 02 07.36877	09 17 07.35	+12 52 00.8	21.0 V	691	1997 BB ₆	1997 01 31.33000	09 33 30.73	+13 02 54.6	19.3 V	691
1997 BJ ₅	* 1997 01 31.37165	09 26 15.33	+12 44 15.7	18.1 V	691	1997 BB ₆	1997 01 31.35132	09 33 29.51	+13 02 55.9	19.2 V	691
1997 BJ ₅	1997 01 31.39472	09 26 14.17	+12 44 18.0	18.3 V	691	1997 BB ₆	1997 02 03.34243	09 30 36.29	+13 06 05.5	19.4 V	691
1997 BJ ₅	1997 01 31.41661	09 26 13.04	+12 44 20.2	18.4 V	691	1997 BB ₆	1997 02 03.35366	09 30 35.63	+13 06 06.4	19.3 V	691
1997 BJ ₅	1997 02 02.29917	09 24 39.58	+12 47 22.6	18.0 V	691	1997 BB ₆	1997 02 03.36485	09 30 34.96	+13 06 07.2	19.2 V	691
1997 BJ ₅	1997 02 02.36590	09 24 36.15	+12 47 29.1	18.0 V	691	1997 BC ₆	* 1997 01 31.36926	09 22 48.61	+12 50 27.5	21.2 V	691
1997 BJ ₅	1997 02 02.39828	09 24 34.49	+12 47 32.2	17.9 V	691	1997 BC ₆	1997 01 31.41422	09 22 46.16	+12 50 37.9	21.2 V	691
1997 BJ ₅	1997 02 07.32768	09 20 27.30	+12 55 46.9	17.9 V	691	1997 BC ₆	1997 02 02.36344	09 21 03.22	+12 58 33.0	21.2 V	691
1997 BJ ₅	1997 02 07.34943	09 20 26.20	+12 55 49.1	17.9 V	691	1997 BC ₆	1997 02 02.39582	09 21 01.46	+12 58 40.9	21.2 V	691
1997 BJ ₅	1997 02 07.37105	09 20 25.07	+12 55 51.1	17.9 V	691	1997 BC ₆	1997 02 03.33522	09 20 11.52	+13 02 31.8	20.5 V	691
1997 BK ₅	* 1997 01 31.37169	09 26 18.56	+12 39 28.1	18.4 V	691	1997 BC ₆	1997 02 03.34645	09 20 10.98	+13 02 34.5	21.4 V	691
1997 BK ₅	1997 01 31.39476	09 26 17.14	+12 39 34.2	18.6 V	691	1997 BC ₆	1997 02 03.35764	09 20 10.34	+13 02 38.0	20.9 V	691
1997 BK ₅	1997 01 31.41664	09 26 15.78	+12 39 40.0	18.9 V	691	1997 BD ₆	* 1997 01 31.37320	09 28 29.46	+12 30 02.6	20.5 V	691
1997 BK ₅	1997 02 02.29899	09 24 23.88	+12 48 07.9	18.4 V	691	1997 BD ₆	1997 01 31.41816	09 28 27.13	+12 30 13.6	20.2 V	691

1997 BD ₆	1997 02 03.33926	09 26 01.62	+12 42 48.3	20.7 V	691	1997 BM ₆	1997 02 03.35247	09 28 52.38	+12 48 18.5	19.0 V	691
1997 BD ₆	1997 02 03.36168	09 26 00.48	+12 42 54.7	20.8 V	691	1997 BM ₆	1997 02 03.36366	09 28 51.73	+12 48 23.0	18.9 V	691
1997 BD ₆	1997 02 07.32920	09 22 39.15	+13 00 26.6	20.5 V	691	1997 BN ₆	* 1997 01 31.37599	09 32 31.76	+12 46 38.8	20.9 V	691
1997 BD ₆	1997 02 07.37257	09 22 36.86	+13 00 38.8	20.1 V	691	1997 BN ₆	1997 01 31.39907	09 32 30.57	+12 46 46.6	21.3 V	691
1997 BE ₆	* 1997 01 31.37327	09 28 35.98	+12 38 55.4	19.3 V	691	1997 BN ₆	1997 01 31.42095	09 32 29.37	+12 46 53.7	20.6 V	691
1997 BE ₆	1997 01 31.39635	09 28 34.90	+12 39 05.8	19.3 V	691	1997 BN ₆	1997 02 03.34199	09 29 57.81	+13 03 08.4	21.0 V	691
1997 BE ₆	1997 01 31.41823	09 28 33.87	+12 39 14.5	19.4 V	691	1997 BN ₆	1997 02 03.35322	09 29 57.19	+13 03 11.5	21.3 V	691
1997 BE ₆	1997 02 03.33947	09 26 19.57	+13 00 19.8	19.5 V	691	1997 BN ₆	1997 02 03.36441	09 29 56.56	+13 03 14.9	20.9 V	691
1997 BE ₆	1997 02 03.35070	09 26 19.05	+13 00 24.7	19.3 V	691	1997 BN ₆	1997 02 11.32437	09 22 50.80	+13 48 43.5	20.8 V	691
1997 BE ₆	1997 02 03.36189	09 26 18.49	+13 00 29.5	19.5 V	691	1997 BN ₆	1997 02 11.34642	09 22 49.60	+13 48 51.1	20.9 V	691
1997 BE ₆	1997 02 11.32243	09 20 02.34	+13 59 12.5	19.2 V	691	1997 BN ₆	1997 02 11.39111	09 22 47.08	+13 49 06.0	21.3 V	691
1997 BE ₆	1997 02 11.38917	09 19 59.08	+13 59 41.9	19.6 V	691	1997 BX ₆	1997 02 07.20078	08 31 14.05	+20 12 38.0	18.6 V	691
1997 BF ₆	* 1997 01 31.37341	09 28 47.54	+12 40 17.1	21.3 V	691	1997 BX ₆	1997 02 07.22300	08 31 12.50	+20 12 40.6	18.6 V	691
1997 BF ₆	1997 01 31.39647	09 28 46.10	+12 40 25.8	21.4 V	691	1997 BX ₆	1997 02 07.24521	08 31 10.99	+20 12 44.3	18.6 V	691
1997 BF ₆	1997 01 31.41836	09 28 44.72	+12 40 34.1	21.2 V	691	1997 BX ₆	1997 02 14.19436	08 23 53.02	+20 25 10.5	18.6 V	691
1997 BF ₆	1997 02 03.33905	09 25 43.58	+12 59 34.7	21.2 V	691	1997 BX ₆	1997 02 14.21688	08 23 51.63	+20 25 12.7	18.7 V	691
1997 BF ₆	1997 02 03.35028	09 25 42.90	+12 59 39.5	21.0 V	691	1997 BX ₆	1997 02 14.23930	08 23 50.29	+20 25 14.5	18.8 V	691
1997 BF ₆	1997 02 03.36147	09 25 42.20	+12 59 43.3	20.8 V	691	1997 BG ₇	1997 01 02.40741	09 32 03.68	+13 37 04.3	19.7 V	691
1997 BG ₆	* 1997 01 31.37357	09 29 01.53	+12 50 07.9	20.4 V	691	1997 BG ₇	1997 01 02.43094	09 32 03.15	+13 37 11.4	19.7 V	691
1997 BG ₆	1997 01 31.41853	09 28 59.08	+12 50 16.1	20.4 V	691	1997 BG ₇	1997 01 02.45403	09 32 02.71	+13 37 18.5	19.8 V	691
1997 BG ₆	1997 02 03.33950	09 26 22.88	+12 59 31.1	20.7 V	691	1997 BL ₇	* 1997 01 31.17069	08 17 08.73	+20 54 07.4	19.9 V	691
1997 BG ₆	1997 02 03.35074	09 26 22.20	+12 59 33.6	20.5 V	691	1997 BL ₇	1997 01 31.19442	08 17 07.15	+20 54 08.6	19.9 V	691
1997 BG ₆	1997 02 03.36193	09 26 21.64	+12 59 35.7	20.7 V	691	1997 BL ₇	1997 01 31.21671	08 17 05.65	+20 54 09.6	20.2 V	691
1997 BH ₆	* 1997 01 31.37425	09 30 00.97	+12 49 34.5	19.9 V	691	1997 BL ₇	1997 02 06.24332	08 10 52.57	+20 57 01.9	20.8 V	691
1997 BH ₆	1997 01 31.39732	09 29 59.73	+12 49 41.5	19.8 V	691	1997 BL ₇	1997 02 06.26594	08 10 51.21	+20 57 02.2	20.8 V	691
1997 BH ₆	1997 01 31.41921	09 29 58.56	+12 49 48.1	20.0 V	691	1997 BM ₇	* 1997 01 31.36565	09 17 35.70	+12 29 22.3	20.4 V	691
1997 BH ₆	1997 02 03.34022	09 27 25.19	+13 05 06.8	19.9 V	691	1997 BM ₇	1997 01 31.38872	09 17 34.32	+12 29 27.5	20.9 V	691
1997 BH ₆	1997 02 03.35146	09 27 24.59	+13 05 09.9	19.9 V	691	1997 BM ₇	1997 01 31.41061	09 17 33.14	+12 29 33.5	20.7 V	691
1997 BH ₆	1997 02 03.36265	09 27 23.97	+13 05 14.1	19.9 V	691	1997 BM ₇	1997 02 07.32118	09 11 04.76	+12 58 35.8	21.2 V	691
1997 BH ₆	1997 02 11.32261	09 20 17.94	+13 47 40.5	19.9 V	691	1997 BM ₇	1997 02 07.34293	09 11 03.53	+12 58 41.9	21.0 V	691
1997 BH ₆	1997 02 11.38934	09 20 14.25	+13 48 01.6	20.4 V	691	1997 BM ₇	1997 02 07.36455	09 11 02.25	+12 58 47.5	20.9 V	691
1997 BJ ₆	* 1997 01 31.37431	09 30 05.41	+12 39 51.5	20.3 V	691	1997 BN ₇	* 1997 01 31.36586	09 17 53.74	+12 41 35.0	20.7 V	691
1997 BJ ₆	1997 01 31.39737	09 30 04.03	+12 40 02.5	20.7 V	691	1997 BN ₇	1997 01 31.38893	09 17 52.38	+12 41 35.6	21.0 V	691
1997 BJ ₆	1997 01 31.41926	09 30 02.70	+12 40 12.2	20.8 V	691	1997 BN ₇	1997 01 31.41081	09 17 50.99	+12 41 36.5	20.8 V	691
1997 BJ ₆	1997 02 03.34003	09 27 08.17	+13 02 48.4	20.3 V	691	1997 BN ₇	1997 02 07.32116	09 11 03.04	+12 44 54.5	21.2 V	691
1997 BJ ₆	1997 02 03.35126	09 27 07.49	+13 02 53.3	20.7 V	691	1997 BN ₇	1997 02 07.34291	09 11 01.72	+12 44 55.4	20.8 V	691
1997 BJ ₆	1997 02 03.36245	09 27 06.82	+13 02 59.1	20.5 V	691	1997 BN ₇	1997 02 07.36453	09 11 00.38	+12 44 55.3	20.7 V	691
1997 BK ₆	* 1997 01 31.37505	09 31 10.30	+12 44 12.5	20.7 V	691	1997 BN ₇	1997 02 11.28968	09 07 12.13	+12 47 02.2	21.0 V	691
1997 BK ₆	1997 01 31.42001	09 31 07.42	+12 44 29.5	20.4 V	691	1997 BN ₇	1997 02 11.29765	09 07 11.63	+12 47 02.7	20.6 V	691
1997 BK ₆	1997 02 03.34069	09 28 05.45	+13 02 49.6	21.2 V	691	1997 BN ₇	1997 02 11.30504	09 07 11.18	+12 47 02.4	20.9 V	691
1997 BK ₆	1997 02 03.35192	09 28 04.73	+13 02 53.8	20.8 V	691	1997 BO ₇	* 1997 01 31.36716	09 19 46.13	+12 35 30.9	19.2 V	691
1997 BK ₆	1997 02 03.36311	09 28 04.00	+13 02 58.4	20.7 V	691	1997 BO ₇	1997 01 31.39023	09 19 44.88	+12 35 34.3	19.3 V	691
1997 BL ₆	* 1997 01 31.37527	09 31 29.24	+12 35 55.3	20.9 V	691	1997 BO ₇	1997 01 31.41211	09 19 43.68	+12 35 38.2	19.2 V	691
1997 BL ₆	1997 01 31.39834	09 31 27.92	+12 36 02.2	20.8 V	691	1997 BO ₇	1997 02 07.32293	09 13 36.18	+12 54 07.6	19.5 V	691
1997 BL ₆	1997 01 31.42023	09 31 26.59	+12 36 09.6	21.3 V	691	1997 BO ₇	1997 02 07.34468	09 13 34.99	+12 54 11.7	19.3 V	691
1997 BL ₆	1997 02 03.34108	09 28 39.37	+12 52 06.7	21.1 V	691	1997 BO ₇	1997 02 07.36630	09 13 33.79	+12 54 15.0	19.4 V	691
1997 BL ₆	1997 02 03.35231	09 28 38.68	+12 52 10.5	20.8 V	691	1997 BO ₇	1997 02 11.29165	09 10 03.11	+13 05 12.8	19.4 V	691
1997 BL ₆	1997 02 03.36350	09 28 38.03	+12 52 13.8	21.0 V	691	1997 BO ₇	1997 02 11.29962	09 10 02.67	+13 05 14.1	19.3 V	691
1997 BM ₆	* 1997 01 31.37533	09 31 33.99	+12 33 57.0	20.4 V	691	1997 BO ₇	1997 02 11.30702	09 10 02.27	+13 05 15.5	19.4 V	691
1997 BM ₆	1997 01 31.39840	09 31 32.71	+12 34 02.9	20.4 V	691	1997 BO ₇	1997 02 15.27082	09 06 33.15	+13 16 18.9	19.6 V	691
1997 BM ₆	1997 01 31.42029	09 31 31.53	+12 34 08.9	20.2 V	691	1997 BO ₇	1997 02 15.30211	09 06 31.46	+13 16 23.9	19.6 V	691
1997 BM ₆	1997 02 03.34124	09 28 53.01	+12 48 14.3	18.9 V	691	1997 BO ₇	1997 02 15.33179	09 06 29.85	+13 16 28.8	19.5 V	691

1997 BP ₇	* 1997 01 31.36718	09 19 48.20	+12 41 39.9	20.3 V	691	1997 BX ₇	1997 01 31.48392	10 34 57.58	+11 06 23.3	19.8 V	691
1997 BP ₇	1997 01 31.39025	09 19 46.75	+12 41 45.9	20.4 V	691	1997 BX ₇	1997 02 06.40798	10 31 21.38	+11 32 16.3	19.8 V	691
1997 BP ₇	1997 01 31.41213	09 19 45.32	+12 41 52.1	20.3 V	691	1997 BX ₇	1997 02 06.42976	10 31 20.46	+11 32 21.8	20.1 V	691
1997 BP ₇	1997 02 02.36156	09 17 46.14	+12 50 44.1	20.2 V	691	1997 BX ₇	1997 02 06.45116	10 31 19.60	+11 32 27.4	20.0 V	691
1997 BP ₇	1997 02 02.39395	09 17 44.10	+12 50 53.3	20.1 V	691	1997 BY ₇	* 1997 01 31.44210	10 36 01.52	+11 07 42.3	18.9 V	691
1997 BQ ₇	* 1997 01 31.37183	09 26 30.61	+12 34 03.9	20.4 V	691	1997 BY ₇	1997 01 31.46336	10 36 00.76	+11 07 45.8	18.4 V	691
1997 BQ ₇	1997 01 31.39490	09 26 29.41	+12 34 05.3	20.4 V	691	1997 BY ₇	1997 01 31.48464	10 35 59.87	+11 07 49.2	18.4 V	691
1997 BQ ₇	1997 01 31.41678	09 26 28.26	+12 34 08.1	20.9 V	691	1997 BY ₇	1997 02 06.40844	10 32 01.49	+11 25 14.3	19.0 V	691
1997 BQ ₇	1997 02 07.32770	09 20 29.37	+12 45 32.6	21.3 V	691	1997 BY ₇	1997 02 06.43022	10 32 00.55	+11 25 18.4	18.4 V	691
1997 BQ ₇	1997 02 07.34945	09 20 28.21	+12 45 35.4	21.0 V	691	1997 BY ₇	1997 02 06.45163	10 31 59.62	+11 25 22.2	18.3 V	691
1997 BQ ₇	1997 02 07.37108	09 20 27.02	+12 45 37.3	20.6 V	691	1997 BZ ₇	* 1997 01 31.44228	10 36 16.81	+11 17 42.8	20.5 V	691
1997 BR ₇	* 1997 01 31.37274	09 27 49.85	+12 29 18.0	20.1 V	691	1997 BZ ₇	1997 01 31.46354	10 36 15.99	+11 17 45.1	20.2 V	691
1997 BR ₇	1997 01 31.39581	09 27 48.55	+12 29 23.8	20.5 V	691	1997 BZ ₇	1997 01 31.48481	10 36 15.04	+11 17 46.7	20.2 V	691
1997 BR ₇	1997 01 31.41770	09 27 47.23	+12 29 30.0	20.3 V	691	1997 BZ ₇	1997 02 06.40839	10 31 57.05	+11 30 24.6	20.6 V	691
1997 BR ₇	1997 02 07.32807	09 21 01.71	+13 00 52.2	20.5 V	691	1997 BZ ₇	1997 02 06.43017	10 31 56.06	+11 30 26.9	20.5 V	691
1997 BR ₇	1997 02 07.34982	09 21 00.42	+13 00 58.4	20.4 V	691	1997 BZ ₇	1997 02 06.45157	10 31 55.05	+11 30 29.9	20.2 V	691
1997 BR ₇	1997 02 07.37144	09 20 59.04	+13 01 04.4	20.2 V	691	1997 BA ₈	* 1997 01 31.44230	10 36 18.90	+11 04 58.5	20.4 V	691
1997 BS ₇	* 1997 01 31.37479	09 30 47.54	+12 29 21.5	20.8 V	691	1997 BA ₈	1997 01 31.46356	10 36 17.98	+11 05 01.7	20.4 V	691
1997 BS ₇	1997 01 31.39786	09 30 46.27	+12 29 25.8	21.4 V	691	1997 BA ₈	1997 01 31.48483	10 36 16.89	+11 05 05.5	20.4 V	691
1997 BS ₇	1997 01 31.41975	09 30 45.06	+12 29 30.2	21.5 V	691	1997 BA ₈	1997 02 06.40803	10 31 25.89	+11 23 16.1	20.7 V	691
1997 BS ₇	1997 02 07.33044	09 24 26.47	+12 51 36.7	21.4 V	691	1997 BA ₈	1997 02 06.42981	10 31 24.73	+11 23 19.9	20.6 V	691
1997 BS ₇	1997 02 07.35219	09 24 25.18	+12 51 41.1	21.1 V	691	1997 BA ₈	1997 02 06.45121	10 31 23.58	+11 23 24.3	20.4 V	691
1997 BS ₇	1997 02 07.37381	09 24 23.95	+12 51 45.2	21.1 V	691	1997 BB ₈	* 1997 01 31.50089	11 51 22.97	+05 14 57.8	20.5 V	691
1997 BT ₇	* 1997 01 31.43578	10 26 53.83	+11 03 12.5	19.2 V	691	1997 BB ₈	1997 01 31.51820	11 51 22.58	+05 14 59.2	20.6 V	691
1997 BT ₇	1997 01 31.45704	10 26 52.74	+11 03 16.5	19.0 V	691	1997 BB ₈	1997 01 31.53553	11 51 22.25	+05 15 00.8	20.4 V	691
1997 BT ₇	1997 01 31.47831	10 26 51.60	+11 03 20.0	19.2 V	691	1997 BB ₈	1997 02 06.47531	11 49 10.26	+05 25 58.6	20.8 V	691
1997 BT ₇	1997 02 06.40117	10 21 31.48	+11 22 00.2	19.1 V	691	1997 BB ₈	1997 02 06.49650	11 49 09.67	+05 26 01.4	20.2 V	691
1997 BT ₇	1997 02 06.42295	10 21 30.16	+11 22 04.2	19.3 V	691	1997 BB ₈	1997 02 06.51781	11 49 09.01	+05 26 04.0	20.2 V	691
1997 BT ₇	1997 02 06.44434	10 21 28.87	+11 22 08.5	18.9 V	691	1997 BC ₈	* 1997 01 31.50109	11 51 40.21	+05 14 13.6	20.3 V	691
1997 BU ₇	* 1997 01 31.43609	10 27 21.30	+11 23 00.2	18.1 V	691	1997 BC ₈	1997 01 31.51839	11 51 39.73	+05 14 11.6	20.6 V	691
1997 BU ₇	1997 01 31.45735	10 27 20.12	+11 23 02.0	18.1 V	691	1997 BC ₈	1997 01 31.53573	11 51 39.28	+05 14 09.9	20.5 V	691
1997 BU ₇	1997 01 31.47862	10 27 18.95	+11 23 03.4	18.0 V	691	1997 BC ₈	1997 02 06.47494	11 48 38.07	+05 06 28.9	20.6 V	691
1997 BU ₇	1997 02 06.40127	10 21 40.75	+11 31 40.1	18.2 V	691	1997 BC ₈	1997 02 06.49612	11 48 37.30	+05 06 27.1	20.3 V	691
1997 BU ₇	1997 02 06.42305	10 21 39.45	+11 31 41.8	18.1 V	691	1997 BC ₈	1997 02 06.51743	11 48 36.47	+05 06 25.8	20.2 V	691
1997 BU ₇	1997 02 06.44445	10 21 38.11	+11 31 43.9	18.1 V	691	1997 BD ₈	* 1997 01 31.50125	11 51 54.03	+05 07 51.7	21.1 V	691
1997 BV ₇	* 1997 01 31.43901	10 31 33.92	+11 07 02.5	20.4 V	691	1997 BD ₈	1997 01 31.51856	11 51 53.66	+05 07 53.1	20.4 V	691
1997 BV ₇	1997 01 31.46027	10 31 32.82	+11 07 01.9	20.2 V	691	1997 BD ₈	1997 01 31.53589	11 51 53.29	+05 07 56.2	20.6 V	691
1997 BV ₇	1997 01 31.48154	10 31 31.82	+11 07 01.1	20.1 V	691	1997 BD ₈	1997 02 06.47554	11 49 30.31	+05 23 08.6	20.7 V	691
1997 BV ₇	1997 02 06.40452	10 26 22.14	+11 06 36.9	20.6 V	691	1997 BD ₈	1997 02 06.49673	11 49 29.68	+05 23 11.1	20.7 V	691
1997 BV ₇	1997 02 06.42630	10 26 20.82	+11 06 35.7	20.8 V	691	1997 BD ₈	1997 02 06.51804	11 49 29.09	+05 23 15.3	20.6 V	691
1997 BV ₇	1997 02 06.44770	10 26 19.57	+11 06 35.7	20.0 V	691	1997 BE ₈	* 1997 01 31.50173	11 52 35.49	+05 21 02.1	19.9 V	691
1997 BV ₇	1997 02 11.40742	10 21 32.87	+11 07 17.5	20.3 V	691	1997 BE ₈	1997 01 31.51903	11 52 35.15	+05 20 58.8	19.8 V	691
1997 BV ₇	1997 02 11.42903	10 21 31.49	+11 07 17.1	20.0 V	691	1997 BE ₈	1997 01 31.53637	11 52 34.92	+05 20 54.3	19.9 V	691
1997 BV ₇	1997 02 11.45472	10 21 29.97	+11 07 17.9	20.4 V	691	1997 BE ₈	1997 02 07.47627	11 50 05.88	+04 57 52.3	20.2 V	691
1997 BW ₇	* 1997 01 31.44060	10 33 51.63	+11 02 29.7	19.7 V	691	1997 BE ₈	1997 02 07.49723	11 50 05.28	+04 57 47.9	20.0 V	691
1997 BW ₇	1997 01 31.46186	10 33 50.64	+11 02 35.5	19.9 V	691	1997 BE ₈	1997 02 07.51831	11 50 04.65	+04 57 44.3	20.1 V	691
1997 BW ₇	1997 01 31.48313	10 33 49.55	+11 02 41.6	19.7 V	691	1997 BF ₈	* 1997 01 31.50894	12 03 00.21	+05 05 17.1	20.0 V	691
1997 BW ₇	1997 02 06.40620	10 28 47.49	+11 32 13.9	19.8 V	691	1997 BF ₈	1997 01 31.52625	12 02 59.98	+05 05 18.9	19.9 V	691
1997 BW ₇	1997 02 06.42798	10 28 46.24	+11 32 20.3	19.9 V	691	1997 BF ₈	1997 01 31.54358	12 02 59.69	+05 05 21.9	20.2 V	691
1997 BW ₇	1997 02 06.44938	10 28 45.00	+11 32 27.2	19.4 V	691	1997 BF ₈	1997 02 06.48364	12 01 12.19	+05 22 33.1	20.5 V	691
1997 BX ₇	* 1997 01 31.44138	10 34 59.04	+11 06 13.2	20.1 V	691	1997 BF ₈	1997 02 06.50483	12 01 11.73	+05 22 37.0	20.2 V	691
1997 BX ₇	1997 01 31.46264	10 34 58.35	+11 06 17.6	19.8 V	691	1997 BF ₈	1997 02 06.52615	12 01 11.23	+05 22 41.6	20.5 V	691

1997 BJ ₈	* 1997 01 31.23774	09 26 19.07	+13 33 47.8	19.7 V	691	1997 BU ₈	* 1997 01 31.24056	09 30 23.17	+13 51 17.2	18.6 V	691
1997 BJ ₈	1997 01 31.25934	09 26 17.96	+13 33 49.6	19.7 V	691	1997 BU ₈	1997 01 31.26216	09 30 21.99	+13 51 23.3	18.5 V	691
1997 BJ ₈	1997 01 31.28074	09 26 16.83	+13 33 51.1	19.8 V	691	1997 BU ₈	1997 01 31.28355	09 30 20.81	+13 51 29.2	18.8 V	691
1997 BJ ₈	1997 02 11.32015	09 16 45.11	+13 51 30.6	19.6 V	691	1997 BV ₈	* 1997 01 31.24197	09 32 25.58	+14 01 48.4	19.6 V	691
1997 BJ ₈	1997 02 11.38689	09 16 41.59	+13 51 36.8	19.9 V	691	1997 BV ₈	1997 01 31.26357	09 32 24.22	+14 01 57.5	19.5 V	691
1997 BK ₈	* 1997 01 31.23894	09 28 03.18	+13 58 44.1	20.9 V	691	1997 BV ₈	1997 01 31.28496	09 32 22.89	+14 02 06.5	19.4 V	691
1997 BK ₈	1997 01 31.26054	09 28 01.77	+13 58 42.2	20.8 V	691	1997 BW ₈	* 1997 01 31.29114	09 08 59.49	+13 06 33.6	18.9 V	691
1997 BK ₈	1997 01 31.28193	09 28 00.37	+13 58 41.0	20.6 V	691	1997 BW ₈	1997 01 31.31300	09 08 58.02	+13 06 38.5	19.2 V	691
1997 BK ₈	1997 02 11.31965	09 16 01.57	+13 48 12.3	20.3 V	691	1997 BW ₈	1997 01 31.33431	09 08 56.58	+13 06 43.9	19.0 V	691
1997 BK ₈	1997 02 11.38638	09 15 57.11	+13 48 08.8	20.7 V	691	1997 BX ₈	* 1997 01 31.30350	09 26 50.23	+13 04 16.2	19.1 V	691
1997 BL ₈	* 1997 01 31.30287	09 25 55.51	+13 04 44.0	20.7 V	691	1997 BX ₈	1997 01 31.32536	09 26 48.72	+13 04 23.6	19.0 V	691
1997 BL ₈	1997 01 31.32473	09 25 54.21	+13 04 48.6	20.7 V	691	1997 BX ₈	1997 01 31.34667	09 26 47.30	+13 04 29.5	18.9 V	691
1997 BL ₈	1997 01 31.34605	09 25 52.97	+13 04 53.4	20.5 V	691	1997 BY ₈	* 1997 01 31.35921	09 07 49.51	+12 58 12.0	18.4 V	691
1997 BL ₈	1997 02 11.31908	09 15 12.56	+13 47 23.7	20.5 V	691	1997 BY ₈	1997 01 31.38229	09 07 48.29	+12 58 14.5	18.6 V	691
1997 BL ₈	1997 02 11.38581	09 15 08.54	+13 47 39.2	20.7 V	691	1997 BY ₈	1997 01 31.40418	09 07 47.14	+12 58 17.4	18.7 V	691
1997 BM ₈	* 1997 01 31.30780	09 33 02.52	+13 06 25.8	18.1 V	691	1997 BZ ₈	* 1997 01 31.35949	09 08 36.60	+12 57 17.4	18.6 V	691
1997 BM ₈	1997 01 31.32966	09 33 01.05	+13 06 30.2	18.1 V	691	1997 BZ ₈	1997 01 31.38256	09 08 35.14	+12 57 21.8	18.7 V	691
1997 BM ₈	1997 01 31.35097	09 32 59.64	+13 06 34.6	18.0 V	691	1997 BZ ₈	1997 01 31.40445	09 08 33.76	+12 57 26.5	18.7 V	691
1997 BM ₈	1997 02 11.32296	09 20 48.68	+13 45 22.0	18.1 V	691	1997 BA ₉	* 1997 01 31.37179	09 26 27.22	+12 51 35.3	18.6 V	691
1997 BM ₈	1997 02 11.34501	09 20 47.26	+13 45 26.6	18.1 V	691	1997 BA ₉	1997 01 31.39486	09 26 25.91	+12 51 45.9	18.7 V	691
1997 BM ₈	1997 02 11.38969	09 20 44.06	+13 45 36.0	18.1 V	691	1997 BA ₉	1997 01 31.41674	09 26 24.64	+12 51 55.7	18.6 V	691
1997 BN ₈	* 1997 01 31.36322	09 14 04.92	+12 33 40.9	20.2 V	691	1997 CC	* 1997 02 01.26767	09 06 19.78	+21 41 30.9	19.6 V	691
1997 BN ₈	1997 01 31.38629	09 14 03.78	+12 33 44.3	20.6 V	691	1997 CC	1997 02 01.29755	09 06 18.21	+21 41 39.9	19.8 V	691
1997 BN ₈	1997 01 31.40818	09 14 02.68	+12 33 47.8	20.4 V	691	1997 CC	1997 02 01.33738	09 06 16.11	+21 41 50.5	19.8 V	691
1997 BN ₈	1997 02 11.28834	09 05 16.18	+13 03 35.0	20.3 V	691	1997 CC	1997 02 02.21730	09 05 31.03	+21 45 54.0	19.8 V	691
1997 BN ₈	1997 02 11.29631	09 05 15.75	+13 03 36.1	20.2 V	691	1997 CC	1997 02 02.23963	09 05 29.83	+21 46 00.3	19.8 V	691
1997 BN ₈	1997 02 11.30371	09 05 15.40	+13 03 37.0	20.2 V	691	1997 CC	1997 02 02.26202	09 05 28.67	+21 46 06.1	19.7 V	691
1997 BO ₈	* 1997 01 31.36449	09 15 54.93	+12 30 10.5	19.9 V	691	1997 CD	* 1997 02 01.26786	09 06 35.93	+21 52 44.1	20.3 V	691
1997 BO ₈	1997 01 31.38755	09 15 53.43	+12 30 13.4	20.0 V	691	1997 CD	1997 02 01.29774	09 06 34.13	+21 52 51.7	20.6 V	691
1997 BO ₈	1997 01 31.40944	09 15 52.02	+12 30 16.7	20.3 V	691	1997 CD	1997 02 01.33756	09 06 31.67	+21 53 00.4	20.7 V	691
1997 BO ₈	1997 02 11.28781	09 04 16.55	+12 57 46.6	20.0 V	691	1997 CD	1997 02 02.21740	09 05 39.62	+21 56 25.2	20.5 V	691
1997 BO ₈	1997 02 11.29578	09 04 16.02	+12 57 47.6	20.0 V	691	1997 CD	1997 02 02.23973	09 05 38.26	+21 56 30.3	20.6 V	691
1997 BO ₈	1997 02 11.30318	09 04 15.56	+12 57 49.1	20.2 V	691	1997 CD	1997 02 02.26212	09 05 36.89	+21 56 35.7	20.6 V	691
1997 BP ₈	* 1997 01 31.36696	09 19 29.17	+12 49 18.0	17.8 V	691	1997 CE	* 1997 02 01.26808	09 06 55.35	+21 47 48.9	21.0 V	691
1997 BP ₈	1997 01 31.39003	09 19 27.73	+12 49 25.1	17.8 V	691	1997 CE	1997 02 01.29796	09 06 53.20	+21 47 56.0	21.1 V	691
1997 BP ₈	1997 01 31.41191	09 19 26.37	+12 49 32.3	17.8 V	691	1997 CE	1997 02 01.33778	09 06 50.40	+21 48 03.4	21.3 V	691
1997 BP ₈	1997 02 11.31455	09 08 30.51	+13 48 06.7	17.8 V	691	1997 CE	1997 02 02.21752	09 05 50.09	+21 50 58.1	21.4 V	691
1997 BP ₈	1997 02 11.38133	09 08 26.46	+13 48 28.0	18.0 V	691	1997 CE	1997 02 02.23985	09 05 48.52	+21 51 02.6	21.4 V	691
1997 BQ ₈	* 1997 01 31.43791	10 29 58.63	+11 14 54.9	20.3 V	691	1997 CE	1997 02 02.26223	09 05 46.96	+21 51 06.8	21.4 V	691
1997 BQ ₈	1997 01 31.45917	10 29 57.69	+11 14 56.0	20.3 V	691	1997 CF	* 1997 02 01.26811	09 06 57.33	+21 42 58.0	21.2 V	691
1997 BQ ₈	1997 01 31.48044	10 29 56.73	+11 14 57.5	20.3 V	691	1997 CF	1997 02 01.29798	09 06 55.54	+21 42 59.4	20.6 V	691
1997 BQ ₈	1997 02 11.40696	10 20 53.42	+11 33 30.8	19.8 V	691	1997 CF	1997 02 01.33781	09 06 53.13	+21 43 01.2	21.3 V	691
1997 BQ ₈	1997 02 11.42857	10 20 52.18	+11 33 33.2	19.9 V	691	1997 CF	1997 02 02.21766	09 06 02.18	+21 43 41.2	20.8 V	691
1997 BQ ₈	1997 02 11.45427	10 20 50.70	+11 33 36.2	19.9 V	691	1997 CF	1997 02 02.23999	09 06 00.78	+21 43 43.1	20.9 V	691
1997 BS ₈	* 1997 01 31.36463	09 16 07.22	+12 55 32.8	19.8 V	691	1997 CF	1997 02 02.26238	09 05 59.48	+21 43 43.1	21.1 V	691
1997 BS ₈	1997 01 31.40959	09 16 04.77	+12 55 36.7	19.8 V	691	1997 CG	* 1997 02 01.26811	09 06 57.70	+21 38 57.5	20.7 V	691
1997 BS ₈	1997 02 15.26843	09 02 55.13	+13 18 52.4	20.2 V	691	1997 CG	1997 02 01.29799	09 06 55.85	+21 39 03.8	21.2 V	691
1997 BS ₈	1997 02 15.29976	09 02 53.49	+13 18 55.2	20.4 V	691	1997 CG	1997 02 01.33781	09 06 53.38	+21 39 11.5	21.1 V	691
1997 BS ₈	1997 02 15.32945	09 02 51.94	+13 18 57.9	20.2 V	691	1997 CG	1997 02 02.21764	09 06 00.77	+21 42 09.7	21.0 V	691
1997 BT ₈	* 1997 01 31.16226	08 04 34.79	+20 33 53.3	18.9 V	691	1997 CG	1997 02 02.23997	09 05 59.38	+21 42 14.2	20.9 V	691
1997 BT ₈	1997 01 31.18599	08 04 33.45	+20 34 07.2	18.6 V	691	1997 CG	1997 02 02.26236	09 05 58.03	+21 42 18.7	20.8 V	691
1997 BT ₈	1997 01 31.20830	08 04 32.19	+20 34 20.1	18.6 V	691	1997 CH	* 1997 02 01.26828	09 07 12.55	+21 46 11.7	20.9 V	691

1997 CH	1997 02 01.29816	09 07 10.57	+21 46 20.8	21.1 V	691	1997 CA ₂	1997 02 02.18355	08 23 01.32	+20 14 50.8	19.6 V	691
1997 CH	1997 02 01.33798	09 07 07.93	+21 46 31.7	21.0 V	691	1997 CA ₂	1997 02 02.20603	08 22 59.91	+20 14 54.1	19.6 V	691
1997 CH	1997 02 02.21777	09 06 11.99	+21 50 42.7	20.7 V	691	1997 CA ₂	1997 02 03.22421	08 21 58.34	+20 17 10.3	19.8 V	691
1997 CH	1997 02 02.24010	09 06 10.51	+21 50 49.2	20.9 V	691	1997 CA ₂	1997 02 03.23214	08 21 57.85	+20 17 11.2	19.8 V	691
1997 CH	1997 02 02.26249	09 06 09.03	+21 50 55.5	20.7 V	691	1997 CA ₂	1997 02 03.24021	08 21 57.35	+20 17 12.6	20.0 V	691
1997 CJ	* 1997 02 01.26843	09 07 25.78	+21 36 50.3	18.6 V	691	1997 CB ₂	* 1997 02 02.16135	08 23 44.96	+20 24 37.4	19.7 V	691
1997 CJ	1997 02 01.29831	09 07 23.93	+21 37 06.1	18.5 V	691	1997 CB ₂	1997 02 02.18404	08 23 43.54	+20 24 42.6	19.5 V	691
1997 CJ	1997 02 01.33813	09 07 21.45	+21 37 26.3	18.7 V	691	1997 CB ₂	1997 02 02.20652	08 23 42.14	+20 24 49.2	19.6 V	691
1997 CJ	1997 02 02.21797	09 06 29.45	+21 45 00.0	18.7 V	691	1997 CB ₂	1997 02 03.22445	08 22 39.80	+20 29 10.8	19.6 V	691
1997 CJ	1997 02 02.24031	09 06 28.09	+21 45 11.7	18.7 V	691	1997 CB ₂	1997 02 03.23238	08 22 39.31	+20 29 12.4	19.4 V	691
1997 CK	* 1997 02 01.38250	09 22 34.10	+13 04 56.0	20.9 V	691	1997 CB ₂	1997 02 03.24045	08 22 38.80	+20 29 14.7	19.4 V	691
1997 CK	1997 02 01.40981	09 22 32.61	+13 05 00.2	21.0 V	691	1997 CC ₂	* 1997 02 02.16135	08 23 45.13	+20 03 16.6	19.7 V	691
1997 CK	1997 02 01.43712	09 22 31.13	+13 05 03.4	20.8 V	691	1997 CC ₂	1997 02 02.18404	08 23 43.78	+20 03 18.2	19.8 V	691
1997 CK	1997 02 02.29716	09 21 45.21	+13 07 06.1	20.1 V	691	1997 CC ₂	1997 02 02.20652	08 23 42.46	+20 03 20.0	19.5 V	691
1997 CK	1997 02 02.36388	09 21 41.55	+13 07 16.4	20.6 V	691	1997 CC ₂	1997 02 03.22447	08 22 44.25	+20 04 39.9	19.6 V	691
1997 CK	1997 02 02.39627	09 21 39.75	+13 07 21.0	20.3 V	691	1997 CC ₂	1997 02 03.23241	08 22 43.75	+20 04 40.9	19.6 V	691
1997 CL	* 1997 02 01.38283	09 23 03.03	+13 05 57.8	20.3 V	691	1997 CC ₂	1997 02 07.19235	08 19 04.15	+20 09 16.4	19.9 V	691
1997 CL	1997 02 01.41015	09 23 01.57	+13 06 00.4	20.5 V	691	1997 CC ₂	1997 02 07.21458	08 19 02.92	+20 09 17.6	19.8 V	691
1997 CL	1997 02 01.43745	09 23 00.13	+13 06 03.2	20.3 V	691	1997 CC ₂	1997 02 07.23679	08 19 01.70	+20 09 19.5	20.0 V	691
1997 CL	1997 02 02.29751	09 22 15.56	+13 07 33.6	20.2 V	691	1997 CC ₂	1997 02 14.18696	08 13 11.56	+20 14 58.2	19.7 V	691
1997 CL	1997 02 02.36423	09 22 12.01	+13 07 40.5	20.5 V	691	1997 CC ₂	1997 02 14.20948	08 13 10.45	+20 14 59.1	20.0 V	691
1997 CL	1997 02 02.39662	09 22 10.28	+13 07 43.7	20.5 V	691	1997 CC ₂	1997 02 14.23190	08 13 09.38	+20 15 00.2	20.0 V	691
1997 CL	1997 02 03.33602	09 21 21.26	+13 09 23.1	20.5 V	691	1997 CD ₂	* 1997 02 02.16182	08 24 25.27	+20 08 26.9	20.7 V	691
1997 CL	1997 02 03.34726	09 21 20.67	+13 09 24.5	20.6 V	691	1997 CD ₂	1997 02 02.18451	08 24 24.16	+20 08 31.8	20.6 V	691
1997 CL	1997 02 03.35844	09 21 20.03	+13 09 26.2	20.2 V	691	1997 CD ₂	1997 02 02.20699	08 24 23.06	+20 08 36.7	20.2 V	691
1997 CM	1997 01 09.51501	10 28 45.60	+11 23 06.1	17.5 V	691	1997 CD ₂	1997 02 03.22489	08 23 34.02	+20 12 00.4	21.0 V	691
1997 CM	1997 01 09.53288	10 28 45.24	+11 23 04.2	17.5 V	691	1997 CD ₂	1997 02 03.23283	08 23 33.62	+20 12 02.2	21.0 V	691
1997 CM	1997 01 09.55112	10 28 44.88	+11 23 02.2	17.5 V	691	1997 CD ₂	1997 02 03.24089	08 23 33.22	+20 12 04.3	20.8 V	691
1997 CQ ₁	1997 02 01.36091	09 11 23.42	+12 15 11.3	17.9 V	691	1997 CD ₂	1997 02 04.22310	08 22 46.38	+20 15 18.0	20.1 V	691
1997 CQ ₁	1997 02 01.38890	09 11 22.11	+12 15 25.8	17.8 V	691	1997 CD ₂	1997 02 04.23072	08 22 46.05	+20 15 18.5	20.4 V	691
1997 CQ ₁	1997 02 01.41629	09 11 20.82	+12 15 40.3	17.8 V	691	1997 CD ₂	1997 02 04.24060	08 22 45.61	+20 15 21.6	19.8 V	691
1997 CY ₁	* 1997 02 02.40757	10 22 35.30	+18 18 24.9	21.1 V	691	1997 CD ₂	1997 02 07.19332	08 20 28.28	+20 24 43.9	20.8 V	691
1997 CY ₁	1997 02 02.42957	10 22 33.20	+18 18 22.9	20.9 V	691	1997 CD ₂	1997 02 07.23777	08 20 26.23	+20 24 53.0	20.9 V	691
1997 CY ₁	1997 02 02.45161	10 22 31.06	+18 18 20.4	21.2 V	691	1997 CD ₂	1997 02 14.11947	08 15 30.97	+20 44 37.5	20.8 V	691
1997 CY ₁	1997 02 03.50907	10 20 50.90	+18 16 36.0	21.0 V	691	1997 CD ₂	1997 02 14.14230	08 15 30.07	+20 44 41.0	20.9 V	691
1997 CY ₁	1997 02 03.51350	10 20 50.44	+18 16 35.5	20.8 V	691	1997 CD ₂	1997 02 14.16507	08 15 29.13	+20 44 44.2	21.1 V	691
1997 CY ₁	1997 02 04.25780	10 19 39.31	+18 15 19.7	21.2 V	691	1997 CE ₂	* 1997 02 02.16201	08 24 42.14	+20 22 40.1	20.7 V	691
1997 CY ₁	1997 02 04.26373	10 19 38.70	+18 15 19.2	21.9 V	691	1997 CE ₂	1997 02 02.18470	08 24 40.84	+20 22 47.8	20.4 V	691
1997 CY ₁	1997 02 04.27002	10 19 38.14	+18 15 18.4	21.0 V	691	1997 CE ₂	1997 02 02.20718	08 24 39.54	+20 22 55.4	20.7 V	691
1997 CY ₁	1997 02 07.38750	10 14 26.99	+18 09 24.9	21.1 V	691	1997 CE ₂	1997 02 03.22499	08 23 42.29	+20 28 47.8	20.7 V	691
1997 CY ₁	1997 02 07.39333	10 14 26.34	+18 09 24.7	21.4 V	691	1997 CE ₂	1997 02 03.23292	08 23 41.82	+20 28 50.6	20.9 V	691
1997 CY ₁	1997 02 07.40101	10 14 25.59	+18 09 24.2	20.9 V	691	1997 CE ₂	1997 02 03.24098	08 23 41.36	+20 28 53.9	20.7 V	691
1997 CY ₁	1997 02 10.32580	10 09 21.07	+18 02 55.5	20.6 V	691	1997 CE ₂	1997 02 04.22310	08 22 46.70	+20 34 29.5	20.4 V	691
1997 CY ₁	1997 02 10.33146	10 09 20.46	+18 02 55.0	20.7 V	691	1997 CE ₂	1997 02 04.23072	08 22 46.29	+20 34 31.7	20.5 V	691
1997 CY ₁	1997 02 10.33711	10 09 19.83	+18 02 54.3	20.6 V	691	1997 CE ₂	1997 02 04.24060	08 22 45.75	+20 34 35.3	20.6 V	691
1997 CZ ₁	* 1997 02 01.44403	10 20 04.21	+10 35 35.7	17.9 V	691	1997 CF ₂	* 1997 02 02.16211	08 24 50.78	+20 26 13.4	20.2 V	691
1997 CZ ₁	1997 02 01.46567	10 20 03.04	+10 35 31.3	18.0 V	691	1997 CF ₂	1997 02 02.20728	08 24 47.93	+20 26 17.0	20.1 V	691
1997 CZ ₁	1997 02 01.50385	10 20 00.99	+10 35 24.1	17.9 V	691	1997 CF ₂	1997 02 03.22503	08 23 45.45	+20 27 41.5	20.0 V	691
1997 CZ ₁	1997 02 03.36959	10 18 21.93	+10 29 43.4	17.9 V	691	1997 CF ₂	1997 02 03.23296	08 23 44.95	+20 27 42.6	19.9 V	691
1997 CZ ₁	1997 02 03.39095	10 18 20.68	+10 29 39.9	18.0 V	691	1997 CF ₂	1997 02 03.24102	08 23 44.43	+20 27 43.2	19.9 V	691
1997 CZ ₁	1997 02 03.41215	10 18 19.45	+10 29 35.7	18.0 V	691	1997 CF ₂	1997 02 04.22309	08 22 44.66	+20 29 00.9	19.5 V	691
1997 CA ₂	* 1997 02 02.16086	08 23 02.72	+20 14 47.9	19.8 V	691	1997 CF ₂	1997 02 04.23071	08 22 44.18	+20 29 01.8	19.9 V	691

1997 CF ₂	1997 02 04.24058	08 22 43.58	+20 29 02.7	20.1 V	691	1997 CL ₂	1997 02 07.19512	08 23 04.15	+20 32 15.5	20.5 V	691
1997 CF ₂	1997 02 07.19285	08 19 47.37	+20 32 35.4	20.3 V	691	1997 CL ₂	1997 02 07.21734	08 23 02.79	+20 32 19.3	20.6 V	691
1997 CF ₂	1997 02 07.23729	08 19 44.68	+20 32 38.9	20.5 V	691	1997 CL ₂	1997 02 07.23956	08 23 01.43	+20 32 23.3	20.8 V	691
1997 CF ₂	1997 02 14.11798	08 13 22.54	+20 38 34.3	20.2 V	691	1997 CM ₂	* 1997 02 02.16487	08 28 49.93	+20 07 41.9	20.7 V	691
1997 CF ₂	1997 02 14.14081	08 13 21.31	+20 38 35.2	20.3 V	691	1997 CM ₂	1997 02 02.18756	08 28 48.79	+20 07 46.2	20.6 V	691
1997 CF ₂	1997 02 14.16358	08 13 20.08	+20 38 36.1	20.5 V	691	1997 CM ₂	1997 02 02.21004	08 28 47.63	+20 07 50.7	20.5 V	691
1997 CG ₂	* 1997 02 02.16219	08 24 57.55	+20 02 22.0	20.2 V	691	1997 CM ₂	1997 02 03.22793	08 27 57.06	+20 11 11.3	20.9 V	691
1997 CG ₂	1997 02 02.18488	08 24 56.07	+20 02 25.1	20.4 V	691	1997 CM ₂	1997 02 03.23586	08 27 56.63	+20 11 13.0	20.8 V	691
1997 CG ₂	1997 02 02.20736	08 24 54.64	+20 02 29.0	20.5 V	691	1997 CM ₂	1997 02 03.24393	08 27 56.25	+20 11 14.6	20.5 V	691
1997 CG ₂	1997 02 03.22509	08 23 50.86	+20 05 24.4	20.3 V	691	1997 CN ₂	* 1997 02 02.16574	08 30 05.63	+20 07 47.9	20.4 V	691
1997 CG ₂	1997 02 03.23302	08 23 50.31	+20 05 25.5	20.5 V	691	1997 CN ₂	1997 02 02.18844	08 30 04.24	+20 07 51.3	21.1 V	691
1997 CG ₂	1997 02 03.24108	08 23 49.77	+20 05 27.2	20.2 V	691	1997 CN ₂	1997 02 02.21091	08 30 02.79	+20 07 54.5	20.7 V	691
1997 CG ₂	1997 02 07.19288	08 19 49.52	+20 16 03.1	20.5 V	691	1997 CN ₂	1997 02 03.22865	08 28 58.98	+20 10 18.6	20.9 V	691
1997 CG ₂	1997 02 07.21510	08 19 48.15	+20 16 06.2	20.8 V	691	1997 CN ₂	1997 02 03.23658	08 28 58.44	+20 10 19.5	21.0 V	691
1997 CG ₂	1997 02 07.23731	08 19 46.73	+20 16 10.0	20.6 V	691	1997 CN ₂	1997 02 03.24464	08 28 57.90	+20 10 21.2	20.5 V	691
1997 CH ₂	* 1997 02 02.16240	08 25 16.07	+20 21 24.1	20.5 V	691	1997 CN ₂	1997 02 04.22642	08 27 57.06	+20 12 35.2	20.8 V	691
1997 CH ₂	1997 02 02.18510	08 25 14.94	+20 21 32.3	20.6 V	691	1997 CN ₂	1997 02 04.23408	08 27 56.59	+20 12 36.1	20.8 V	691
1997 CH ₂	1997 02 02.20758	08 25 13.90	+20 21 40.3	20.3 V	691	1997 CN ₂	1997 02 04.24395	08 27 55.98	+20 12 37.5	20.6 V	691
1997 CH ₂	1997 02 03.22549	08 24 25.95	+20 27 35.5	20.6 V	691	1997 CN ₂	1997 02 04.33791	08 27 49.94	+20 12 50.2	21.1 V	691
1997 CH ₂	1997 02 03.23343	08 24 25.53	+20 27 38.4	20.7 V	691	1997 CN ₂	1997 02 04.34421	08 27 49.53	+20 12 50.9	21.0 V	691
1997 CH ₂	1997 02 04.33501	08 23 34.01	+20 33 59.1	21.1 V	691	1997 CN ₂	1997 02 04.35084	08 27 49.12	+20 12 51.9	21.0 V	691
1997 CH ₂	1997 02 04.34131	08 23 33.74	+20 34 01.5	20.7 V	691	1997 CN ₂	1997 02 07.19643	08 24 57.72	+20 18 55.4	21.0 V	691
1997 CH ₂	1997 02 04.34794	08 23 33.40	+20 34 03.1	21.2 V	691	1997 CN ₂	1997 02 07.21866	08 24 56.36	+20 18 58.5	20.9 V	691
1997 CJ ₂	* 1997 02 02.16241	08 25 16.55	+20 17 40.4	20.4 V	691	1997 CN ₂	1997 02 07.24087	08 24 55.05	+20 19 00.3	21.3 V	691
1997 CJ ₂	1997 02 02.18510	08 25 15.41	+20 17 49.6	20.3 V	691	1997 CO ₂	* 1997 02 02.16585	08 30 14.55	+20 10 45.9	21.2 V	691
1997 CJ ₂	1997 02 02.20758	08 25 14.28	+20 17 58.3	20.2 V	691	1997 CO ₂	1997 02 02.18854	08 30 13.08	+20 10 53.8	20.9 V	691
1997 CJ ₂	1997 02 03.22548	08 24 24.66	+20 24 39.9	20.0 V	691	1997 CO ₂	1997 02 02.21101	08 30 11.64	+20 11 01.9	20.9 V	691
1997 CJ ₂	1997 02 03.23341	08 24 24.26	+20 24 43.1	20.0 V	691	1997 CO ₂	1997 02 03.22876	08 29 08.80	+20 17 14.6	20.9 V	691
1997 CJ ₂	1997 02 03.24148	08 24 23.88	+20 24 46.0	20.1 V	691	1997 CO ₂	1997 02 03.23669	08 29 08.29	+20 17 17.6	20.9 V	691
1997 CJ ₂	1997 02 06.22780	08 22 01.28	+20 44 00.7	20.6 V	691	1997 CO ₂	1997 02 03.24475	08 29 07.75	+20 17 20.7	20.8 V	691
1997 CJ ₂	1997 02 06.27365	08 21 59.07	+20 44 17.9	20.4 V	691	1997 CO ₂	1997 02 04.23420	08 28 07.21	+20 23 17.7	20.8 V	691
1997 CK ₂	* 1997 02 02.16277	08 25 47.92	+20 20 36.7	20.9 V	691	1997 CO ₂	1997 02 04.24407	08 28 06.59	+20 23 21.2	20.7 V	691
1997 CK ₂	1997 02 02.18546	08 25 46.51	+20 20 45.6	20.5 V	691	1997 CP ₂	* 1997 02 02.16626	08 30 50.12	+20 15 15.0	20.3 V	691
1997 CK ₂	1997 02 02.20794	08 25 45.11	+20 20 53.5	20.4 V	691	1997 CP ₂	1997 02 02.18895	08 30 48.83	+20 15 20.3	20.2 V	691
1997 CK ₂	1997 02 03.22570	08 24 43.56	+20 27 09.5	20.5 V	691	1997 CP ₂	1997 02 02.21143	08 30 47.52	+20 15 26.6	20.1 V	691
1997 CK ₂	1997 02 03.23363	08 24 43.06	+20 27 12.0	21.0 V	691	1997 CP ₂	1997 02 03.22924	08 29 50.78	+20 19 49.8	19.9 V	691
1997 CK ₂	1997 02 03.24169	08 24 42.56	+20 27 14.9	20.7 V	691	1997 CP ₂	1997 02 03.23718	08 29 50.35	+20 19 51.7	19.8 V	691
1997 CK ₂	1997 02 04.22350	08 23 43.91	+20 33 12.2	20.3 V	691	1997 CP ₂	1997 02 03.24524	08 29 49.85	+20 19 54.1	19.7 V	691
1997 CK ₂	1997 02 04.23115	08 23 43.45	+20 33 14.7	20.6 V	691	1997 CP ₂	1997 02 04.22710	08 28 55.70	+20 24 04.0	19.7 V	691
1997 CK ₂	1997 02 04.24102	08 23 42.86	+20 33 18.4	20.7 V	691	1997 CP ₂	1997 02 04.23475	08 28 55.27	+20 24 05.7	19.8 V	691
1997 CK ₂	1997 02 04.33504	08 23 37.10	+20 33 51.9	21.7 V	691	1997 CP ₂	1997 02 04.24463	08 28 54.72	+20 24 08.2	19.7 V	691
1997 CK ₂	1997 02 04.34135	08 23 36.73	+20 33 54.5	21.0 V	691	1997 CP ₂	1997 02 14.12295	08 20 33.07	+21 01 31.8	19.7 V	691
1997 CK ₂	1997 02 04.34798	08 23 36.31	+20 33 56.5	21.3 V	691	1997 CP ₂	1997 02 14.14578	08 20 32.00	+21 01 36.3	19.6 V	691
1997 CL ₂	* 1997 02 02.16444	08 28 12.94	+20 16 33.4	20.4 V	691	1997 CQ ₂	* 1997 02 02.18449	08 24 22.62	+20 30 54.9	19.9 V	691
1997 CL ₂	1997 02 02.18713	08 28 11.41	+20 16 38.7	20.1 V	691	1997 CQ ₂	1997 02 02.20697	08 24 21.29	+20 30 57.7	19.5 V	691
1997 CL ₂	1997 02 02.20961	08 28 10.00	+20 16 42.1	20.4 V	691	1997 CQ ₂	1997 02 03.22477	08 23 23.41	+20 33 37.0	19.2 V	691
1997 CL ₂	1997 02 03.22734	08 27 05.86	+20 20 03.0	20.2 V	691	1997 CQ ₂	1997 02 03.23270	08 23 22.93	+20 33 38.3	19.2 V	691
1997 CL ₂	1997 02 03.23527	08 27 05.32	+20 20 04.7	20.4 V	691	1997 CQ ₂	1997 02 03.24077	08 23 22.47	+20 33 39.8	19.0 V	691
1997 CL ₂	1997 02 03.24333	08 27 04.80	+20 20 06.4	20.3 V	691	1997 CQ ₂	1997 02 04.22299	08 22 27.27	+20 36 09.3	18.9 V	691
1997 CL ₂	1997 02 04.33662	08 25 56.61	+20 23 36.2	21.1 V	691	1997 CQ ₂	1997 02 04.23061	08 22 26.87	+20 36 10.4	19.0 V	691
1997 CL ₂	1997 02 04.34293	08 25 56.20	+20 23 37.2	20.6 V	691	1997 CQ ₂	1997 02 04.24048	08 22 26.31	+20 36 12.1	18.9 V	691
1997 CL ₂	1997 02 04.34956	08 25 55.77	+20 23 38.1	20.7 V	691	1997 CQ ₂	1997 02 04.33454	08 22 20.88	+20 36 26.0	19.6 V	691

1997 CQ ₂	1997 02 04.34085	08 22 20.54	+20 36 27.2	19.3 V	691	1997 CL ₃	1997 02 04.22473	08 25 30.55	+20 16 29.9	20.7 V	691
1997 CQ ₂	1997 02 04.34748	08 22 20.14	+20 36 27.7	19.4 V	691	1997 CL ₃	1997 02 04.23238	08 25 30.14	+20 16 32.0	20.5 V	691
1997 CR ₂	* 1997 02 02.18576	08 26 12.28	+20 22 09.9	20.4 V	691	1997 CL ₃	1997 02 04.24226	08 25 29.64	+20 16 35.0	20.6 V	691
1997 CR ₂	1997 02 02.20824	08 26 11.06	+20 22 16.4	20.7 V	691	1997 CL ₃	1997 02 04.33626	08 25 24.64	+20 17 02.9	21.8 V	691
1997 CR ₂	1997 02 03.22607	08 25 15.59	+20 26 59.4	20.6 V	691	1997 CL ₃	1997 02 04.34256	08 25 24.31	+20 17 04.4	20.9 V	691
1997 CR ₂	1997 02 03.23400	08 25 15.17	+20 27 01.4	20.5 V	691	1997 CL ₃	1997 02 04.34920	08 25 23.98	+20 17 06.2	21.0 V	691
1997 CR ₂	1997 02 03.24206	08 25 14.70	+20 27 03.6	20.5 V	691	1997 CL ₃	1997 02 07.19508	08 23 00.23	+20 30 45.9	20.5 V	691
1997 CR ₂	1997 02 04.22394	08 24 21.81	+20 31 32.6	20.7 V	691	1997 CL ₃	1997 02 07.21730	08 22 59.07	+20 30 51.7	20.9 V	691
1997 CR ₂	1997 02 04.23159	08 24 21.42	+20 31 34.4	20.8 V	691	1997 CL ₃	1997 02 07.23952	08 22 57.91	+20 30 58.0	20.6 V	691
1997 CR ₂	1997 02 04.24146	08 24 20.88	+20 31 37.4	20.8 V	691	1997 CM ₃	* 1997 02 02.16393	08 27 28.41	+20 22 04.2	18.4 V	691
1997 CR ₂	1997 02 06.22820	08 22 35.96	+20 40 27.2	20.9 V	691	1997 CM ₃	1997 02 02.18662	08 27 27.30	+20 22 11.6	18.5 V	691
1997 CR ₂	1997 02 06.25143	08 22 34.70	+20 40 32.6	21.2 V	691	1997 CM ₃	1997 02 02.20910	08 27 26.16	+20 22 19.1	18.3 V	691
1997 CR ₂	1997 02 06.27405	08 22 33.50	+20 40 39.1	20.7 V	691	1997 CM ₃	1997 02 04.22494	08 25 48.46	+20 33 28.8	18.5 V	691
1997 CS ₂	* 1997 02 02.29629	09 20 29.90	+12 48 03.2	20.7 V	691	1997 CM ₃	1997 02 04.23259	08 25 48.10	+20 33 31.2	18.5 V	691
1997 CS ₂	1997 02 02.36301	09 20 26.09	+12 48 16.3	20.8 V	691	1997 CM ₃	1997 02 04.24247	08 25 47.62	+20 33 34.6	18.4 V	691
1997 CS ₂	1997 02 02.39539	09 20 24.27	+12 48 22.7	20.7 V	691	1997 CM ₃	1997 02 04.33647	08 25 42.97	+20 34 05.4	18.9 V	691
1997 CS ₂	1997 02 03.33476	09 19 32.24	+12 51 23.6	20.7 V	691	1997 CM ₃	1997 02 04.34277	08 25 42.65	+20 34 07.2	18.6 V	691
1997 CS ₂	1997 02 03.34600	09 19 31.58	+12 51 25.7	20.6 V	691	1997 CM ₃	1997 02 04.34940	08 25 42.33	+20 34 09.4	18.7 V	691
1997 CS ₂	1997 02 03.35719	09 19 30.97	+12 51 27.9	20.6 V	691	1997 CM ₃	1997 02 06.22932	08 24 12.93	+20 44 21.7	18.6 V	691
1997 CT ₂	* 1997 02 02.29652	09 20 49.85	+13 01 22.4	20.3 V	691	1997 CM ₃	1997 02 06.25255	08 24 11.79	+20 44 28.9	18.7 V	691
1997 CT ₂	1997 02 02.36324	09 20 45.85	+13 01 42.8	20.4 V	691	1997 CM ₃	1997 02 06.27517	08 24 10.74	+20 44 36.1	18.4 V	691
1997 CT ₂	1997 02 02.39562	09 20 43.91	+13 01 52.3	20.3 V	691	1997 CN ₃	* 1997 02 02.16431	08 28 01.10	+20 28 49.8	19.7 V	691
1997 CT ₂	1997 02 03.33496	09 19 48.86	+13 06 40.0	19.3 V	691	1997 CN ₃	1997 02 02.18700	08 27 59.61	+20 28 53.4	19.7 V	691
1997 CT ₂	1997 02 03.34619	09 19 48.27	+13 06 43.5	19.9 V	691	1997 CN ₃	1997 02 02.20947	08 27 58.11	+20 28 57.0	19.5 V	691
1997 CT ₂	1997 02 03.35738	09 19 47.55	+13 06 47.1	20.0 V	691	1997 CN ₃	1997 02 04.22495	08 25 49.27	+20 34 04.9	19.8 V	691
1997 CT ₂	1997 02 11.31690	09 12 03.15	+13 47 25.8	20.2 V	691	1997 CN ₃	1997 02 04.23260	08 25 48.79	+20 34 06.1	19.7 V	691
1997 CT ₂	1997 02 11.38363	09 11 59.18	+13 47 45.9	20.4 V	691	1997 CN ₃	1997 02 04.24247	08 25 48.14	+20 34 07.6	19.8 V	691
1997 CU ₂	* 1997 02 02.29752	09 22 16.43	+12 42 33.3	18.7 V	691	1997 CN ₃	1997 02 04.33646	08 25 41.92	+20 34 21.3	20.5 V	691
1997 CU ₂	1997 02 02.36425	09 22 13.25	+12 43 00.0	19.1 V	691	1997 CN ₃	1997 02 04.34276	08 25 41.51	+20 34 22.1	20.1 V	691
1997 CU ₂	1997 02 02.39663	09 22 11.73	+12 43 12.9	18.9 V	691	1997 CN ₃	1997 02 04.34939	08 25 41.09	+20 34 23.5	19.9 V	691
1997 CU ₂	1997 02 03.33611	09 21 28.68	+12 49 31.5	18.9 V	691	1997 CO ₃	* 1997 02 02.16638	08 31 00.55	+20 12 30.5	19.4 V	691
1997 CU ₂	1997 02 03.34734	09 21 28.14	+12 49 36.1	19.0 V	691	1997 CO ₃	1997 02 02.18907	08 30 59.03	+20 12 33.0	19.2 V	691
1997 CU ₂	1997 02 03.35853	09 21 27.59	+12 49 40.4	18.9 V	691	1997 CO ₃	1997 02 02.21155	08 30 57.61	+20 12 36.4	19.4 V	691
1997 CU ₂	1997 02 11.31912	09 15 15.97	+13 44 10.7	18.7 V	691	1997 CO ₃	1997 02 04.22708	08 28 53.76	+20 16 48.8	19.5 V	691
1997 CU ₂	1997 02 11.38586	09 15 12.77	+13 44 38.3	18.9 V	691	1997 CO ₃	1997 02 04.23473	08 28 53.27	+20 16 49.5	19.5 V	691
1997 CV ₂	* 1997 02 02.29913	09 24 36.48	+12 39 11.6	20.2 V	691	1997 CO ₃	1997 02 04.24460	08 28 52.65	+20 16 50.7	19.4 V	691
1997 CV ₂	1997 02 02.36586	09 24 32.79	+12 39 29.6	20.3 V	691	1997 CP ₃	* 1997 02 02.16690	08 31 45.38	+20 23 58.1	21.1 V	691
1997 CV ₂	1997 02 02.39824	09 24 31.02	+12 39 37.9	20.4 V	691	1997 CP ₃	1997 02 02.18959	08 31 44.15	+20 24 00.4	20.9 V	691
1997 CV ₂	1997 02 03.33764	09 23 41.20	+12 43 49.9	20.1 V	691	1997 CP ₃	1997 02 02.21207	08 31 42.93	+20 24 03.1	20.7 V	691
1997 CV ₂	1997 02 03.34887	09 23 40.55	+12 43 53.6	20.2 V	691	1997 CP ₃	1997 02 04.22782	08 29 58.04	+20 27 39.3	20.9 V	691
1997 CV ₂	1997 02 03.36006	09 23 39.95	+12 43 55.6	20.2 V	691	1997 CP ₃	1997 02 04.23547	08 29 57.64	+20 27 40.2	21.0 V	691
1997 CK ₃	* 1997 02 02.16339	08 26 42.07	+20 07 42.2	21.0 V	691	1997 CP ₃	1997 02 04.24535	08 29 57.12	+20 27 41.1	20.8 V	691
1997 CK ₃	1997 02 02.18609	08 26 40.83	+20 07 48.6	21.0 V	691	1997 CQ ₃	* 1997 02 02.16721	08 32 12.21	+20 21 47.5	20.7 V	691
1997 CK ₃	1997 02 02.20857	08 26 39.63	+20 07 55.0	21.0 V	691	1997 CQ ₃	1997 02 02.21238	08 32 09.77	+20 21 55.1	20.8 V	691
1997 CK ₃	1997 02 04.22431	08 24 53.70	+20 17 45.6	20.9 V	691	1997 CQ ₃	1997 02 04.22810	08 30 22.52	+20 27 14.3	20.8 V	691
1997 CK ₃	1997 02 04.23196	08 24 53.31	+20 17 47.8	20.8 V	691	1997 CQ ₃	1997 02 04.23575	08 30 22.11	+20 27 15.5	20.7 V	691
1997 CK ₃	1997 02 04.24183	08 24 52.78	+20 17 50.6	20.7 V	691	1997 CQ ₃	1997 02 04.24563	08 30 21.58	+20 27 17.0	20.8 V	691
1997 CL ₃	* 1997 02 02.16380	08 27 17.61	+20 06 16.8	21.1 V	691	1997 CR ₃	* 1997 02 02.40531	10 19 19.57	+18 23 34.3	19.5 V	691
1997 CL ₃	1997 02 02.18650	08 27 16.39	+20 06 23.5	21.2 V	691	1997 CR ₃	1997 02 02.42732	10 19 18.22	+18 23 32.3	19.5 V	691
1997 CL ₃	1997 02 02.20898	08 27 15.22	+20 06 30.4	20.8 V	691	1997 CR ₃	1997 02 02.44936	10 19 16.84	+18 23 30.0	19.4 V	691
1997 CL ₃	1997 02 03.23477	08 26 21.70	+20 11 37.3	20.6 V	691	1997 CR ₃	1997 02 04.25659	10 17 27.83	+18 20 29.7	19.7 V	691
1997 CL ₃	1997 02 03.24283	08 26 21.28	+20 11 39.4	20.7 V	691	1997 CR ₃	1997 02 04.26252	10 17 27.45	+18 20 29.4	19.9 V	691

1997 CR ₃	1997 02 04.26882	10 17 27.04	+18 20 28.9	19.4 V	691	1997 CX ₃	1997 02 06.23093	08 26 32.91	+20 50 33.2	20.0 V	691
1997 CR ₃	1997 02 07.38729	10 14 08.92	+18 14 55.0	19.6 V	691	1997 CX ₃	1997 02 06.25417	08 26 31.81	+20 50 41.7	19.7 V	691
1997 CR ₃	1997 02 07.39312	10 14 08.51	+18 14 54.5	19.7 V	691	1997 CX ₃	1997 02 06.27678	08 26 30.70	+20 50 50.0	19.4 V	691
1997 CR ₃	1997 02 07.40081	10 14 07.96	+18 14 53.7	19.4 V	691	1997 CY ₃	* 1997 02 03.26344	09 19 11.13	+20 45 39.4	21.2 V	691
1997 CR ₃	1997 02 10.32688	10 10 54.61	+18 09 05.7	19.3 V	691	1997 CY ₃	1997 02 03.28471	09 19 09.90	+20 45 44.8	21.0 V	691
1997 CR ₃	1997 02 10.33254	10 10 54.23	+18 09 05.0	19.3 V	691	1997 CY ₃	1997 02 03.30582	09 19 08.74	+20 45 49.2	21.1 V	691
1997 CR ₃	1997 02 10.33819	10 10 53.83	+18 09 04.2	19.3 V	691	1997 CY ₃	1997 02 04.28536	09 18 15.43	+20 49 34.3	22.0 V	691
1997 CS ₃	* 1997 02 02.40650	10 21 02.54	+18 17 44.4	20.3 V	691	1997 CY ₃	1997 02 04.29125	09 18 15.04	+20 49 37.3	21.2 V	691
1997 CS ₃	1997 02 02.42851	10 21 01.46	+18 17 50.1	20.2 V	691	1997 CY ₃	1997 02 04.29982	09 18 14.53	+20 49 38.9	21.5 V	691
1997 CS ₃	1997 02 02.45056	10 21 00.35	+18 17 55.4	20.3 V	691	1997 CZ ₃	* 1997 02 02.16541	08 29 36.69	+20 19 10.7	20.8 V	691
1997 CS ₃	1997 02 04.25772	10 19 32.28	+18 25 20.5	20.8 V	691	1997 CZ ₃	1997 02 02.18808	08 29 33.44	+20 19 13.8	20.6 V	691
1997 CS ₃	1997 02 04.26365	10 19 31.98	+18 25 21.8	21.2 V	691	1997 CZ ₃	1997 02 02.21054	08 29 30.28	+20 19 16.4	20.5 V	691
1997 CS ₃	1997 02 04.26994	10 19 31.67	+18 25 23.8	20.4 V	691	1997 CZ ₃	1997 02 03.22741	08 27 11.49	+20 21 21.3	20.4 V	691
1997 CT ₃	* 1997 02 02.40720	10 22 03.30	+18 15 44.0	20.5 V	691	1997 CZ ₃	1997 02 03.23533	08 27 10.34	+20 21 22.4	20.6 V	691
1997 CT ₃	1997 02 02.42921	10 22 02.24	+18 15 54.5	20.4 V	691	1997 CZ ₃	1997 02 03.24339	08 27 09.25	+20 21 23.4	20.4 V	691
1997 CT ₃	1997 02 02.45126	10 22 01.16	+18 16 05.3	20.2 V	691	1997 CZ ₃	1997 02 04.33580	08 24 43.78	+20 23 22.3	21.4 V	691
1997 CT ₃	1997 02 04.25845	10 20 35.99	+18 30 35.4	20.8 V	691	1997 CZ ₃	1997 02 04.34210	08 24 42.94	+20 23 22.6	20.7 V	691
1997 CT ₃	1997 02 04.26438	10 20 35.68	+18 30 38.6	21.0 V	691	1997 CZ ₃	1997 02 04.34872	08 24 42.00	+20 23 23.1	21.0 V	691
1997 CT ₃	1997 02 04.27068	10 20 35.38	+18 30 41.6	20.7 V	691	1997 CZ ₃	1997 02 07.19214	08 18 45.87	+20 27 21.7	21.0 V	691
1997 CU ₃	* 1997 02 03.22514	08 23 55.12	+20 14 55.6	20.6 V	691	1997 CZ ₃	1997 02 07.21435	08 18 43.10	+20 27 23.5	20.9 V	691
1997 CU ₃	1997 02 03.23307	08 23 54.73	+20 14 58.6	20.4 V	691	1997 CZ ₃	1997 02 07.23654	08 18 40.35	+20 27 25.4	21.3 V	691
1997 CU ₃	1997 02 03.24114	08 23 54.35	+20 15 01.3	20.4 V	691	1997 CZ ₃	1997 02 11.17955	08 11 18.28	+20 30 20.4	20.7 V	691
1997 CU ₃	1997 02 04.22322	08 23 07.32	+20 20 46.2	19.6 V	691	1997 CZ ₃	1997 02 11.18571	08 11 17.65	+20 30 20.5	20.9 V	691
1997 CU ₃	1997 02 04.23084	08 23 06.99	+20 20 48.7	19.7 V	691	1997 CZ ₃	1997 02 11.19053	08 11 17.14	+20 30 20.6	21.1 V	691
1997 CU ₃	1997 02 04.24072	08 23 06.52	+20 20 52.2	20.0 V	691	1997 CZ ₃	1997 02 14.18225	08 06 23.95	+20 30 46.6	21.4 V	691
1997 CV ₃	* 1997 02 03.22689	08 26 26.47	+20 24 47.9	21.1 V	691	1997 CZ ₃	1997 02 14.20476	08 06 21.84	+20 30 46.4	20.9 V	691
1997 CV ₃	1997 02 03.23482	08 26 25.97	+20 24 50.4	21.2 V	691	1997 CZ ₃	1997 02 14.22717	08 06 19.72	+20 30 46.9	21.6 V	691
1997 CV ₃	1997 02 03.24288	08 26 25.46	+20 24 53.1	21.0 V	691	1997 CJ ₅	1997 01 02.48848	09 47 00.14	+13 09 47.1	19.5 V	691
1997 CV ₃	1997 02 04.22467	08 25 25.10	+20 29 33.9	20.7 V	691	1997 CJ ₅	1997 01 02.51881	09 46 59.54	+13 09 49.3	19.6 V	691
1997 CV ₃	1997 02 04.23232	08 25 24.65	+20 29 36.1	20.8 V	691	1997 CJ ₅	1997 01 02.54922	09 46 58.94	+13 09 51.3	19.6 V	691
1997 CV ₃	1997 02 04.24219	08 25 24.04	+20 29 39.1	20.8 V	691	1997 CX ₅	* 1997 02 06.22331	08 15 32.59	+20 44 02.8	18.6 V	691
1997 CV ₃	1997 02 04.33619	08 25 18.05	+20 30 05.8	21.8 V	691	1997 CX ₅	1997 02 06.24653	08 15 29.85	+20 43 24.2	18.6 V	691
1997 CV ₃	1997 02 04.34249	08 25 17.65	+20 30 07.3	21.0 V	691	1997 CX ₅	1997 02 06.26912	08 15 27.16	+20 42 46.3	18.6 V	691
1997 CV ₃	1997 02 04.34912	08 25 17.23	+20 30 09.0	21.6 V	691	1997 CX ₅	1997 02 07.21089	08 13 43.74	+20 16 31.5	18.6 V	691
1997 CV ₃	1997 02 06.22875	08 23 23.59	+20 38 54.6	21.2 V	691	1997 CX ₅	1997 02 07.23309	08 13 41.18	+20 15 54.7	18.8 V	691
1997 CV ₃	1997 02 06.25198	08 23 22.24	+20 39 00.5	20.8 V	691	1997 CX ₅	1997 02 09.27750	08 10 06.74	+19 19 22.3	18.6 V	691
1997 CV ₃	1997 02 06.27459	08 23 20.80	+20 39 07.0	20.8 V	691	1997 CX ₅	1997 02 09.29981	08 10 04.35	+19 18 45.4	18.6 V	691
1997 CW ₃	* 1997 02 03.22840	08 28 37.93	+20 29 32.3	20.1 V	691	1997 CX ₅	1997 02 09.32227	08 10 01.94	+19 18 08.3	18.7 V	691
1997 CW ₃	1997 02 03.23633	08 28 37.42	+20 29 34.0	20.2 V	691	1997 CX ₅	1997 02 13.24644	08 03 57.77	+17 32 02.9	18.9 V	691
1997 CW ₃	1997 02 03.24440	08 28 36.95	+20 29 36.2	20.0 V	691	1997 CX ₅	1997 02 13.25405	08 03 57.08	+17 31 50.7	18.8 V	691
1997 CW ₃	1997 02 04.22624	08 27 41.22	+20 33 34.8	20.6 V	691	1997 CX ₅	1997 02 13.26211	08 03 56.34	+17 31 37.8	18.9 V	691
1997 CW ₃	1997 02 04.23389	08 27 40.77	+20 33 36.7	20.6 V	691	1997 CB ₆	1997 02 01.36248	09 13 39.46	+12 04 48.8	18.4 V	691
1997 CW ₃	1997 02 04.24376	08 27 40.21	+20 33 39.2	20.2 V	691	1997 CB ₆	1997 02 01.39047	09 13 37.74	+12 04 57.2	18.4 V	691
1997 CW ₃	1997 02 04.33773	08 27 34.64	+20 34 01.7	21.1 V	691	1997 CB ₆	1997 02 01.41785	09 13 36.13	+12 05 05.5	18.5 V	691
1997 CW ₃	1997 02 04.34404	08 27 34.27	+20 34 03.2	20.5 V	691	1997 CB ₆	1997 02 07.31933	09 07 59.12	+12 35 41.4	18.4 V	691
1997 CW ₃	1997 02 04.35067	08 27 33.88	+20 34 04.9	20.5 V	691	1997 CB ₆	1997 02 07.34113	09 07 57.84	+12 35 48.4	18.4 V	691
1997 CX ₃	* 1997 02 03.22862	08 28 56.66	+20 31 22.5	19.3 V	691	1997 CB ₆	1997 02 07.36274	09 07 56.53	+12 35 55.2	18.4 V	691
1997 CX ₃	1997 02 03.23655	08 28 56.29	+20 31 25.3	19.4 V	691	1997 CB ₆	1997 02 11.28782	09 04 17.52	+12 56 38.7	18.6 V	691
1997 CX ₃	1997 02 03.24462	08 28 55.85	+20 31 28.8	19.2 V	691	1997 CB ₆	1997 02 11.29578	09 04 17.04	+12 56 41.3	18.5 V	691
1997 CX ₃	1997 02 04.22655	08 28 08.44	+20 37 48.8	19.2 V	691	1997 CB ₆	1997 02 11.30318	09 04 16.63	+12 56 43.6	18.6 V	691
1997 CX ₃	1997 02 04.23421	08 28 08.06	+20 37 51.9	19.3 V	691	1997 CC ₆	1997 01 02.48883	09 47 30.80	+13 12 37.9	19.3 V	691
1997 CX ₃	1997 02 04.24408	08 28 07.59	+20 37 55.7	19.3 V	691	1997 CC ₆	1997 01 02.51918	09 47 30.98	+13 12 46.9	19.3 V	691

1997 CC ₆	1997 01 02.54960	09 47 31.18	+13 12 55.7	19.4 V	691	1997 CM ₇	* 1997 02 01.14596	08 30 29.49	+20 34 26.7	19.6 V	691
1997 CZ ₆	1997 02 01.37148	09 26 38.78	+12 26 51.6	18.8 V	691	1997 CM ₇	1997 02 01.16818	08 30 28.45	+20 34 33.5	19.4 V	691
1997 CZ ₆	1997 02 01.39946	09 26 37.12	+12 27 00.4	18.9 V	691	1997 CM ₇	1997 02 01.19035	08 30 27.38	+20 34 40.5	19.5 V	691
1997 CZ ₆	1997 02 01.42685	09 26 35.49	+12 27 08.6	18.9 V	691	1997 CM ₇	1997 02 06.23097	08 26 35.81	+21 00 37.2	19.7 V	691
1997 CZ ₆	1997 02 07.32796	09 20 51.94	+12 57 15.4	19.2 V	691	1997 CM ₇	1997 02 06.25420	08 26 34.75	+21 00 43.9	19.9 V	691
1997 CZ ₆	1997 02 07.34971	09 20 50.62	+12 57 22.2	19.1 V	691	1997 CM ₇	1997 02 06.27682	08 26 33.72	+21 00 49.9	19.5 V	691
1997 CZ ₆	1997 02 07.37133	09 20 49.31	+12 57 28.8	19.0 V	691	1997 CN ₇	* 1997 02 01.14744	08 32 37.97	+20 49 55.3	19.2 V	691
1997 CE ₇	* 1997 02 01.09479	01 56 22.88	+09 41 39.9	18.5 V	691	1997 CN ₇	1997 02 01.16966	08 32 36.52	+20 49 55.7	19.3 V	691
1997 CE ₇	1997 02 01.10663	01 56 23.82	+09 41 45.1	18.5 V	691	1997 CN ₇	1997 02 01.19182	08 32 35.02	+20 49 56.8	19.3 V	691
1997 CE ₇	1997 02 01.11683	01 56 24.60	+09 41 49.2	18.5 V	691	1997 CN ₇	1997 02 06.23139	08 27 12.38	+20 52 42.6	19.3 V	691
1997 CE ₇	1997 02 07.15530	02 04 39.83	+10 24 54.2	19.0 V	691	1997 CN ₇	1997 02 06.25462	08 27 10.90	+20 52 43.0	19.2 V	691
1997 CE ₇	1997 02 07.16085	02 04 40.31	+10 24 57.0	18.9 V	691	1997 CN ₇	1997 02 06.27723	08 27 09.43	+20 52 43.3	19.3 V	691
1997 CE ₇	1997 02 07.16658	02 04 40.77	+10 24 59.2	18.9 V	691	1997 CO ₇	* 1997 02 01.14757	08 32 49.23	+20 47 01.5	19.4 V	691
1997 CF ₇	* 1997 02 01.13469	08 14 13.82	+20 33 32.1	20.1 V	691	1997 CO ₇	1997 02 01.16979	08 32 48.23	+20 47 03.7	19.4 V	691
1997 CF ₇	1997 02 01.15691	08 14 12.31	+20 33 37.0	20.2 V	691	1997 CO ₇	1997 02 01.19196	08 32 46.97	+20 47 07.3	19.5 V	691
1997 CF ₇	1997 02 01.17907	08 14 10.80	+20 33 41.8	19.9 V	691	1997 CO ₇	1997 02 06.23242	08 28 41.74	+20 58 30.6	20.1 V	691
1997 CF ₇	1997 02 06.21868	08 08 51.23	+20 49 07.0	20.3 V	691	1997 CO ₇	1997 02 06.25565	08 28 40.61	+20 58 33.2	19.9 V	691
1997 CF ₇	1997 02 06.24191	08 08 49.78	+20 49 10.9	20.2 V	691	1997 CO ₇	1997 02 06.27827	08 28 39.50	+20 58 36.3	19.7 V	691
1997 CF ₇	1997 02 06.26452	08 08 48.34	+20 49 14.8	20.3 V	691	1997 CQ ₇	* 1997 02 01.36219	09 13 14.24	+12 02 00.0	19.0 V	691
1997 CG ₇	* 1997 02 01.14002	08 21 55.58	+20 55 50.9	20.2 V	691	1997 CQ ₇	1997 02 01.41757	09 13 11.26	+12 02 25.5	19.0 V	691
1997 CG ₇	1997 02 01.16225	08 21 54.36	+20 55 51.3	20.3 V	691	1997 CQ ₇	1997 02 07.31933	09 08 00.62	+12 48 46.3	19.0 V	691
1997 CG ₇	1997 02 01.18441	08 21 53.13	+20 55 51.4	20.2 V	691	1997 CQ ₇	1997 02 07.34114	09 07 59.46	+12 48 57.1	18.9 V	691
1997 CG ₇	1997 02 06.22460	08 17 24.03	+20 56 01.5	20.0 V	691	1997 CQ ₇	1997 02 07.36275	09 07 58.29	+12 49 07.6	18.9 V	691
1997 CG ₇	1997 02 06.24783	08 17 22.82	+20 56 00.9	20.3 V	691	1997 CR ₇	* 1997 02 01.36396	09 15 48.13	+12 02 59.5	20.0 V	691
1997 CG ₇	1997 02 06.27045	08 17 21.61	+20 56 00.9	20.1 V	691	1997 CR ₇	1997 02 01.39195	09 15 46.44	+12 03 11.7	19.9 V	691
1997 CG ₇	1997 02 14.11636	08 11 01.98	+20 53 30.4	20.7 V	691	1997 CR ₇	1997 02 01.41934	09 15 44.77	+12 03 23.5	20.1 V	691
1997 CG ₇	1997 02 14.13919	08 11 00.95	+20 53 29.0	20.4 V	691	1997 CR ₇	1997 02 07.32036	09 09 53.28	+12 46 14.2	20.0 V	691
1997 CG ₇	1997 02 14.16196	08 10 59.89	+20 53 28.4	20.6 V	691	1997 CR ₇	1997 02 07.34211	09 09 51.94	+12 46 23.7	20.1 V	691
1997 CH ₇	* 1997 02 01.14025	08 22 15.13	+20 52 40.6	20.2 V	691	1997 CR ₇	1997 02 07.36373	09 09 50.60	+12 46 32.9	19.8 V	691
1997 CH ₇	1997 02 01.16247	08 22 13.75	+20 52 43.4	20.5 V	691	1997 CS ₇	* 1997 02 01.36482	09 17 02.64	+12 12 04.1	20.1 V	691
1997 CH ₇	1997 02 01.18463	08 22 12.34	+20 52 45.9	20.5 V	691	1997 CS ₇	1997 02 01.39282	09 17 01.29	+12 12 15.0	20.6 V	691
1997 CH ₇	1997 02 06.22458	08 17 22.53	+21 01 20.8	20.7 V	691	1997 CS ₇	1997 02 01.42021	09 17 00.00	+12 12 25.6	20.0 V	691
1997 CH ₇	1997 02 06.24781	08 17 21.22	+21 01 22.6	20.9 V	691	1997 CS ₇	1997 02 07.32214	09 12 27.92	+12 51 48.9	19.9 V	691
1997 CH ₇	1997 02 06.27043	08 17 19.89	+21 01 24.5	20.9 V	691	1997 CS ₇	1997 02 07.34390	09 12 26.88	+12 51 57.9	19.9 V	691
1997 CJ ₇	* 1997 02 01.14414	08 27 51.88	+20 43 40.4	19.8 V	691	1997 CS ₇	1997 02 07.36552	09 12 25.86	+12 52 06.5	20.3 V	691
1997 CJ ₇	1997 02 01.16636	08 27 50.70	+20 43 45.0	19.5 V	691	1997 CT ₇	* 1997 02 01.36559	09 18 09.11	+12 15 30.5	18.9 V	691
1997 CJ ₇	1997 02 01.18852	08 27 49.54	+20 43 49.4	19.4 V	691	1997 CT ₇	1997 02 01.39358	09 18 07.43	+12 15 36.9	18.9 V	691
1997 CJ ₇	1997 02 06.22891	08 23 38.15	+21 00 22.8	19.8 V	691	1997 CT ₇	1997 02 01.42097	09 18 05.79	+12 15 43.3	19.0 V	691
1997 CJ ₇	1997 02 06.25215	08 23 37.01	+21 00 27.3	19.7 V	691	1997 CT ₇	1997 02 07.32202	09 12 17.68	+12 39 12.0	19.1 V	691
1997 CJ ₇	1997 02 06.27477	08 23 35.90	+21 00 30.9	19.7 V	691	1997 CT ₇	1997 02 07.34377	09 12 16.35	+12 39 17.2	19.0 V	691
1997 CK ₇	* 1997 02 01.14416	08 27 54.39	+20 52 25.3	19.8 V	691	1997 CT ₇	1997 02 07.36540	09 12 15.02	+12 39 22.4	19.2 V	691
1997 CK ₇	1997 02 01.16638	08 27 52.84	+20 52 27.6	19.9 V	691	1997 CT ₇	1997 02 11.29051	09 08 23.93	+12 55 23.3	19.1 V	691
1997 CK ₇	1997 02 01.18854	08 27 51.28	+20 52 30.1	19.8 V	691	1997 CT ₇	1997 02 11.29848	09 08 23.46	+12 55 25.2	19.0 V	691
1997 CK ₇	1997 02 06.22794	08 22 13.96	+21 00 47.9	20.4 V	691	1997 CT ₇	1997 02 11.30587	09 08 23.01	+12 55 26.8	18.9 V	691
1997 CK ₇	1997 02 06.25117	08 22 12.39	+21 00 49.7	20.1 V	691	1997 CT ₇	1997 02 15.26946	09 04 35.51	+13 11 31.8	19.2 V	691
1997 CK ₇	1997 02 06.27378	08 22 10.91	+21 00 52.1	19.9 V	691	1997 CT ₇	1997 02 15.30075	09 04 33.69	+13 11 39.0	19.2 V	691
1997 CL ₇	* 1997 02 01.14442	08 28 16.14	+20 45 04.3	19.2 V	691	1997 CT ₇	1997 02 15.33043	09 04 31.95	+13 11 46.1	19.1 V	691
1997 CL ₇	1997 02 01.16664	08 28 14.58	+20 45 04.8	19.1 V	691	1997 CU ₇	* 1997 02 01.36571	09 18 19.08	+12 13 33.9	19.5 V	691
1997 CL ₇	1997 02 01.18880	08 28 13.02	+20 45 05.4	19.1 V	691	1997 CU ₇	1997 02 01.39369	09 18 17.38	+12 13 42.4	19.4 V	691
1997 CL ₇	1997 02 06.22828	08 22 43.54	+20 45 51.8	19.6 V	691	1997 CU ₇	1997 02 01.42108	09 18 15.71	+12 13 50.8	19.2 V	691
1997 CL ₇	1997 02 06.25151	08 22 42.01	+20 45 51.6	19.6 V	691	1997 CU ₇	1997 02 07.32216	09 12 29.21	+12 45 29.2	19.4 V	691
1997 CL ₇	1997 02 06.27413	08 22 40.57	+20 45 51.5	19.5 V	691	1997 CU ₇	1997 02 07.34391	09 12 27.90	+12 45 35.9	19.5 V	691

1997 CU ₇	1997 02 07.36553	09 12 26.57	+12 45 42.7	19.7 V	691	1997 CD ₈	1997 02 01.39943	09 26 34.55	+12 18 48.1	20.2 V	691
1997 CU ₇	1997 02 11.29068	09 08 39.33	+13 07 07.5	19.5 V	691	1997 CD ₈	1997 02 01.42682	09 26 32.86	+12 18 57.0	20.1 V	691
1997 CU ₇	1997 02 11.29865	09 08 38.82	+13 07 09.4	19.4 V	691	1997 CD ₈	1997 02 07.32784	09 20 41.86	+12 51 10.5	20.3 V	691
1997 CU ₇	1997 02 11.30605	09 08 38.41	+13 07 12.2	19.5 V	691	1997 CD ₈	1997 02 07.34959	09 20 40.53	+12 51 17.8	20.0 V	691
1997 CV ₇	* 1997 02 01.36671	09 19 46.11	+12 06 19.5	19.2 V	691	1997 CD ₈	1997 02 07.37122	09 20 39.16	+12 51 24.9	20.1 V	691
1997 CV ₇	1997 02 01.39470	09 19 44.42	+12 06 29.4	19.0 V	691	1997 CE ₈	* 1997 02 01.37149	09 26 39.82	+12 05 04.6	17.7 V	691
1997 CV ₇	1997 02 01.42209	09 19 42.73	+12 06 39.7	19.3 V	691	1997 CE ₈	1997 02 01.39947	09 26 38.13	+12 05 16.3	17.7 V	691
1997 CV ₇	1997 02 07.32309	09 13 50.13	+12 43 31.8	19.5 V	691	1997 CE ₈	1997 02 01.42686	09 26 36.45	+12 05 27.8	17.3 V	691
1997 CV ₇	1997 02 07.34484	09 13 48.78	+12 43 40.0	19.4 V	691	1997 CE ₈	1997 02 07.32785	09 20 42.39	+12 47 16.6	17.1 V	691
1997 CV ₇	1997 02 07.36646	09 13 47.44	+12 43 48.2	19.3 V	691	1997 CE ₈	1997 02 07.34960	09 20 40.97	+12 47 24.9	16.7 V	691
1997 CW ₇	* 1997 02 01.36675	09 19 49.70	+12 20 21.7	19.3 V	691	1997 CE ₈	1997 02 07.37122	09 20 39.68	+12 47 35.2	17.1 V	691
1997 CW ₇	1997 02 01.39474	09 19 47.73	+12 20 27.2	19.5 V	691	1997 CF ₈	* 1997 02 01.37158	09 26 48.03	+12 21 02.0	20.8 V	691
1997 CW ₇	1997 02 01.42212	09 19 45.84	+12 20 32.8	19.5 V	691	1997 CF ₈	1997 02 01.39957	09 26 46.31	+12 21 07.6	20.9 V	691
1997 CW ₇	1997 02 07.32261	09 13 08.16	+12 40 37.7	19.8 V	691	1997 CF ₈	1997 02 01.42696	09 26 44.63	+12 21 12.6	20.5 V	691
1997 CW ₇	1997 02 07.34435	09 13 06.66	+12 40 42.0	19.6 V	691	1997 CF ₈	1997 02 07.32794	09 20 50.40	+12 42 00.6	21.1 V	691
1997 CW ₇	1997 02 07.36597	09 13 05.16	+12 40 46.5	19.4 V	691	1997 CF ₈	1997 02 07.34969	09 20 49.05	+12 42 05.6	20.8 V	691
1997 CX ₇	* 1997 02 01.36729	09 20 36.17	+12 09 18.0	19.4 V	691	1997 CF ₈	1997 02 07.37131	09 20 47.72	+12 42 09.9	21.0 V	691
1997 CX ₇	1997 02 01.39528	09 20 34.64	+12 09 30.3	19.4 V	691	1997 CG ₈	* 1997 02 01.37160	09 26 49.89	+12 22 13.8	19.8 V	691
1997 CX ₇	1997 02 01.42267	09 20 33.14	+12 09 42.6	19.4 V	691	1997 CG ₈	1997 02 01.39959	09 26 48.21	+12 22 23.0	19.9 V	691
1997 CX ₇	1997 02 07.32412	09 15 18.85	+12 54 07.2	19.6 V	691	1997 CG ₈	1997 02 07.32803	09 20 57.60	+12 56 42.8	20.3 V	691
1997 CX ₇	1997 02 07.34587	09 15 17.64	+12 54 17.0	19.5 V	691	1997 CG ₈	1997 02 07.34978	09 20 56.23	+12 56 50.8	20.3 V	691
1997 CX ₇	1997 02 07.36749	09 15 16.42	+12 54 27.3	19.5 V	691	1997 CG ₈	1997 02 07.37140	09 20 54.88	+12 56 58.1	20.3 V	691
1997 CY ₇	* 1997 02 01.36848	09 22 19.37	+12 21 22.0	19.8 V	691	1997 CH ₈	* 1997 02 01.37173	09 27 00.44	+12 15 34.2	20.1 V	691
1997 CY ₇	1997 02 01.39647	09 22 17.90	+12 21 29.4	19.8 V	691	1997 CH ₈	1997 02 01.39971	09 26 58.79	+12 15 39.7	20.1 V	691
1997 CY ₇	1997 02 01.42386	09 22 16.46	+12 21 37.3	20.1 V	691	1997 CH ₈	1997 02 01.42710	09 26 57.19	+12 15 44.6	20.4 V	691
1997 CY ₇	1997 02 07.32542	09 17 12.17	+12 50 37.8	20.2 V	691	1997 CH ₈	1997 02 07.32825	09 21 17.13	+12 35 20.7	20.4 V	691
1997 CY ₇	1997 02 07.34718	09 17 10.99	+12 50 43.9	19.9 V	691	1997 CH ₈	1997 02 07.35000	09 21 15.78	+12 35 25.6	19.9 V	691
1997 CY ₇	1997 02 07.36880	09 17 09.86	+12 50 50.5	20.1 V	691	1997 CH ₈	1997 02 07.37162	09 21 14.49	+12 35 29.3	20.0 V	691
1997 CZ ₇	* 1997 02 01.36848	09 22 19.53	+12 10 47.6	20.6 V	691	1997 CJ ₈	* 1997 02 01.37312	09 29 00.94	+12 09 39.8	20.7 V	691
1997 CZ ₇	1997 02 01.39647	09 22 18.03	+12 10 54.8	20.7 V	691	1997 CJ ₈	1997 02 01.40110	09 28 59.31	+12 09 47.2	20.6 V	691
1997 CZ ₇	1997 02 01.42386	09 22 16.54	+12 11 01.6	21.0 V	691	1997 CJ ₈	1997 02 01.42849	09 28 57.70	+12 09 53.7	20.8 V	691
1997 CZ ₇	1997 02 07.32533	09 17 03.98	+12 36 12.2	21.0 V	691	1997 CJ ₈	1997 02 07.32966	09 23 19.20	+12 34 57.8	20.6 V	691
1997 CZ ₇	1997 02 07.34708	09 17 02.73	+12 36 17.6	20.4 V	691	1997 CJ ₈	1997 02 07.35141	09 23 17.94	+12 35 03.3	20.6 V	691
1997 CZ ₇	1997 02 07.36870	09 17 01.58	+12 36 23.4	20.8 V	691	1997 CJ ₈	1997 02 07.37303	09 23 16.64	+12 35 08.5	20.8 V	691
1997 CA ₈	* 1997 02 01.36957	09 23 53.56	+12 16 05.4	19.5 V	691	1997 CK ₈	* 1997 02 01.37414	09 30 29.67	+12 08 37.5	19.9 V	691
1997 CA ₈	1997 02 01.39756	09 23 52.00	+12 16 09.9	19.4 V	691	1997 CK ₈	1997 02 01.40213	09 30 28.08	+12 08 49.4	20.0 V	691
1997 CA ₈	1997 02 01.42495	09 23 50.45	+12 16 14.2	19.4 V	691	1997 CK ₈	1997 02 01.42952	09 30 26.53	+12 09 00.0	19.9 V	691
1997 CA ₈	1997 02 07.32627	09 18 25.16	+12 32 32.7	20.7 V	691	1997 CK ₈	1997 02 07.33076	09 24 54.37	+12 49 38.8	20.2 V	691
1997 CA ₈	1997 02 07.34802	09 18 23.91	+12 32 35.9	20.3 V	691	1997 CK ₈	1997 02 07.35251	09 24 53.05	+12 49 48.1	20.0 V	691
1997 CA ₈	1997 02 07.36964	09 18 22.67	+12 32 39.6	20.1 V	691	1997 CK ₈	1997 02 07.37413	09 24 51.81	+12 49 56.7	20.1 V	691
1997 CB ₈	* 1997 02 01.36990	09 24 22.18	+12 01 01.4	20.2 V	691	1997 CL ₈	* 1997 02 01.37670	09 34 11.03	+12 06 56.3	20.8 V	691
1997 CB ₈	1997 02 01.39788	09 24 20.41	+12 01 10.1	20.3 V	691	1997 CL ₈	1997 02 01.40469	09 34 09.77	+12 07 06.0	20.8 V	691
1997 CB ₈	1997 02 07.32612	09 18 12.22	+12 33 51.2	20.2 V	691	1997 CL ₈	1997 02 01.43208	09 34 08.54	+12 07 15.3	20.6 V	691
1997 CB ₈	1997 02 07.34787	09 18 10.77	+12 33 59.0	20.3 V	691	1997 CL ₈	1997 02 07.33414	09 29 47.06	+12 41 14.9	20.9 V	691
1997 CB ₈	1997 02 07.36949	09 18 09.37	+12 34 05.9	20.5 V	691	1997 CL ₈	1997 02 07.35589	09 29 46.03	+12 41 22.7	20.7 V	691
1997 CC ₈	* 1997 02 01.37029	09 24 56.19	+12 27 11.0	18.5 V	691	1997 CL ₈	1997 02 07.37752	09 29 45.04	+12 41 29.7	21.1 V	691
1997 CC ₈	1997 02 01.39828	09 24 54.39	+12 27 17.9	18.6 V	691	1997 CM ₈	* 1997 02 01.37688	09 34 26.71	+12 09 12.6	20.0 V	691
1997 CC ₈	1997 02 01.42566	09 24 52.62	+12 27 24.7	18.6 V	691	1997 CM ₈	1997 02 01.40487	09 34 25.19	+12 09 22.0	20.0 V	691
1997 CC ₈	1997 02 07.32638	09 18 35.41	+12 52 54.2	18.6 V	691	1997 CM ₈	1997 02 01.43226	09 34 23.72	+12 09 30.6	20.1 V	691
1997 CC ₈	1997 02 07.34813	09 18 33.96	+12 53 00.0	18.6 V	691	1997 CM ₈	1997 02 07.33370	09 29 08.85	+12 42 38.6	20.0 V	691
1997 CC ₈	1997 02 07.36975	09 18 32.57	+12 53 05.8	18.5 V	691	1997 CM ₈	1997 02 07.35545	09 29 07.67	+12 42 46.9	19.6 V	691
1997 CD ₈	* 1997 02 01.37145	09 26 36.22	+12 18 38.9	20.3 V	691	1997 CM ₈	1997 02 07.37707	09 29 06.44	+12 42 53.6	20.2 V	691

1997 CN ₈	* 1997 02 01.37708	09 34 44.61	+12 29 18.9	20.1 V	691	1997 CV ₈	1997 02 06.44541	10 23 01.54	+11 25 09.8	19.5 V	691
1997 CN ₈	1997 02 01.40507	09 34 43.07	+12 29 27.9	20.0 V	691	1997 CW ₈	* 1997 02 01.44883	10 26 59.93	+10 40 03.2	20.0 V	691
1997 CN ₈	1997 02 01.43246	09 34 41.57	+12 29 35.8	19.9 V	691	1997 CW ₈	1997 02 01.47048	10 26 59.10	+10 40 10.4	20.3 V	691
1997 CN ₈	1997 02 07.33383	09 29 20.27	+13 00 41.3	19.9 V	691	1997 CW ₈	1997 02 01.50866	10 26 57.52	+10 40 25.7	20.4 V	691
1997 CN ₈	1997 02 07.35558	09 29 19.02	+13 00 49.0	19.9 V	691	1997 CW ₈	1997 02 06.40258	10 23 34.21	+11 12 07.9	20.5 V	691
1997 CN ₈	1997 02 07.37720	09 29 17.82	+13 00 55.8	20.0 V	691	1997 CW ₈	1997 02 06.42437	10 23 33.23	+11 12 16.0	20.9 V	691
1997 CO ₈	* 1997 02 01.37712	09 34 47.30	+12 15 14.9	20.4 V	691	1997 CW ₈	1997 02 06.44577	10 23 32.23	+11 12 24.7	20.2 V	691
1997 CO ₈	1997 02 01.40511	09 34 46.02	+12 15 25.5	20.2 V	691	1997 CX ₈	* 1997 02 01.44913	10 27 25.72	+10 50 23.3	19.9 V	691
1997 CO ₈	1997 02 01.43250	09 34 44.83	+12 15 35.2	20.3 V	691	1997 CX ₈	1997 02 01.47077	10 27 24.65	+10 50 23.2	20.1 V	691
1997 CO ₈	1997 02 07.33455	09 30 22.36	+12 52 30.2	20.6 V	691	1997 CX ₈	1997 02 01.50895	10 27 22.77	+10 50 22.8	19.9 V	691
1997 CO ₈	1997 02 07.35630	09 30 21.33	+12 52 38.5	20.4 V	691	1997 CX ₈	1997 02 07.41220	10 22 21.71	+10 50 51.1	20.1 V	691
1997 CO ₈	1997 02 07.37792	09 30 20.33	+12 52 46.8	20.6 V	691	1997 CX ₈	1997 02 07.43363	10 22 20.54	+10 50 51.5	20.0 V	691
1997 CP ₈	* 1997 02 01.44683	10 24 06.85	+10 55 05.7	20.9 V	691	1997 CX ₈	1997 02 07.45494	10 22 19.40	+10 50 51.8	20.0 V	691
1997 CP ₈	1997 02 01.46847	10 24 05.70	+10 55 13.9	20.8 V	691	1997 CY ₈	* 1997 02 01.44925	10 27 36.03	+10 38 10.5	20.5 V	691
1997 CP ₈	1997 02 01.50665	10 24 03.69	+10 55 27.5	20.3 V	691	1997 CY ₈	1997 02 01.47089	10 27 35.08	+10 38 20.5	20.5 V	691
1997 CP ₈	1997 02 06.39992	10 19 43.66	+11 27 11.1	21.1 V	691	1997 CY ₈	1997 02 01.50908	10 27 33.48	+10 38 38.3	20.3 V	691
1997 CP ₈	1997 02 06.42170	10 19 42.39	+11 27 19.3	20.9 V	691	1997 CY ₈	1997 02 06.40287	10 23 58.74	+11 17 29.4	20.7 V	691
1997 CP ₈	1997 02 06.44310	10 19 41.15	+11 27 27.3	20.6 V	691	1997 CY ₈	1997 02 06.42465	10 23 57.66	+11 17 39.5	21.0 V	691
1997 CQ ₈	* 1997 02 01.44727	10 24 44.68	+10 45 56.0	19.5 V	691	1997 CY ₈	1997 02 06.44605	10 23 56.69	+11 17 49.9	20.6 V	691
1997 CQ ₈	1997 02 01.46891	10 24 43.82	+10 46 02.3	19.8 V	691	1997 CZ ₈	* 1997 02 01.45026	10 29 03.94	+10 52 16.9	19.4 V	691
1997 CQ ₈	1997 02 01.50710	10 24 42.30	+10 46 13.3	19.7 V	691	1997 CZ ₈	1997 02 01.47190	10 29 02.90	+10 52 22.1	19.2 V	691
1997 CQ ₈	1997 02 06.40107	10 21 23.45	+11 10 58.3	19.8 V	691	1997 CZ ₈	1997 02 01.51009	10 29 01.07	+10 52 31.8	19.2 V	691
1997 CQ ₈	1997 02 06.42286	10 21 22.43	+11 11 04.7	19.9 V	691	1997 CZ ₈	1997 02 06.40357	10 24 59.34	+11 14 18.3	19.4 V	691
1997 CQ ₈	1997 02 06.44426	10 21 21.51	+11 11 11.3	19.6 V	691	1997 CZ ₈	1997 02 06.42535	10 24 58.12	+11 14 24.4	19.3 V	691
1997 CR ₈	* 1997 02 01.44769	10 25 21.13	+10 56 38.4	17.9 V	691	1997 CZ ₈	1997 02 06.44675	10 24 56.93	+11 14 30.2	18.8 V	691
1997 CR ₈	1997 02 01.46933	10 25 20.32	+10 56 45.0	17.8 V	691	1997 CA ₉	* 1997 02 01.45058	10 29 31.64	+10 39 14.8	20.2 V	691
1997 CR ₈	1997 02 01.50752	10 25 18.83	+10 56 56.5	17.8 V	691	1997 CA ₉	1997 02 01.47222	10 29 30.51	+10 39 17.7	20.1 V	691
1997 CR ₈	1997 02 06.40155	10 22 04.52	+11 23 04.9	17.8 V	691	1997 CA ₉	1997 02 01.51040	10 29 28.54	+10 39 23.3	20.2 V	691
1997 CR ₈	1997 02 06.42333	10 22 03.59	+11 23 11.9	17.7 V	691	1997 CA ₉	1997 02 07.41350	10 24 14.21	+10 54 33.0	20.1 V	691
1997 CR ₈	1997 02 06.44473	10 22 02.65	+11 23 18.9	17.6 V	691	1997 CA ₉	1997 02 07.43493	10 24 12.94	+10 54 36.2	19.8 V	691
1997 CS ₈	* 1997 02 01.44771	10 25 22.64	+10 55 59.5	18.8 V	691	1997 CA ₉	1997 02 07.45624	10 24 11.72	+10 54 39.7	20.0 V	691
1997 CS ₈	1997 02 01.46935	10 25 21.68	+10 56 04.6	18.8 V	691	1997 CA ₉	1997 02 11.40665	10 20 26.25	+11 05 43.7	20.1 V	691
1997 CS ₈	1997 02 01.50753	10 25 19.91	+10 56 13.4	18.9 V	691	1997 CA ₉	1997 02 11.42826	10 20 24.96	+11 05 47.4	20.2 V	691
1997 CS ₈	1997 02 06.42290	10 21 26.12	+11 16 42.5	19.4 V	691	1997 CA ₉	1997 02 11.45396	10 20 23.44	+11 05 51.8	20.1 V	691
1997 CS ₈	1997 02 06.44430	10 21 25.01	+11 16 48.2	19.2 V	691	1997 CB ₉	* 1997 02 01.45127	10 30 31.03	+10 52 06.4	19.6 V	691
1997 CT ₈	* 1997 02 01.44856	10 26 37.00	+10 35 11.0	19.0 V	691	1997 CB ₉	1997 02 01.47291	10 30 30.09	+10 52 10.9	19.6 V	691
1997 CT ₈	1997 02 01.47021	10 26 36.19	+10 35 18.5	18.9 V	691	1997 CB ₉	1997 02 01.51109	10 30 28.42	+10 52 20.0	19.7 V	691
1997 CT ₈	1997 02 01.50840	10 26 34.72	+10 35 31.8	19.1 V	691	1997 CB ₉	1997 02 06.40482	10 26 48.15	+11 11 58.3	19.6 V	691
1997 CT ₈	1997 02 06.40243	10 23 20.96	+11 04 40.1	19.1 V	691	1997 CB ₉	1997 02 06.42661	10 26 47.07	+11 12 03.8	19.5 V	691
1997 CT ₈	1997 02 06.42421	10 23 19.98	+11 04 47.7	18.8 V	691	1997 CB ₉	1997 02 06.44801	10 26 46.06	+11 12 09.2	19.4 V	691
1997 CT ₈	1997 02 06.44562	10 23 19.12	+11 04 55.7	18.9 V	691	1997 CC ₉	* 1997 02 01.45156	10 30 56.67	+10 33 41.2	20.8 V	691
1997 CU ₈	* 1997 02 01.44863	10 26 42.39	+10 57 37.3	20.1 V	691	1997 CC ₉	1997 02 01.47321	10 30 55.71	+10 33 49.2	20.7 V	691
1997 CU ₈	1997 02 01.47027	10 26 41.59	+10 57 43.1	20.3 V	691	1997 CC ₉	1997 02 01.51139	10 30 53.91	+10 34 02.5	20.6 V	691
1997 CU ₈	1997 02 01.50846	10 26 40.15	+10 57 53.5	20.2 V	691	1997 CC ₉	1997 02 06.40495	10 26 59.06	+11 04 37.6	21.0 V	691
1997 CU ₈	1997 02 06.40253	10 23 29.73	+11 20 25.0	20.5 V	691	1997 CC ₉	1997 02 06.42673	10 26 57.95	+11 04 45.7	21.3 V	691
1997 CU ₈	1997 02 06.42432	10 23 28.81	+11 20 30.9	20.4 V	691	1997 CC ₉	1997 02 06.44813	10 26 56.82	+11 04 54.5	20.8 V	691
1997 CV ₈	1997 02 06.44572	10 23 27.91	+11 20 37.2	20.1 V	691	1997 CD ₉	* 1997 02 01.45220	10 31 52.32	+10 39 05.2	20.5 V	691
1997 CV ₈	* 1997 02 01.44878	10 26 55.67	+10 57 15.5	19.7 V	691	1997 CD ₉	1997 02 01.47385	10 31 51.25	+10 39 07.7	20.6 V	691
1997 CV ₈	1997 02 01.47042	10 26 54.70	+10 57 22.0	19.7 V	691	1997 CD ₉	1997 02 01.51203	10 31 49.35	+10 39 11.7	20.4 V	691
1997 CV ₈	1997 02 01.50861	10 26 52.97	+10 57 34.4	19.8 V	691	1997 CD ₉	1997 02 07.41520	10 26 41.22	+10 51 50.5	20.2 V	691
1997 CV ₈	1997 02 06.40223	10 23 03.79	+11 24 55.5	19.9 V	691	1997 CD ₉	1997 02 07.43663	10 26 39.97	+10 51 52.7	20.6 V	691
1997 CV ₈	1997 02 06.42401	10 23 02.64	+11 25 02.5	20.0 V	691	1997 CD ₉	1997 02 07.45793	10 26 38.76	+10 51 55.8	20.3 V	691

1997 CE ₉	* 1997 02 01.45259	10 32 25.93	+10 59 46.5	18.8 V	691	1997 CM ₉	1997 02 01.47768	10 37 23.18	+10 53 50.8	20.6 V	691
1997 CE ₉	1997 02 01.47424	10 32 24.86	+10 59 48.6	19.0 V	691	1997 CM ₉	1997 02 01.51586	10 37 21.33	+10 53 56.2	20.6 V	691
1997 CE ₉	1997 02 01.51242	10 32 22.98	+10 59 52.2	18.9 V	691	1997 CM ₉	1997 02 06.40935	10 33 20.39	+11 06 54.1	21.1 V	691
1997 CE ₉	1997 02 06.40582	10 28 14.29	+11 09 06.4	18.9 V	691	1997 CM ₉	1997 02 06.43113	10 33 19.20	+11 06 58.2	20.5 V	691
1997 CE ₉	1997 02 06.42760	10 28 13.04	+11 09 09.1	18.8 V	691	1997 CM ₉	1997 02 06.45253	10 33 18.09	+11 07 01.8	20.4 V	691
1997 CE ₉	1997 02 06.44900	10 28 11.84	+11 09 11.6	18.7 V	691	1997 CN ₉	* 1997 02 01.45670	10 38 22.15	+10 35 52.2	20.5 V	691
1997 CF ₉	* 1997 02 01.45279	10 32 42.76	+10 33 31.3	18.6 V	691	1997 CN ₉	1997 02 01.47835	10 38 21.35	+10 35 56.6	20.8 V	691
1997 CF ₉	1997 02 01.47443	10 32 41.52	+10 33 34.5	18.8 V	691	1997 CN ₉	1997 02 01.51654	10 38 19.90	+10 36 05.1	20.4 V	691
1997 CF ₉	1997 02 01.51261	10 32 39.38	+10 33 40.2	18.7 V	691	1997 CN ₉	1997 02 07.42064	10 34 32.30	+10 58 11.8	20.7 V	691
1997 CF ₉	1997 02 07.41536	10 26 54.81	+10 50 15.5	18.8 V	691	1997 CN ₉	1997 02 07.44207	10 34 31.37	+10 58 17.0	20.3 V	691
1997 CF ₉	1997 02 07.43678	10 26 53.44	+10 50 19.2	18.6 V	691	1997 CN ₉	1997 02 07.46338	10 34 30.46	+10 58 22.3	20.8 V	691
1997 CF ₉	1997 02 07.45809	10 26 52.10	+10 50 22.8	18.8 V	691	1997 CN ₉	1997 02 11.41448	10 31 44.43	+11 14 04.7	20.7 V	691
1997 CF ₉	1997 02 11.40824	10 22 44.40	+11 02 28.9	18.7 V	691	1997 CN ₉	1997 02 11.43609	10 31 43.43	+11 14 09.7	20.5 V	691
1997 CF ₉	1997 02 11.42985	10 22 42.97	+11 02 33.2	18.6 V	691	1997 CN ₉	1997 02 11.46179	10 31 42.31	+11 14 16.1	20.7 V	691
1997 CF ₉	1997 02 11.45555	10 22 41.30	+11 02 37.8	18.5 V	691	1997 CO ₉	* 1997 02 01.45747	10 39 28.89	+10 54 11.9	19.1 V	691
1997 CG ₉	* 1997 02 01.45330	10 33 27.38	+10 57 38.1	21.0 V	691	1997 CO ₉	1997 02 01.47912	10 39 27.76	+10 54 18.3	19.2 V	691
1997 CG ₉	1997 02 01.47494	10 33 26.27	+10 57 43.3	21.2 V	691	1997 CO ₉	1997 02 01.51730	10 39 25.81	+10 54 28.5	19.1 V	691
1997 CG ₉	1997 02 01.51313	10 33 24.30	+10 57 52.1	20.8 V	691	1997 CO ₉	1997 02 06.41063	10 35 11.32	+11 18 28.9	19.4 V	691
1997 CG ₉	1997 02 06.40638	10 29 02.97	+11 17 45.1	21.1 V	691	1997 CO ₉	1997 02 06.43241	10 35 10.06	+11 18 34.6	19.0 V	691
1997 CG ₉	1997 02 06.42816	10 29 01.70	+11 17 50.1	21.1 V	691	1997 CO ₉	1997 02 06.45381	10 35 08.81	+11 18 41.9	19.1 V	691
1997 CG ₉	1997 02 06.44956	10 29 00.51	+11 17 56.0	20.9 V	691	1997 CP ₉	* 1997 02 01.45753	10 39 34.07	+10 51 58.2	20.4 V	691
1997 CH ₉	* 1997 02 01.45349	10 33 43.64	+10 39 12.6	18.5 V	691	1997 CP ₉	1997 02 01.47918	10 39 33.05	+10 52 06.3	20.5 V	691
1997 CH ₉	1997 02 01.47513	10 33 42.63	+10 39 16.4	18.9 V	691	1997 CP ₉	1997 02 01.51736	10 39 31.25	+10 52 19.6	20.4 V	691
1997 CH ₉	1997 02 01.51332	10 33 40.88	+10 39 22.8	18.8 V	691	1997 CP ₉	1997 02 06.41090	10 35 34.54	+11 22 06.5	20.7 V	691
1997 CH ₉	1997 02 07.41680	10 28 59.67	+10 58 32.4	18.7 V	691	1997 CP ₉	1997 02 06.43268	10 35 33.38	+11 22 14.9	20.3 V	691
1997 CH ₉	1997 02 07.43823	10 28 58.57	+10 58 36.8	18.8 V	691	1997 CP ₉	1997 02 06.45408	10 35 32.25	+11 22 23.0	20.1 V	691
1997 CH ₉	1997 02 07.45953	10 28 57.47	+10 58 41.2	18.7 V	691	1997 CQ ₉	* 1997 02 01.45791	10 40 06.72	+10 50 49.5	20.3 V	691
1997 CH ₉	1997 02 11.41021	10 25 34.87	+11 12 22.4	18.6 V	691	1997 CQ ₉	1997 02 01.47956	10 40 05.88	+10 50 54.9	20.2 V	691
1997 CH ₉	1997 02 11.43182	10 25 33.72	+11 12 27.0	18.7 V	691	1997 CQ ₉	1997 02 01.51775	10 40 04.50	+10 51 03.8	20.6 V	691
1997 CH ₉	1997 02 11.45752	10 25 32.33	+11 12 32.2	18.6 V	691	1997 CQ ₉	1997 02 06.41180	10 36 52.92	+11 11 35.2	20.7 V	691
1997 CJ ₉	* 1997 02 01.45489	10 35 45.40	+10 35 36.9	18.7 V	691	1997 CQ ₉	1997 02 06.43359	10 36 51.94	+11 11 40.4	20.7 V	691
1997 CJ ₉	1997 02 01.47654	10 35 44.52	+10 35 46.7	18.9 V	691	1997 CQ ₉	1997 02 06.45499	10 36 50.99	+11 11 46.8	20.7 V	691
1997 CJ ₉	1997 02 01.51473	10 35 42.99	+10 36 04.2	18.8 V	691	1997 CR ₉	* 1997 02 01.45864	10 41 09.96	+10 50 17.3	20.5 V	691
1997 CJ ₉	1997 02 06.40862	10 32 17.48	+11 15 28.6	18.9 V	691	1997 CR ₉	1997 02 01.48029	10 41 09.09	+10 50 24.4	20.5 V	691
1997 CJ ₉	1997 02 06.43041	10 32 16.46	+11 15 39.5	18.7 V	691	1997 CR ₉	1997 02 01.51847	10 41 07.51	+10 50 35.9	20.8 V	691
1997 CJ ₉	1997 02 06.45181	10 32 15.44	+11 15 50.2	18.6 V	691	1997 CR ₉	1997 02 06.41234	10 37 39.73	+11 17 03.0	20.7 V	691
1997 CK ₉	* 1997 02 01.45506	10 35 59.36	+10 33 39.9	19.6 V	691	1997 CR ₉	1997 02 06.43413	10 37 38.70	+11 17 10.4	20.3 V	691
1997 CK ₉	1997 02 01.47670	10 35 58.39	+10 33 49.5	19.7 V	691	1997 CR ₉	1997 02 06.45553	10 37 37.76	+11 17 17.8	20.5 V	691
1997 CK ₉	1997 02 01.51489	10 35 56.78	+10 34 06.0	19.5 V	691	1997 CS ₉	* 1997 02 01.45963	10 42 35.49	+10 31 28.8	19.5 V	691
1997 CK ₉	1997 02 06.40863	10 32 17.95	+11 11 49.6	19.9 V	691	1997 CS ₉	1997 02 01.48127	10 42 34.39	+10 31 31.1	19.3 V	691
1997 CK ₉	1997 02 06.43041	10 32 16.89	+11 11 59.8	19.7 V	691	1997 CS ₉	1997 02 01.51945	10 42 32.44	+10 31 34.4	19.5 V	691
1997 CK ₉	1997 02 06.45181	10 32 15.82	+11 12 09.9	19.6 V	691	1997 CS ₉	1997 02 07.42255	10 37 17.69	+10 42 26.6	19.6 V	691
1997 CL ₉	* 1997 02 01.45527	10 36 17.82	+10 53 27.9	20.2 V	691	1997 CS ₉	1997 02 07.44398	10 37 16.41	+10 42 29.0	19.4 V	691
1997 CL ₉	1997 02 01.47691	10 36 16.89	+10 53 29.0	20.5 V	691	1997 CS ₉	1997 02 07.46528	10 37 15.16	+10 42 31.8	19.6 V	691
1997 CL ₉	1997 02 01.51510	10 36 15.28	+10 53 30.3	20.3 V	691	1997 CT ₉	* 1997 02 01.46080	10 44 16.91	+10 39 14.4	18.2 V	691
1997 CL ₉	1997 02 07.41878	10 31 51.17	+10 59 01.5	20.6 V	691	1997 CT ₉	1997 02 01.48245	10 44 16.21	+10 39 27.7	18.2 V	691
1997 CL ₉	1997 02 07.44021	10 31 50.12	+10 59 03.6	20.7 V	691	1997 CT ₉	1997 02 01.52064	10 44 14.98	+10 39 51.3	18.5 V	691
1997 CL ₉	1997 02 07.46152	10 31 49.03	+10 59 04.0	20.4 V	691	1997 CT ₉	1997 02 06.41502	10 41 31.48	+11 32 04.7	18.8 V	691
1997 CL ₉	1997 02 11.41227	10 28 33.38	+11 03 42.9	20.5 V	691	1997 CT ₉	1997 02 06.43681	10 41 30.63	+11 32 19.4	19.1 V	691
1997 CL ₉	1997 02 11.43388	10 28 32.19	+11 03 44.5	20.3 V	691	1997 CT ₉	1997 02 06.45821	10 41 29.82	+11 32 33.4	18.3 V	691
1997 CL ₉	1997 02 11.45958	10 28 30.89	+11 03 47.0	20.3 V	691	1997 CU ₉	* 1997 02 01.46093	10 44 28.20	+10 40 43.6	19.6 V	691
1997 CM ₉	* 1997 02 01.45604	10 37 24.23	+10 53 48.0	20.3 V	691	1997 CU ₉	1997 02 01.48258	10 44 27.25	+10 40 44.6	19.6 V	691

1997 CU ₉	1997 02 01.52076	10 44 25.64	+10 40 46.8	19.7 V	691	1997 CD ₁₀	1997 02 02.18147	08 20 01.11	+20 30 20.1	19.0 V	691
1997 CU ₉	1997 02 07.42447	10 40 04.42	+10 46 49.0	19.5 V	691	1997 CD ₁₀	1997 02 02.20395	08 20 00.01	+20 30 24.6	19.2 V	691
1997 CU ₉	1997 02 07.44590	10 40 03.42	+10 46 50.6	19.4 V	691	1997 CD ₁₀	1997 02 06.24743	08 16 48.23	+20 43 31.0	19.3 V	691
1997 CU ₉	1997 02 07.46721	10 40 02.39	+10 46 51.6	19.4 V	691	1997 CD ₁₀	1997 02 06.27005	08 16 47.09	+20 43 35.3	19.2 V	691
1997 CV ₉	* 1997 02 01.46814	10 23 37.08	+10 45 54.2	19.0 V	691	1997 CE ₁₀	* 1997 02 02.15887	08 20 10.29	+20 12 57.2	20.3 V	691
1997 CV ₉	1997 02 01.50632	10 23 35.10	+10 45 54.9	19.0 V	691	1997 CE ₁₀	1997 02 02.18156	08 20 08.93	+20 12 59.5	20.5 V	691
1997 CV ₉	1997 02 07.40940	10 18 18.74	+10 49 15.3	18.9 V	691	1997 CE ₁₀	1997 02 02.20404	08 20 07.54	+20 13 02.5	20.4 V	691
1997 CV ₉	1997 02 07.43083	10 18 17.51	+10 49 15.6	19.0 V	691	1997 CE ₁₀	1997 02 07.18980	08 15 23.14	+20 21 13.2	20.2 V	691
1997 CV ₉	1997 02 07.45213	10 18 16.25	+10 49 17.2	18.9 V	691	1997 CE ₁₀	1997 02 07.21202	08 15 21.86	+20 21 15.3	20.5 V	691
1997 CW ₉	* 1997 02 02.15053	08 08 08.05	+20 04 36.2	19.3 V	691	1997 CE ₁₀	1997 02 07.23424	08 15 20.62	+20 21 17.6	20.8 V	691
1997 CW ₉	1997 02 02.17323	08 08 06.90	+20 04 39.9	19.3 V	691	1997 CF ₁₀	* 1997 02 02.16124	08 23 35.67	+20 01 27.7	20.2 V	691
1997 CW ₉	1997 02 02.19571	08 08 05.76	+20 04 43.5	19.3 V	691	1997 CF ₁₀	1997 02 02.18394	08 23 34.49	+20 01 33.2	20.6 V	691
1997 CW ₉	1997 02 07.18248	08 04 07.79	+20 16 21.3	19.3 V	691	1997 CF ₁₀	1997 02 02.20642	08 23 33.28	+20 01 38.7	20.6 V	691
1997 CW ₉	1997 02 07.20472	08 04 06.73	+20 16 24.6	19.2 V	691	1997 CF ₁₀	1997 02 07.19260	08 19 25.18	+20 20 13.9	20.2 V	691
1997 CW ₉	1997 02 07.22693	08 04 05.67	+20 16 27.9	19.4 V	691	1997 CF ₁₀	1997 02 07.21482	08 19 24.07	+20 20 18.8	20.6 V	691
1997 CX ₉	* 1997 02 02.15322	08 12 00.50	+20 03 01.7	20.4 V	691	1997 CF ₁₀	1997 02 07.23704	08 19 22.99	+20 20 24.1	20.9 V	691
1997 CX ₉	1997 02 02.19838	08 11 57.47	+20 03 04.6	20.2 V	691	1997 CG ₁₀	* 1997 02 02.16254	08 25 27.72	+20 01 58.4	20.5 V	691
1997 CX ₉	1997 02 07.18377	08 06 40.29	+20 07 37.9	20.4 V	691	1997 CG ₁₀	1997 02 02.18523	08 25 26.23	+20 01 57.9	20.6 V	691
1997 CX ₉	1997 02 07.20598	08 06 38.84	+20 07 40.0	19.9 V	691	1997 CG ₁₀	1997 02 02.20770	08 25 24.79	+20 01 57.9	20.5 V	691
1997 CX ₉	1997 02 07.22820	08 06 37.47	+20 07 40.9	20.7 V	691	1997 CG ₁₀	1997 02 07.26097	08 20 12.61	+20 00 50.8	20.8 V	691
1997 CY ₉	* 1997 02 02.15324	08 12 02.27	+20 06 42.9	20.3 V	691	1997 CG ₁₀	1997 02 07.28374	08 20 11.13	+20 00 50.5	20.7 V	691
1997 CY ₉	1997 02 02.17593	08 12 00.81	+20 06 50.6	20.3 V	691	1997 CG ₁₀	1997 02 07.30611	08 20 09.80	+20 00 50.0	20.4 V	691
1997 CY ₉	1997 02 07.18396	08 06 57.11	+20 32 27.4	19.8 V	691	1997 CH ₁₀	* 1997 02 02.16376	08 27 13.91	+20 30 35.3	19.8 V	691
1997 CY ₉	1997 02 07.20618	08 06 55.82	+20 32 34.3	20.1 V	691	1997 CH ₁₀	1997 02 02.18645	08 27 12.53	+20 30 42.4	20.1 V	691
1997 CY ₉	1997 02 07.22839	08 06 54.45	+20 32 40.5	20.6 V	691	1997 CH ₁₀	1997 02 02.20893	08 27 11.17	+20 30 49.5	19.8 V	691
1997 CZ ₉	* 1997 02 02.15588	08 15 51.55	+20 25 14.8	20.7 V	691	1997 CH ₁₀	1997 02 06.22873	08 23 22.56	+20 51 38.5	20.1 V	691
1997 CZ ₉	1997 02 02.17858	08 15 50.40	+20 25 21.2	20.6 V	691	1997 CH ₁₀	1997 02 06.25197	08 23 21.22	+20 51 44.9	20.1 V	691
1997 CZ ₉	1997 02 02.20106	08 15 49.20	+20 25 26.7	20.0 V	691	1997 CH ₁₀	1997 02 06.27458	08 23 19.92	+20 51 51.6	19.9 V	691
1997 CZ ₉	1997 02 06.22123	08 12 32.57	+20 42 45.2	21.0 V	691	1997 CJ ₁₀	* 1997 02 02.29601	09 20 06.01	+12 56 13.3	20.0 V	691
1997 CZ ₉	1997 02 06.24447	08 12 31.47	+20 42 51.4	20.7 V	691	1997 CJ ₁₀	1997 02 02.36275	09 20 03.53	+12 56 26.3	19.4 V	691
1997 CZ ₉	1997 02 06.26708	08 12 30.35	+20 42 56.6	20.6 V	691	1997 CJ ₁₀	1997 02 02.39514	09 20 02.24	+12 56 31.3	20.1 V	691
1997 CA ₁₀	* 1997 02 02.15649	08 16 44.18	+20 31 57.0	20.1 V	691	1997 CJ ₁₀	1997 02 03.33471	09 19 27.39	+12 59 25.6	20.1 V	691
1997 CA ₁₀	1997 02 02.17918	08 16 42.84	+20 32 04.4	20.2 V	691	1997 CJ ₁₀	1997 02 03.34594	09 19 26.97	+12 59 28.1	20.1 V	691
1997 CA ₁₀	1997 02 02.20166	08 16 41.49	+20 32 12.1	20.1 V	691	1997 CJ ₁₀	1997 02 03.35713	09 19 26.53	+12 59 29.9	20.1 V	691
1997 CA ₁₀	1997 02 06.22148	08 12 53.95	+20 53 16.4	20.7 V	691	1997 CK ₁₀	* 1997 02 02.47436	11 52 09.80	+04 26 09.9	19.7 V	691
1997 CA ₁₀	1997 02 06.24471	08 12 52.58	+20 53 24.8	19.7 V	691	1997 CK ₁₀	1997 02 02.48918	11 52 09.56	+04 26 14.7	19.4 V	691
1997 CA ₁₀	1997 02 06.26733	08 12 51.38	+20 53 30.1	20.4 V	691	1997 CK ₁₀	1997 02 02.50424	11 52 09.32	+04 26 19.7	19.6 V	691
1997 CB ₁₀	* 1997 02 02.15696	08 17 24.87	+20 02 03.1	20.3 V	691	1997 CK ₁₀	1997 02 07.49760	11 50 36.88	+04 55 16.1	19.9 V	691
1997 CB ₁₀	1997 02 02.17965	08 17 23.44	+20 02 07.9	20.5 V	691	1997 CK ₁₀	1997 02 07.51868	11 50 36.41	+04 55 24.2	20.0 V	691
1997 CB ₁₀	1997 02 02.20213	08 17 22.01	+20 02 12.0	20.0 V	691	1997 CL ₁₀	* 1997 02 02.47487	11 52 53.47	+04 29 01.1	20.2 V	691
1997 CB ₁₀	1997 02 07.18779	08 12 29.09	+20 15 52.8	20.5 V	691	1997 CL ₁₀	1997 02 02.48968	11 52 53.16	+04 29 01.5	19.9 V	691
1997 CB ₁₀	1997 02 07.21001	08 12 27.78	+20 15 56.4	20.4 V	691	1997 CL ₁₀	1997 02 02.50474	11 52 52.84	+04 29 01.9	19.9 V	691
1997 CB ₁₀	1997 02 07.23223	08 12 26.48	+20 16 00.4	20.6 V	691	1997 CL ₁₀	1997 02 07.47685	11 50 56.18	+04 33 04.1	20.0 V	691
1997 CB ₁₀	1997 02 14.18239	08 06 36.17	+20 31 14.2	20.5 V	691	1997 CL ₁₀	1997 02 07.49781	11 50 55.58	+04 33 04.5	20.2 V	691
1997 CB ₁₀	1997 02 14.20491	08 06 35.14	+20 31 17.4	20.4 V	691	1997 CL ₁₀	1997 02 07.51889	11 50 55.01	+04 33 06.4	20.1 V	691
1997 CB ₁₀	1997 02 14.22733	08 06 34.12	+20 31 20.3	20.3 V	691	1997 CM ₁₀	* 1997 02 02.47718	11 56 13.90	+04 23 22.4	19.6 V	691
1997 CC ₁₀	* 1997 02 02.15728	08 17 52.87	+20 26 54.3	19.9 V	691	1997 CM ₁₀	1997 02 02.49200	11 56 13.59	+04 23 24.0	19.5 V	691
1997 CC ₁₀	1997 02 02.17998	08 17 51.66	+20 27 03.2	20.1 V	691	1997 CM ₁₀	1997 02 02.50705	11 56 13.27	+04 23 25.8	19.4 V	691
1997 CC ₁₀	1997 02 02.20246	08 17 50.46	+20 27 12.1	19.7 V	691	1997 CM ₁₀	1997 02 07.47913	11 54 13.95	+04 33 13.2	19.6 V	691
1997 CC ₁₀	1997 02 06.24576	08 14 23.51	+20 52 27.9	19.5 V	691	1997 CM ₁₀	1997 02 07.50009	11 54 13.34	+04 33 15.5	19.9 V	691
1997 CC ₁₀	1997 02 06.26838	08 14 22.36	+20 52 36.2	19.5 V	691	1997 CM ₁₀	1997 02 07.52118	11 54 12.71	+04 33 18.6	19.9 V	691
1997 CD ₁₀	* 1997 02 02.15878	08 20 02.25	+20 30 15.3	19.1 V	691	1997 CN ₁₀	* 1997 02 02.47893	11 58 45.21	+04 02 31.0	19.6 V	691

1997 CN ₁₀	1997 02 02.49375	11 58 45.12	+04 02 45.5	19.6 V	691	1997 CV ₁₀	1997 02 07.29879	08 09 35.25	+19 57 55.1	20.6 V	691
1997 CN ₁₀	1997 02 02.50880	11 58 45.07	+04 03 00.1	19.6 V	691	1997 CW ₁₀	* 1997 02 03.16350	08 15 29.45	+19 58 59.4	20.6 V	691
1997 CN ₁₀	1997 02 06.48163	11 58 18.12	+05 10 48.3	19.5 V	691	1997 CW ₁₀	1997 02 03.18554	08 15 28.36	+19 59 03.3	20.9 V	691
1997 CN ₁₀	1997 02 06.50283	11 58 17.80	+05 11 10.2	19.2 V	691	1997 CW ₁₀	1997 02 03.20760	08 15 27.26	+19 59 06.4	21.2 V	691
1997 CN ₁₀	1997 02 06.52414	11 58 17.54	+05 11 33.9	19.2 V	691	1997 CW ₁₀	1997 02 07.18770	08 12 21.13	+20 08 22.2	21.4 V	691
1997 CO ₁₀	* 1997 02 02.47897	11 58 49.03	+04 28 02.4	20.0 V	691	1997 CW ₁₀	1997 02 07.20992	08 12 20.07	+20 08 25.7	21.0 V	691
1997 CO ₁₀	1997 02 02.49379	11 58 48.74	+04 28 07.0	20.1 V	691	1997 CW ₁₀	1997 02 07.23214	08 12 19.03	+20 08 28.3	20.9 V	691
1997 CO ₁₀	1997 02 02.50884	11 58 48.46	+04 28 11.4	20.3 V	691	1997 CW ₁₀	1997 02 14.18303	08 07 30.98	+20 22 14.8	21.0 V	691
1997 CO ₁₀	1997 02 07.48112	11 57 05.94	+04 55 53.4	20.9 V	691	1997 CW ₁₀	1997 02 14.20555	08 07 30.10	+20 22 17.4	21.6 V	691
1997 CO ₁₀	1997 02 07.50208	11 57 05.42	+04 56 00.4	20.6 V	691	1997 CW ₁₀	1997 02 14.22797	08 07 29.18	+20 22 20.1	21.0 V	691
1997 CO ₁₀	1997 02 07.52316	11 57 04.86	+04 56 07.8	20.6 V	691	1997 CX ₁₀	* 1997 02 03.16401	08 16 14.03	+19 57 47.9	20.2 V	691
1997 CP ₁₀	* 1997 02 03.16000	08 10 26.44	+19 38 26.9	17.5 V	691	1997 CX ₁₀	1997 02 03.18605	08 16 12.57	+19 57 55.7	20.6 V	691
1997 CP ₁₀	1997 02 03.18205	08 10 25.23	+19 38 26.9	17.5 V	691	1997 CX ₁₀	1997 02 03.20811	08 16 11.12	+19 58 03.4	20.7 V	691
1997 CP ₁₀	1997 02 03.20410	08 10 24.01	+19 38 26.5	17.4 V	691	1997 CX ₁₀	1997 02 07.18746	08 12 00.35	+20 20 59.4	20.3 V	691
1997 CP ₁₀	1997 02 07.25172	08 06 51.55	+19 36 44.9	17.8 V	691	1997 CX ₁₀	1997 02 07.20968	08 11 58.95	+20 21 06.1	20.8 V	691
1997 CP ₁₀	1997 02 07.27450	08 06 50.36	+19 36 44.1	17.7 V	691	1997 CX ₁₀	1997 02 07.23189	08 11 57.59	+20 21 13.8	21.1 V	691
1997 CP ₁₀	1997 02 07.29687	08 06 49.18	+19 36 43.6	17.5 V	691	1997 CY ₁₀	* 1997 02 03.16422	08 16 32.00	+19 47 03.0	19.7 V	691
1997 CQ ₁₀	* 1997 02 03.16078	08 11 34.50	+19 58 05.7	19.6 V	691	1997 CY ₁₀	1997 02 03.18626	08 16 30.46	+19 47 07.0	20.0 V	691
1997 CQ ₁₀	1997 02 03.18283	08 11 33.35	+19 58 09.9	20.0 V	691	1997 CY ₁₀	1997 02 03.20831	08 16 28.97	+19 47 11.2	19.9 V	691
1997 CQ ₁₀	1997 02 03.20489	08 11 32.20	+19 58 13.3	20.2 V	691	1997 CY ₁₀	1997 02 07.25534	08 12 05.04	+19 58 22.1	20.0 V	691
1997 CQ ₁₀	1997 02 07.18481	08 08 11.08	+20 11 35.1	20.5 V	691	1997 CY ₁₀	1997 02 07.27811	08 12 03.55	+19 58 25.9	20.1 V	691
1997 CQ ₁₀	1997 02 07.20704	08 08 09.89	+20 11 38.8	20.5 V	691	1997 CY ₁₀	1997 02 07.30048	08 12 02.06	+19 58 29.1	20.0 V	691
1997 CQ ₁₀	1997 02 07.22925	08 08 08.71	+20 11 42.0	20.9 V	691	1997 CY ₁₀	1997 02 14.18159	08 05 22.93	+20 14 10.5	19.9 V	691
1997 CR ₁₀	* 1997 02 03.16081	08 11 37.03	+19 48 13.7	20.6 V	691	1997 CY ₁₀	1997 02 14.20411	08 05 21.72	+20 14 13.1	19.9 V	691
1997 CR ₁₀	1997 02 03.18286	08 11 35.93	+19 48 15.6	20.7 V	691	1997 CY ₁₀	1997 02 14.22650	08 05 20.48	+20 14 15.9	20.1 V	691
1997 CR ₁₀	1997 02 03.20492	08 11 34.80	+19 48 17.7	20.8 V	691	1997 CZ ₁₀	* 1997 02 03.16473	08 17 16.56	+19 35 52.4	19.8 V	691
1997 CR ₁₀	1997 02 07.25273	08 08 18.99	+19 52 56.4	20.8 V	691	1997 CZ ₁₀	1997 02 03.18678	08 17 15.50	+19 35 57.4	20.2 V	691
1997 CR ₁₀	1997 02 07.27551	08 08 17.87	+19 52 57.8	20.8 V	691	1997 CZ ₁₀	1997 02 03.20884	08 17 14.39	+19 36 02.3	20.2 V	691
1997 CR ₁₀	1997 02 07.29788	08 08 16.82	+19 52 59.4	20.9 V	691	1997 CZ ₁₀	1997 02 07.25673	08 14 05.25	+19 50 42.8	20.4 V	691
1997 CS ₁₀	* 1997 02 03.16116	08 12 07.07	+19 51 56.5	18.9 V	691	1997 CZ ₁₀	1997 02 07.27951	08 14 04.17	+19 50 47.4	20.4 V	691
1997 CS ₁₀	1997 02 03.18321	08 12 05.77	+19 51 57.5	19.3 V	691	1997 CZ ₁₀	1997 02 07.30188	08 14 03.13	+19 50 52.5	19.9 V	691
1997 CS ₁₀	1997 02 03.20526	08 12 04.42	+19 51 59.4	19.5 V	691	1997 CZ ₁₀	1997 02 14.18420	08 09 12.67	+20 13 30.2	20.1 V	691
1997 CS ₁₀	1997 02 07.25266	08 08 13.15	+19 56 06.9	19.7 V	691	1997 CZ ₁₀	1997 02 14.22914	08 09 10.87	+20 13 38.8	20.4 V	691
1997 CS ₁₀	1997 02 07.27544	08 08 11.86	+19 56 08.4	19.6 V	691	1997 CA ₁₁	* 1997 02 03.16755	08 21 20.83	+19 56 09.8	19.9 V	691
1997 CS ₁₀	1997 02 07.29781	08 08 10.57	+19 56 09.7	19.7 V	691	1997 CA ₁₁	1997 02 03.21165	08 21 18.19	+19 56 26.3	20.4 V	691
1997 CT ₁₀	* 1997 02 03.16166	08 12 50.44	+19 49 16.5	20.1 V	691	1997 CA ₁₁	1997 02 07.19125	08 17 28.84	+20 20 20.4	20.5 V	691
1997 CT ₁₀	1997 02 03.18371	08 12 49.34	+19 49 18.8	20.3 V	691	1997 CA ₁₁	1997 02 07.21347	08 17 27.52	+20 20 27.7	20.3 V	691
1997 CT ₁₀	1997 02 03.20576	08 12 48.27	+19 49 21.2	19.9 V	691	1997 CA ₁₁	1997 02 07.23569	08 17 26.24	+20 20 36.0	20.5 V	691
1997 CT ₁₀	1997 02 07.25360	08 09 33.85	+19 54 40.9	20.6 V	691	1997 CA ₁₁	1997 02 14.13945	08 11 23.21	+20 58 38.2	20.1 V	691
1997 CT ₁₀	1997 02 07.27637	08 09 32.74	+19 54 42.6	20.5 V	691	1997 CA ₁₁	1997 02 14.16222	08 11 22.05	+20 58 45.8	20.3 V	691
1997 CT ₁₀	1997 02 07.29875	08 09 31.69	+19 54 44.2	20.5 V	691	1997 CB ₁₁	* 1997 02 03.16785	08 21 46.24	+19 44 10.7	19.5 V	691
1997 CU ₁₀	* 1997 02 03.16174	08 12 57.00	+19 37 17.5	19.8 V	691	1997 CB ₁₁	1997 02 03.18989	08 21 45.07	+19 44 13.3	19.8 V	691
1997 CU ₁₀	1997 02 03.18378	08 12 55.87	+19 37 19.7	20.0 V	691	1997 CB ₁₁	1997 02 03.21195	08 21 43.89	+19 44 16.4	19.9 V	691
1997 CU ₁₀	1997 02 03.20584	08 12 54.74	+19 37 22.0	20.1 V	691	1997 CB ₁₁	1997 02 07.25963	08 18 16.42	+19 52 47.8	20.0 V	691
1997 CU ₁₀	1997 02 07.25364	08 09 37.27	+19 43 59.9	20.4 V	691	1997 CB ₁₁	1997 02 07.28240	08 18 15.22	+19 52 50.6	19.8 V	691
1997 CU ₁₀	1997 02 07.27641	08 09 36.17	+19 44 02.1	20.2 V	691	1997 CB ₁₁	1997 02 07.30478	08 18 14.08	+19 52 53.7	19.9 V	691
1997 CV ₁₀	1997 02 07.29879	08 09 35.06	+19 44 03.8	20.5 V	691	1997 CC ₁₁	* 1997 02 03.16918	08 23 41.66	+19 54 37.2	19.9 V	691
1997 CV ₁₀	* 1997 02 03.16221	08 13 38.15	+20 00 22.5	20.4 V	691	1997 CC ₁₁	1997 02 03.19122	08 23 40.29	+19 54 40.1	20.3 V	691
1997 CV ₁₀	1997 02 03.18426	08 13 36.76	+20 00 22.6	20.6 V	691	1997 CC ₁₁	1997 02 03.21328	08 23 38.92	+19 54 42.8	20.2 V	691
1997 CV ₁₀	1997 02 03.20631	08 13 35.44	+20 00 21.7	20.6 V	691	1997 CC ₁₁	1997 02 07.19290	08 19 51.26	+20 02 23.8	20.3 V	691
1997 CV ₁₀	1997 02 07.25364	08 09 37.89	+19 57 56.6	20.9 V	691	1997 CC ₁₁	1997 02 07.21512	08 19 49.99	+20 02 26.0	20.1 V	691
1997 CV ₁₀	1997 02 07.27642	08 09 36.57	+19 57 56.4	20.3 V	691	1997 CC ₁₁	1997 02 07.23733	08 19 48.69	+20 02 29.1	20.6 V	691

1997 CC ₁₁	1997 02 14.18755	08 14 02.90	+20 12 32.3	20.4 V	691	1997 CL ₁₁	1997 02 03.19439	08 28 14.75	+19 53 13.1	20.8 V	691
1997 CC ₁₁	1997 02 14.21007	08 14 01.83	+20 12 34.6	20.6 V	691	1997 CL ₁₁	1997 02 03.21644	08 28 13.24	+19 53 18.4	20.6 V	691
1997 CC ₁₁	1997 02 14.23249	08 14 00.79	+20 12 36.0	20.6 V	691	1997 CL ₁₁	1997 02 07.19567	08 23 51.85	+20 09 01.7	20.8 V	691
1997 CD ₁₁	* 1997 02 03.16938	08 23 59.30	+19 59 49.1	20.4 V	691	1997 CL ₁₁	1997 02 07.21789	08 23 50.35	+20 09 06.3	21.0 V	691
1997 CD ₁₁	1997 02 03.19143	08 23 58.15	+19 59 55.6	20.3 V	691	1997 CL ₁₁	1997 02 07.24011	08 23 48.88	+20 09 11.1	21.0 V	691
1997 CD ₁₁	1997 02 03.21348	08 23 56.79	+20 00 02.2	20.1 V	691	1997 CM ₁₁	* 1997 02 03.17273	08 28 49.15	+20 00 30.6	20.0 V	691
1997 CD ₁₁	1997 02 07.19334	08 20 29.76	+20 18 20.4	20.6 V	691	1997 CM ₁₁	1997 02 03.21683	08 28 46.51	+20 00 43.9	20.2 V	691
1997 CD ₁₁	1997 02 07.21556	08 20 28.58	+20 18 26.3	21.0 V	691	1997 CM ₁₁	1997 02 07.19645	08 24 59.47	+20 19 42.0	20.1 V	691
1997 CD ₁₁	1997 02 07.23778	08 20 27.43	+20 18 32.4	20.9 V	691	1997 CM ₁₁	1997 02 07.21868	08 24 58.20	+20 19 48.1	20.3 V	691
1997 CE ₁₁	* 1997 02 03.17011	08 25 02.64	+19 35 45.5	19.5 V	691	1997 CM ₁₁	1997 02 07.24089	08 24 56.93	+20 19 54.6	19.7 V	691
1997 CE ₁₁	1997 02 03.19216	08 25 01.28	+19 35 47.0	19.7 V	691	1997 CN ₁₁	* 1997 02 03.17348	08 29 53.80	+19 35 38.7	20.3 V	691
1997 CE ₁₁	1997 02 03.21421	08 24 59.92	+19 35 48.6	19.7 V	691	1997 CN ₁₁	1997 02 03.19552	08 29 52.37	+19 35 43.4	20.9 V	691
1997 CE ₁₁	1997 02 07.26152	08 21 00.01	+19 39 54.9	19.8 V	691	1997 CN ₁₁	1997 02 03.21757	08 29 50.98	+19 35 47.3	20.5 V	691
1997 CE ₁₁	1997 02 07.28429	08 20 58.65	+19 39 55.8	19.5 V	691	1997 CN ₁₁	1997 02 07.26482	08 25 45.96	+19 48 12.4	20.9 V	691
1997 CE ₁₁	1997 02 07.30666	08 20 57.30	+19 39 57.3	19.8 V	691	1997 CN ₁₁	1997 02 07.28759	08 25 44.57	+19 48 16.3	21.2 V	691
1997 CF ₁₁	* 1997 02 03.17022	08 25 11.76	+19 57 06.1	19.6 V	691	1997 CN ₁₁	1997 02 07.30996	08 25 43.19	+19 48 20.3	21.0 V	691
1997 CF ₁₁	1997 02 03.19226	08 25 10.44	+19 57 08.1	19.8 V	691	1997 CO ₁₁	* 1997 02 03.17408	08 30 46.36	+19 53 41.5	20.5 V	691
1997 CF ₁₁	1997 02 03.21432	08 25 09.11	+19 57 10.5	20.0 V	691	1997 CO ₁₁	1997 02 03.19613	08 30 45.00	+19 53 45.1	20.3 V	691
1997 CF ₁₁	1997 02 07.19405	08 21 30.93	+20 03 02.5	20.0 V	691	1997 CO ₁₁	1997 02 03.21818	08 30 43.66	+19 53 49.3	20.3 V	691
1997 CF ₁₁	1997 02 07.21627	08 21 29.70	+20 03 04.3	19.9 V	691	1997 CO ₁₁	1997 02 07.19780	08 26 55.89	+20 03 48.5	20.0 V	691
1997 CF ₁₁	1997 02 07.23848	08 21 28.47	+20 03 06.2	19.9 V	691	1997 CO ₁₁	1997 02 07.22002	08 26 54.67	+20 03 52.0	20.0 V	691
1997 CG ₁₁	* 1997 02 03.17056	08 25 41.32	+19 46 12.2	20.2 V	691	1997 CO ₁₁	1997 02 07.24223	08 26 53.31	+20 03 54.7	20.7 V	691
1997 CG ₁₁	1997 02 03.19261	08 25 39.99	+19 46 18.3	20.4 V	691	1997 CP ₁₁	* 1997 02 03.17422	08 30 58.57	+19 47 45.6	20.1 V	691
1997 CG ₁₁	1997 02 03.21466	08 25 38.75	+19 46 26.5	20.7 V	691	1997 CP ₁₁	1997 02 03.19627	08 30 57.06	+19 47 46.5	20.7 V	691
1997 CG ₁₁	1997 02 07.19441	08 22 02.17	+20 07 14.1	20.8 V	691	1997 CP ₁₁	1997 02 03.21832	08 30 55.58	+19 47 47.3	20.7 V	691
1997 CG ₁₁	1997 02 07.21663	08 22 00.96	+20 07 21.0	20.7 V	691	1997 CP ₁₁	1997 02 07.26543	08 26 38.98	+19 49 11.8	20.5 V	691
1997 CG ₁₁	1997 02 07.23885	08 21 59.75	+20 07 27.6	21.3 V	691	1997 CP ₁₁	1997 02 07.28820	08 26 37.47	+19 49 11.9	20.7 V	691
1997 CH ₁₁	* 1997 02 03.17100	08 26 19.72	+19 35 00.1	18.6 V	691	1997 CP ₁₁	1997 02 07.31057	08 26 36.06	+19 49 13.4	20.5 V	691
1997 CH ₁₁	1997 02 03.19305	08 26 18.34	+19 35 07.8	18.8 V	691	1997 CP ₁₁	1997 02 14.26028	08 20 09.78	+19 48 37.3	20.8 V	691
1997 CH ₁₁	1997 02 03.21510	08 26 16.93	+19 35 15.9	19.0 V	691	1997 CP ₁₁	1997 02 14.28708	08 20 08.37	+19 48 35.8	21.1 V	691
1997 CH ₁₁	1997 02 07.26238	08 22 14.93	+19 58 42.4	19.1 V	691	1997 CP ₁₁	1997 02 14.31099	08 20 07.10	+19 48 35.9	21.1 V	691
1997 CH ₁₁	1997 02 07.28516	08 22 13.56	+19 58 49.7	19.1 V	691	1997 CQ ₁₁	* 1997 02 03.17502	08 32 07.85	+19 46 28.3	17.9 V	691
1997 CH ₁₁	1997 02 07.30753	08 22 12.13	+19 58 57.3	18.7 V	691	1997 CQ ₁₁	1997 02 03.19707	08 32 06.61	+19 46 32.0	18.0 V	691
1997 CJ ₁₁	* 1997 02 03.17141	08 26 54.99	+19 30 12.1	19.8 V	691	1997 CQ ₁₁	1997 02 03.21912	08 32 05.39	+19 46 35.8	18.1 V	691
1997 CJ ₁₁	1997 02 03.19346	08 26 53.80	+19 30 20.6	19.9 V	691	1997 CQ ₁₁	1997 02 07.26673	08 28 31.50	+19 57 07.1	18.2 V	691
1997 CJ ₁₁	1997 02 03.21551	08 26 52.62	+19 30 30.7	20.0 V	691	1997 CQ ₁₁	1997 02 07.28951	08 28 30.31	+19 57 10.5	18.2 V	691
1997 CJ ₁₁	1997 02 07.26324	08 23 29.55	+19 57 43.2	20.1 V	691	1997 CQ ₁₁	1997 02 07.31188	08 28 29.11	+19 57 13.6	18.1 V	691
1997 CJ ₁₁	1997 02 07.28602	08 23 28.38	+19 57 52.2	20.2 V	691	1997 CQ ₁₁	1997 02 14.19369	08 22 54.38	+20 12 35.5	18.2 V	691
1997 CJ ₁₁	1997 02 07.30839	08 23 27.28	+19 58 00.8	20.2 V	691	1997 CQ ₁₁	1997 02 14.21621	08 22 53.40	+20 12 38.9	18.0 V	691
1997 CJ ₁₁	1997 02 14.12141	08 18 19.78	+20 40 09.4	20.3 V	691	1997 CQ ₁₁	1997 02 14.23863	08 22 52.24	+20 12 41.0	18.3 V	691
1997 CJ ₁₁	1997 02 14.14425	08 18 18.83	+20 40 17.2	20.1 V	691	1997 CR ₁₁	* 1997 02 03.17524	08 32 26.76	+19 54 49.1	19.3 V	691
1997 CJ ₁₁	1997 02 14.16702	08 18 17.84	+20 40 25.4	20.0 V	691	1997 CR ₁₁	1997 02 03.19728	08 32 25.29	+19 54 46.5	19.7 V	691
1997 CK ₁₁	* 1997 02 03.17173	08 27 22.86	+19 38 11.2	19.9 V	691	1997 CR ₁₁	1997 02 03.21934	08 32 23.86	+19 54 44.0	19.7 V	691
1997 CK ₁₁	1997 02 03.19378	08 27 21.56	+19 38 15.6	20.1 V	691	1997 CR ₁₁	1997 02 07.26652	08 28 13.52	+19 46 00.4	19.8 V	691
1997 CK ₁₁	1997 02 03.21583	08 27 20.25	+19 38 20.6	20.0 V	691	1997 CR ₁₁	1997 02 07.28930	08 28 12.10	+19 45 57.3	19.9 V	691
1997 CK ₁₁	1997 02 07.26328	08 23 32.72	+19 51 16.7	19.8 V	691	1997 CR ₁₁	1997 02 07.31166	08 28 10.70	+19 45 54.2	19.8 V	691
1997 CK ₁₁	1997 02 07.28606	08 23 31.56	+19 51 19.8	19.9 V	691	1997 CS ₁₁	* 1997 02 03.22591	08 25 01.62	+20 33 28.9	20.3 V	691
1997 CK ₁₁	1997 02 07.30843	08 23 30.24	+19 51 23.1	20.3 V	691	1997 CS ₁₁	1997 02 03.23384	08 25 01.16	+20 33 33.3	20.1 V	691
1997 CK ₁₁	1997 02 14.19000	08 17 35.47	+20 10 39.9	20.3 V	691	1997 CS ₁₁	1997 02 03.24190	08 25 00.70	+20 33 37.1	20.3 V	691
1997 CK ₁₁	1997 02 14.21252	08 17 34.33	+20 10 43.8	20.4 V	691	1997 CS ₁₁	1997 02 06.22799	08 22 18.34	+20 57 41.9	20.4 V	691
1997 CK ₁₁	1997 02 14.23494	08 17 33.25	+20 10 47.0	20.3 V	691	1997 CS ₁₁	1997 02 06.25123	08 22 17.04	+20 57 52.9	20.2 V	691
1997 CL ₁₁	* 1997 02 03.17235	08 28 16.25	+19 53 07.4	20.5 V	691	1997 CS ₁₁	1997 02 06.27384	08 22 15.82	+20 58 03.5	20.0 V	691

1997 CT ₁₁	* 1997 02 03.22939	08 30 03.66	+20 14 55.8	20.9 V	691	1997 CA ₁₂	* 1997 02 03.37121	10 20 42.49	+10 05 46.8	20.0 V	691
1997 CT ₁₁	1997 02 03.23732	08 30 03.16	+20 14 58.1	21.2 V	691	1997 CA ₁₂	1997 02 03.39258	10 20 41.53	+10 06 19.9	20.4 V	691
1997 CT ₁₁	1997 02 03.24539	08 30 02.64	+20 14 59.6	21.1 V	691	1997 CA ₁₂	1997 02 03.41378	10 20 40.56	+10 06 53.0	20.6 V	691
1997 CT ₁₁	1997 02 04.23485	08 29 03.93	+20 19 11.5	20.9 V	691	1997 CA ₁₂	1997 02 06.39908	10 18 30.36	+11 25 10.8	20.5 V	691
1997 CT ₁₁	1997 02 04.24473	08 29 03.36	+20 19 14.3	20.5 V	691	1997 CA ₁₂	1997 02 06.42086	10 18 29.28	+11 25 45.0	20.8 V	691
1997 CU ₁₁	* 1997 02 03.25984	09 13 58.85	+20 43 22.3	19.6 V	691	1997 CA ₁₂	1997 02 06.44226	10 18 28.19	+11 26 19.2	20.6 V	691
1997 CU ₁₁	1997 02 03.28110	09 13 57.47	+20 43 28.1	19.6 V	691	1997 CB ₁₂	* 1997 02 03.37207	10 21 56.48	+10 07 31.9	19.0 V	691
1997 CU ₁₁	1997 02 03.30221	09 13 56.09	+20 43 34.1	19.5 V	691	1997 CB ₁₂	1997 02 03.39343	10 21 55.52	+10 07 43.7	19.3 V	691
1997 CU ₁₁	1997 02 04.28794	09 12 53.45	+20 48 09.8	19.9 V	691	1997 CB ₁₂	1997 02 03.41463	10 21 54.63	+10 07 54.9	19.4 V	691
1997 CU ₁₁	1997 02 04.29651	09 12 52.87	+20 48 12.0	19.5 V	691	1997 CB ₁₂	1997 02 07.40993	10 19 05.15	+10 45 16.7	19.0 V	691
1997 CU ₁₁	1997 02 10.29810	09 06 31.76	+21 14 26.3	19.4 V	691	1997 CB ₁₂	1997 02 07.43137	10 19 04.10	+10 45 29.2	19.2 V	691
1997 CU ₁₁	1997 02 10.30389	09 06 31.38	+21 14 27.5	19.5 V	691	1997 CB ₁₂	1997 02 07.45267	10 19 03.08	+10 45 41.8	19.2 V	691
1997 CU ₁₁	1997 02 10.31054	09 06 31.01	+21 14 29.2	19.4 V	691	1997 CC ₁₂	* 1997 02 03.37222	10 22 09.89	+10 17 08.9	18.9 V	691
1997 CV ₁₁	* 1997 02 03.26082	09 15 23.40	+20 32 13.6	20.5 V	691	1997 CC ₁₂	1997 02 03.39359	10 22 08.75	+10 17 13.4	18.9 V	691
1997 CV ₁₁	1997 02 03.28208	09 15 22.40	+20 32 22.5	20.4 V	691	1997 CC ₁₂	1997 02 03.41478	10 22 07.67	+10 17 17.6	19.1 V	691
1997 CV ₁₁	1997 02 03.30319	09 15 21.36	+20 32 31.3	20.3 V	691	1997 CC ₁₂	1997 02 07.40969	10 18 43.78	+10 31 32.7	19.0 V	691
1997 CV ₁₁	1997 02 04.28870	09 14 34.05	+20 39 21.6	21.0 V	691	1997 CC ₁₂	1997 02 07.43112	10 18 42.66	+10 31 37.0	19.1 V	691
1997 CV ₁₁	1997 02 04.29727	09 14 33.64	+20 39 25.2	20.7 V	691	1997 CC ₁₂	1997 02 07.45242	10 18 41.50	+10 31 42.2	19.0 V	691
1997 CV ₁₁	1997 02 06.29963	09 12 57.47	+20 53 08.2	20.1 V	691	1997 CD ₁₂	* 1997 02 03.37288	10 23 06.75	+10 17 25.7	19.2 V	691
1997 CV ₁₁	1997 02 06.30732	09 12 57.07	+20 53 11.2	20.3 V	691	1997 CD ₁₂	1997 02 03.39425	10 23 05.77	+10 17 33.7	19.3 V	691
1997 CV ₁₁	1997 02 06.31538	09 12 56.70	+20 53 14.3	20.5 V	691	1997 CD ₁₂	1997 02 03.41544	10 23 04.84	+10 17 41.4	19.3 V	691
1997 CW ₁₁	* 1997 02 03.26096	09 15 35.96	+20 39 26.8	20.2 V	691	1997 CD ₁₂	1997 02 07.41069	10 20 10.31	+10 43 10.7	18.7 V	691
1997 CW ₁₁	1997 02 03.28222	09 15 34.58	+20 39 32.7	20.6 V	691	1997 CD ₁₂	1997 02 07.43212	10 20 09.17	+10 43 17.8	19.3 V	691
1997 CW ₁₁	1997 02 03.30333	09 15 33.18	+20 39 38.6	20.2 V	691	1997 CD ₁₂	1997 02 07.45342	10 20 08.19	+10 43 26.4	19.3 V	691
1997 CW ₁₁	1997 02 04.28866	09 14 30.36	+20 43 51.6	20.8 V	691	1997 CD ₁₂	1997 02 11.40462	10 17 03.57	+11 09 42.0	18.8 V	691
1997 CW ₁₁	1997 02 04.29723	09 14 29.80	+20 43 53.4	20.6 V	691	1997 CD ₁₂	1997 02 11.42627	10 17 02.51	+11 09 50.8	18.8 V	691
1997 CW ₁₁	1997 02 06.29922	09 12 22.12	+20 52 13.6	20.4 V	691	1997 CD ₁₂	1997 02 11.45198	10 17 01.20	+11 10 01.1	18.7 V	691
1997 CW ₁₁	1997 02 06.30691	09 12 21.60	+20 52 15.1	20.4 V	691	1997 CE ₁₂	* 1997 02 03.37338	10 23 50.40	+10 03 52.5	18.6 V	691
1997 CW ₁₁	1997 02 06.31497	09 12 21.07	+20 52 17.4	20.2 V	691	1997 CE ₁₂	1997 02 03.39475	10 23 49.45	+10 04 05.2	18.5 V	691
1997 CW ₁₁	1997 02 10.29901	09 08 09.17	+21 07 47.9	20.4 V	691	1997 CE ₁₂	1997 02 03.41595	10 23 48.52	+10 04 17.7	18.7 V	691
1997 CW ₁₁	1997 02 10.30480	09 08 08.80	+21 07 49.3	20.3 V	691	1997 CE ₁₂	1997 02 07.41124	10 20 58.12	+10 45 11.7	18.6 V	691
1997 CW ₁₁	1997 02 10.31142	09 08 08.40	+21 07 50.5	20.4 V	691	1997 CE ₁₂	1997 02 07.43267	10 20 57.07	+10 45 25.1	18.6 V	691
1997 CX ₁₁	* 1997 02 03.26293	09 18 26.80	+20 29 46.6	17.1 V	691	1997 CE ₁₂	1997 02 07.45398	10 20 56.06	+10 45 38.6	18.6 V	691
1997 CX ₁₁	1997 02 03.28419	09 18 25.48	+20 29 56.8	17.1 V	691	1997 CE ₁₂	1997 02 11.40489	10 17 51.18	+11 27 36.4	18.3 V	691
1997 CX ₁₁	1997 02 03.30530	09 18 24.16	+20 30 07.0	17.1 V	691	1997 CE ₁₂	1997 02 11.42655	10 17 50.08	+11 27 50.4	18.4 V	691
1997 CX ₁₁	1997 02 04.29069	09 17 26.18	+20 37 57.5	17.3 V	691	1997 CE ₁₂	1997 02 11.45225	10 17 48.75	+11 28 06.7	18.5 V	691
1997 CX ₁₁	1997 02 04.29926	09 17 25.65	+20 38 01.5	17.3 V	691	1997 CF ₁₂	* 1997 02 03.37397	10 24 41.28	+10 15 51.7	20.0 V	691
1997 CX ₁₁	1997 02 06.30136	09 15 27.30	+20 53 39.4	17.2 V	691	1997 CF ₁₂	1997 02 03.39534	10 24 40.39	+10 15 56.6	20.3 V	691
1997 CX ₁₁	1997 02 06.30904	09 15 26.82	+20 53 43.1	17.2 V	691	1997 CF ₁₂	1997 02 03.41654	10 24 39.49	+10 16 02.2	20.5 V	691
1997 CX ₁₁	1997 02 06.31711	09 15 26.31	+20 53 46.4	17.2 V	691	1997 CF ₁₂	1997 02 07.41186	10 21 52.46	+10 33 04.1	20.6 V	691
1997 CY ₁₁	* 1997 02 03.26516	09 21 39.96	+20 33 05.6	20.2 V	691	1997 CF ₁₂	1997 02 07.43330	10 21 51.50	+10 33 09.6	20.7 V	691
1997 CY ₁₁	1997 02 03.28643	09 21 38.68	+20 33 07.2	19.8 V	691	1997 CF ₁₂	1997 02 07.45461	10 21 50.50	+10 33 15.1	20.3 V	691
1997 CY ₁₁	1997 02 03.30753	09 21 37.41	+20 33 08.9	19.5 V	691	1997 CG ₁₂	* 1997 02 03.37433	10 25 12.75	+10 26 03.8	20.5 V	691
1997 CY ₁₁	1997 02 06.30365	09 18 45.54	+20 36 37.9	19.6 V	691	1997 CG ₁₂	1997 02 03.39570	10 25 11.70	+10 26 12.2	20.3 V	691
1997 CY ₁₁	1997 02 06.31133	09 18 45.10	+20 36 38.2	19.6 V	691	1997 CG ₁₂	1997 02 03.41689	10 25 10.63	+10 26 20.6	20.2 V	691
1997 CY ₁₁	1997 02 06.31940	09 18 44.64	+20 36 39.2	19.8 V	691	1997 CG ₁₂	1997 02 07.41180	10 21 46.57	+10 53 21.9	20.6 V	691
1997 CZ ₁₁	* 1997 02 03.33958	09 26 29.51	+12 41 51.6	20.5 V	691	1997 CG ₁₂	1997 02 07.43323	10 21 45.39	+10 53 30.9	20.6 V	691
1997 CZ ₁₁	1997 02 03.35081	09 26 28.74	+12 41 51.8	20.6 V	691	1997 CG ₁₂	1997 02 07.45453	10 21 44.22	+10 53 39.1	20.4 V	691
1997 CZ ₁₁	1997 02 03.36200	09 26 27.98	+12 41 51.4	20.5 V	691	1997 CG ₁₂	1997 02 11.40506	10 18 09.22	+11 21 26.9	20.5 V	691
1997 CZ ₁₁	1997 02 07.32877	09 22 01.69	+12 41 21.8	20.8 V	691	1997 CG ₁₂	1997 02 11.42668	10 18 07.99	+11 21 36.5	20.4 V	691
1997 CZ ₁₁	1997 02 07.35051	09 22 00.20	+12 41 21.6	20.6 V	691	1997 CG ₁₂	1997 02 11.45238	10 18 06.51	+11 21 46.8	20.5 V	691
1997 CZ ₁₁	1997 02 07.37213	09 21 58.68	+12 41 21.3	20.6 V	691	1997 CH ₁₂	* 1997 02 03.37701	10 29 04.92	+10 04 34.4	20.6 V	691

1997 CH ₁₂	1997 02 03.39838	10 29 04.04	+10 04 42.3	20.6 V	691	1997 CP ₁₂	1997 02 07.46215	10 32 44.42	+10 46 45.2	19.9 V	691
1997 CH ₁₂	1997 02 03.41958	10 29 03.13	+10 04 51.0	20.8 V	691	1997 CP ₁₂	1997 02 11.41271	10 29 11.65	+11 11 45.8	20.4 V	691
1997 CH ₁₂	1997 02 07.41485	10 26 11.26	+10 31 35.2	21.0 V	691	1997 CP ₁₂	1997 02 11.43433	10 29 10.40	+11 11 54.4	20.0 V	691
1997 CH ₁₂	1997 02 07.43629	10 26 10.23	+10 31 44.0	21.0 V	691	1997 CP ₁₂	1997 02 11.46002	10 29 08.94	+11 12 04.0	19.9 V	691
1997 CH ₁₂	1997 02 07.45759	10 26 09.26	+10 31 53.0	20.9 V	691	1997 CQ ₁₂	* 1997 02 03.38346	10 38 23.22	+10 15 05.2	19.4 V	691
1997 CJ ₁₂	* 1997 02 03.37800	10 30 30.37	+10 29 29.7	19.9 V	691	1997 CQ ₁₂	1997 02 03.40483	10 38 22.29	+10 15 12.9	20.0 V	691
1997 CJ ₁₂	1997 02 03.39936	10 30 29.23	+10 29 35.3	19.8 V	691	1997 CQ ₁₂	1997 02 03.42602	10 38 21.38	+10 15 19.0	20.1 V	691
1997 CJ ₁₂	1997 02 03.42056	10 30 28.06	+10 29 40.6	19.8 V	691	1997 CQ ₁₂	1997 02 07.42129	10 35 28.63	+10 35 14.8	20.1 V	691
1997 CJ ₁₂	1997 02 07.41530	10 26 50.29	+10 47 02.2	19.7 V	691	1997 CQ ₁₂	1997 02 07.44272	10 35 27.60	+10 35 21.4	20.0 V	691
1997 CJ ₁₂	1997 02 07.43673	10 26 48.99	+10 47 07.7	20.0 V	691	1997 CQ ₁₂	1997 02 07.46403	10 35 26.63	+10 35 27.0	19.5 V	691
1997 CJ ₁₂	1997 02 07.45804	10 26 47.75	+10 47 13.2	19.9 V	691	1997 CR ₁₂	* 1997 02 03.38393	10 39 04.60	+10 27 54.2	18.8 V	691
1997 CK ₁₂	* 1997 02 03.37825	10 30 52.50	+10 15 13.5	19.3 V	691	1997 CR ₁₂	1997 02 03.40530	10 39 03.59	+10 27 56.3	18.9 V	691
1997 CK ₁₂	1997 02 03.39962	10 30 51.43	+10 15 18.6	19.6 V	691	1997 CR ₁₂	1997 02 03.42650	10 39 02.63	+10 27 58.5	19.1 V	691
1997 CK ₁₂	1997 02 03.42082	10 30 50.29	+10 15 23.6	19.6 V	691	1997 CR ₁₂	1997 02 07.42160	10 35 56.12	+10 35 02.0	19.4 V	691
1997 CK ₁₂	1997 02 07.41565	10 27 20.72	+10 31 55.1	19.6 V	691	1997 CR ₁₂	1997 02 07.44304	10 35 55.04	+10 35 04.4	18.8 V	691
1997 CK ₁₂	1997 02 07.43708	10 27 19.49	+10 32 00.6	19.7 V	691	1997 CR ₁₂	1997 02 07.46434	10 35 53.98	+10 35 06.7	19.1 V	691
1997 CK ₁₂	1997 02 07.45839	10 27 18.28	+10 32 06.3	19.3 V	691	1997 CR ₁₂	1997 02 13.33004	10 30 55.41	+10 46 47.4	19.0 V	691
1997 CK ₁₂	1997 02 13.32368	10 21 44.54	+10 58 09.8	19.1 V	691	1997 CR ₁₂	1997 02 13.36090	10 30 53.73	+10 46 51.4	19.0 V	691
1997 CK ₁₂	1997 02 13.35454	10 21 42.64	+10 58 18.8	19.5 V	691	1997 CR ₁₂	1997 02 13.38236	10 30 52.56	+10 46 53.9	18.9 V	691
1997 CK ₁₂	1997 02 13.37599	10 21 41.35	+10 58 24.8	19.4 V	691	1997 CS ₁₂	* 1997 02 03.38434	10 39 39.91	+10 12 31.1	20.0 V	691
1997 CL ₁₂	* 1997 02 03.37836	10 31 01.30	+10 22 00.3	19.4 V	691	1997 CS ₁₂	1997 02 03.40571	10 39 39.06	+10 12 39.4	20.1 V	691
1997 CL ₁₂	1997 02 03.39972	10 31 00.41	+10 22 05.2	19.4 V	691	1997 CS ₁₂	1997 02 03.42691	10 39 38.26	+10 12 48.2	19.8 V	691
1997 CL ₁₂	1997 02 03.42092	10 30 59.48	+10 22 10.0	19.5 V	691	1997 CS ₁₂	1997 02 07.42236	10 37 01.41	+10 39 55.8	20.2 V	691
1997 CL ₁₂	1997 02 07.41615	10 28 03.78	+10 37 40.6	19.2 V	691	1997 CS ₁₂	1997 02 07.44379	10 37 00.48	+10 40 04.4	20.0 V	691
1997 CL ₁₂	1997 02 07.43758	10 28 02.79	+10 37 45.6	19.4 V	691	1997 CS ₁₂	1997 02 07.46510	10 36 59.49	+10 40 12.7	19.8 V	691
1997 CL ₁₂	1997 02 07.45889	10 28 01.81	+10 37 50.5	19.2 V	691	1997 CS ₁₂	1997 02 11.41615	10 34 09.03	+11 08 19.5	19.7 V	691
1997 CL ₁₂	1997 02 13.32483	10 23 23.74	+11 02 01.4	19.2 V	691	1997 CS ₁₂	1997 02 11.43776	10 34 08.01	+11 08 28.8	20.0 V	691
1997 CL ₁₂	1997 02 13.35569	10 23 22.15	+11 02 09.5	19.4 V	691	1997 CS ₁₂	1997 02 11.46346	10 34 06.83	+11 08 39.5	20.1 V	691
1997 CL ₁₂	1997 02 13.37715	10 23 21.09	+11 02 15.0	19.4 V	691	1997 CT ₁₂	* 1997 02 03.38687	10 43 18.87	+10 00 59.7	20.2 V	691
1997 CM ₁₂	* 1997 02 03.37849	10 31 13.14	+10 17 46.6	18.7 V	691	1997 CT ₁₂	1997 02 03.40824	10 43 18.04	+10 01 10.2	20.4 V	691
1997 CM ₁₂	1997 02 03.39986	10 31 12.16	+10 17 52.0	18.6 V	691	1997 CT ₁₂	1997 02 03.42944	10 43 17.33	+10 01 20.9	20.7 V	691
1997 CM ₁₂	1997 02 03.42106	10 31 11.05	+10 17 57.6	19.0 V	691	1997 CT ₁₂	1997 02 07.42506	10 40 55.19	+10 35 37.9	20.9 V	691
1997 CM ₁₂	1997 02 07.41600	10 27 50.57	+10 35 37.1	19.0 V	691	1997 CT ₁₂	1997 02 07.44649	10 40 54.33	+10 35 48.7	20.4 V	691
1997 CM ₁₂	1997 02 07.43743	10 27 49.41	+10 35 43.0	18.7 V	691	1997 CT ₁₂	1997 02 07.46780	10 40 53.47	+10 36 00.1	20.8 V	691
1997 CM ₁₂	1997 02 07.45874	10 27 48.28	+10 35 49.1	18.7 V	691	1997 CT ₁₂	1997 02 11.41900	10 38 16.21	+11 11 22.5	20.4 V	691
1997 CN ₁₂	* 1997 02 03.37908	10 32 04.44	+10 06 58.3	19.8 V	691	1997 CT ₁₂	1997 02 11.44062	10 38 15.27	+11 11 34.2	20.5 V	691
1997 CN ₁₂	1997 02 03.40045	10 32 03.53	+10 07 06.9	19.8 V	691	1997 CT ₁₂	1997 02 11.46632	10 38 14.15	+11 11 48.3	20.6 V	691
1997 CN ₁₂	1997 02 03.42165	10 32 02.58	+10 07 15.4	19.9 V	691	1997 CU ₁₂	* 1997 02 03.43422	10 16 54.97	+17 53 33.8	20.1 V	691
1997 CN ₁₂	1997 02 07.41686	10 29 05.11	+10 34 37.0	19.9 V	691	1997 CU ₁₂	1997 02 03.45660	10 16 53.45	+17 53 38.0	20.2 V	691
1997 CN ₁₂	1997 02 07.43829	10 29 04.11	+10 34 45.7	19.8 V	691	1997 CU ₁₂	1997 02 03.47914	10 16 51.93	+17 53 42.3	20.1 V	691
1997 CN ₁₂	1997 02 07.45960	10 29 03.08	+10 34 55.2	19.9 V	691	1997 CU ₁₂	1997 02 07.39203	10 12 34.06	+18 06 46.5	20.7 V	691
1997 CO ₁₂	* 1997 02 03.38000	10 33 23.93	+10 26 47.1	18.8 V	691	1997 CU ₁₂	1997 02 07.39972	10 12 33.52	+18 06 48.0	20.8 V	691
1997 CO ₁₂	1997 02 03.40137	10 33 22.84	+10 26 49.6	18.9 V	691	1997 CU ₁₂	1997 02 10.32570	10 09 12.49	+18 16 02.2	19.9 V	691
1997 CO ₁₂	1997 02 03.42256	10 33 21.74	+10 26 52.2	18.9 V	691	1997 CU ₁₂	1997 02 10.33136	10 09 12.10	+18 16 03.4	19.8 V	691
1997 CO ₁₂	1997 02 07.41741	10 29 52.90	+10 35 32.1	18.9 V	691	1997 CU ₁₂	1997 02 10.33701	10 09 11.67	+18 16 04.1	19.8 V	691
1997 CO ₁₂	1997 02 07.43884	10 29 51.70	+10 35 34.8	18.9 V	691	1997 CV ₁₂	* 1997 02 03.43434	10 17 15.54	+17 42 54.2	20.4 V	691
1997 CO ₁₂	1997 02 07.46015	10 29 50.50	+10 35 37.8	18.8 V	691	1997 CV ₁₂	1997 02 03.45672	10 17 14.41	+17 43 04.1	20.5 V	691
1997 CP ₁₂	* 1997 02 03.38190	10 36 08.50	+10 22 00.9	19.3 V	691	1997 CV ₁₂	1997 02 03.47926	10 17 13.26	+17 43 14.7	20.7 V	691
1997 CP ₁₂	1997 02 03.40327	10 36 07.32	+10 22 09.2	20.4 V	691	1997 CV ₁₂	1997 02 07.38718	10 13 59.43	+18 13 58.7	20.2 V	691
1997 CP ₁₂	1997 02 03.42446	10 36 06.28	+10 22 16.7	20.0 V	691	1997 CV ₁₂	1997 02 07.39301	10 13 59.08	+18 14 01.6	20.3 V	691
1997 CP ₁₂	1997 02 07.41942	10 32 46.77	+10 46 29.8	20.3 V	691	1997 CV ₁₂	1997 02 07.40070	10 13 58.71	+18 14 05.3	20.3 V	691
1997 CP ₁₂	1997 02 07.44085	10 32 45.60	+10 46 37.4	19.9 V	691	1997 CW ₁₂	* 1997 02 03.43596	10 19 43.65	+18 00 45.7	20.7 V	691

1997 CW ₁₂	1997 02 03.45833	10 19 42.49	+18 00 51.8	20.8 V	691	1997 CE ₁₃	1997 02 04.21486	08 26 02.45	+19 11 20.1	18.4 V	691
1997 CW ₁₂	1997 02 03.48086	10 19 41.33	+18 00 58.7	20.6 V	691	1997 CE ₁₃	1997 02 07.26303	08 23 11.20	+19 33 26.4	18.6 V	691
1997 CW ₁₂	1997 02 07.38878	10 16 18.20	+18 20 05.1	20.6 V	691	1997 CE ₁₃	1997 02 07.28581	08 23 09.88	+19 33 36.0	18.6 V	691
1997 CW ₁₂	1997 02 07.39461	10 16 17.88	+18 20 07.0	20.7 V	691	1997 CE ₁₃	1997 02 07.30818	08 23 08.59	+19 33 45.5	18.7 V	691
1997 CW ₁₂	1997 02 07.40230	10 16 17.45	+18 20 09.7	20.3 V	691	1997 CF ₁₃	* 1997 02 04.17305	08 30 34.56	+19 25 51.9	19.2 V	691
1997 CX ₁₂	* 1997 02 03.43653	10 20 33.13	+17 57 25.3	20.0 V	691	1997 CF ₁₃	1997 02 04.19567	08 30 33.27	+19 25 53.7	19.5 V	691
1997 CX ₁₂	1997 02 03.45890	10 20 31.78	+17 57 31.3	20.2 V	691	1997 CF ₁₃	1997 02 04.21798	08 30 31.97	+19 25 56.1	19.2 V	691
1997 CX ₁₂	1997 02 03.48143	10 20 30.45	+17 57 37.9	20.1 V	691	1997 CF ₁₃	1997 02 07.26617	08 27 43.26	+19 30 28.5	19.3 V	691
1997 CX ₁₂	1997 02 07.38902	10 16 39.13	+18 16 27.1	19.9 V	691	1997 CF ₁₃	1997 02 07.28895	08 27 41.95	+19 30 30.3	19.4 V	691
1997 CX ₁₂	1997 02 07.39485	10 16 38.77	+18 16 28.8	20.0 V	691	1997 CF ₁₃	1997 02 07.31132	08 27 40.73	+19 30 32.0	19.6 V	691
1997 CX ₁₂	1997 02 07.40254	10 16 38.25	+18 16 30.9	19.9 V	691	1997 CG ₁₃	* 1997 02 04.22780	08 29 56.52	+20 37 25.6	19.8 V	691
1997 CY ₁₂	* 1997 02 04.16011	08 11 53.81	+19 28 28.8	21.1 V	691	1997 CG ₁₃	1997 02 04.23545	08 29 56.13	+20 37 26.2	19.8 V	691
1997 CY ₁₂	1997 02 04.18273	08 11 52.61	+19 28 32.5	20.6 V	691	1997 CG ₁₃	1997 02 04.24533	08 29 55.64	+20 37 27.4	20.1 V	691
1997 CY ₁₂	1997 02 04.20504	08 11 51.43	+19 28 35.1	20.2 V	691	1997 CG ₁₃	1997 02 06.23216	08 28 18.85	+20 40 41.5	19.8 V	691
1997 CY ₁₂	1997 02 07.25336	08 09 13.64	+19 35 34.4	20.9 V	691	1997 CG ₁₃	1997 02 06.25539	08 28 17.72	+20 40 43.4	20.2 V	691
1997 CY ₁₂	1997 02 07.27614	08 09 12.44	+19 35 37.5	20.9 V	691	1997 CG ₁₃	1997 02 06.27801	08 28 16.57	+20 40 45.3	20.4 V	691
1997 CY ₁₂	1997 02 07.29851	08 09 11.25	+19 35 40.7	20.8 V	691	1997 CH ₁₃	* 1997 02 04.28556	09 18 32.53	+20 30 27.5	21.0 V	691
1997 CZ ₁₂	* 1997 02 04.16328	08 16 28.21	+19 16 13.7	18.9 V	691	1997 CH ₁₃	1997 02 04.29145	09 18 32.16	+20 30 29.0	20.9 V	691
1997 CZ ₁₂	1997 02 04.18590	08 16 27.15	+19 16 21.3	19.0 V	691	1997 CH ₁₃	1997 02 04.30002	09 18 31.67	+20 30 31.2	21.1 V	691
1997 CZ ₁₂	1997 02 04.20821	08 16 26.09	+19 16 28.7	19.0 V	691	1997 CH ₁₃	1997 02 06.30231	09 16 49.32	+20 36 08.2	20.8 V	691
1997 CZ ₁₂	1997 02 07.25676	08 14 08.09	+19 32 55.2	18.9 V	691	1997 CH ₁₃	1997 02 06.30999	09 16 48.88	+20 36 10.3	21.2 V	691
1997 CZ ₁₂	1997 02 07.27954	08 14 07.02	+19 33 03.1	18.9 V	691	1997 CH ₁₃	1997 02 06.31806	09 16 48.40	+20 36 11.6	21.2 V	691
1997 CZ ₁₂	1997 02 07.30191	08 14 05.99	+19 33 10.2	19.1 V	691	1997 CR ₁₃	* 1997 02 04.16248	08 15 19.46	+19 09 12.4	19.9 V	691
1997 CA ₁₃	* 1997 02 04.16599	08 20 23.34	+19 28 03.1	20.4 V	691	1997 CR ₁₃	1997 02 04.18511	08 15 18.29	+19 09 16.1	20.1 V	691
1997 CA ₁₃	1997 02 04.18862	08 20 22.25	+19 28 06.6	20.7 V	691	1997 CR ₁₃	1997 02 04.20741	08 15 17.09	+19 09 19.0	19.9 V	691
1997 CA ₁₃	1997 02 04.21092	08 20 21.15	+19 28 10.3	20.9 V	691	1997 CR ₁₃	1997 02 09.27818	08 11 06.03	+19 20 28.7	19.8 V	691
1997 CA ₁₃	1997 02 07.25942	08 17 57.91	+19 35 45.2	20.8 V	691	1997 CR ₁₃	1997 02 09.30051	08 11 04.93	+19 20 31.0	20.2 V	691
1997 CA ₁₃	1997 02 07.28219	08 17 56.83	+19 35 47.9	20.9 V	691	1997 CR ₁₃	1997 02 09.32298	08 11 03.81	+19 20 33.6	20.3 V	691
1997 CA ₁₃	1997 02 07.30457	08 17 55.74	+19 35 51.4	21.1 V	691	1997 CS ₁₃	* 1997 02 04.16294	08 15 59.36	+19 16 17.6	20.1 V	691
1997 CB ₁₃	* 1997 02 04.16608	08 20 30.78	+19 21 44.0	18.1 V	691	1997 CS ₁₃	1997 02 04.18557	08 15 58.23	+19 16 19.3	20.3 V	691
1997 CB ₁₃	1997 02 04.18870	08 20 29.31	+19 21 51.2	18.1 V	691	1997 CS ₁₃	1997 02 04.20788	08 15 57.10	+19 16 20.9	20.1 V	691
1997 CB ₁₃	1997 02 04.21100	08 20 27.83	+19 21 58.2	18.3 V	691	1997 CS ₁₃	1997 02 09.27878	08 11 57.88	+19 21 24.0	20.1 V	691
1997 CB ₁₃	1997 02 07.25894	08 17 16.61	+19 37 28.4	18.3 V	691	1997 CS ₁₃	1997 02 09.30111	08 11 56.84	+19 21 25.2	20.5 V	691
1997 CB ₁₃	1997 02 07.28171	08 17 15.16	+19 37 35.1	18.3 V	691	1997 CS ₁₃	1997 02 09.32358	08 11 55.80	+19 21 26.2	20.1 V	691
1997 CB ₁₃	1997 02 07.30408	08 17 13.73	+19 37 41.7	18.4 V	691	1997 CS ₁₃	1997 02 14.32762	08 08 20.80	+19 25 18.3	20.2 V	691
1997 CB ₁₃	1997 02 14.18521	08 10 40.31	+20 09 31.5	18.2 V	691	1997 CS ₁₃	1997 02 14.35019	08 08 19.83	+19 25 18.9	20.3 V	691
1997 CB ₁₃	1997 02 14.20773	08 10 39.08	+20 09 37.5	18.2 V	691	1997 CS ₁₃	1997 02 14.37677	08 08 18.74	+19 25 19.7	20.5 V	691
1997 CB ₁₃	1997 02 14.23015	08 10 37.84	+20 09 43.3	18.3 V	691	1997 CT ₁₃	* 1997 02 04.16848	08 23 59.35	+19 08 32.3	19.5 V	691
1997 CC ₁₃	* 1997 02 04.16622	08 20 43.35	+19 28 05.9	19.5 V	691	1997 CT ₁₃	1997 02 04.19111	08 23 57.95	+19 08 31.5	19.6 V	691
1997 CC ₁₃	1997 02 04.18885	08 20 42.08	+19 28 09.1	19.8 V	691	1997 CT ₁₃	1997 02 04.21341	08 23 56.54	+19 08 31.1	19.4 V	691
1997 CC ₁₃	1997 02 04.21115	08 20 40.82	+19 28 12.5	20.1 V	691	1997 CT ₁₃	1997 02 09.28360	08 18 54.89	+19 05 55.9	19.4 V	691
1997 CC ₁₃	1997 02 07.25940	08 17 56.26	+19 35 29.6	20.0 V	691	1997 CT ₁₃	1997 02 09.30592	08 18 53.58	+19 05 54.7	19.5 V	691
1997 CC ₁₃	1997 02 07.28217	08 17 55.00	+19 35 32.9	20.0 V	691	1997 CT ₁₃	1997 02 09.32839	08 18 52.25	+19 05 53.7	19.5 V	691
1997 CC ₁₃	1997 02 07.30454	08 17 53.78	+19 35 36.5	19.8 V	691	1997 CY ₁₃	* 1997 02 02.31125	09 15 18.25	+21 05 01.6	20.7 V	691
1997 CD ₁₃	* 1997 02 04.16892	08 24 37.03	+19 24 29.2	20.6 V	691	1997 CY ₁₃	1997 02 02.34379	09 15 16.52	+21 05 04.5	20.2 V	691
1997 CD ₁₃	1997 02 04.19154	08 24 35.63	+19 24 36.9	20.5 V	691	1997 CY ₁₃	1997 02 02.37803	09 15 14.56	+21 05 08.4	20.8 V	691
1997 CD ₁₃	1997 02 04.21385	08 24 34.23	+19 24 45.3	20.1 V	691	1997 CY ₁₃	1997 02 10.29897	09 08 05.33	+21 17 07.0	20.8 V	691
1997 CD ₁₃	1997 02 07.26196	08 21 38.16	+19 41 57.3	20.6 V	691	1997 CY ₁₃	1997 02 10.30476	09 08 05.00	+21 17 07.3	20.8 V	691
1997 CD ₁₃	1997 02 07.28473	08 21 36.90	+19 42 03.8	20.5 V	691	1997 CY ₁₃	1997 02 10.31137	09 08 04.68	+21 17 07.3	20.9 V	691
1997 CD ₁₃	1997 02 07.30710	08 21 35.54	+19 42 11.5	20.7 V	691	1997 CZ ₁₃	* 1997 02 03.09624	03 30 44.37	+20 08 03.9	20.1 V	691
1997 CE ₁₃	* 1997 02 04.16994	08 26 05.12	+19 11 00.3	18.6 V	691	1997 CZ ₁₃	1997 02 03.11881	03 30 44.99	+20 08 02.8	20.2 V	691
1997 CE ₁₃	1997 02 04.19256	08 26 03.78	+19 11 10.0	18.7 V	691	1997 CZ ₁₃	1997 02 03.14114	03 30 45.59	+20 08 01.9	20.0 V	691

1997 CZ ₁₃	1997 02 10.11591	03 34 31.12	+20 05 15.8	20.5 V	691	1997 CH ₁₄	1997 02 10.15752	03 29 34.49	+20 20 14.1	20.2 V	691
1997 CZ ₁₃	1997 02 10.13862	03 34 31.96	+20 05 15.9	20.1 V	691	1997 CJ ₁₄	* 1997 02 04.09107	03 25 31.31	+20 00 19.5	20.4 V	691
1997 CZ ₁₃	1997 02 10.16097	03 34 32.70	+20 05 15.4	20.3 V	691	1997 CJ ₁₄	1997 02 04.11354	03 25 31.88	+20 00 22.9	20.6 V	691
1997 CA ₁₄	* 1997 02 03.09958	03 35 33.14	+20 13 11.4	20.6 V	691	1997 CJ ₁₄	1997 02 04.13585	03 25 32.40	+20 00 25.6	20.9 V	691
1997 CA ₁₄	1997 02 03.12214	03 35 33.74	+20 13 13.1	20.6 V	691	1997 CJ ₁₄	1997 02 10.11166	03 28 23.47	+20 14 50.8	20.9 V	691
1997 CA ₁₄	1997 02 03.14448	03 35 34.29	+20 13 14.6	20.5 V	691	1997 CJ ₁₄	1997 02 10.13437	03 28 24.20	+20 14 54.8	20.5 V	691
1997 CA ₁₄	1997 02 10.11906	03 39 04.54	+20 24 22.2	21.6 V	691	1997 CJ ₁₄	1997 02 10.15672	03 28 24.90	+20 14 58.2	20.5 V	691
1997 CA ₁₄	1997 02 10.14177	03 39 05.15	+20 24 24.6	20.8 V	691	1997 CK ₁₄	* 1997 02 04.09147	03 26 05.40	+19 52 31.3	20.3 V	691
1997 CA ₁₄	1997 02 10.16412	03 39 06.00	+20 24 27.0	21.1 V	691	1997 CK ₁₄	1997 02 04.11393	03 26 06.18	+19 52 35.3	20.6 V	691
1997 CB ₁₄	* 1997 02 03.26033	09 14 41.74	+20 46 50.2	20.8 V	691	1997 CK ₁₄	1997 02 04.13625	03 26 06.91	+19 52 41.0	21.2 V	691
1997 CB ₁₄	1997 02 03.28160	09 14 40.41	+20 46 53.7	20.6 V	691	1997 CK ₁₄	1997 02 10.11267	03 29 50.17	+20 15 08.4	21.3 V	691
1997 CB ₁₄	1997 02 03.30270	09 14 39.09	+20 46 57.0	20.6 V	691	1997 CK ₁₄	1997 02 10.13537	03 29 51.08	+20 15 14.0	20.7 V	691
1997 CB ₁₄	1997 02 10.29864	09 07 36.86	+21 01 50.1	21.0 V	691	1997 CK ₁₄	1997 02 10.15773	03 29 51.97	+20 15 19.1	21.0 V	691
1997 CB ₁₄	1997 02 10.30443	09 07 36.48	+21 01 50.7	20.9 V	691	1997 CL ₁₄	* 1997 02 04.09519	03 31 27.53	+19 38 49.3	19.7 V	691
1997 CB ₁₄	1997 02 10.31104	09 07 36.11	+21 01 51.5	20.7 V	691	1997 CL ₁₄	1997 02 04.11765	03 31 28.41	+19 38 55.3	19.6 V	691
1997 CC ₁₄	* 1997 02 03.28251	09 15 59.23	+20 56 58.1	20.9 V	691	1997 CL ₁₄	1997 02 04.13997	03 31 29.28	+19 39 01.6	19.9 V	691
1997 CC ₁₄	1997 02 03.30361	09 15 57.78	+20 56 59.6	21.1 V	691	1997 CL ₁₄	1997 02 10.11693	03 35 59.31	+20 07 17.1	19.8 V	691
1997 CC ₁₄	1997 02 10.29915	09 08 21.14	+21 04 29.5	22.0 V	691	1997 CL ₁₄	1997 02 10.16199	03 36 01.49	+20 07 30.2	19.8 V	691
1997 CC ₁₄	1997 02 10.30494	09 08 20.75	+21 04 29.7	21.7 V	691	1997 CM ₁₄	* 1997 02 04.09873	03 36 34.24	+19 37 15.9	20.3 V	691
1997 CC ₁₄	1997 02 10.31155	09 08 20.32	+21 04 30.1	21.7 V	691	1997 CM ₁₄	1997 02 04.12120	03 36 35.51	+19 37 23.9	20.2 V	691
1997 CD ₁₄	* 1997 02 03.37593	10 27 30.87	+10 10 10.0	20.9 V	691	1997 CM ₁₄	1997 02 04.14352	03 36 36.75	+19 37 32.2	20.1 V	691
1997 CD ₁₄	1997 02 03.39729	10 27 29.89	+10 10 12.2	21.0 V	691	1997 CM ₁₄	1997 02 10.12158	03 42 42.16	+20 13 08.1	20.5 V	691
1997 CD ₁₄	1997 02 03.41849	10 27 28.88	+10 10 13.9	21.0 V	691	1997 CM ₁₄	1997 02 10.14429	03 42 43.62	+20 13 16.4	20.4 V	691
1997 CD ₁₄	1997 02 10.39424	10 21 48.75	+10 22 27.1	20.4 V	691	1997 CM ₁₄	1997 02 10.16665	03 42 44.98	+20 13 23.8	19.9 V	691
1997 CD ₁₄	1997 02 10.41643	10 21 47.56	+10 22 28.6	21.0 V	691	1997 CN ₁₄	* 1997 02 04.09940	03 37 32.17	+19 59 21.7	20.8 V	691
1997 CD ₁₄	1997 02 10.43822	10 21 46.42	+10 22 31.2	20.7 V	691	1997 CN ₁₄	1997 02 04.12186	03 37 32.61	+19 59 23.5	20.3 V	691
1997 CE ₁₄	* 1997 02 03.37840	10 31 05.34	+10 09 32.0	20.0 V	691	1997 CN ₁₄	1997 02 04.14417	03 37 33.05	+19 59 24.7	20.5 V	691
1997 CE ₁₄	1997 02 03.39977	10 31 04.35	+10 09 32.2	19.9 V	691	1997 CN ₁₄	1997 02 10.11962	03 39 52.32	+20 06 26.1	20.3 V	691
1997 CE ₁₄	1997 02 03.42097	10 31 03.35	+10 09 32.2	19.9 V	691	1997 CN ₁₄	1997 02 10.14232	03 39 52.89	+20 06 27.8	20.6 V	691
1997 CE ₁₄	1997 02 10.39668	10 25 19.90	+10 11 16.5	19.7 V	691	1997 CN ₁₄	1997 02 10.16467	03 39 53.47	+20 06 29.6	20.4 V	691
1997 CE ₁₄	1997 02 10.41887	10 25 18.68	+10 11 16.7	19.7 V	691	1997 CO ₁₄	* 1997 02 04.09998	03 38 22.47	+20 00 21.7	19.6 V	691
1997 CE ₁₄	1997 02 10.44066	10 25 17.53	+10 11 17.4	19.7 V	691	1997 CO ₁₄	1997 02 04.12244	03 38 23.45	+20 00 24.4	19.4 V	691
1997 CE ₁₄	1997 02 16.34960	10 19 58.57	+10 14 00.7	19.8 V	691	1997 CO ₁₄	1997 02 04.14477	03 38 24.43	+20 00 26.6	19.4 V	691
1997 CE ₁₄	1997 02 16.37075	10 19 57.36	+10 14 02.1	19.5 V	691	1997 CO ₁₄	1997 02 10.12205	03 43 22.68	+20 12 22.8	19.6 V	691
1997 CE ₁₄	1997 02 16.39526	10 19 55.96	+10 14 02.7	20.4 V	691	1997 CO ₁₄	1997 02 10.14476	03 43 23.91	+20 12 27.4	19.1 V	691
1997 CF ₁₄	* 1997 02 04.08744	03 20 16.85	+19 34 32.6	20.4 V	691	1997 CO ₁₄	1997 02 10.16711	03 43 25.07	+20 12 28.9	19.7 V	691
1997 CF ₁₄	1997 02 04.10992	03 20 18.59	+19 34 39.4	20.6 V	691	1997 CP ₁₄	* 1997 02 04.10061	03 39 17.48	+19 44 10.2	19.1 V	691
1997 CF ₁₄	1997 02 04.13225	03 20 20.37	+19 34 46.0	20.6 V	691	1997 CP ₁₄	1997 02 04.12308	03 39 18.42	+19 44 18.6	19.1 V	691
1997 CF ₁₄	1997 02 10.11179	03 28 34.67	+20 05 27.2	20.8 V	691	1997 CP ₁₄	1997 02 04.14540	03 39 19.35	+19 44 26.3	19.0 V	691
1997 CF ₁₄	1997 02 10.13451	03 28 36.56	+20 05 34.2	21.0 V	691	1997 CP ₁₄	1997 02 10.12260	03 44 10.55	+20 20 41.8	19.2 V	691
1997 CF ₁₄	1997 02 10.15688	03 28 38.44	+20 05 41.3	21.1 V	691	1997 CP ₁₄	1997 02 10.14531	03 44 11.72	+20 20 50.3	19.1 V	691
1997 CG ₁₄	* 1997 02 04.09020	03 24 15.66	+19 47 29.2	20.7 V	691	1997 CP ₁₄	1997 02 10.16766	03 44 12.87	+20 20 58.3	19.1 V	691
1997 CG ₁₄	1997 02 04.11267	03 24 16.73	+19 47 35.7	21.0 V	691	1997 CQ ₁₄	* 1997 02 04.10082	03 39 35.57	+19 55 09.9	20.0 V	691
1997 CG ₁₄	1997 02 04.13499	03 24 17.81	+19 47 42.1	21.3 V	691	1997 CQ ₁₄	1997 02 04.12328	03 39 36.22	+19 55 12.1	19.5 V	691
1997 CG ₁₄	1997 02 10.11251	03 29 36.72	+20 18 05.6	21.1 V	691	1997 CQ ₁₄	1997 02 04.14560	03 39 36.84	+19 55 14.8	19.5 V	691
1997 CG ₁₄	1997 02 10.13522	03 29 38.01	+20 18 12.6	21.3 V	691	1997 CQ ₁₄	1997 02 10.12176	03 42 58.30	+20 06 41.3	19.9 V	691
1997 CG ₁₄	1997 02 10.15758	03 29 39.30	+20 18 19.8	21.6 V	691	1997 CQ ₁₄	1997 02 10.14447	03 42 59.12	+20 06 44.5	19.6 V	691
1997 CH ₁₄	* 1997 02 04.09055	03 24 45.81	+19 52 34.7	19.9 V	691	1997 CR ₁₄	* 1997 02 04.10922	03 19 17.64	+19 56 59.6	20.3 V	691
1997 CH ₁₄	1997 02 04.11301	03 24 46.69	+19 52 40.6	20.4 V	691	1997 CR ₁₄	1997 02 04.13153	03 19 18.26	+19 57 04.1	20.8 V	691
1997 CH ₁₄	1997 02 04.13534	03 24 47.60	+19 52 45.9	20.0 V	691	1997 CR ₁₄	1997 02 10.10767	03 22 37.34	+20 20 32.3	20.6 V	691
1997 CH ₁₄	1997 02 10.11246	03 29 32.21	+20 20 01.7	20.3 V	691	1997 CR ₁₄	1997 02 10.13037	03 22 38.15	+20 20 37.6	20.7 V	691
1997 CH ₁₄	1997 02 10.13517	03 29 33.37	+20 20 07.8	20.5 V	691	1997 CR ₁₄	1997 02 10.15273	03 22 38.98	+20 20 43.0	20.6 V	691

1997 CS ₁₄	* 1997 02 04.28970	09 16 00.62	+20 27 14.4	19.4 V	691	1997 CY ₁₄	1997 02 15.30758	09 06 32.12	+21 23 11.7	18.5 V	691
1997 CS ₁₄	1997 02 04.29827	09 16 00.11	+20 27 16.5	19.3 V	691	1997 CY ₁₄	1997 02 15.33701	09 06 30.45	+21 23 19.7	18.6 V	691
1997 CS ₁₄	1997 02 10.30045	09 10 13.19	+20 49 58.8	19.5 V	691	1997 CZ ₁₄	1997 02 04.29074	09 17 30.39	+20 27 21.8	19.6 V	691
1997 CS ₁₄	1997 02 10.30623	09 10 12.85	+20 50 00.3	19.4 V	691	1997 CZ ₁₄	1997 02 04.29931	09 17 29.79	+20 27 24.3	19.7 V	691
1997 CS ₁₄	1997 02 10.31285	09 10 12.46	+20 50 01.8	19.4 V	691	1997 CZ ₁₄	* 1997 02 06.30119	09 15 12.90	+20 36 45.5	19.4 V	691
1997 CS ₁₄	1997 02 13.29004	09 07 23.35	+21 00 12.1	19.4 V	691	1997 CZ ₁₄	1997 02 06.30888	09 15 12.34	+20 36 47.6	19.5 V	691
1997 CS ₁₄	1997 02 13.29959	09 07 22.78	+21 00 13.9	19.4 V	691	1997 CZ ₁₄	1997 02 06.31694	09 15 11.76	+20 36 49.5	19.3 V	691
1997 CS ₁₄	1997 02 13.30970	09 07 22.18	+21 00 15.9	19.3 V	691	1997 CZ ₁₄	1997 02 10.30079	09 10 42.87	+20 54 10.8	19.6 V	691
1997 CS ₁₄	1997 02 15.27651	09 05 32.77	+21 06 31.7	19.4 V	691	1997 CZ ₁₄	1997 02 10.30658	09 10 42.47	+20 54 12.2	19.5 V	691
1997 CS ₁₄	1997 02 15.30687	09 05 31.02	+21 06 37.1	19.2 V	691	1997 CZ ₁₄	1997 02 10.31319	09 10 41.99	+20 54 14.0	19.5 V	691
1997 CS ₁₄	1997 02 15.33631	09 05 29.36	+21 06 42.6	19.2 V	691	1997 CZ ₁₄	1997 02 13.29008	09 07 26.92	+21 05 56.2	19.5 V	691
1997 CT ₁₄	* 1997 02 04.35798	10 17 46.64	+17 21 59.3	19.8 V	691	1997 CZ ₁₄	1997 02 13.29963	09 07 26.28	+21 05 58.4	19.5 V	691
1997 CT ₁₄	1997 02 04.38007	10 17 45.44	+17 22 08.4	19.8 V	691	1997 CZ ₁₄	1997 02 13.30974	09 07 25.58	+21 06 00.8	19.4 V	691
1997 CT ₁₄	1997 02 04.40210	10 17 44.22	+17 22 18.7	19.8 V	691	1997 CZ ₁₄	1997 02 15.27637	09 05 20.64	+21 13 06.2	19.7 V	691
1997 CT ₁₄	1997 02 10.32777	10 12 11.87	+18 06 33.8	19.4 V	691	1997 CZ ₁₄	1997 02 15.30673	09 05 18.65	+21 13 12.1	19.5 V	691
1997 CT ₁₄	1997 02 10.33344	10 12 11.53	+18 06 36.1	19.4 V	691	1997 CZ ₁₄	1997 02 15.33616	09 05 16.78	+21 13 19.0	19.3 V	691
1997 CT ₁₄	1997 02 10.33908	10 12 11.19	+18 06 38.7	19.3 V	691	1997 CA ₁₅	* 1997 02 06.30164	09 15 51.16	+20 53 39.8	21.0 V	691
1997 CU ₁₄	* 1997 02 06.29868	09 11 19.32	+20 45 47.9	20.2 V	691	1997 CA ₁₅	1997 02 06.30932	09 15 50.64	+20 53 39.7	20.8 V	691
1997 CU ₁₄	1997 02 06.30636	09 11 18.84	+20 45 50.8	20.2 V	691	1997 CA ₁₅	1997 02 06.31739	09 15 50.08	+20 53 39.1	20.9 V	691
1997 CU ₁₄	1997 02 06.31443	09 11 18.35	+20 45 54.3	20.1 V	691	1997 CA ₁₅	1997 02 10.30134	09 11 30.63	+20 49 41.5	21.2 V	691
1997 CU ₁₄	1997 02 10.29863	09 07 36.16	+21 09 20.9	20.2 V	691	1997 CA ₁₅	1997 02 10.30713	09 11 30.25	+20 49 41.1	20.9 V	691
1997 CU ₁₄	1997 02 10.30442	09 07 35.84	+21 09 22.6	20.2 V	691	1997 CA ₁₅	1997 02 10.31374	09 11 29.77	+20 49 40.8	20.8 V	691
1997 CU ₁₄	1997 02 10.31104	09 07 35.48	+21 09 24.6	20.4 V	691	1997 CB ₁₅	* 1997 02 06.32710	10 21 20.25	+09 44 31.1	19.4 V	691
1997 CV ₁₄	* 1997 02 06.29919	09 12 19.65	+20 55 41.3	18.6 V	691	1997 CB ₁₅	1997 02 06.34849	10 21 19.21	+09 44 34.4	19.2 V	691
1997 CV ₁₄	1997 02 06.30688	09 12 19.18	+20 55 43.9	18.6 V	691	1997 CB ₁₅	1997 02 06.36985	10 21 18.12	+09 44 37.5	19.5 V	691
1997 CV ₁₄	1997 02 06.31495	09 12 18.68	+20 55 46.6	18.6 V	691	1997 CB ₁₅	1997 02 10.45837	10 17 56.80	+09 54 44.8	19.4 V	691
1997 CV ₁₄	1997 02 10.29921	09 08 26.51	+21 17 25.2	18.8 V	691	1997 CB ₁₅	1997 02 10.48000	10 17 55.65	+09 54 48.5	19.5 V	691
1997 CV ₁₄	1997 02 10.30500	09 08 26.17	+21 17 27.1	18.7 V	691	1997 CB ₁₅	1997 02 10.50247	10 17 54.50	+09 54 52.3	19.5 V	691
1997 CV ₁₄	1997 02 10.31162	09 08 25.78	+21 17 28.5	18.5 V	691	1997 CC ₁₅	* 1997 02 06.32728	10 21 35.91	+09 39 16.7	20.9 V	691
1997 CW ₁₄	* 1997 02 06.29926	09 12 25.39	+20 44 42.8	20.3 V	691	1997 CC ₁₅	1997 02 06.34867	10 21 34.77	+09 39 27.3	20.8 V	691
1997 CW ₁₄	1997 02 06.30694	09 12 24.97	+20 44 45.1	20.5 V	691	1997 CC ₁₅	1997 02 06.37003	10 21 33.66	+09 39 37.2	20.7 V	691
1997 CW ₁₄	1997 02 06.31501	09 12 24.41	+20 44 48.2	19.7 V	691	1997 CC ₁₅	1997 02 10.39161	10 18 00.98	+10 12 02.1	20.2 V	691
1997 CW ₁₄	1997 02 10.29951	09 08 51.93	+21 05 34.0	20.3 V	691	1997 CC ₁₅	1997 02 10.41383	10 17 59.70	+10 12 11.8	20.6 V	691
1997 CW ₁₄	1997 02 10.30530	09 08 51.63	+21 05 35.8	20.4 V	691	1997 CC ₁₅	1997 02 10.43562	10 17 58.46	+10 12 22.8	20.7 V	691
1997 CW ₁₄	1997 02 10.31191	09 08 51.26	+21 05 37.7	20.3 V	691	1997 CD ₁₅	* 1997 02 06.32753	10 21 57.59	+09 50 01.7	19.9 V	691
1997 CX ₁₄	* 1997 02 06.30034	09 13 58.47	+20 53 40.5	20.6 V	691	1997 CD ₁₅	1997 02 06.34893	10 21 56.60	+09 50 06.6	20.1 V	691
1997 CX ₁₄	1997 02 06.30802	09 13 57.94	+20 53 42.6	20.5 V	691	1997 CD ₁₅	1997 02 06.37029	10 21 55.67	+09 50 11.4	20.0 V	691
1997 CX ₁₄	1997 02 06.31608	09 13 57.38	+20 53 44.3	20.8 V	691	1997 CD ₁₅	1997 02 10.39229	10 18 59.93	+10 06 05.7	19.9 V	691
1997 CX ₁₄	1997 02 10.30011	09 09 44.08	+21 13 13.9	20.8 V	691	1997 CD ₁₅	1997 02 10.41449	10 18 58.88	+10 06 09.9	19.8 V	691
1997 CX ₁₄	1997 02 10.30590	09 09 43.75	+21 13 15.7	20.6 V	691	1997 CD ₁₅	1997 02 10.43628	10 18 57.86	+10 06 15.2	20.1 V	691
1997 CY ₁₄	1997 02 04.29051	09 17 10.38	+20 24 25.0	18.4 V	691	1997 CE ₁₅	* 1997 02 06.32763	10 22 06.20	+09 34 58.9	20.8 V	691
1997 CY ₁₄	1997 02 04.29908	09 17 09.84	+20 24 28.1	18.4 V	691	1997 CE ₁₅	1997 02 06.34902	10 22 05.23	+09 35 03.6	20.7 V	691
1997 CY ₁₄	* 1997 02 06.30117	09 15 10.39	+20 36 18.3	18.4 V	691	1997 CE ₁₅	1997 02 06.37039	10 22 04.28	+09 35 08.3	20.8 V	691
1997 CY ₁₄	1997 02 06.30885	09 15 09.89	+20 36 21.2	18.4 V	691	1997 CE ₁₅	1997 02 10.45903	10 18 57.57	+09 50 09.3	20.4 V	691
1997 CY ₁₄	1997 02 06.31692	09 15 09.40	+20 36 23.6	18.4 V	691	1997 CE ₁₅	1997 02 10.48066	10 18 56.52	+09 50 14.5	20.9 V	691
1997 CY ₁₄	1997 02 10.30115	09 11 14.19	+20 58 33.7	18.5 V	691	1997 CE ₁₅	1997 02 10.50313	10 18 55.45	+09 50 20.0	20.3 V	691
1997 CY ₁₄	1997 02 10.30694	09 11 13.85	+20 58 35.5	18.6 V	691	1997 CF ₁₅	* 1997 02 06.32774	10 22 16.04	+09 33 57.0	19.2 V	691
1997 CY ₁₄	1997 02 10.31355	09 11 13.41	+20 58 37.0	18.3 V	691	1997 CF ₁₅	1997 02 06.34914	10 22 14.99	+09 34 04.0	19.1 V	691
1997 CY ₁₄	1997 02 13.29073	09 08 23.31	+21 13 44.6	18.6 V	691	1997 CF ₁₅	1997 02 06.37050	10 22 13.96	+09 34 11.3	19.3 V	691
1997 CY ₁₄	1997 02 13.30028	09 08 22.74	+21 13 47.4	18.5 V	691	1997 CF ₁₅	1997 02 10.45902	10 18 56.54	+09 57 14.7	19.1 V	691
1997 CY ₁₄	1997 02 13.31039	09 08 22.15	+21 13 50.4	18.4 V	691	1997 CF ₁₅	1997 02 10.48064	10 18 55.40	+09 57 22.6	19.1 V	691
1997 CY ₁₄	1997 02 15.27722	09 06 33.87	+21 23 03.6	18.6 V	691	1997 CF ₁₅	1997 02 10.50311	10 18 54.23	+09 57 30.9	19.0 V	691

1997 CG ₁₅	* 1997 02 06.32782	10 22 22.51	+09 33 34.3	19.8 V	691	1997 CP ₁₅	1997 02 10.50537	10 22 09.60	+09 57 27.2	20.7 V	691
1997 CG ₁₅	1997 02 06.34921	10 22 21.22	+09 33 39.5	19.7 V	691	1997 CQ ₁₅	* 1997 02 06.33050	10 26 14.39	+09 41 34.6	20.4 V	691
1997 CG ₁₅	1997 02 06.37057	10 22 19.94	+09 33 43.9	20.1 V	691	1997 CQ ₁₅	1997 02 06.35189	10 26 13.46	+09 41 40.0	19.7 V	691
1997 CG ₁₅	1997 02 10.45859	10 18 19.61	+09 47 32.7	19.9 V	691	1997 CQ ₁₅	1997 02 06.37325	10 26 12.54	+09 41 46.1	20.2 V	691
1997 CG ₁₅	1997 02 10.48022	10 18 18.25	+09 47 37.4	20.0 V	691	1997 CQ ₁₅	1997 02 10.39528	10 23 18.86	+10 00 34.3	19.8 V	691
1997 CG ₁₅	1997 02 10.50268	10 18 16.85	+09 47 42.0	20.0 V	691	1997 CQ ₁₅	1997 02 10.41748	10 23 17.83	+10 00 40.0	19.9 V	691
1997 CH ₁₅	* 1997 02 06.32797	10 22 35.64	+09 38 55.2	20.0 V	691	1997 CQ ₁₅	1997 02 10.43927	10 23 16.84	+10 00 46.2	20.1 V	691
1997 CH ₁₅	1997 02 06.34936	10 22 34.48	+09 39 01.7	19.9 V	691	1997 CQ ₁₅	1997 02 16.34875	10 18 44.98	+10 29 49.7	20.0 V	691
1997 CH ₁₅	1997 02 06.37072	10 22 33.41	+09 39 07.4	20.1 V	691	1997 CQ ₁₅	1997 02 16.36991	10 18 43.93	+10 29 56.2	19.8 V	691
1997 CH ₁₅	1997 02 10.45908	10 19 02.10	+09 58 34.7	20.1 V	691	1997 CQ ₁₅	1997 02 16.39441	10 18 42.72	+10 30 03.7	20.5 V	691
1997 CH ₁₅	1997 02 10.48071	10 19 00.89	+09 58 42.0	20.2 V	691	1997 CR ₁₅	* 1997 02 06.33074	10 26 35.85	+09 49 55.5	20.0 V	691
1997 CH ₁₅	1997 02 10.50318	10 18 59.65	+09 58 49.0	20.0 V	691	1997 CR ₁₅	1997 02 06.35214	10 26 34.88	+09 50 04.5	19.9 V	691
1997 CJ ₁₅	* 1997 02 06.32832	10 23 05.67	+09 44 48.5	18.0 V	691	1997 CR ₁₅	1997 02 06.37350	10 26 33.90	+09 50 14.2	20.2 V	691
1997 CJ ₁₅	1997 02 06.34971	10 23 04.78	+09 44 54.2	17.9 V	691	1997 CR ₁₅	1997 02 10.39541	10 23 30.34	+10 20 15.1	19.8 V	691
1997 CJ ₁₅	1997 02 06.37107	10 23 03.88	+09 44 59.8	17.9 V	691	1997 CR ₁₅	1997 02 10.41761	10 23 29.26	+10 20 24.7	19.8 V	691
1997 CJ ₁₅	1997 02 10.39317	10 20 15.69	+10 02 28.0	17.9 V	691	1997 CR ₁₅	1997 02 10.43940	10 23 28.21	+10 20 34.6	19.8 V	691
1997 CJ ₁₅	1997 02 10.41536	10 20 14.69	+10 02 32.9	18.1 V	691	1997 CS ₁₅	* 1997 02 06.33089	10 26 48.84	+09 32 26.1	20.4 V	691
1997 CJ ₁₅	1997 02 10.43715	10 20 13.74	+10 02 38.8	18.1 V	691	1997 CS ₁₅	1997 02 06.35229	10 26 47.79	+09 32 31.2	20.2 V	691
1997 CK ₁₅	* 1997 02 06.32832	10 23 06.12	+09 34 19.8	19.4 V	691	1997 CS ₁₅	1997 02 06.37365	10 26 46.73	+09 32 36.8	20.1 V	691
1997 CK ₁₅	1997 02 06.34971	10 23 04.94	+09 34 24.5	19.3 V	691	1997 CS ₁₅	1997 02 10.46215	10 23 27.44	+09 50 14.9	20.2 V	691
1997 CK ₁₅	1997 02 06.37107	10 23 03.81	+09 34 28.9	19.4 V	691	1997 CS ₁₅	1997 02 10.48377	10 23 26.32	+09 50 20.5	20.3 V	691
1997 CK ₁₅	1997 02 10.45935	10 19 25.20	+09 48 53.9	20.0 V	691	1997 CS ₁₅	1997 02 10.50624	10 23 25.17	+09 50 27.0	20.2 V	691
1997 CK ₁₅	1997 02 10.48098	10 19 24.00	+09 48 58.8	20.0 V	691	1997 CT ₁₅	* 1997 02 06.33090	10 26 49.23	+09 52 45.0	20.1 V	691
1997 CK ₁₅	1997 02 10.50344	10 19 22.73	+09 49 04.0	19.7 V	691	1997 CT ₁₅	1997 02 06.35229	10 26 48.22	+09 52 51.7	20.1 V	691
1997 CL ₁₅	* 1997 02 06.32877	10 23 45.08	+09 36 06.8	20.9 V	691	1997 CT ₁₅	1997 02 06.37365	10 26 47.19	+09 52 59.0	20.0 V	691
1997 CL ₁₅	1997 02 06.35017	10 23 44.03	+09 36 12.6	20.4 V	691	1997 CT ₁₅	1997 02 10.39545	10 23 33.77	+10 15 12.3	20.0 V	691
1997 CL ₁₅	1997 02 06.37153	10 23 43.03	+09 36 17.9	20.4 V	691	1997 CT ₁₅	1997 02 10.41765	10 23 32.64	+10 15 19.6	19.7 V	691
1997 CL ₁₅	1997 02 10.46005	10 20 25.65	+09 52 33.7	20.6 V	691	1997 CT ₁₅	1997 02 10.43944	10 23 31.57	+10 15 27.1	19.7 V	691
1997 CL ₁₅	1997 02 10.48167	10 20 24.55	+09 52 39.0	20.6 V	691	1997 CT ₁₅	1997 02 13.32326	10 21 07.63	+10 31 47.4	19.9 V	691
1997 CL ₁₅	1997 02 10.50414	10 20 23.44	+09 52 45.0	20.7 V	691	1997 CT ₁₅	1997 02 13.35412	10 21 06.22	+10 31 58.7	19.5 V	691
1997 CM ₁₅	* 1997 02 06.32928	10 24 29.07	+09 30 49.7	21.1 V	691	1997 CT ₁₅	1997 02 13.37558	10 21 05.05	+10 32 07.6	19.5 V	691
1997 CM ₁₅	1997 02 06.35067	10 24 28.14	+09 30 56.8	21.1 V	691	1997 CU ₁₅	* 1997 02 06.33101	10 26 59.00	+09 49 45.0	18.0 V	691
1997 CM ₁₅	1997 02 06.37204	10 24 27.31	+09 31 03.2	21.1 V	691	1997 CU ₁₅	1997 02 06.35240	10 26 57.87	+09 49 44.5	18.0 V	691
1997 CM ₁₅	1997 02 10.46091	10 21 40.53	+09 51 50.2	21.0 V	691	1997 CU ₁₅	1997 02 06.37376	10 26 56.74	+09 49 44.6	17.8 V	691
1997 CM ₁₅	1997 02 10.48254	10 21 39.55	+09 51 57.4	20.8 V	691	1997 CU ₁₅	1997 02 10.46208	10 23 21.76	+09 49 37.9	17.7 V	691
1997 CN ₁₅	* 1997 02 06.32970	10 25 05.65	+09 55 51.2	19.2 V	691	1997 CU ₁₅	1997 02 10.48371	10 23 20.60	+09 49 37.7	17.3 V	691
1997 CN ₁₅	1997 02 06.35109	10 25 04.41	+09 55 54.9	19.0 V	691	1997 CU ₁₅	1997 02 10.50617	10 23 19.33	+09 49 38.4	17.4 V	691
1997 CN ₁₅	1997 02 06.37245	10 25 03.16	+09 55 58.9	19.4 V	691	1997 CV ₁₅	* 1997 02 06.33120	10 27 15.72	+09 47 38.5	20.1 V	691
1997 CN ₁₅	1997 02 10.39379	10 21 09.69	+10 08 40.9	19.1 V	691	1997 CV ₁₅	1997 02 06.35260	10 27 14.64	+09 47 42.9	20.0 V	691
1997 CN ₁₅	1997 02 10.41598	10 21 08.31	+10 08 44.4	19.0 V	691	1997 CV ₁₅	1997 02 06.37396	10 27 13.58	+09 47 47.7	20.1 V	691
1997 CN ₁₅	1997 02 10.43777	10 21 06.96	+10 08 48.8	19.1 V	691	1997 CV ₁₅	1997 02 10.39570	10 23 55.00	+10 02 32.7	19.8 V	691
1997 CO ₁₅	* 1997 02 06.32973	10 25 08.39	+09 46 41.7	21.0 V	691	1997 CV ₁₅	1997 02 10.41789	10 23 53.81	+10 02 37.3	19.8 V	691
1997 CO ₁₅	1997 02 06.35113	10 25 07.45	+09 46 47.6	20.7 V	691	1997 CV ₁₅	1997 02 10.43968	10 23 52.67	+10 02 41.4	19.8 V	691
1997 CO ₁₅	1997 02 06.37249	10 25 06.55	+09 46 53.4	21.1 V	691	1997 CV ₁₅	1997 02 16.34876	10 18 45.83	+10 25 27.4	20.0 V	691
1997 CO ₁₅	1997 02 10.39453	10 22 13.50	+10 05 47.2	20.5 V	691	1997 CV ₁₅	1997 02 16.36992	10 18 44.66	+10 25 32.9	20.0 V	691
1997 CO ₁₅	1997 02 10.41672	10 22 12.49	+10 05 52.9	20.5 V	691	1997 CV ₁₅	1997 02 16.39442	10 18 43.32	+10 25 38.3	20.6 V	691
1997 CO ₁₅	1997 02 10.43851	10 22 11.51	+10 05 59.4	20.4 V	691	1997 CW ₁₅	* 1997 02 06.33179	10 28 06.61	+09 41 09.9	20.7 V	691
1997 CP ₁₅	* 1997 02 06.32993	10 25 25.54	+09 42 32.2	21.0 V	691	1997 CW ₁₅	1997 02 06.35319	10 28 05.73	+09 41 18.8	20.3 V	691
1997 CP ₁₅	1997 02 06.35133	10 25 24.55	+09 42 36.7	20.7 V	691	1997 CW ₁₅	1997 02 06.37455	10 28 04.78	+09 41 27.5	20.8 V	691
1997 CP ₁₅	1997 02 06.37269	10 25 23.54	+09 42 41.6	20.7 V	691	1997 CW ₁₅	1997 02 10.39665	10 25 17.65	+10 09 50.2	20.3 V	691
1997 CP ₁₅	1997 02 10.46127	10 22 11.80	+09 57 17.7	20.7 V	691	1997 CW ₁₅	1997 02 10.41885	10 25 16.66	+10 09 59.4	20.4 V	691
1997 CP ₁₅	1997 02 10.48290	10 22 10.74	+09 57 22.2	20.6 V	691	1997 CW ₁₅	1997 02 10.44064	10 25 15.67	+10 10 09.7	20.2 V	691

1997 CW ₁₅	1997 02 13.32467	10 23 10.18	+10 31 00.7	20.2 V	691	1997 CD ₁₆	1997 02 10.39833	10 27 43.10	+10 10 22.5	20.1 V	691
1997 CW ₁₅	1997 02 13.35553	10 23 08.73	+10 31 15.0	20.7 V	691	1997 CD ₁₆	1997 02 10.42053	10 27 42.18	+10 10 36.4	20.3 V	691
1997 CW ₁₅	1997 02 13.37699	10 23 07.75	+10 31 22.6	20.0 V	691	1997 CD ₁₆	1997 02 10.44232	10 27 41.30	+10 10 49.9	20.3 V	691
1997 CX ₁₅	* 1997 02 06.33180	10 28 07.24	+09 32 30.3	19.0 V	691	1997 CD ₁₆	1997 02 13.32646	10 25 44.60	+10 41 09.3	20.4 V	691
1997 CX ₁₅	1997 02 06.35319	10 28 06.25	+09 32 35.2	19.2 V	691	1997 CD ₁₆	1997 02 13.35732	10 25 43.26	+10 41 29.7	20.7 V	691
1997 CX ₁₅	1997 02 06.37455	10 28 05.30	+09 32 40.4	19.1 V	691	1997 CD ₁₆	1997 02 13.37878	10 25 42.38	+10 41 42.8	20.7 V	691
1997 CX ₁₅	1997 02 10.46317	10 24 55.90	+09 49 21.4	19.0 V	691	1997 CE ₁₆	* 1997 02 06.33353	10 30 37.31	+09 52 29.5	19.9 V	691
1997 CX ₁₅	1997 02 10.48479	10 24 54.85	+09 49 27.0	19.2 V	691	1997 CE ₁₆	1997 02 06.35493	10 30 36.39	+09 52 34.2	19.9 V	691
1997 CX ₁₅	1997 02 10.50726	10 24 53.75	+09 49 32.7	19.0 V	691	1997 CE ₁₆	1997 02 06.37629	10 30 35.43	+09 52 39.8	20.0 V	691
1997 CX ₁₅	1997 02 16.34969	10 20 06.71	+10 14 42.8	18.9 V	691	1997 CE ₁₆	1997 02 10.39826	10 27 37.18	+10 08 43.2	19.4 V	691
1997 CX ₁₅	1997 02 16.37085	10 20 05.61	+10 14 49.2	19.0 V	691	1997 CE ₁₆	1997 02 10.42046	10 27 36.12	+10 08 48.5	19.4 V	691
1997 CX ₁₅	1997 02 16.39536	10 20 04.34	+10 14 55.3	19.4 V	691	1997 CE ₁₆	1997 02 10.44225	10 27 35.11	+10 08 53.8	19.6 V	691
1997 CY ₁₅	* 1997 02 06.33188	10 28 14.02	+09 55 44.4	20.2 V	691	1997 CF ₁₆	* 1997 02 06.33409	10 31 26.05	+09 40 25.3	19.8 V	691
1997 CY ₁₅	1997 02 06.35327	10 28 13.01	+09 55 54.6	20.2 V	691	1997 CF ₁₆	1997 02 06.35549	10 31 25.03	+09 40 34.9	19.7 V	691
1997 CY ₁₅	1997 02 06.37463	10 28 12.01	+09 56 04.7	20.3 V	691	1997 CF ₁₆	1997 02 06.37685	10 31 24.05	+09 40 45.2	20.3 V	691
1997 CY ₁₅	1997 02 10.39652	10 25 06.05	+10 28 11.3	20.7 V	691	1997 CF ₁₆	1997 02 10.39871	10 28 16.09	+10 12 50.4	20.0 V	691
1997 CY ₁₅	1997 02 10.41871	10 25 04.95	+10 28 21.7	20.5 V	691	1997 CF ₁₆	1997 02 10.42091	10 28 14.99	+10 13 01.2	19.7 V	691
1997 CY ₁₅	1997 02 13.32439	10 22 45.43	+10 51 58.0	20.3 V	691	1997 CF ₁₆	1997 02 10.44270	10 28 13.92	+10 13 11.8	19.7 V	691
1997 CY ₁₅	1997 02 13.35524	10 22 43.90	+10 52 13.6	20.6 V	691	1997 CF ₁₆	1997 02 13.32655	10 25 52.57	+10 36 46.8	20.6 V	691
1997 CZ ₁₅	* 1997 02 06.33189	10 28 15.12	+09 45 18.0	18.6 V	691	1997 CF ₁₆	1997 02 13.35740	10 25 50.96	+10 37 02.9	20.0 V	691
1997 CZ ₁₅	1997 02 06.35328	10 28 14.21	+09 45 23.5	18.7 V	691	1997 CF ₁₆	1997 02 13.37886	10 25 49.85	+10 37 13.7	20.0 V	691
1997 CZ ₁₅	1997 02 06.37465	10 28 13.30	+09 45 29.1	18.8 V	691	1997 CG ₁₆	* 1997 02 06.33548	10 33 26.01	+09 55 00.3	20.1 V	691
1997 CZ ₁₅	1997 02 10.39672	10 25 23.90	+10 02 53.4	18.9 V	691	1997 CG ₁₆	1997 02 06.35687	10 33 25.11	+09 55 06.3	20.1 V	691
1997 CZ ₁₅	1997 02 10.41892	10 25 22.90	+10 02 59.0	18.9 V	691	1997 CG ₁₆	1997 02 06.37824	10 33 24.19	+09 55 12.5	20.2 V	691
1997 CZ ₁₅	1997 02 10.44071	10 25 21.94	+10 03 04.8	18.9 V	691	1997 CG ₁₆	1997 02 10.40031	10 30 34.17	+10 15 06.2	19.9 V	691
1997 CZ ₁₅	1997 02 16.35028	10 20 57.29	+10 29 56.1	18.8 V	691	1997 CG ₁₆	1997 02 10.42250	10 30 33.17	+10 15 12.9	19.8 V	691
1997 CZ ₁₅	1997 02 16.37143	10 20 56.31	+10 30 02.8	18.7 V	691	1997 CG ₁₆	1997 02 10.44429	10 30 32.20	+10 15 19.7	19.9 V	691
1997 CZ ₁₅	1997 02 16.39594	10 20 55.15	+10 30 09.6	19.3 V	691	1997 CH ₁₆	* 1997 02 06.33665	10 35 07.36	+09 55 43.3	21.1 V	691
1997 CA ₁₆	* 1997 02 06.33224	10 28 45.37	+09 53 56.4	18.8 V	691	1997 CH ₁₆	1997 02 06.35804	10 35 06.20	+09 55 50.0	20.7 V	691
1997 CA ₁₆	1997 02 06.35363	10 28 44.28	+09 53 59.2	18.6 V	691	1997 CH ₁₆	1997 02 06.37940	10 35 05.16	+09 55 56.4	20.4 V	691
1997 CA ₁₆	1997 02 06.37499	10 28 43.14	+09 54 03.3	19.0 V	691	1997 CH ₁₆	1997 02 10.40098	10 31 32.33	+10 17 07.6	20.6 V	691
1997 CA ₁₆	1997 02 10.39661	10 25 14.42	+10 05 09.1	18.5 V	691	1997 CH ₁₆	1997 02 10.42317	10 31 31.10	+10 17 15.0	20.4 V	691
1997 CA ₁₆	1997 02 10.41881	10 25 13.21	+10 05 12.7	18.6 V	691	1997 CH ₁₆	1997 02 10.44496	10 31 29.86	+10 17 21.9	20.6 V	691
1997 CA ₁₆	1997 02 10.44060	10 25 12.02	+10 05 16.5	18.7 V	691	1997 CJ ₁₆	* 1997 02 06.33766	10 36 34.94	+09 50 14.4	20.7 V	691
1997 CA ₁₆	1997 02 16.34947	10 19 47.88	+10 22 45.0	18.7 V	691	1997 CJ ₁₆	1997 02 06.35905	10 36 33.92	+09 50 21.7	20.3 V	691
1997 CA ₁₆	1997 02 16.37063	10 19 46.65	+10 22 49.6	18.6 V	691	1997 CJ ₁₆	1997 02 06.38042	10 36 32.96	+09 50 28.7	20.9 V	691
1997 CA ₁₆	1997 02 16.39513	10 19 45.26	+10 22 54.1	19.4 V	691	1997 CJ ₁₆	1997 02 10.40229	10 33 26.44	+10 13 39.9	20.2 V	691
1997 CB ₁₆	* 1997 02 06.33262	10 29 18.72	+09 41 35.0	20.6 V	691	1997 CJ ₁₆	1997 02 10.42449	10 33 25.31	+10 13 48.0	20.5 V	691
1997 CB ₁₆	1997 02 06.35402	10 29 17.87	+09 41 43.4	20.5 V	691	1997 CJ ₁₆	1997 02 10.44628	10 33 24.22	+10 13 55.9	20.7 V	691
1997 CB ₁₆	1997 02 06.37538	10 29 16.98	+09 41 52.3	20.4 V	691	1997 CJ ₁₆	1997 02 13.33011	10 31 01.43	+10 31 17.4	20.7 V	691
1997 CB ₁₆	1997 02 10.39754	10 26 34.41	+10 09 42.3	20.0 V	691	1997 CJ ₁₆	1997 02 13.36097	10 30 59.79	+10 31 29.4	20.4 V	691
1997 CB ₁₆	1997 02 10.41973	10 26 33.45	+10 09 51.6	20.2 V	691	1997 CJ ₁₆	1997 02 13.38243	10 30 58.60	+10 31 37.3	20.7 V	691
1997 CB ₁₆	1997 02 10.44153	10 26 32.54	+10 10 00.7	20.5 V	691	1997 CK ₁₆	* 1997 02 06.33851	10 37 48.86	+09 45 47.8	18.6 V	691
1997 CC ₁₆	* 1997 02 06.33306	10 29 56.43	+09 29 02.4	20.7 V	691	1997 CK ₁₆	1997 02 06.35991	10 37 47.89	+09 45 55.5	18.8 V	691
1997 CC ₁₆	1997 02 06.35445	10 29 55.36	+09 29 10.9	20.5 V	691	1997 CK ₁₆	1997 02 06.38127	10 37 46.93	+09 46 03.1	18.8 V	691
1997 CC ₁₆	1997 02 06.37581	10 29 54.32	+09 29 19.8	20.9 V	691	1997 CK ₁₆	1997 02 10.40319	10 34 43.66	+10 11 09.2	18.5 V	691
1997 CC ₁₆	1997 02 10.46430	10 26 33.85	+09 57 17.3	19.9 V	691	1997 CK ₁₆	1997 02 10.42538	10 34 42.53	+10 11 18.0	18.6 V	691
1997 CC ₁₆	1997 02 10.48592	10 26 32.71	+09 57 25.5	20.1 V	691	1997 CK ₁₆	1997 02 10.44717	10 34 41.46	+10 11 26.6	18.6 V	691
1997 CC ₁₆	1997 02 10.50839	10 26 31.53	+09 57 34.6	20.0 V	691	1997 CL ₁₆	* 1997 02 06.33937	10 39 03.52	+09 51 02.3	19.2 V	691
1997 CD ₁₆	* 1997 02 06.33332	10 30 19.20	+09 28 30.5	20.0 V	691	1997 CL ₁₆	1997 02 06.36077	10 39 02.52	+09 51 06.3	19.2 V	691
1997 CD ₁₆	1997 02 06.35472	10 30 18.37	+09 28 43.0	20.4 V	691	1997 CL ₁₆	1997 02 06.38213	10 39 01.50	+09 51 10.0	19.3 V	691
1997 CD ₁₆	1997 02 06.37608	10 30 17.50	+09 28 56.2	20.3 V	691	1997 CL ₁₆	1997 02 10.40398	10 35 52.27	+10 04 34.5	19.5 V	691

1997 CL ₁₆	1997 02 10.42617	10 35 51.09	+10 04 39.2	19.5 V	691	1997 CR ₁₆	1997 02 11.23277	08 29 43.19	+19 22 54.5	19.3 V	691
1997 CL ₁₆	1997 02 10.44796	10 35 49.98	+10 04 44.0	19.6 V	691	1997 CR ₁₆	1997 02 14.26568	08 27 57.68	+19 32 10.6	19.5 V	691
1997 CM ₁₆	* 1997 02 06.34109	10 41 31.83	+09 56 09.7	20.5 V	691	1997 CR ₁₆	1997 02 14.29249	08 27 56.76	+19 32 14.9	19.6 V	691
1997 CM ₁₆	1997 02 06.36248	10 41 30.96	+09 56 15.9	21.0 V	691	1997 CR ₁₆	1997 02 14.31640	08 27 55.89	+19 32 19.9	19.6 V	691
1997 CM ₁₆	1997 02 06.38385	10 41 30.09	+09 56 20.0	21.3 V	691	1997 CS ₁₆	* 1997 02 09.29266	08 31 59.63	+19 06 12.7	20.0 V	691
1997 CM ₁₆	1997 02 10.40593	10 38 41.37	+10 12 57.3	21.0 V	691	1997 CS ₁₆	1997 02 09.31498	08 31 58.50	+19 06 21.5	20.0 V	691
1997 CM ₁₆	1997 02 10.42813	10 38 40.37	+10 13 03.5	20.6 V	691	1997 CS ₁₆	1997 02 09.33745	08 31 57.36	+19 06 30.0	20.1 V	691
1997 CM ₁₆	1997 02 10.44992	10 38 39.38	+10 13 09.2	20.8 V	691	1997 CS ₁₆	1997 02 10.34749	08 31 08.51	+19 13 00.3	19.8 V	691
1997 CN ₁₆	* 1997 02 09.29034	08 28 38.62	+19 14 38.1	20.4 V	691	1997 CS ₁₆	1997 02 10.35326	08 31 08.23	+19 13 02.2	19.8 V	691
1997 CN ₁₆	1997 02 09.31266	08 28 37.53	+19 14 41.8	20.1 V	691	1997 CS ₁₆	1997 02 10.36544	08 31 07.63	+19 13 07.1	19.9 V	691
1997 CN ₁₆	1997 02 09.33513	08 28 36.44	+19 14 44.9	20.3 V	691	1997 CD ₁₇	* 1997 02 09.35192	09 20 29.89	+12 03 28.4		691
1997 CN ₁₆	1997 02 10.34562	08 27 49.66	+19 17 27.6	19.9 V	691	1997 CD ₁₇	1997 02 09.36867	09 19 38.00	+11 28 21.7	17.2 V	691
1997 CN ₁₆	1997 02 10.35139	08 27 49.36	+19 17 28.5	20.0 V	691	1997 CD ₁₇	1997 02 09.38442	09 18 49.38	+10 55 04.8		691
1997 CN ₁₆	1997 02 10.36357	08 27 48.80	+19 17 30.3	20.1 V	691	1997 CD ₁₇	1997 02 09.39955	09 18 02.98	+10 22 58.2	17.1 V	691
1997 CN ₁₆	1997 02 14.33909	08 24 54.38	+19 27 26.2	20.4 V	691	1997 CD ₁₇	1997 02 09.41351	09 17 20.36	+09 53 09.7		691
1997 CN ₁₆	1997 02 14.36166	08 24 53.41	+19 27 29.4	20.5 V	691	1997 CD ₁₇	1997 02 09.43032	09 16 29.32	+09 17 01.6		691
1997 CN ₁₆	1997 02 14.38824	08 24 52.17	+19 27 32.8	19.9 V	691	1997 CD ₁₇	1997 02 09.44128	09 15 56.52	+08 53 25.8	17.6 V	691
1997 CO ₁₆	* 1997 02 09.29123	08 29 55.91	+19 21 03.1	20.2 V	691	1997 CD ₁₇	1997 02 09.45650	09 15 10.98	+08 20 33.1		691
1997 CO ₁₆	1997 02 09.31355	08 29 54.57	+19 21 05.0	20.4 V	691	1997 CD ₁₇	1997 02 09.50574	09 12 47.25	+06 33 01.6		691
1997 CO ₁₆	1997 02 09.33602	08 29 53.30	+19 21 07.2	20.2 V	691	1997 CD ₁₇	1997 02 10.18739	08 42 42.09	-18 36 12.6		691
1997 CO ₁₆	1997 02 10.34602	08 28 58.32	+19 22 47.9	20.0 V	691	1997 CD ₁₇	1997 02 10.28122	08 37 33.62	-21 48 56.7		691
1997 CO ₁₆	1997 02 10.35178	08 28 57.99	+19 22 48.5	20.0 V	691	1997 CD ₁₇	1997 02 10.37580	08 32 21.79	-24 53 01.5		691
1997 CO ₁₆	1997 02 10.35750	08 28 57.66	+19 22 48.8	20.1 V	691	1997 CE ₁₇	* 1997 02 01.36395	09 15 47.22	+12 18 19.2	18.1 V	691
1997 CO ₁₆	1997 02 10.36396	08 28 57.30	+19 22 49.5	20.0 V	691	1997 CE ₁₇	1997 02 01.39194	09 15 45.42	+12 18 27.0	18.1 V	691
1997 CP ₁₆	* 1997 02 09.29126	08 29 59.04	+19 18 51.7	20.4 V	691	1997 CE ₁₇	1997 02 01.41933	09 15 43.71	+12 18 34.8	18.1 V	691
1997 CP ₁₆	1997 02 09.31359	08 29 57.61	+19 18 56.9	20.1 V	691	1997 CE ₁₇	1997 02 11.28866	09 05 44.00	+13 06 02.1	18.2 V	691
1997 CP ₁₆	1997 02 09.33605	08 29 56.24	+19 19 01.6	20.2 V	691	1997 CE ₁₇	1997 02 11.29663	09 05 43.49	+13 06 04.4	18.2 V	691
1997 CP ₁₆	1997 02 10.34600	08 28 56.11	+19 22 41.7	20.0 V	691	1997 CE ₁₇	1997 02 11.30403	09 05 43.03	+13 06 06.6	18.2 V	691
1997 CP ₁₆	1997 02 10.35177	08 28 55.74	+19 22 42.8	20.1 V	691	1997 CF ₁₇	* 1997 02 01.36663	09 19 38.96	+12 14 54.7	17.9 V	691
1997 CP ₁₆	1997 02 10.35748	08 28 55.40	+19 22 44.0	20.1 V	691	1997 CF ₁₇	1997 02 01.39462	09 19 37.51	+12 14 58.8	17.9 V	691
1997 CP ₁₆	1997 02 10.36395	08 28 55.02	+19 22 45.3	20.1 V	691	1997 CF ₁₇	1997 02 01.42201	09 19 36.05	+12 15 02.5	17.6 V	691
1997 CP ₁₆	1997 02 11.21982	08 28 05.23	+19 25 47.8	20.1 V	691	1997 CF ₁₇	1997 02 11.29256	09 11 21.86	+12 40 57.7	17.8 V	691
1997 CP ₁₆	1997 02 11.22458	08 28 04.95	+19 25 48.9	20.1 V	691	1997 CF ₁₇	1997 02 11.30053	09 11 21.44	+12 40 59.4	17.8 V	691
1997 CP ₁₆	1997 02 11.23173	08 28 04.53	+19 25 50.3	20.1 V	691	1997 CF ₁₇	1997 02 11.30793	09 11 21.07	+12 41 00.3	17.7 V	691
1997 CQ ₁₆	* 1997 02 09.29153	08 30 21.72	+19 09 15.1	18.4 V	691	1997 CG ₁₇	* 1997 02 01.36764	09 21 06.13	+12 01 36.8	19.8 V	691
1997 CQ ₁₆	1997 02 09.31385	08 30 20.37	+19 09 22.2	18.5 V	691	1997 CG ₁₇	1997 02 01.39562	09 21 04.37	+12 01 42.6	19.7 V	691
1997 CQ ₁₆	1997 02 09.33632	08 30 19.02	+19 09 29.0	18.4 V	691	1997 CG ₁₇	1997 02 01.42301	09 21 02.66	+12 01 48.1	19.5 V	691
1997 CQ ₁₆	1997 02 10.34625	08 29 20.86	+19 14 36.1	18.1 V	691	1997 CG ₁₇	1997 02 11.29232	09 11 01.35	+12 36 27.3	19.8 V	691
1997 CQ ₁₆	1997 02 10.35202	08 29 20.54	+19 14 38.3	18.3 V	691	1997 CG ₁₇	1997 02 11.30029	09 11 00.85	+12 36 29.9	19.4 V	691
1997 CQ ₁₆	1997 02 10.35773	08 29 20.20	+19 14 39.9	18.3 V	691	1997 CG ₁₇	1997 02 11.30769	09 11 00.37	+12 36 30.7	19.7 V	691
1997 CQ ₁₆	1997 02 10.36420	08 29 19.83	+19 14 41.8	18.4 V	691	1997 CH ₁₇	* 1997 02 01.36833	09 22 06.59	+12 06 09.5	19.8 V	691
1997 CQ ₁₆	1997 02 11.22004	08 28 31.67	+19 18 58.4	18.3 V	691	1997 CH ₁₇	1997 02 01.39632	09 22 04.69	+12 06 16.5	19.9 V	691
1997 CQ ₁₆	1997 02 11.22479	08 28 31.39	+19 18 59.8	18.4 V	691	1997 CH ₁₇	1997 02 01.42370	09 22 02.84	+12 06 23.3	19.9 V	691
1997 CQ ₁₆	1997 02 11.23194	08 28 30.97	+19 19 01.9	18.3 V	691	1997 CH ₁₇	1997 02 11.29250	09 11 16.71	+12 49 00.5	19.8 V	691
1997 CR ₁₆	* 1997 02 09.29189	08 30 52.81	+19 16 46.3	19.2 V	691	1997 CH ₁₇	1997 02 11.30047	09 11 16.21	+12 49 03.4	19.9 V	691
1997 CR ₁₆	1997 02 09.31422	08 30 52.00	+19 16 51.0	19.4 V	691	1997 CH ₁₇	1997 02 11.30787	09 11 15.70	+12 49 04.9	20.1 V	691
1997 CR ₁₆	1997 02 09.33669	08 30 51.15	+19 16 55.3	19.5 V	691	1997 CH ₁₇	1997 02 15.27122	09 07 07.55	+13 05 56.7	20.4 V	691
1997 CR ₁₆	1997 02 10.34687	08 30 14.69	+19 20 07.7	19.4 V	691	1997 CH ₁₇	1997 02 15.30250	09 07 05.58	+13 06 04.3	20.2 V	691
1997 CR ₁₆	1997 02 10.35264	08 30 14.48	+19 20 08.8	19.3 V	691	1997 CH ₁₇	1997 02 15.33219	09 07 03.70	+13 06 12.1	20.1 V	691
1997 CR ₁₆	1997 02 10.36482	08 30 14.03	+19 20 11.0	19.3 V	691	1997 CJ ₁₇	* 1997 02 01.36923	09 23 23.83	+12 17 41.7	20.3 V	691
1997 CR ₁₆	1997 02 11.22087	08 29 43.62	+19 22 52.2	19.5 V	691	1997 CJ ₁₇	1997 02 01.39721	09 23 22.37	+12 17 56.3	19.8 V	691
1997 CR ₁₆	1997 02 11.22562	08 29 43.44	+19 22 53.1	19.4 V	691	1997 CJ ₁₇	1997 02 01.42460	09 23 20.94	+12 18 10.6	20.3 V	691

1997 CJ ₁₇	1997 02 11.31889	09 14 56.09	+13 44 57.8	20.2 V	691	1997 CS ₁₇	1997 02 11.43168	10 25 21.14	+11 32 50.7	20.3 V	691
1997 CJ ₁₇	1997 02 11.38563	09 14 52.63	+13 45 32.6	20.3 V	691	1997 CS ₁₇	1997 02 11.45738	10 25 19.76	+11 33 02.9	20.5 V	691
1997 CK ₁₇	* 1997 02 01.44857	10 26 37.72	+10 39 57.6	18.9 V	691	1997 CT ₁₇	* 1997 02 03.38151	10 35 34.19	+10 30 23.7	20.4 V	691
1997 CK ₁₇	1997 02 01.47022	10 26 36.84	+10 40 03.8	19.3 V	691	1997 CT ₁₇	1997 02 03.40287	10 35 33.23	+10 30 29.7	20.8 V	691
1997 CK ₁₇	1997 02 01.50840	10 26 35.24	+10 40 15.2	18.9 V	691	1997 CT ₁₇	1997 02 03.42407	10 35 32.28	+10 30 34.6	20.8 V	691
1997 CK ₁₇	1997 02 11.40580	10 19 12.86	+11 32 22.8	19.1 V	691	1997 CT ₁₇	1997 02 11.41278	10 29 17.08	+11 07 03.1	20.9 V	691
1997 CK ₁₇	1997 02 11.42741	10 19 11.80	+11 32 29.8	18.9 V	691	1997 CT ₁₇	1997 02 11.43439	10 29 15.96	+11 07 09.2	20.7 V	691
1997 CK ₁₇	1997 02 11.45311	10 19 10.54	+11 32 38.2	19.0 V	691	1997 CT ₁₇	1997 02 11.46009	10 29 14.68	+11 07 16.7	20.8 V	691
1997 CL ₁₇	* 1997 02 01.45023	10 29 01.29	+10 34 17.9	20.1 V	691	1997 CU ₁₇	* 1997 02 03.38363	10 38 37.87	+10 14 48.3	20.2 V	691
1997 CL ₁₇	1997 02 01.47187	10 29 00.33	+10 34 24.7	19.9 V	691	1997 CU ₁₇	1997 02 03.40499	10 38 36.98	+10 14 56.5	20.2 V	691
1997 CL ₁₇	1997 02 01.51006	10 28 58.58	+10 34 37.1	19.9 V	691	1997 CU ₁₇	1997 02 03.42619	10 38 36.10	+10 15 03.7	20.3 V	691
1997 CL ₁₇	1997 02 11.42850	10 20 46.02	+11 33 01.7	19.8 V	691	1997 CU ₁₇	1997 02 11.41519	10 32 46.43	+11 04 37.6	20.3 V	691
1997 CL ₁₇	1997 02 11.45420	10 20 44.58	+11 33 11.4	19.9 V	691	1997 CU ₁₇	1997 02 11.43681	10 32 45.37	+11 04 46.1	20.4 V	691
1997 CM ₁₇	* 1997 02 01.45105	10 30 12.59	+10 50 22.9	20.0 V	691	1997 CU ₁₇	1997 02 11.46251	10 32 44.16	+11 04 55.7	20.4 V	691
1997 CM ₁₇	1997 02 01.47270	10 30 11.84	+10 50 25.6	20.1 V	691	1997 CV ₁₇	* 1997 02 03.38469	10 40 09.63	+10 30 16.5	19.0 V	691
1997 CM ₁₇	1997 02 01.51089	10 30 10.55	+10 50 31.0	20.2 V	691	1997 CV ₁₇	1997 02 03.40605	10 40 08.51	+10 30 23.7	19.2 V	691
1997 CM ₁₇	1997 02 11.40923	10 24 09.78	+11 13 29.3	20.1 V	691	1997 CV ₁₇	1997 02 03.42725	10 40 07.44	+10 30 31.6	19.3 V	691
1997 CM ₁₇	1997 02 11.43084	10 24 08.92	+11 13 32.6	20.5 V	691	1997 CV ₁₇	1997 02 11.41533	10 32 58.55	+11 20 09.3	18.7 V	691
1997 CM ₁₇	1997 02 11.45655	10 24 07.90	+11 13 36.2	20.4 V	691	1997 CV ₁₇	1997 02 11.43694	10 32 57.25	+11 20 17.4	18.7 V	691
1997 CN ₁₇	* 1997 02 01.45237	10 32 06.37	+10 36 06.9	20.6 V	691	1997 CV ₁₇	1997 02 11.46264	10 32 55.75	+11 20 27.2	18.6 V	691
1997 CN ₁₇	1997 02 01.47401	10 32 05.30	+10 36 12.1	20.5 V	691	1997 CW ₁₇	* 1997 02 06.40985	10 34 03.84	+11 09 31.8	21.0 V	691
1997 CN ₁₇	1997 02 01.51219	10 32 03.30	+10 36 21.3	20.4 V	691	1997 CW ₁₇	1997 02 06.43164	10 34 02.85	+11 09 35.7	20.9 V	691
1997 CN ₁₇	1997 02 11.40844	10 23 01.60	+11 18 33.5	20.5 V	691	1997 CW ₁₇	1997 02 06.45304	10 34 01.92	+11 09 39.5	20.6 V	691
1997 CN ₁₇	1997 02 11.43005	10 23 00.30	+11 18 39.1	20.8 V	691	1997 CW ₁₇	1997 02 11.41344	10 30 14.88	+11 24 57.2	21.1 V	691
1997 CN ₁₇	1997 02 11.45575	10 22 58.74	+11 18 45.4	20.5 V	691	1997 CW ₁₇	1997 02 11.43506	10 30 13.75	+11 25 01.2	21.0 V	691
1997 CO ₁₇	* 1997 02 01.45401	10 34 28.78	+10 48 39.5	20.6 V	691	1997 CW ₁₇	1997 02 11.46076	10 30 12.52	+11 25 06.4	21.3 V	691
1997 CO ₁₇	1997 02 01.47565	10 34 27.58	+10 48 43.7	20.4 V	691	1997 CX ₁₇	* 1997 02 06.41065	10 35 13.29	+11 24 04.5	20.3 V	691
1997 CO ₁₇	1997 02 01.51383	10 34 25.52	+10 48 49.1	20.5 V	691	1997 CX ₁₇	1997 02 06.43244	10 35 12.13	+11 24 03.2	20.1 V	691
1997 CO ₁₇	1997 02 11.40967	10 24 47.81	+11 18 22.6	20.4 V	691	1997 CX ₁₇	1997 02 06.45384	10 35 10.98	+11 24 01.0	20.1 V	691
1997 CO ₁₇	1997 02 11.43128	10 24 46.45	+11 18 26.6	20.4 V	691	1997 CX ₁₇	1997 02 11.41372	10 30 38.98	+11 17 21.5	20.3 V	691
1997 CO ₁₇	1997 02 11.45697	10 24 44.80	+11 18 31.3	20.5 V	691	1997 CX ₁₇	1997 02 11.43533	10 30 37.70	+11 17 19.8	20.5 V	691
1997 CP ₁₇	* 1997 02 01.45566	10 36 51.32	+10 52 57.3	20.1 V	691	1997 CX ₁₇	1997 02 11.46103	10 30 36.20	+11 17 17.7	20.3 V	691
1997 CP ₁₇	1997 02 01.47730	10 36 50.35	+10 52 59.4	20.2 V	691	1997 CY ₁₇	* 1997 02 06.41142	10 36 19.90	+11 13 56.8	19.6 V	691
1997 CP ₁₇	1997 02 01.51549	10 36 48.75	+10 53 02.7	19.8 V	691	1997 CY ₁₇	1997 02 06.43321	10 36 18.84	+11 13 59.7	19.3 V	691
1997 CP ₁₇	1997 02 11.41254	10 28 56.54	+11 13 15.5	20.1 V	691	1997 CY ₁₇	1997 02 06.45461	10 36 17.83	+11 14 01.8	18.9 V	691
1997 CP ₁₇	1997 02 11.45985	10 28 53.93	+11 13 22.2	19.8 V	691	1997 CY ₁₇	1997 02 11.41487	10 32 18.19	+11 24 39.7	19.6 V	691
1997 CQ ₁₇	* 1997 02 03.37457	10 25 32.99	+10 26 36.1	19.5 V	691	1997 CY ₁₇	1997 02 11.43648	10 32 17.08	+11 24 42.9	19.8 V	691
1997 CQ ₁₇	1997 02 03.39593	10 25 32.05	+10 26 41.6	19.6 V	691	1997 CY ₁₇	1997 02 11.46218	10 32 15.80	+11 24 46.3	19.6 V	691
1997 CQ ₁₇	1997 02 03.41713	10 25 31.08	+10 26 47.2	19.6 V	691	1997 CZ ₁₇	* 1997 02 06.41580	10 42 39.39	+11 20 01.6	21.0 V	691
1997 CQ ₁₇	1997 02 11.40583	10 19 15.05	+11 03 55.6	19.0 V	691	1997 CZ ₁₇	1997 02 06.43758	10 42 38.11	+11 20 03.5	20.7 V	691
1997 CQ ₁₇	1997 02 11.42744	10 19 13.94	+11 04 01.9	19.0 V	691	1997 CZ ₁₇	1997 02 06.45898	10 42 36.80	+11 20 04.5	20.8 V	691
1997 CQ ₁₇	1997 02 11.45314	10 19 12.63	+11 04 09.0	18.9 V	691	1997 CZ ₁₇	1997 02 11.41851	10 37 34.09	+11 25 47.9	20.5 V	691
1997 CR ₁₇	* 1997 02 03.37884	10 31 43.12	+10 05 26.1	19.8 V	691	1997 CZ ₁₇	1997 02 11.44012	10 37 32.74	+11 25 48.5	20.8 V	691
1997 CR ₁₇	1997 02 03.40021	10 31 42.18	+10 05 34.8	19.9 V	691	1997 CZ ₁₇	1997 02 11.46582	10 37 31.01	+11 25 49.7	20.7 V	691
1997 CR ₁₇	1997 02 03.42140	10 31 41.22	+10 05 43.6	19.8 V	691	1997 CA ₁₈	* 1997 02 06.41581	10 42 40.24	+11 11 05.4	20.6 V	691
1997 CR ₁₇	1997 02 11.41044	10 25 54.95	+11 03 04.0	19.8 V	691	1997 CA ₁₈	1997 02 06.43760	10 42 39.30	+11 11 09.8	20.7 V	691
1997 CR ₁₇	1997 02 11.43206	10 25 53.87	+11 03 13.4	19.7 V	691	1997 CA ₁₈	1997 02 06.45900	10 42 38.43	+11 11 12.9	20.2 V	691
1997 CR ₁₇	1997 02 11.45776	10 25 52.58	+11 03 24.5	19.7 V	691	1997 CA ₁₈	1997 02 11.41959	10 39 07.45	+11 26 29.0	20.4 V	691
1997 CS ₁₇	* 1997 02 03.37905	10 32 01.05	+10 30 25.6	20.3 V	691	1997 CA ₁₈	1997 02 11.44121	10 39 06.47	+11 26 33.3	20.5 V	691
1997 CS ₁₇	1997 02 03.40041	10 32 00.05	+10 30 34.6	20.6 V	691	1997 CA ₁₈	1997 02 11.46691	10 39 05.31	+11 26 37.5	20.5 V	691
1997 CS ₁₇	1997 02 03.42161	10 31 59.05	+10 30 44.6	20.4 V	691	1997 CB ₁₈	* 1997 02 06.41620	10 43 14.03	+11 02 59.6	20.7 V	691
1997 CS ₁₇	1997 02 11.41006	10 25 22.29	+11 32 40.3	20.4 V	691	1997 CB ₁₈	1997 02 06.43799	10 43 12.97	+11 03 04.0	20.4 V	691

1997 CB ₁₈	1997 02 06.45939	10 43 12.16	+11 03 07.3	20.5 V	691	1997 CJ ₁₈	1997 02 11.42660	10 17 59.22	+11 13 58.4	18.1 V	691
1997 CB ₁₈	1997 02 11.41984	10 39 29.14	+11 18 58.9	20.1 V	691	1997 CJ ₁₈	1997 02 11.45231	10 17 57.69	+11 14 06.2	18.1 V	691
1997 CB ₁₈	1997 02 11.44146	10 39 28.10	+11 19 03.3	20.5 V	691	1997 CK ₁₈	* 1997 02 07.41271	10 23 05.78	+10 38 17.3	19.3 V	691
1997 CB ₁₈	1997 02 11.46716	10 39 26.84	+11 19 08.2	20.5 V	691	1997 CK ₁₈	1997 02 07.43414	10 23 04.78	+10 38 26.0	19.6 V	691
1997 CC ₁₈	* 1997 02 06.41682	10 44 07.07	+11 17 35.6	20.6 V	691	1997 CK ₁₈	1997 02 07.45545	10 23 03.84	+10 38 35.2	19.6 V	691
1997 CC ₁₈	1997 02 06.43860	10 44 05.90	+11 17 38.7	20.3 V	691	1997 CK ₁₈	1997 02 11.40639	10 20 03.90	+11 06 35.0	19.9 V	691
1997 CC ₁₈	1997 02 06.46000	10 44 04.77	+11 17 40.5	20.2 V	691	1997 CK ₁₈	1997 02 11.42800	10 20 02.89	+11 06 44.3	19.5 V	691
1997 CC ₁₈	1997 02 11.41993	10 39 36.51	+11 29 33.3	20.3 V	691	1997 CK ₁₈	1997 02 11.45370	10 20 01.60	+11 06 55.0	19.6 V	691
1997 CC ₁₈	1997 02 11.44154	10 39 35.21	+11 29 36.6	20.7 V	691	1997 CL ₁₈	* 1997 02 07.41328	10 23 54.71	+11 01 48.8	17.1 V	691
1997 CC ₁₈	1997 02 11.46724	10 39 33.70	+11 29 40.5	20.8 V	691	1997 CL ₁₈	1997 02 07.43471	10 23 53.82	+11 01 56.2	17.2 V	691
1997 CD ₁₈	* 1997 02 07.32063	09 10 17.23	+12 53 25.9	19.1 V	691	1997 CL ₁₈	1997 02 07.45602	10 23 52.93	+11 02 04.2	17.6 V	691
1997 CD ₁₈	1997 02 07.34238	09 10 15.82	+12 53 27.1	18.9 V	691	1997 CL ₁₈	1997 02 11.40713	10 21 08.23	+11 26 24.7	17.9 V	691
1997 CD ₁₈	1997 02 07.36400	09 10 14.41	+12 53 28.5	18.9 V	691	1997 CL ₁₈	1997 02 11.42875	10 21 07.27	+11 26 32.6	17.7 V	691
1997 CD ₁₈	1997 02 11.28896	09 06 10.24	+12 57 28.9	18.9 V	691	1997 CL ₁₈	1997 02 11.45445	10 21 06.15	+11 26 42.4	17.3 V	691
1997 CD ₁₈	1997 02 11.29693	09 06 09.74	+12 57 29.5	18.8 V	691	1997 CM ₁₈	* 1997 02 07.41642	10 28 27.04	+10 48 26.5	20.2 V	691
1997 CD ₁₈	1997 02 11.30433	09 06 09.24	+12 57 29.9	18.8 V	691	1997 CM ₁₈	1997 02 07.43785	10 28 25.93	+10 48 32.4	20.0 V	691
1997 CD ₁₈	1997 02 15.29951	09 02 11.01	+13 01 28.3	18.9 V	691	1997 CM ₁₈	1997 02 07.45916	10 28 24.83	+10 48 37.4	20.2 V	691
1997 CD ₁₈	1997 02 15.32921	09 02 09.24	+13 01 30.4	18.8 V	691	1997 CM ₁₈	1997 02 11.40978	10 24 57.89	+11 06 03.0	19.8 V	691
1997 CE ₁₈	* 1997 02 07.32069	09 10 21.88	+12 37 36.5	20.4 V	691	1997 CM ₁₈	1997 02 11.43140	10 24 56.72	+11 06 08.6	20.1 V	691
1997 CE ₁₈	1997 02 07.34244	09 10 21.10	+12 37 41.2	20.1 V	691	1997 CM ₁₈	1997 02 11.45709	10 24 55.28	+11 06 15.7	19.9 V	691
1997 CE ₁₈	1997 02 07.36407	09 10 20.29	+12 37 46.2	20.1 V	691	1997 CN ₁₈	* 1997 02 07.41702	10 29 18.91	+10 55 35.9	20.4 V	691
1997 CE ₁₈	1997 02 11.29022	09 07 59.25	+12 52 22.3	19.7 V	691	1997 CN ₁₈	1997 02 07.43845	10 29 17.72	+10 55 43.3	20.1 V	691
1997 CE ₁₈	1997 02 11.29819	09 07 58.97	+12 52 24.4	20.2 V	691	1997 CN ₁₈	1997 02 07.45975	10 29 16.51	+10 55 50.4	20.7 V	691
1997 CE ₁₈	1997 02 11.30559	09 07 58.71	+12 52 25.2	20.0 V	691	1997 CN ₁₈	1997 02 11.41022	10 25 35.81	+11 18 20.8	20.1 V	691
1997 CE ₁₈	1997 02 15.27020	09 05 39.16	+13 07 06.0	19.8 V	691	1997 CN ₁₈	1997 02 11.43183	10 25 34.50	+11 18 27.9	20.0 V	691
1997 CE ₁₈	1997 02 15.30149	09 05 38.17	+13 07 12.0	20.2 V	691	1997 CN ₁₈	1997 02 11.45753	10 25 33.00	+11 18 36.9	20.7 V	691
1997 CE ₁₈	1997 02 15.33119	09 05 37.09	+13 07 18.6	20.1 V	691	1997 CO ₁₈	* 1997 02 07.41825	10 31 05.88	+10 32 36.5	19.0 V	691
1997 CF ₁₈	* 1997 02 07.32198	09 12 13.60	+12 32 07.0	19.5 V	691	1997 CO ₁₈	1997 02 07.43969	10 31 04.81	+10 32 48.1	19.0 V	691
1997 CF ₁₈	1997 02 07.34372	09 12 12.10	+12 32 09.7	19.0 V	691	1997 CO ₁₈	1997 02 07.46099	10 31 03.79	+10 32 59.5	19.1 V	691
1997 CF ₁₈	1997 02 07.36534	09 12 10.55	+12 32 12.3	18.9 V	691	1997 CO ₁₈	1997 02 11.41180	10 27 52.87	+11 09 08.8	18.9 V	691
1997 CF ₁₈	1997 02 11.29008	09 07 47.32	+12 40 26.8	18.8 V	691	1997 CO ₁₈	1997 02 11.43342	10 27 51.71	+11 09 21.1	18.8 V	691
1997 CF ₁₈	1997 02 11.29805	09 07 46.79	+12 40 27.9	18.9 V	691	1997 CO ₁₈	1997 02 11.45912	10 27 50.39	+11 09 35.3	18.8 V	691
1997 CF ₁₈	1997 02 11.30545	09 07 46.26	+12 40 28.4	18.8 V	691	1997 CP ₁₈	* 1997 02 07.42044	10 34 15.06	+10 48 06.6	19.0 V	691
1997 CG ₁₈	* 1997 02 07.32256	09 13 04.39	+12 52 23.1	21.1 V	691	1997 CP ₁₈	1997 02 07.44187	10 34 13.93	+10 48 11.5	18.9 V	691
1997 CG ₁₈	1997 02 07.34431	09 13 03.12	+12 52 24.7	21.1 V	691	1997 CP ₁₈	1997 02 07.46318	10 34 12.81	+10 48 16.0	19.0 V	691
1997 CG ₁₈	1997 02 07.36594	09 13 01.90	+12 52 25.9	20.8 V	691	1997 CP ₁₈	1997 02 11.41381	10 30 46.91	+11 03 44.1	18.7 V	691
1997 CG ₁₈	1997 02 11.29122	09 09 25.95	+12 55 49.0	20.8 V	691	1997 CP ₁₈	1997 02 11.43542	10 30 45.65	+11 03 49.3	18.7 V	691
1997 CG ₁₈	1997 02 11.29919	09 09 25.58	+12 55 50.0	20.8 V	691	1997 CP ₁₈	1997 02 11.46112	10 30 44.22	+11 03 55.5	18.7 V	691
1997 CG ₁₈	1997 02 11.30659	09 09 25.15	+12 55 49.5	20.7 V	691	1997 CQ ₁₈	* 1997 02 07.42067	10 34 34.98	+10 48 46.8	19.3 V	691
1997 CG ₁₈	1997 02 15.27037	09 05 53.84	+12 59 09.7	21.3 V	691	1997 CQ ₁₈	1997 02 07.44210	10 34 34.04	+10 48 51.9	19.3 V	691
1997 CG ₁₈	1997 02 15.30165	09 05 52.15	+12 59 11.5	21.1 V	691	1997 CQ ₁₈	1997 02 07.46341	10 34 33.14	+10 48 56.8	19.2 V	691
1997 CG ₁₈	1997 02 15.33134	09 05 50.54	+12 59 12.8	21.4 V	691	1997 CQ ₁₈	1997 02 11.41449	10 31 45.54	+11 04 48.3	18.7 V	691
1997 CH ₁₈	* 1997 02 07.41159	10 21 28.39	+10 53 04.1	19.7 V	691	1997 CQ ₁₈	1997 02 11.43610	10 31 44.54	+11 04 53.5	18.8 V	691
1997 CH ₁₈	1997 02 07.43302	10 21 27.42	+10 53 10.1	19.9 V	691	1997 CQ ₁₈	1997 02 11.46181	10 31 43.43	+11 04 59.9	18.7 V	691
1997 CH ₁₈	1997 02 07.45433	10 21 26.46	+10 53 16.2	19.8 V	691	1997 CR ₁₈	* 1997 02 07.42116	10 35 17.59	+10 58 48.4	19.5 V	691
1997 CH ₁₈	1997 02 11.40530	10 18 29.51	+11 12 01.0	19.9 V	691	1997 CR ₁₈	1997 02 07.44259	10 35 16.59	+10 58 55.9	19.2 V	691
1997 CH ₁₈	1997 02 11.42691	10 18 28.50	+11 12 07.4	20.4 V	691	1997 CR ₁₈	1997 02 07.46390	10 35 15.63	+10 59 03.1	19.2 V	691
1997 CH ₁₈	1997 02 11.45262	10 18 27.29	+11 12 14.6	20.3 V	691	1997 CR ₁₈	1997 02 11.41480	10 32 12.89	+11 22 37.8	19.1 V	691
1997 CJ ₁₈	* 1997 02 07.41176	10 21 43.01	+10 53 21.0	18.2 V	691	1997 CR ₁₈	1997 02 11.43642	10 32 11.78	+11 22 45.7	19.1 V	691
1997 CJ ₁₈	1997 02 07.43319	10 21 41.79	+10 53 27.6	18.1 V	691	1997 CR ₁₈	1997 02 11.46212	10 32 10.48	+11 22 55.1	19.0 V	691
1997 CJ ₁₈	1997 02 07.45449	10 21 40.61	+10 53 33.9	18.1 V	691	1997 CS ₁₈	* 1997 02 07.42452	10 40 08.80	+11 02 31.5	20.3 V	691
1997 CJ ₁₈	1997 02 11.40496	10 18 00.49	+11 13 51.8	18.0 V	691	1997 CS ₁₈	1997 02 07.44595	10 40 07.83	+11 02 33.8	20.1 V	691

1997 CS ₁₈	1997 02 07.46726	10 40 06.85	+11 02 35.9	20.1 V	691	1997 CR ₂₀	1997 02 03.28706	09 22 33.52	+20 41 10.0	18.6 V	691
1997 CS ₁₈	1997 02 11.41817	10 37 04.37	+11 10 42.6	20.2 V	691	1997 CR ₂₀	1997 02 03.30816	09 22 32.18	+20 41 11.9	18.7 V	691
1997 CS ₁₈	1997 02 11.43978	10 37 03.32	+11 10 45.3	20.3 V	691	1997 CR ₂₀	1997 02 13.29337	09 12 11.50	+20 52 32.1	19.3 V	691
1997 CS ₁₈	1997 02 11.46548	10 37 02.05	+11 10 48.4	20.2 V	691	1997 CR ₂₀	1997 02 13.30292	09 12 10.89	+20 52 32.5	19.3 V	691
1997 CT ₁₈	* 1997 02 07.42457	10 40 13.34	+11 01 09.6	18.4 V	691	1997 CR ₂₀	1997 02 13.31303	09 12 10.26	+20 52 32.8	19.3 V	691
1997 CT ₁₈	1997 02 07.44601	10 40 12.51	+11 01 18.9	18.4 V	691	1997 CS ₂₀	* 1997 02 03.26591	09 22 44.98	+20 40 58.2	21.2 V	691
1997 CT ₁₈	1997 02 07.46732	10 40 11.67	+11 01 27.4	18.6 V	691	1997 CS ₂₀	1997 02 03.28717	09 22 43.53	+20 41 03.7	20.8 V	691
1997 CT ₁₈	1997 02 11.41852	10 37 35.17	+11 29 27.3	18.0 V	691	1997 CS ₂₀	1997 02 03.30828	09 22 42.06	+20 41 09.5	21.0 V	691
1997 CT ₁₈	1997 02 11.44014	10 37 34.25	+11 29 36.5	18.2 V	691	1997 CS ₂₀	1997 02 13.29312	09 11 50.19	+21 16 00.0	20.7 V	691
1997 CT ₁₈	1997 02 11.46584	10 37 33.18	+11 29 47.4	18.4 V	691	1997 CS ₂₀	1997 02 13.30267	09 11 49.54	+21 16 00.9	20.9 V	691
1997 CU ₁₈	* 1997 02 07.42485	10 40 37.42	+11 00 53.3	19.4 V	691	1997 CS ₂₀	1997 02 13.31278	09 11 48.81	+21 16 02.4	20.7 V	691
1997 CU ₁₈	1997 02 07.44628	10 40 36.43	+11 01 00.5	19.3 V	691	1997 CT ₂₀	* 1997 02 03.26836	09 26 16.72	+20 42 03.1	20.0 V	691
1997 CU ₁₈	1997 02 07.46759	10 40 35.41	+11 01 07.1	19.4 V	691	1997 CT ₂₀	1997 02 03.28962	09 26 15.33	+20 42 07.5	19.8 V	691
1997 CU ₁₈	1997 02 11.41844	10 37 27.48	+11 23 10.7	19.0 V	691	1997 CT ₂₀	1997 02 03.31072	09 26 13.97	+20 42 12.1	20.4 V	691
1997 CU ₁₈	1997 02 11.44005	10 37 26.39	+11 23 17.7	19.0 V	691	1997 CT ₂₀	1997 02 13.29590	09 15 50.76	+21 13 01.4	20.4 V	691
1997 CU ₁₈	1997 02 11.46575	10 37 25.09	+11 23 26.3	19.0 V	691	1997 CT ₂₀	1997 02 13.30545	09 15 50.14	+21 13 03.3	20.2 V	691
1997 CV ₁₈	* 1997 02 07.42493	10 40 44.44	+11 01 27.2	21.0 V	691	1997 CT ₂₀	1997 02 13.31556	09 15 49.54	+21 13 05.7	20.0 V	691
1997 CV ₁₈	1997 02 07.44636	10 40 43.38	+11 01 35.8	20.5 V	691	1997 CU ₂₀	* 1997 02 03.28246	09 15 54.86	+20 45 16.8	20.6 V	691
1997 CV ₁₈	1997 02 07.46767	10 40 42.28	+11 01 43.8	21.0 V	691	1997 CU ₂₀	1997 02 03.30356	09 15 53.68	+20 45 19.1	20.6 V	691
1997 CV ₁₈	1997 02 11.41837	10 37 21.46	+11 27 37.7	20.6 V	691	1997 CU ₂₀	1997 02 04.28900	09 15 00.08	+20 46 47.2	21.3 V	691
1997 CV ₁₈	1997 02 11.43998	10 37 20.29	+11 27 46.1	20.9 V	691	1997 CU ₂₀	1997 02 04.29757	09 14 59.58	+20 46 48.3	20.9 V	691
1997 CV ₁₈	1997 02 11.46568	10 37 18.86	+11 27 55.8	21.1 V	691	1997 CU ₂₀	1997 02 13.28974	09 06 57.49	+20 57 14.9	20.9 V	691
1997 CW ₁₈	* 1997 02 07.42512	10 41 00.59	+10 43 32.8	20.0 V	691	1997 CU ₂₀	1997 02 13.29929	09 06 56.98	+20 57 15.7	20.9 V	691
1997 CW ₁₈	1997 02 07.44655	10 40 59.55	+10 43 39.2	19.6 V	691	1997 CU ₂₀	1997 02 13.30940	09 06 56.37	+20 57 15.4	20.7 V	691
1997 CW ₁₈	1997 02 07.46786	10 40 58.52	+10 43 45.2	19.9 V	691	1997 CV ₂₀	* 1997 02 03.37718	10 29 19.28	+10 27 32.1	21.2 V	691
1997 CW ₁₈	1997 02 11.41868	10 37 48.30	+11 04 01.2	19.6 V	691	1997 CV ₂₀	1997 02 03.39854	10 29 18.25	+10 27 37.5	21.6 V	691
1997 CW ₁₈	1997 02 11.44029	10 37 47.20	+11 04 07.8	19.9 V	691	1997 CV ₂₀	1997 02 03.41974	10 29 17.20	+10 27 41.7	21.4 V	691
1997 CW ₁₈	1997 02 11.46599	10 37 45.88	+11 04 15.8	19.9 V	691	1997 CV ₂₀	1997 02 13.32308	10 20 52.47	+11 01 33.8	20.8 V	691
1997 CX ₁₈	* 1997 02 07.42519	10 41 06.35	+11 00 20.7	19.4 V	691	1997 CV ₂₀	1997 02 13.35394	10 20 50.74	+11 01 40.2	20.9 V	691
1997 CX ₁₈	1997 02 07.44662	10 41 05.46	+11 00 29.1	19.4 V	691	1997 CV ₂₀	1997 02 13.37540	10 20 49.54	+11 01 44.5	20.9 V	691
1997 CX ₁₈	1997 02 07.46793	10 41 04.54	+11 00 36.5	19.6 V	691	1997 CW ₂₀	* 1997 02 03.37923	10 32 17.15	+10 14 15.4	20.6 V	691
1997 CX ₁₈	1997 02 11.41900	10 38 16.40	+11 25 43.5	19.4 V	691	1997 CW ₂₀	1997 02 03.40060	10 32 16.13	+10 14 18.7	20.7 V	691
1997 CX ₁₈	1997 02 11.44062	10 38 15.39	+11 25 51.7	19.4 V	691	1997 CW ₂₀	1997 02 03.42179	10 32 14.95	+10 14 21.5	20.9 V	691
1997 CX ₁₈	1997 02 11.46632	10 38 14.22	+11 26 01.8	19.4 V	691	1997 CW ₂₀	1997 02 13.32456	10 23 00.05	+10 42 21.5	20.5 V	691
1997 CY ₁₈	* 1997 02 07.42618	10 42 32.20	+10 58 27.0	19.0 V	691	1997 CW ₂₀	1997 02 13.35541	10 22 58.13	+10 42 28.0	21.2 V	691
1997 CY ₁₈	1997 02 07.44761	10 42 31.29	+10 58 33.8	18.9 V	691	1997 CW ₂₀	1997 02 13.37687	10 22 56.81	+10 42 32.1	20.9 V	691
1997 CY ₁₈	1997 02 07.46892	10 42 30.39	+10 58 40.0	19.0 V	691	1997 CX ₂₀	* 1997 02 03.38156	10 35 38.49	+10 07 36.6	18.7 V	691
1997 CY ₁₈	1997 02 11.41999	10 39 41.91	+11 19 26.8	18.8 V	691	1997 CX ₂₀	1997 02 03.40293	10 35 37.80	+10 07 42.5	18.5 V	691
1997 CY ₁₈	1997 02 11.44160	10 39 40.93	+11 19 34.6	19.1 V	691	1997 CX ₂₀	1997 02 03.42413	10 35 37.04	+10 07 46.1	18.8 V	691
1997 CY ₁₈	1997 02 11.46731	10 39 39.77	+11 19 42.9	19.1 V	691	1997 CX ₂₀	1997 02 13.32903	10 29 27.95	+10 48 55.0	18.7 V	691
1997 CZ ₁₈	* 1997 02 10.35275	08 30 23.44	+19 17 26.6	20.2 V	691	1997 CX ₂₀	1997 02 13.35989	10 29 26.59	+10 49 02.9	18.7 V	691
1997 CZ ₁₈	1997 02 10.35846	08 30 23.15	+19 17 28.4	21.2 V	691	1997 CX ₂₀	1997 02 13.38135	10 29 25.65	+10 49 09.0	18.6 V	691
1997 CZ ₁₈	1997 02 11.22083	08 29 40.48	+19 20 04.8	21.1 V	691	1997 CY ₂₀	* 1997 02 03.38338	10 38 16.38	+10 03 16.1	19.7 V	691
1997 CZ ₁₈	1997 02 11.22559	08 29 40.25	+19 20 05.8	21.2 V	691	1997 CY ₂₀	1997 02 03.40475	10 38 15.46	+10 03 21.1	19.8 V	691
1997 CZ ₁₈	1997 02 11.23273	08 29 39.87	+19 20 06.9	21.1 V	691	1997 CY ₂₀	1997 02 03.42594	10 38 14.55	+10 03 26.4	19.9 V	691
1997 CQ ₂₀	* 1997 02 02.32097	09 29 20.73	+21 00 47.4	18.5 V	691	1997 CY ₂₀	1997 02 13.36079	10 30 44.00	+10 46 07.9	19.8 V	691
1997 CQ ₂₀	1997 02 02.35351	09 29 18.36	+21 00 49.1	18.6 V	691	1997 CY ₂₀	1997 02 13.38225	10 30 42.91	+10 46 13.8	20.0 V	691
1997 CQ ₂₀	1997 02 02.38774	09 29 15.85	+21 00 49.5	18.5 V	691	1997 CZ ₂₀	* 1997 02 03.38362	10 38 37.04	+10 01 57.2	20.3 V	691
1997 CQ ₂₀	1997 02 13.29626	09 16 21.60	+20 59 18.5	18.6 V	691	1997 CZ ₂₀	1997 02 03.40498	10 38 36.07	+10 02 02.4	20.6 V	691
1997 CQ ₂₀	1997 02 13.30580	09 16 20.89	+20 59 18.2	18.6 V	691	1997 CZ ₂₀	1997 02 03.42618	10 38 35.14	+10 02 08.4	20.6 V	691
1997 CQ ₂₀	1997 02 13.31591	09 16 20.15	+20 59 17.8	18.6 V	691	1997 CZ ₂₀	1997 02 13.36070	10 30 36.65	+10 48 56.7	20.4 V	691
1997 CR ₂₀	* 1997 02 03.26580	09 22 34.88	+20 41 08.2	18.7 V	691	1997 CZ ₂₀	1997 02 13.38216	10 30 35.51	+10 49 03.2	20.8 V	691

1997 CA ₂₁	* 1997 02 03.38580	10 41 46.34	+10 11 37.9	19.4 V	691	1997 CJ ₂₁	* 1997 02 10.39581	10 24 04.37	+10 28 06.3	20.0 V	691
1997 CA ₂₁	1997 02 03.40717	10 41 45.18	+10 11 41.2	19.6 V	691	1997 CJ ₂₁	1997 02 10.41800	10 24 03.14	+10 28 12.3	20.1 V	691
1997 CA ₂₁	1997 02 03.42836	10 41 44.07	+10 11 45.4	19.7 V	691	1997 CJ ₂₁	1997 02 10.43979	10 24 01.97	+10 28 18.4	20.3 V	691
1997 CA ₂₁	1997 02 13.33097	10 32 15.72	+10 43 53.5	19.7 V	691	1997 CJ ₂₁	1997 02 13.32347	10 21 26.22	+10 41 46.8	19.7 V	691
1997 CA ₂₁	1997 02 13.36182	10 32 13.77	+10 44 00.5	19.6 V	691	1997 CJ ₂₁	1997 02 13.35433	10 21 24.52	+10 41 57.1	20.6 V	691
1997 CA ₂₁	1997 02 13.38328	10 32 12.37	+10 44 04.8	19.6 V	691	1997 CJ ₂₁	1997 02 13.37579	10 21 23.28	+10 42 03.4	20.6 V	691
1997 CB ₂₁	* 1997 02 03.40698	10 41 28.88	+10 00 03.1	19.9 V	691	1997 CK ₂₁	* 1997 02 10.40023	10 30 27.74	+10 26 14.2	20.3 V	691
1997 CB ₂₁	1997 02 03.42818	10 41 27.80	+10 00 10.0	20.2 V	691	1997 CK ₂₁	1997 02 10.42243	10 30 26.69	+10 26 24.7	20.1 V	691
1997 CB ₂₁	1997 02 13.33117	10 32 33.36	+10 53 58.4	20.8 V	691	1997 CK ₂₁	1997 02 10.44422	10 30 25.65	+10 26 34.0	20.5 V	691
1997 CB ₂₁	1997 02 13.36203	10 32 31.52	+10 54 09.1	20.8 V	691	1997 CK ₂₁	1997 02 13.32815	10 28 11.17	+10 48 22.2	20.7 V	691
1997 CB ₂₁	1997 02 13.38348	10 32 30.23	+10 54 16.7	21.1 V	691	1997 CK ₂₁	1997 02 13.35901	10 28 09.66	+10 48 36.1	20.4 V	691
1997 CC ₂₁	* 1997 02 06.30108	09 15 02.89	+20 31 18.8	19.8 V	691	1997 CK ₂₁	1997 02 13.38046	10 28 08.58	+10 48 46.3	20.6 V	691
1997 CC ₂₁	1997 02 06.30876	09 15 02.45	+20 31 21.3	20.0 V	691	1997 CL ₂₁	* 1997 02 10.40072	10 31 09.64	+10 18 35.5	18.3 V	691
1997 CC ₂₁	1997 02 06.31683	09 15 01.95	+20 31 23.5	20.0 V	691	1997 CL ₂₁	1997 02 10.42291	10 31 08.53	+10 18 48.2	18.1 V	691
1997 CC ₂₁	1997 02 13.29055	09 08 07.08	+21 03 33.4	19.9 V	691	1997 CL ₂₁	1997 02 10.44470	10 31 07.47	+10 19 00.7	18.2 V	691
1997 CC ₂₁	1997 02 13.31021	09 08 05.87	+21 03 38.3	19.9 V	691	1997 CL ₂₁	1997 02 13.32855	10 28 46.34	+10 46 39.4	18.9 V	691
1997 CC ₂₁	1997 02 15.27697	09 06 12.34	+21 11 53.1	20.1 V	691	1997 CL ₂₁	1997 02 13.35941	10 28 44.70	+10 46 57.3	18.2 V	691
1997 CC ₂₁	1997 02 15.30733	09 06 10.53	+21 12 00.5	20.2 V	691	1997 CL ₂₁	1997 02 13.38087	10 28 43.58	+10 47 10.1	18.2 V	691
1997 CC ₂₁	1997 02 15.33676	09 06 08.81	+21 12 07.9	20.0 V	691	1997 CM ₂₁	* 1997 02 10.40512	10 37 31.23	+10 17 15.1	19.6 V	691
1997 CD ₂₁	* 1997 02 06.30266	09 17 20.17	+20 33 44.0	20.5 V	691	1997 CM ₂₁	1997 02 10.42731	10 37 29.92	+10 17 22.5	19.6 V	691
1997 CD ₂₁	1997 02 06.31035	09 17 19.70	+20 33 46.8	20.5 V	691	1997 CM ₂₁	1997 02 10.44910	10 37 28.67	+10 17 29.3	20.2 V	691
1997 CD ₂₁	1997 02 06.31841	09 17 19.21	+20 33 49.8	20.8 V	691	1997 CM ₂₁	1997 02 13.33266	10 34 42.48	+10 32 19.6	20.4 V	691
1997 CD ₂₁	1997 02 13.29238	09 10 45.58	+21 13 55.6	21.0 V	691	1997 CM ₂₁	1997 02 13.36352	10 34 40.59	+10 32 29.6	19.8 V	691
1997 CD ₂₁	1997 02 13.30193	09 10 45.00	+21 13 58.6	20.5 V	691	1997 CM ₂₁	1997 02 13.38497	10 34 39.24	+10 32 36.2	20.2 V	691
1997 CD ₂₁	1997 02 13.31204	09 10 44.39	+21 14 01.4	20.1 V	691	1997 CN ₂₁	* 1997 02 10.40640	10 39 21.77	+10 21 38.9	19.8 V	691
1997 CD ₂₁	1997 02 15.27889	09 08 58.61	+21 24 04.2	21.2 V	691	1997 CN ₂₁	1997 02 10.42859	10 39 20.70	+10 21 45.8	19.7 V	691
1997 CD ₂₁	1997 02 15.30925	09 08 56.93	+21 24 13.5	20.5 V	691	1997 CN ₂₁	1997 02 10.45038	10 39 19.69	+10 21 51.9	19.9 V	691
1997 CD ₂₁	1997 02 15.33868	09 08 55.24	+21 24 21.9	20.8 V	691	1997 CN ₂₁	1997 02 13.33430	10 37 04.53	+10 35 52.7	20.2 V	691
1997 CE ₂₁	* 1997 02 06.34206	10 42 55.86	+09 53 42.3	19.4 V	691	1997 CN ₂₁	1997 02 13.36516	10 37 03.03	+10 36 01.6	20.0 V	691
1997 CE ₂₁	1997 02 06.36345	10 42 54.82	+09 53 50.5	19.3 V	691	1997 CN ₂₁	1997 02 13.38662	10 37 01.92	+10 36 07.5	20.0 V	691
1997 CE ₂₁	1997 02 06.38481	10 42 53.70	+09 53 58.3	19.4 V	691	1997 CO ₂₁	* 1997 02 10.40802	10 41 42.06	+10 28 12.8	19.5 V	691
1997 CE ₂₁	1997 02 13.33415	10 36 51.05	+10 41 00.0	19.3 V	691	1997 CO ₂₁	1997 02 10.43021	10 41 41.09	+10 28 19.2	19.5 V	691
1997 CE ₂₁	1997 02 13.36500	10 36 49.30	+10 41 12.6	19.1 V	691	1997 CO ₂₁	1997 02 10.45200	10 41 40.17	+10 28 24.9	19.6 V	691
1997 CE ₂₁	1997 02 13.38646	10 36 48.07	+10 41 21.4	19.1 V	691	1997 CO ₂₁	1997 02 13.33605	10 39 35.61	+10 41 16.3	20.1 V	691
1997 CF ₂₁	* 1997 02 07.41338	10 24 03.40	+10 31 30.1	20.7 V	691	1997 CO ₂₁	1997 02 13.36691	10 39 34.22	+10 41 24.0	20.0 V	691
1997 CF ₂₁	1997 02 07.43481	10 24 02.09	+10 31 33.4	21.2 V	691	1997 CO ₂₁	1997 02 13.38837	10 39 33.21	+10 41 30.1	20.3 V	691
1997 CF ₂₁	1997 02 07.45611	10 24 00.75	+10 31 37.5	20.8 V	691	1997 CP ₂₁	* 1997 02 10.40960	10 43 59.68	+10 14 51.3	19.1 V	691
1997 CF ₂₁	1997 02 13.32115	10 18 05.37	+10 49 21.7	20.6 V	691	1997 CP ₂₁	1997 02 10.43180	10 43 58.55	+10 15 03.1	19.0 V	691
1997 CF ₂₁	1997 02 13.35201	10 18 03.38	+10 49 28.7	20.6 V	691	1997 CP ₂₁	1997 02 10.45359	10 43 57.46	+10 15 13.3	18.9 V	691
1997 CF ₂₁	1997 02 13.37346	10 18 01.98	+10 49 32.1	20.5 V	691	1997 CP ₂₁	1997 02 13.33743	10 41 34.97	+10 39 58.9	20.9 V	691
1997 CG ₂₁	* 1997 02 10.39284	10 19 47.21	+10 19 08.8	18.0 V	691	1997 CP ₂₁	1997 02 13.36828	10 41 33.36	+10 40 14.2	19.3 V	691
1997 CG ₂₁	1997 02 10.41503	10 19 46.06	+10 19 18.5	17.9 V	691	1997 CP ₂₁	1997 02 13.38974	10 41 32.21	+10 40 25.4	20.2 V	691
1997 CG ₂₁	1997 02 10.43682	10 19 44.91	+10 19 28.9	18.0 V	691	1997 CQ ₂₁	* 1997 02 11.40728	10 21 20.75	+11 02 41.0	20.7 V	691
1997 CG ₂₁	1997 02 13.32083	10 17 17.67	+10 43 01.1	18.1 V	691	1997 CQ ₂₁	1997 02 11.42889	10 21 19.21	+11 02 39.8	20.6 V	691
1997 CG ₂₁	1997 02 13.35169	10 17 16.03	+10 43 17.6	18.1 V	691	1997 CQ ₂₁	1997 02 11.45458	10 21 17.40	+11 02 39.2	20.7 V	691
1997 CG ₂₁	1997 02 13.37319	10 17 14.82	+10 43 28.2	18.1 V	691	1997 CQ ₂₁	1997 02 13.32188	10 19 08.67	+11 01 08.9	20.5 V	691
1997 CH ₂₁	* 1997 02 10.39323	10 20 21.05	+10 29 12.8	19.5 V	691	1997 CQ ₂₁	1997 02 13.35273	10 19 06.45	+11 01 08.8	20.8 V	691
1997 CH ₂₁	1997 02 10.41542	10 20 19.97	+10 29 16.2	19.9 V	691	1997 CQ ₂₁	1997 02 13.37419	10 19 04.88	+11 01 07.9	20.8 V	691
1997 CH ₂₁	1997 02 10.43721	10 20 19.01	+10 29 20.4	19.7 V	691	1997 CM ₂₂	* 1997 02 03.16406	08 16 18.43	+19 34 14.0	19.8 V	691
1997 CH ₂₁	1997 02 13.32122	10 18 11.11	+10 38 35.4	19.5 V	691	1997 CM ₂₂	1997 02 03.18611	08 16 17.08	+19 34 18.3	20.0 V	691
1997 CH ₂₁	1997 02 13.35208	10 18 09.71	+10 38 42.6	19.7 V	691	1997 CM ₂₂	1997 02 03.20816	08 16 15.72	+19 34 23.0	20.1 V	691
1997 CH ₂₁	1997 02 13.37354	10 18 08.70	+10 38 46.8	19.8 V	691	1997 CM ₂₂	1997 02 07.27828	08 12 17.63	+19 47 44.0	20.0 V	691

1997 CM ₂₂	1997 02 07.30065	08 12 16.30	+19 47 47.9	20.2 V	691	1997 CV ₂₂	1997 02 03.21534	08 26 37.31	+19 34 36.9	20.8 V	691
1997 CM ₂₂	1997 02 14.18220	08 06 19.40	+20 07 17.1	20.1 V	691	1997 CV ₂₂	1997 02 14.19007	08 17 41.02	+20 24 49.0	20.6 V	691
1997 CM ₂₂	1997 02 14.20472	08 06 18.34	+20 07 20.8	19.9 V	691	1997 CV ₂₂	1997 02 14.21259	08 17 39.98	+20 24 55.3	20.9 V	691
1997 CM ₂₂	1997 02 14.22714	08 06 17.21	+20 07 24.0	20.1 V	691	1997 CV ₂₂	1997 02 14.23501	08 17 38.98	+20 25 00.8	20.8 V	691
1997 CN ₂₂	* 1997 02 03.16454	08 17 00.21	+20 00 58.0	20.2 V	691	1997 CW ₂₂	* 1997 02 03.17158	08 27 09.23	+19 41 43.9	20.7 V	691
1997 CN ₂₂	1997 02 03.18659	08 16 58.89	+20 01 05.0	20.4 V	691	1997 CW ₂₂	1997 02 03.19362	08 27 08.19	+19 41 48.1	20.8 V	691
1997 CN ₂₂	1997 02 03.20864	08 16 57.59	+20 01 11.4	20.6 V	691	1997 CW ₂₂	1997 02 03.21568	08 27 07.05	+19 41 52.4	21.2 V	691
1997 CN ₂₂	1997 02 14.11406	08 07 42.94	+20 49 24.1	21.5 V	691	1997 CW ₂₂	1997 02 14.19079	08 18 43.14	+20 13 17.7	21.0 V	691
1997 CN ₂₂	1997 02 14.13689	08 07 41.84	+20 49 31.1	20.5 V	691	1997 CW ₂₂	1997 02 14.21330	08 18 42.17	+20 13 21.8	20.8 V	691
1997 CN ₂₂	1997 02 14.15967	08 07 40.87	+20 49 36.1	20.6 V	691	1997 CW ₂₂	1997 02 14.23573	08 18 41.20	+20 13 25.3	21.3 V	691
1997 CO ₂₂	* 1997 02 03.16479	08 17 21.87	+19 59 18.5	18.8 V	691	1997 CX ₂₂	* 1997 02 03.22451	08 22 50.75	+20 21 30.3	18.4 V	691
1997 CO ₂₂	1997 02 03.18684	08 17 20.37	+19 59 20.2	18.9 V	691	1997 CX ₂₂	1997 02 03.23244	08 22 50.26	+20 21 32.0	18.3 V	691
1997 CO ₂₂	1997 02 03.20889	08 17 18.86	+19 59 23.0	19.0 V	691	1997 CX ₂₂	1997 02 03.24051	08 22 49.77	+20 21 33.6	18.3 V	691
1997 CO ₂₂	1997 02 14.18224	08 06 22.65	+20 13 14.3	19.2 V	691	1997 CX ₂₂	1997 02 14.11800	08 13 24.38	+20 51 38.9	18.9 V	691
1997 CO ₂₂	1997 02 14.20475	08 06 21.44	+20 13 15.4	19.2 V	691	1997 CX ₂₂	1997 02 14.14083	08 13 23.35	+20 51 42.1	18.9 V	691
1997 CO ₂₂	1997 02 14.22717	08 06 20.22	+20 13 16.5	19.1 V	691	1997 CX ₂₂	1997 02 14.16361	08 13 22.27	+20 51 45.4	18.9 V	691
1997 CP ₂₂	* 1997 02 03.16537	08 18 11.33	+19 44 25.8	20.5 V	691	1997 CY ₂₂	* 1997 02 04.16364	08 17 00.21	+19 19 53.9	19.4 V	691
1997 CP ₂₂	1997 02 03.18741	08 18 09.96	+19 44 27.6	20.8 V	691	1997 CY ₂₂	1997 02 04.18627	08 16 58.94	+19 19 57.7	19.3 V	691
1997 CP ₂₂	1997 02 03.20946	08 18 08.56	+19 44 29.7	20.8 V	691	1997 CY ₂₂	1997 02 04.20857	08 16 57.69	+19 20 00.9	19.3 V	691
1997 CP ₂₂	1997 02 14.25220	08 08 30.55	+19 55 08.9	20.9 V	691	1997 CY ₂₂	1997 02 14.25234	08 08 42.61	+19 41 58.0	19.5 V	691
1997 CP ₂₂	1997 02 14.27901	08 08 29.30	+19 55 09.4	20.9 V	691	1997 CY ₂₂	1997 02 14.27915	08 08 41.40	+19 42 00.5	19.6 V	691
1997 CP ₂₂	1997 02 14.30292	08 08 28.19	+19 55 09.5	21.8 V	691	1997 CY ₂₂	1997 02 14.30306	08 08 40.30	+19 42 03.6	19.7 V	691
1997 CQ ₂₂	* 1997 02 03.16552	08 18 24.92	+19 52 17.5	17.8 V	691	1997 CZ ₂₂	* 1997 02 04.16474	08 18 34.84	+19 15 44.4	20.5 V	691
1997 CQ ₂₂	1997 02 03.18757	08 18 23.47	+19 52 22.2	17.9 V	691	1997 CZ ₂₂	1997 02 04.18736	08 18 33.71	+19 15 49.8	20.5 V	691
1997 CQ ₂₂	1997 02 03.20962	08 18 22.02	+19 52 27.3	17.9 V	691	1997 CZ ₂₂	1997 02 04.20967	08 18 32.59	+19 15 55.1	20.5 V	691
1997 CQ ₂₂	1997 02 14.18318	08 07 44.74	+20 28 05.1	18.3 V	691	1997 CZ ₂₂	1997 02 14.25398	08 11 04.45	+19 52 32.9	20.5 V	691
1997 CQ ₂₂	1997 02 14.20570	08 07 43.55	+20 28 08.7	18.2 V	691	1997 CZ ₂₂	1997 02 14.28079	08 11 03.34	+19 52 38.1	20.5 V	691
1997 CQ ₂₂	1997 02 14.22812	08 07 42.37	+20 28 12.5	18.2 V	691	1997 CZ ₂₂	1997 02 14.30470	08 11 02.32	+19 52 42.6	20.3 V	691
1997 CR ₂₂	* 1997 02 03.16765	08 21 29.39	+19 59 33.8	20.5 V	691	1997 CA ₂₃	* 1997 02 04.16575	08 20 02.95	+19 10 43.2	20.7 V	691
1997 CR ₂₂	1997 02 03.18970	08 21 27.99	+19 59 36.7	20.6 V	691	1997 CA ₂₃	1997 02 04.18838	08 20 01.74	+19 10 47.6	20.0 V	691
1997 CR ₂₂	1997 02 03.21175	08 21 26.58	+19 59 40.0	20.5 V	691	1997 CA ₂₃	1997 02 04.21069	08 20 00.56	+19 10 50.4	20.6 V	691
1997 CR ₂₂	1997 02 14.18537	08 10 54.45	+20 20 03.4	20.4 V	691	1997 CA ₂₃	1997 02 14.25463	08 12 00.17	+19 34 19.5	20.6 V	691
1997 CR ₂₂	1997 02 14.20789	08 10 53.26	+20 20 05.7	20.4 V	691	1997 CA ₂₃	1997 02 14.28143	08 11 58.96	+19 34 22.6	20.5 V	691
1997 CR ₂₂	1997 02 14.23031	08 10 52.06	+20 20 07.9	20.5 V	691	1997 CA ₂₃	1997 02 14.30534	08 11 57.90	+19 34 25.3	21.0 V	691
1997 CS ₂₂	* 1997 02 03.16874	08 23 03.78	+19 44 23.2	20.6 V	691	1997 CB ₂₃	* 1997 02 04.16755	08 22 38.78	+19 06 19.7	21.2 V	691
1997 CS ₂₂	1997 02 03.19079	08 23 02.36	+19 44 26.6	21.0 V	691	1997 CB ₂₃	1997 02 04.19018	08 22 37.57	+19 06 24.6	21.3 V	691
1997 CS ₂₂	1997 02 03.21284	08 23 00.97	+19 44 29.8	20.9 V	691	1997 CB ₂₃	1997 02 04.21248	08 22 36.37	+19 06 29.2	21.2 V	691
1997 CS ₂₂	1997 02 14.20918	08 12 45.01	+20 05 30.4	20.3 V	691	1997 CB ₂₃	1997 02 14.25635	08 14 29.70	+19 39 27.4	21.7 V	691
1997 CS ₂₂	1997 02 14.23160	08 12 43.99	+20 05 33.1	19.9 V	691	1997 CB ₂₃	1997 02 14.28316	08 14 28.52	+19 39 31.4	21.9 V	691
1997 CT ₂₂	* 1997 02 03.17011	08 25 02.34	+19 37 48.4	20.6 V	691	1997 CB ₂₃	1997 02 14.30707	08 14 27.34	+19 39 36.1	21.4 V	691
1997 CT ₂₂	1997 02 03.19216	08 25 00.99	+19 37 52.3	21.0 V	691	1997 CC ₂₃	* 1997 02 04.16949	08 25 26.19	+19 07 56.7	21.0 V	691
1997 CT ₂₂	1997 02 03.21421	08 24 59.61	+19 37 55.6	20.8 V	691	1997 CC ₂₃	1997 02 04.19211	08 25 24.96	+19 07 58.4	21.3 V	691
1997 CT ₂₂	1997 02 14.18815	08 14 54.77	+20 01 48.6	20.9 V	691	1997 CC ₂₃	1997 02 04.21442	08 25 23.72	+19 08 00.1	20.8 V	691
1997 CT ₂₂	1997 02 14.23309	08 14 52.44	+20 01 53.5	21.5 V	691	1997 CC ₂₃	1997 02 14.33361	08 16 59.04	+19 16 46.3	20.7 V	691
1997 CU ₂₂	* 1997 02 03.17067	08 25 50.58	+19 54 36.3	20.9 V	691	1997 CC ₂₃	1997 02 14.35617	08 16 58.01	+19 16 46.1	21.3 V	691
1997 CU ₂₂	1997 02 03.19271	08 25 49.36	+19 54 39.6	21.3 V	691	1997 CC ₂₃	1997 02 14.38275	08 16 56.79	+19 16 47.2	21.4 V	691
1997 CU ₂₂	1997 02 03.21477	08 25 48.03	+19 54 44.3	21.3 V	691	1997 CD ₂₃	* 1997 02 04.17005	08 26 15.40	+19 25 28.0	20.9 V	691
1997 CU ₂₂	1997 02 14.18900	08 16 08.12	+20 23 20.8	21.2 V	691	1997 CD ₂₃	1997 02 04.19268	08 26 14.00	+19 25 25.8	21.2 V	691
1997 CU ₂₂	1997 02 14.21151	08 16 06.99	+20 23 24.0	21.2 V	691	1997 CD ₂₃	1997 02 04.21498	08 26 12.64	+19 25 23.9	20.4 V	691
1997 CU ₂₂	1997 02 14.23393	08 16 05.89	+20 23 27.0	21.5 V	691	1997 CD ₂₃	1997 02 14.33346	08 16 46.52	+19 08 06.8	21.1 V	691
1997 CV ₂₂	* 1997 02 03.17123	08 26 39.73	+19 34 24.0	20.7 V	691	1997 CD ₂₃	1997 02 14.35603	08 16 45.36	+19 08 03.6	21.0 V	691
1997 CV ₂₂	1997 02 03.19328	08 26 38.53	+19 34 30.2	20.6 V	691	1997 CD ₂₃	1997 02 14.38260	08 16 43.98	+19 08 00.5	21.1 V	691

1997 CE ₂₃	* 1997 02 04.17183	08 28 49.58	+19 10 17.3	19.9 V	691	1997 CN ₂₃	1997 02 14.18425	08 09 16.99	+20 28 24.5	19.3 V	691
1997 CE ₂₃	1997 02 04.19446	08 28 48.24	+19 10 24.4	20.2 V	691	1997 CN ₂₃	1997 02 14.20677	08 09 15.97	+20 28 27.5	19.4 V	691
1997 CE ₂₃	1997 02 04.21676	08 28 46.93	+19 10 31.7	19.8 V	691	1997 CN ₂₃	1997 02 14.22919	08 09 14.96	+20 28 30.1	19.3 V	691
1997 CE ₂₃	1997 02 14.26046	08 20 25.27	+19 58 55.7	20.2 V	691	1997 CO ₂₃	* 1997 02 07.19740	08 26 20.97	+20 03 55.1	20.7 V	691
1997 CE ₂₃	1997 02 14.28726	08 20 24.08	+19 59 02.4	20.2 V	691	1997 CO ₂₃	1997 02 07.21962	08 26 19.85	+20 03 59.0	21.0 V	691
1997 CE ₂₃	1997 02 14.31117	08 20 23.00	+19 59 08.3	19.9 V	691	1997 CO ₂₃	1997 02 07.24183	08 26 18.69	+20 04 02.8	20.9 V	691
1997 CF ₂₃	* 1997 02 04.17243	08 29 41.36	+19 16 59.7	19.2 V	691	1997 CO ₂₃	1997 02 14.19219	08 20 44.59	+20 21 05.6	20.6 V	691
1997 CF ₂₃	1997 02 04.19506	08 29 40.00	+19 17 06.2	19.6 V	691	1997 CO ₂₃	1997 02 14.21471	08 20 43.54	+20 21 08.7	21.1 V	691
1997 CF ₂₃	1997 02 04.21736	08 29 38.60	+19 17 12.4	19.1 V	691	1997 CO ₂₃	1997 02 14.23713	08 20 42.50	+20 21 11.8	20.7 V	691
1997 CF ₂₃	1997 02 14.26059	08 20 36.53	+19 58 12.6	19.6 V	691	1997 CP ₂₃	* 1997 02 07.19872	08 28 15.27	+20 21 10.0	20.7 V	691
1997 CF ₂₃	1997 02 14.28739	08 20 35.22	+19 58 18.0	19.7 V	691	1997 CP ₂₃	1997 02 07.22094	08 28 13.82	+20 21 11.6	21.0 V	691
1997 CF ₂₃	1997 02 14.31130	08 20 33.98	+19 58 23.5	19.6 V	691	1997 CP ₂₃	1997 02 07.24315	08 28 12.38	+20 21 13.8	21.2 V	691
1997 CG ₂₃	* 1997 02 04.17336	08 31 01.45	+19 01 27.0	19.0 V	691	1997 CP ₂₃	1997 02 14.19260	08 21 20.47	+20 30 43.1	20.8 V	691
1997 CG ₂₃	1997 02 04.21828	08 30 58.74	+19 01 47.3	18.7 V	691	1997 CP ₂₃	1997 02 14.21512	08 21 19.23	+20 30 45.2	20.9 V	691
1997 CG ₂₃	1997 02 14.19317	08 22 10.04	+20 11 50.9	18.9 V	691	1997 CP ₂₃	1997 02 14.23754	08 21 17.95	+20 30 46.8	20.9 V	691
1997 CG ₂₃	1997 02 14.21569	08 22 08.91	+20 11 59.9	19.0 V	691	1997 CQ ₂₃	* 1997 02 07.19911	08 28 49.84	+20 25 23.9	20.4 V	691
1997 CG ₂₃	1997 02 14.23811	08 22 07.81	+20 12 08.5	18.9 V	691	1997 CQ ₂₃	1997 02 07.22133	08 28 48.14	+20 25 13.3	20.6 V	691
1997 CH ₂₃	* 1997 02 04.18719	08 18 19.10	+19 24 43.6	20.0 V	691	1997 CQ ₂₃	1997 02 07.24354	08 28 46.41	+20 25 02.3	20.7 V	691
1997 CH ₂₃	1997 02 04.20950	08 18 18.04	+19 24 48.7	19.8 V	691	1997 CQ ₂₃	1997 02 14.33601	08 20 27.04	+19 26 48.9	20.9 V	691
1997 CH ₂₃	1997 02 07.25805	08 15 59.29	+19 35 38.1	19.7 V	691	1997 CQ ₂₃	1997 02 14.35857	08 20 25.52	+19 26 37.4	20.5 V	691
1997 CH ₂₃	1997 02 07.28082	08 15 58.29	+19 35 41.1	19.9 V	691	1997 CQ ₂₃	1997 02 14.38514	08 20 23.76	+19 26 23.4	21.2 V	691
1997 CH ₂₃	1997 02 07.30320	08 15 57.25	+19 35 46.0	20.1 V	691	1997 CR ₂₃	* 1997 02 07.19943	08 29 17.03	+20 11 05.5	18.8 V	691
1997 CH ₂₃	1997 02 14.25412	08 11 16.49	+19 57 54.4	20.0 V	691	1997 CR ₂₃	1997 02 07.22165	08 29 15.76	+20 11 11.2	18.8 V	691
1997 CH ₂₃	1997 02 14.28093	08 11 15.47	+19 57 59.2	20.1 V	691	1997 CR ₂₃	1997 02 07.24387	08 29 14.65	+20 11 17.7	18.9 V	691
1997 CH ₂₃	1997 02 14.30484	08 11 14.57	+19 58 03.3	20.2 V	691	1997 CR ₂₃	1997 02 14.12504	08 23 34.12	+20 41 23.5	18.9 V	691
1997 CJ ₂₃	* 1997 02 04.18727	08 18 25.83	+19 27 55.7	20.4 V	691	1997 CR ₂₃	1997 02 14.14787	08 23 33.02	+20 41 29.9	18.8 V	691
1997 CJ ₂₃	1997 02 04.20958	08 18 24.52	+19 28 02.1	20.2 V	691	1997 CR ₂₃	1997 02 14.17065	08 23 31.94	+20 41 35.5	18.8 V	691
1997 CJ ₂₃	1997 02 14.18462	08 09 48.93	+20 10 36.7	20.4 V	691	1997 CS ₂₃	* 1997 02 07.20081	08 31 17.11	+20 28 40.7	20.5 V	691
1997 CJ ₂₃	1997 02 14.20714	08 09 47.87	+20 10 41.8	20.4 V	691	1997 CS ₂₃	1997 02 07.22304	08 31 15.95	+20 28 46.1	20.2 V	691
1997 CJ ₂₃	1997 02 14.22956	08 09 46.75	+20 10 47.4	20.4 V	691	1997 CS ₂₃	1997 02 07.24525	08 31 14.95	+20 28 49.8	20.9 V	691
1997 CK ₂₃	* 1997 02 04.22314	08 22 53.40	+20 37 55.0	19.7 V	691	1997 CS ₂₃	1997 02 14.12683	08 26 09.22	+20 51 04.8	20.6 V	691
1997 CK ₂₃	1997 02 04.23076	08 22 52.96	+20 37 55.4	19.7 V	691	1997 CS ₂₃	1997 02 14.14966	08 26 08.22	+20 51 09.1	20.0 V	691
1997 CK ₂₃	1997 02 04.24063	08 22 52.34	+20 37 56.4	19.8 V	691	1997 CS ₂₃	1997 02 14.17244	08 26 07.29	+20 51 13.1	20.7 V	691
1997 CK ₂₃	1997 02 06.25026	08 20 53.20	+20 40 13.4	20.0 V	691	1997 CT ₂₃	* 1997 02 07.25689	08 14 18.92	+19 42 14.6	19.9 V	691
1997 CK ₂₃	1997 02 06.27287	08 20 51.82	+20 40 15.0	19.8 V	691	1997 CT ₂₃	1997 02 07.27966	08 14 17.84	+19 42 19.3	20.1 V	691
1997 CK ₂₃	1997 02 14.11847	08 14 04.70	+20 45 26.9	19.8 V	691	1997 CT ₂₃	1997 02 07.30204	08 14 16.82	+19 42 23.8	20.6 V	691
1997 CK ₂₃	1997 02 14.14130	08 14 03.64	+20 45 27.4	19.6 V	691	1997 CT ₂₃	1997 02 14.18433	08 09 23.83	+20 03 07.6	19.7 V	691
1997 CK ₂₃	1997 02 14.16407	08 14 02.53	+20 45 28.1	19.6 V	691	1997 CT ₂₃	1997 02 14.20685	08 09 22.90	+20 03 11.4	19.7 V	691
1997 CL ₂₃	* 1997 02 06.25827	08 32 27.54	+20 41 37.3	20.9 V	691	1997 CT ₂₃	1997 02 14.22927	08 09 21.98	+20 03 15.2	20.2 V	691
1997 CL ₂₃	1997 02 06.28089	08 32 26.13	+20 41 40.0	20.7 V	691	1997 CU ₂₃	* 1997 02 07.25808	08 16 01.87	+19 51 35.4	20.7 V	691
1997 CL ₂₃	1997 02 14.12621	08 25 15.44	+20 52 16.6	20.8 V	691	1997 CU ₂₃	1997 02 07.28085	08 16 00.78	+19 51 39.5	20.4 V	691
1997 CL ₂₃	1997 02 14.14904	08 25 14.23	+20 52 18.3	20.8 V	691	1997 CU ₂₃	1997 02 07.30322	08 15 59.61	+19 51 41.7	21.1 V	691
1997 CL ₂₃	1997 02 14.17181	08 25 13.11	+20 52 19.6	20.8 V	691	1997 CU ₂₃	1997 02 14.18529	08 10 47.48	+20 06 02.4	21.1 V	691
1997 CM ₂₃	* 1997 02 07.18920	08 14 31.19	+20 09 30.9	19.5 V	691	1997 CU ₂₃	1997 02 14.20781	08 10 46.51	+20 06 05.4	21.2 V	691
1997 CM ₂₃	1997 02 07.21142	08 14 29.67	+20 09 33.0	19.5 V	691	1997 CU ₂₃	1997 02 14.23024	08 10 45.55	+20 06 07.4	21.3 V	691
1997 CM ₂₃	1997 02 07.23363	08 14 28.14	+20 09 35.2	19.6 V	691	1997 CV ₂₃	* 1997 02 07.25970	08 18 22.61	+19 57 48.7	19.8 V	691
1997 CM ₂₃	1997 02 14.18297	08 07 26.30	+20 17 57.1	19.3 V	691	1997 CV ₂₃	1997 02 07.28247	08 18 21.22	+19 57 54.8	20.5 V	691
1997 CM ₂₃	1997 02 14.20549	08 07 24.98	+20 17 58.4	19.5 V	691	1997 CV ₂₃	1997 02 07.30484	08 18 19.90	+19 58 01.0	20.5 V	691
1997 CM ₂₃	1997 02 14.22791	08 07 23.71	+20 17 59.6	19.5 V	691	1997 CV ₂₃	1997 02 14.18617	08 12 03.58	+20 26 52.9	20.5 V	691
1997 CN ₂₃	* 1997 02 07.18944	08 14 51.45	+20 12 34.6	19.3 V	691	1997 CV ₂₃	1997 02 14.20869	08 12 02.38	+20 26 58.9	20.2 V	691
1997 CN ₂₃	1997 02 07.21166	08 14 50.20	+20 12 37.8	19.2 V	691	1997 CV ₂₃	1997 02 14.23111	08 12 01.20	+20 27 04.4	19.8 V	691
1997 CN ₂₃	1997 02 07.23387	08 14 49.01	+20 12 41.7	19.4 V	691	1997 CW ₂₃	* 1997 02 07.26024	08 19 09.09	+19 47 38.3	21.1 V	691

1997 CW ₂₃	1997 02 07.28301	08 19 07.89	+19 47 44.1	20.8 V	691	1997 CE ₂₄	1997 02 14.37704	08 08 42.20	+19 22 51.4	20.9 V	691
1997 CW ₂₃	1997 02 07.30538	08 19 06.68	+19 47 49.9	21.0 V	691	1997 CF ₂₄	* 1997 02 09.27945	08 12 55.84	+19 04 14.7	20.1 V	691
1997 CW ₂₃	1997 02 14.18741	08 13 50.44	+20 14 46.3	20.6 V	691	1997 CF ₂₄	1997 02 09.30178	08 12 54.68	+19 04 17.3	20.0 V	691
1997 CW ₂₃	1997 02 14.20993	08 13 49.44	+20 14 51.2	21.6 V	691	1997 CF ₂₄	1997 02 09.32425	08 12 53.52	+19 04 20.4	20.2 V	691
1997 CW ₂₃	1997 02 14.23235	08 13 48.45	+20 14 56.3	21.0 V	691	1997 CF ₂₄	1997 02 14.32812	08 09 03.56	+19 14 05.9	20.3 V	691
1997 CX ₂₃	* 1997 02 07.26391	08 24 26.93	+19 37 16.0	20.8 V	691	1997 CF ₂₄	1997 02 14.35068	08 09 02.53	+19 14 07.9	20.2 V	691
1997 CX ₂₃	1997 02 07.28668	08 24 25.58	+19 37 24.3	20.5 V	691	1997 CF ₂₄	1997 02 14.37726	08 09 01.37	+19 14 10.5	20.6 V	691
1997 CX ₂₃	1997 02 07.30905	08 24 24.31	+19 37 31.8	21.6 V	691	1997 CG ₂₄	* 1997 02 09.28027	08 14 06.51	+19 11 10.9	20.7 V	691
1997 CX ₂₃	1997 02 14.19054	08 18 21.49	+20 17 23.3	21.3 V	691	1997 CG ₂₄	1997 02 09.30260	08 14 05.50	+19 11 19.1	20.5 V	691
1997 CX ₂₃	1997 02 14.21305	08 18 20.35	+20 17 30.8	21.2 V	691	1997 CG ₂₄	1997 02 09.32507	08 14 04.52	+19 11 26.7	20.8 V	691
1997 CX ₂₃	1997 02 14.23547	08 18 19.15	+20 17 38.5	21.2 V	691	1997 CG ₂₄	1997 02 14.25376	08 10 45.39	+19 40 25.9	20.9 V	691
1997 CY ₂₃	* 1997 02 07.26680	08 28 37.21	+19 56 41.4	18.7 V	691	1997 CG ₂₄	1997 02 14.30448	08 10 43.44	+19 40 42.9	21.0 V	691
1997 CY ₂₃	1997 02 07.28957	08 28 35.71	+19 56 44.8	18.8 V	691	1997 CH ₂₄	* 1997 02 09.28129	08 15 35.09	+19 08 31.1	18.7 V	691
1997 CY ₂₃	1997 02 07.31194	08 28 34.23	+19 56 48.2	18.9 V	691	1997 CH ₂₄	1997 02 09.30362	08 15 33.85	+19 08 36.8	18.8 V	691
1997 CY ₂₃	1997 02 14.19283	08 21 39.83	+20 11 53.6	18.8 V	691	1997 CH ₂₄	1997 02 09.32608	08 15 32.64	+19 08 42.6	18.9 V	691
1997 CY ₂₃	1997 02 14.21534	08 21 38.52	+20 11 56.3	19.0 V	691	1997 CH ₂₄	1997 02 14.32987	08 11 35.24	+19 29 38.8	19.0 V	691
1997 CY ₂₃	1997 02 14.23776	08 21 37.20	+20 11 58.7	19.0 V	691	1997 CH ₂₄	1997 02 14.35243	08 11 34.20	+19 29 44.1	18.9 V	691
1997 CZ ₂₃	* 1997 02 07.26707	08 29 01.05	+19 51 58.0	20.5 V	691	1997 CH ₂₄	1997 02 14.37901	08 11 33.00	+19 29 50.0	19.3 V	691
1997 CZ ₂₃	1997 02 07.28984	08 28 59.66	+19 52 04.6	20.5 V	691	1997 CJ ₂₄	* 1997 02 09.28214	08 16 48.63	+19 01 12.9	20.5 V	691
1997 CZ ₂₃	1997 02 07.31221	08 28 58.23	+19 52 09.7	20.8 V	691	1997 CJ ₂₄	1997 02 09.30447	08 16 47.62	+19 01 44.7	20.4 V	691
1997 CZ ₂₃	1997 02 14.19344	08 22 33.04	+20 18 26.5	20.6 V	691	1997 CJ ₂₄	1997 02 09.32694	08 16 46.55	+19 02 17.1	20.5 V	691
1997 CZ ₂₃	1997 02 14.21596	08 22 31.83	+20 18 31.2	20.9 V	691	1997 CJ ₂₄	1997 02 14.11813	08 13 35.64	+20 54 13.4	20.7 V	691
1997 CZ ₂₃	1997 02 14.23838	08 22 30.61	+20 18 36.2	20.8 V	691	1997 CJ ₂₄	1997 02 14.14097	08 13 34.82	+20 54 44.8	20.5 V	691
1997 CA ₂₄	* 1997 02 07.26791	08 30 14.11	+19 46 12.5	21.0 V	691	1997 CJ ₂₄	1997 02 14.16374	08 13 33.92	+20 55 15.5	20.5 V	691
1997 CA ₂₄	1997 02 07.29069	08 30 12.62	+19 46 10.3	20.8 V	691	1997 CK ₂₄	* 1997 02 09.28367	08 19 00.94	+19 02 39.3	20.0 V	691
1997 CA ₂₄	1997 02 07.31306	08 30 11.17	+19 46 07.8	20.8 V	691	1997 CK ₂₄	1997 02 09.30600	08 18 59.86	+19 02 44.5	19.8 V	691
1997 CA ₂₄	1997 02 14.26247	08 23 19.44	+19 32 22.0	21.0 V	691	1997 CK ₂₄	1997 02 09.32846	08 18 58.77	+19 02 49.1	20.2 V	691
1997 CA ₂₄	1997 02 14.28927	08 23 17.89	+19 32 17.5	21.0 V	691	1997 CK ₂₄	1997 02 14.33241	08 15 15.14	+19 20 10.6	19.9 V	691
1997 CA ₂₄	1997 02 14.31318	08 23 16.51	+19 32 14.9	21.6 V	691	1997 CK ₂₄	1997 02 14.35497	08 15 14.14	+19 20 16.4	19.3 V	691
1997 CB ₂₄	* 1997 02 07.26868	08 31 20.56	+19 31 44.4	20.1 V	691	1997 CK ₂₄	1997 02 14.38155	08 15 13.03	+19 20 20.1	19.9 V	691
1997 CB ₂₄	1997 02 07.29146	08 31 19.22	+19 31 51.4	20.2 V	691	1997 CL ₂₄	* 1997 02 09.28633	08 22 51.51	+19 15 26.7	18.4 V	691
1997 CB ₂₄	1997 02 07.31383	08 31 17.90	+19 31 58.7	19.8 V	691	1997 CL ₂₄	1997 02 09.30865	08 22 50.20	+19 15 31.5	18.5 V	691
1997 CB ₂₄	1997 02 14.19517	08 25 03.26	+20 04 48.8	20.0 V	691	1997 CL ₂₄	1997 02 09.33112	08 22 48.85	+19 15 36.2	18.5 V	691
1997 CB ₂₄	1997 02 14.21769	08 25 02.08	+20 04 54.8	20.1 V	691	1997 CL ₂₄	1997 02 14.25912	08 18 29.19	+19 32 07.5	18.5 V	691
1997 CB ₂₄	1997 02 14.24011	08 25 00.90	+20 05 00.8	20.2 V	691	1997 CL ₂₄	1997 02 14.28592	08 18 27.84	+19 32 11.8	18.6 V	691
1997 CC ₂₄	* 1997 02 09.27780	08 10 32.62	+19 19 00.3	19.9 V	691	1997 CL ₂₄	1997 02 14.30983	08 18 26.58	+19 32 16.7	18.6 V	691
1997 CC ₂₄	1997 02 09.30013	08 10 31.52	+19 19 10.1	19.9 V	691	1997 CM ₂₄	* 1997 02 09.28838	08 25 48.77	+18 59 31.5	20.4 V	691
1997 CC ₂₄	1997 02 09.32260	08 10 30.40	+19 19 19.7	20.2 V	691	1997 CM ₂₄	1997 02 09.31070	08 25 47.70	+18 59 36.4	20.1 V	691
1997 CC ₂₄	1997 02 14.25113	08 06 57.12	+19 53 36.3	20.2 V	691	1997 CM ₂₄	1997 02 09.33317	08 25 46.65	+18 59 41.4	20.3 V	691
1997 CC ₂₄	1997 02 14.27793	08 06 55.97	+19 53 46.9	20.1 V	691	1997 CM ₂₄	1997 02 14.33717	08 22 08.11	+19 17 13.7	20.4 V	691
1997 CC ₂₄	1997 02 14.30184	08 06 54.93	+19 53 56.4	20.1 V	691	1997 CM ₂₄	1997 02 14.35974	08 22 07.16	+19 17 18.0	20.5 V	691
1997 CD ₂₄	* 1997 02 09.27826	08 11 12.32	+19 01 51.3	19.5 V	691	1997 CN ₂₄	* 1997 02 09.28922	08 27 01.63	+19 17 49.7	19.4 V	691
1997 CD ₂₄	1997 02 09.30058	08 11 11.21	+19 01 57.4	19.6 V	691	1997 CN ₂₄	1997 02 09.31154	08 27 00.42	+19 17 56.3	19.4 V	691
1997 CD ₂₄	1997 02 09.32305	08 11 10.09	+19 02 01.6	18.9 V	691	1997 CN ₂₄	1997 02 09.33401	08 26 59.19	+19 18 03.2	19.3 V	691
1997 CD ₂₄	1997 02 14.32708	08 07 33.52	+19 23 32.7	19.7 V	691	1997 CN ₂₄	1997 02 14.26214	08 22 51.53	+19 41 59.4	19.2 V	691
1997 CD ₂₄	1997 02 14.34964	08 07 32.58	+19 23 37.7	19.6 V	691	1997 CN ₂₄	1997 02 14.28895	08 22 50.25	+19 42 06.3	19.5 V	691
1997 CD ₂₄	1997 02 14.37622	08 07 31.50	+19 23 44.0	19.8 V	691	1997 CN ₂₄	1997 02 14.31286	08 22 49.01	+19 42 14.3	19.2 V	691
1997 CE ₂₄	* 1997 02 09.27943	08 12 54.31	+19 04 46.1	21.0 V	691	1997 CO ₂₄	* 1997 02 09.29020	08 28 27.00	+19 07 51.6	20.4 V	691
1997 CE ₂₄	1997 02 09.30176	08 12 53.09	+19 04 51.3	20.3 V	691	1997 CO ₂₄	1997 02 09.31253	08 28 25.65	+19 07 54.7	20.4 V	691
1997 CE ₂₄	1997 02 09.32423	08 12 51.90	+19 04 55.6	21.0 V	691	1997 CO ₂₄	1997 02 09.33499	08 28 24.31	+19 07 57.1	21.0 V	691
1997 CE ₂₄	1997 02 14.32790	08 08 44.55	+19 22 42.0	21.1 V	691	1997 CO ₂₄	1997 02 14.33842	08 23 55.71	+19 18 27.4	21.0 V	691
1997 CE ₂₄	1997 02 14.35046	08 08 43.46	+19 22 46.1	20.9 V	691	1997 CO ₂₄	1997 02 14.36098	08 23 54.55	+19 18 29.8	21.6 V	691

1997 CO ₂₄	1997 02 14.38756	08 23 53.13	+19 18 32.5	21.2 V	691	1997 CX ₂₄	1997 02 14.26667	08 29 23.42	+19 59 18.3	20.1 V	691
1997 CP ₂₄	* 1997 02 09.29039	08 28 43.07	+19 20 04.5	20.3 V	691	1997 CX ₂₄	1997 02 14.29347	08 29 22.13	+19 59 26.9	20.2 V	691
1997 CP ₂₄	1997 02 09.31271	08 28 41.80	+19 20 08.5	20.5 V	691	1997 CX ₂₄	1997 02 14.31738	08 29 20.90	+19 59 34.3	20.2 V	691
1997 CP ₂₄	1997 02 09.33518	08 28 40.55	+19 20 12.6	20.6 V	691	1997 CY ₂₄	* 1997 02 10.34859	08 32 43.31	+19 07 38.5	21.2 V	691
1997 CP ₂₄	1997 02 14.26322	08 24 24.39	+19 34 53.5	20.5 V	691	1997 CY ₂₄	1997 02 10.35436	08 32 42.97	+19 07 39.6	20.9 V	691
1997 CP ₂₄	1997 02 14.29002	08 24 23.00	+19 34 57.1	20.2 V	691	1997 CY ₂₄	1997 02 10.36007	08 32 42.65	+19 07 41.2	20.6 V	691
1997 CP ₂₄	1997 02 14.31393	08 24 21.75	+19 35 02.4	20.9 V	691	1997 CY ₂₄	1997 02 10.36653	08 32 42.29	+19 07 43.0	20.7 V	691
1997 CQ ₂₄	* 1997 02 09.29218	08 31 18.64	+19 02 13.7	20.3 V	691	1997 CY ₂₄	1997 02 14.34220	08 29 23.09	+19 23 50.8	21.2 V	691
1997 CQ ₂₄	1997 02 09.31451	08 31 17.41	+19 02 14.4	19.8 V	691	1997 CY ₂₄	1997 02 14.36476	08 29 21.97	+19 23 56.0	21.6 V	691
1997 CQ ₂₄	1997 02 09.33697	08 31 15.95	+19 02 14.9	20.1 V	691	1997 CY ₂₄	1997 02 14.39134	08 29 20.66	+19 24 01.2	21.6 V	691
1997 CQ ₂₄	1997 02 14.34035	08 26 43.19	+19 04 04.3	20.2 V	691	1997 CZ ₂₄	* 1997 02 03.26553	09 22 12.01	+20 41 57.2	19.7 V	691
1997 CQ ₂₄	1997 02 14.36291	08 26 42.02	+19 04 03.9	20.5 V	691	1997 CZ ₂₄	1997 02 03.28680	09 22 10.81	+20 42 02.2	19.5 V	691
1997 CQ ₂₄	1997 02 14.38949	08 26 40.65	+19 04 04.2	20.2 V	691	1997 CZ ₂₄	1997 02 03.30790	09 22 09.48	+20 42 07.5	19.7 V	691
1997 CR ₂₄	* 1997 02 09.31149	08 26 56.22	+19 29 24.5	19.9 V	691	1997 CZ ₂₄	1997 02 15.28007	09 10 40.67	+21 25 19.5	19.8 V	691
1997 CR ₂₄	1997 02 09.33396	08 26 55.19	+19 29 33.2	20.0 V	691	1997 CZ ₂₄	1997 02 15.31043	09 10 38.94	+21 25 24.9	20.2 V	691
1997 CR ₂₄	1997 02 14.26254	08 23 25.70	+20 00 10.4	20.0 V	691	1997 CZ ₂₄	1997 02 15.33986	09 10 37.24	+21 25 30.4	19.9 V	691
1997 CR ₂₄	1997 02 14.28934	08 23 24.62	+20 00 20.2	20.0 V	691	1997 CA ₂₅	* 1997 02 03.26610	09 23 00.99	+20 42 13.2	20.9 V	691
1997 CR ₂₄	1997 02 14.31326	08 23 23.55	+20 00 28.8	20.1 V	691	1997 CA ₂₅	1997 02 03.28736	09 22 59.54	+20 42 19.0	20.7 V	691
1997 CS ₂₄	* 1997 02 10.34563	08 27 52.03	+19 11 15.7	18.4 V	691	1997 CA ₂₅	1997 02 03.30846	09 22 58.08	+20 42 24.7	20.8 V	691
1997 CS ₂₄	1997 02 10.35140	08 27 51.71	+19 11 17.1	18.3 V	691	1997 CA ₂₅	1997 02 15.27904	09 09 11.35	+21 28 56.6	21.1 V	691
1997 CS ₂₄	1997 02 10.36358	08 27 51.09	+19 11 19.8	18.4 V	691	1997 CA ₂₅	1997 02 15.30939	09 09 09.27	+21 29 02.5	21.2 V	691
1997 CS ₂₄	1997 02 14.33889	08 24 36.81	+19 25 55.9	18.6 V	691	1997 CA ₂₅	1997 02 15.33882	09 09 07.26	+21 29 08.5	21.3 V	691
1997 CS ₂₄	1997 02 14.36146	08 24 35.69	+19 26 00.9	18.6 V	691	1997 CB ₂₅	* 1997 02 03.26623	09 23 12.81	+20 45 30.8	20.3 V	691
1997 CS ₂₄	1997 02 14.38803	08 24 34.42	+19 26 06.0	18.7 V	691	1997 CB ₂₅	1997 02 03.28750	09 23 11.39	+20 45 36.2	20.5 V	691
1997 CT ₂₄	* 1997 02 10.34636	08 29 30.54	+19 27 08.3	20.9 V	691	1997 CB ₂₅	1997 02 03.30860	09 23 09.90	+20 45 40.8	20.6 V	691
1997 CT ₂₄	1997 02 10.35213	08 29 30.30	+19 27 13.3	21.0 V	691	1997 CB ₂₅	1997 02 15.27933	09 09 37.24	+21 20 41.8	21.1 V	691
1997 CT ₂₄	1997 02 10.35784	08 29 29.97	+19 27 17.0	21.2 V	691	1997 CB ₂₅	1997 02 15.30969	09 09 35.16	+21 20 45.4	21.1 V	691
1997 CT ₂₄	1997 02 10.36431	08 29 29.65	+19 27 22.3	21.3 V	691	1997 CB ₂₅	1997 02 15.33912	09 09 33.13	+21 20 49.2	21.2 V	691
1997 CT ₂₄	1997 02 14.19624	08 26 35.44	+20 16 33.7	21.3 V	691	1997 CC ₂₅	* 1997 02 03.26645	09 23 31.42	+20 32 43.7	20.9 V	691
1997 CT ₂₄	1997 02 14.21876	08 26 34.41	+20 16 50.6	21.3 V	691	1997 CC ₂₅	1997 02 03.30882	09 23 28.65	+20 32 56.3	20.7 V	691
1997 CU ₂₄	* 1997 02 10.34657	08 29 48.35	+19 37 00.5	20.4 V	691	1997 CC ₂₅	1997 02 13.29392	09 12 59.54	+21 18 33.9	20.5 V	691
1997 CU ₂₄	1997 02 10.35234	08 29 48.09	+19 37 02.1	20.6 V	691	1997 CC ₂₅	1997 02 13.30347	09 12 58.91	+21 18 35.8	20.6 V	691
1997 CU ₂₄	1997 02 10.36451	08 29 47.50	+19 37 04.2	20.7 V	691	1997 CC ₂₅	1997 02 13.31358	09 12 58.28	+21 18 38.9	20.4 V	691
1997 CU ₂₄	1997 02 14.26493	08 26 52.38	+19 48 02.0	20.9 V	691	1997 CC ₂₅	1997 02 15.28025	09 10 56.83	+21 26 30.1	20.9 V	691
1997 CU ₂₄	1997 02 14.29173	08 26 51.21	+19 48 05.6	20.7 V	691	1997 CC ₂₅	1997 02 15.31061	09 10 54.91	+21 26 37.1	20.8 V	691
1997 CU ₂₄	1997 02 14.31564	08 26 50.11	+19 48 10.5	21.0 V	691	1997 CC ₂₅	1997 02 15.34004	09 10 53.06	+21 26 44.4	20.6 V	691
1997 CV ₂₄	* 1997 02 10.34830	08 32 18.75	+19 28 35.8	19.8 V	691	1997 CD ₂₅	* 1997 02 03.26826	09 26 08.60	+20 40 24.7	20.9 V	691
1997 CV ₂₄	1997 02 10.35407	08 32 18.43	+19 28 35.5	19.7 V	691	1997 CD ₂₅	1997 02 03.28953	09 26 07.48	+20 40 27.2	20.7 V	691
1997 CV ₂₄	1997 02 10.35978	08 32 18.10	+19 28 35.1	19.7 V	691	1997 CD ₂₅	1997 02 03.31064	09 26 06.33	+20 40 30.2	20.6 V	691
1997 CV ₂₄	1997 02 10.36625	08 32 17.74	+19 28 34.7	19.7 V	691	1997 CD ₂₅	1997 02 15.28353	09 15 40.85	+21 03 58.9	21.3 V	691
1997 CV ₂₄	1997 02 14.34182	08 28 50.23	+19 24 32.9	19.9 V	691	1997 CD ₂₅	1997 02 15.31389	09 15 39.29	+21 04 01.9	20.8 V	691
1997 CV ₂₄	1997 02 14.36438	08 28 49.05	+19 24 31.3	20.1 V	691	1997 CD ₂₅	1997 02 15.34333	09 15 37.75	+21 04 04.6	20.9 V	691
1997 CV ₂₄	1997 02 14.39096	08 28 47.69	+19 24 29.4	20.1 V	691	1997 CE ₂₅	* 1997 02 03.26977	09 28 19.23	+20 40 39.5	21.0 V	691
1997 CW ₂₄	* 1997 02 10.34842	08 32 28.84	+19 18 27.9	20.3 V	691	1997 CE ₂₅	1997 02 03.29104	09 28 18.02	+20 40 44.0	20.8 V	691
1997 CW ₂₄	1997 02 10.35419	08 32 28.55	+19 18 29.9	20.5 V	691	1997 CE ₂₅	1997 02 03.31214	09 28 16.81	+20 40 47.9	20.7 V	691
1997 CW ₂₄	1997 02 10.36637	08 32 27.94	+19 18 33.6	20.5 V	691	1997 CE ₂₅	1997 02 15.28444	09 16 59.17	+21 18 27.3	21.5 V	691
1997 CW ₂₄	1997 02 14.26668	08 29 24.27	+19 38 48.5	20.9 V	691	1997 CE ₂₅	1997 02 15.31480	09 16 57.45	+21 18 31.8	21.2 V	691
1997 CW ₂₄	1997 02 14.29348	08 29 23.06	+19 38 56.6	20.7 V	691	1997 CE ₂₅	1997 02 15.34423	09 16 55.77	+21 18 36.6	21.1 V	691
1997 CW ₂₄	1997 02 14.31739	08 29 21.86	+19 39 04.0	21.1 V	691	1997 CF ₂₅	* 1997 02 03.27070	09 29 39.76	+20 51 39.0	19.7 V	691
1997 CX ₂₄	* 1997 02 10.34852	08 32 37.76	+19 37 41.5	19.7 V	691	1997 CF ₂₅	1997 02 03.29196	09 29 38.23	+20 51 42.9	19.5 V	691
1997 CX ₂₄	1997 02 10.35429	08 32 37.44	+19 37 43.0	19.8 V	691	1997 CF ₂₅	1997 02 03.31307	09 29 36.74	+20 51 46.6	19.7 V	691
1997 CX ₂₄	1997 02 10.36647	08 32 36.78	+19 37 47.2	19.7 V	691	1997 CF ₂₅	1997 02 15.28371	09 15 56.15	+21 19 37.1	20.3 V	691

1997 CF ₂₅	1997 02 15.31406	09 15 54.08	+21 19 39.5	20.3 V	691	1997 CP ₂₅	1997 02 15.27888	09 08 57.96	+21 04 03.6	21.0 V	691
1997 CF ₂₅	1997 02 15.34350	09 15 52.04	+21 19 42.3	20.2 V	691	1997 CP ₂₅	1997 02 15.30924	09 08 56.01	+21 04 10.2	20.8 V	691
1997 CG ₂₅	* 1997 02 06.33466	10 32 15.47	+09 50 53.8	19.6 V	691	1997 CP ₂₅	1997 02 15.33867	09 08 54.11	+21 04 16.4	21.2 V	691
1997 CG ₂₅	1997 02 06.35606	10 32 14.45	+09 50 55.0	19.8 V	691	1997 CQ ₂₅	* 1997 02 13.29267	09 11 11.07	+20 56 41.1	19.4 V	691
1997 CG ₂₅	1997 02 06.37742	10 32 13.43	+09 50 56.6	19.9 V	691	1997 CQ ₂₅	1997 02 13.30222	09 11 10.47	+20 56 43.1	19.5 V	691
1997 CG ₂₅	1997 02 15.37318	10 24 56.10	+10 00 47.9	20.4 V	691	1997 CQ ₂₅	1997 02 13.31233	09 11 09.84	+20 56 44.6	19.5 V	691
1997 CG ₂₅	1997 02 15.41266	10 24 54.06	+10 00 50.4	20.3 V	691	1997 CQ ₂₅	1997 02 15.27905	09 09 12.73	+21 02 17.1	19.4 V	691
1997 CG ₂₅	1997 02 15.44871	10 24 52.16	+10 00 53.5	19.7 V	691	1997 CQ ₂₅	1997 02 15.30941	09 09 10.86	+21 02 22.0	19.2 V	691
1997 CH ₂₅	* 1997 02 11.29071	09 08 41.79	+12 39 02.2	19.4 V	691	1997 CQ ₂₅	1997 02 15.33884	09 09 09.03	+21 02 26.4	19.5 V	691
1997 CH ₂₅	1997 02 11.29868	09 08 41.27	+12 39 04.5	19.5 V	691	1997 CR ₂₅	* 1997 02 13.29289	09 11 29.76	+20 58 26.6	20.3 V	691
1997 CH ₂₅	1997 02 11.30608	09 08 40.78	+12 39 05.7	19.4 V	691	1997 CR ₂₅	1997 02 13.30244	09 11 29.27	+20 58 28.5	20.8 V	691
1997 CH ₂₅	1997 02 15.26942	09 04 32.02	+12 55 44.0	19.9 V	691	1997 CR ₂₅	1997 02 13.31255	09 11 28.75	+20 58 30.2	20.4 V	691
1997 CH ₂₅	1997 02 15.30070	09 04 30.01	+12 55 51.8	19.8 V	691	1997 CR ₂₅	1997 02 15.27951	09 09 52.26	+21 03 51.9	21.2 V	691
1997 CH ₂₅	1997 02 15.33039	09 04 28.11	+12 55 59.0	19.6 V	691	1997 CR ₂₅	1997 02 15.30987	09 09 50.67	+21 03 56.8	21.2 V	691
1997 CJ ₂₅	* 1997 02 11.29089	09 08 56.96	+12 52 06.2	20.6 V	691	1997 CR ₂₅	1997 02 15.33931	09 09 49.20	+21 04 00.4	20.5 V	691
1997 CJ ₂₅	1997 02 11.29886	09 08 56.50	+12 52 08.8	20.6 V	691	1997 CS ₂₅	* 1997 02 13.29300	09 11 39.73	+20 58 51.3	19.9 V	691
1997 CJ ₂₅	1997 02 11.30626	09 08 56.12	+12 52 10.7	20.7 V	691	1997 CS ₂₅	1997 02 13.30255	09 11 39.15	+20 58 55.6	20.0 V	691
1997 CJ ₂₅	1997 02 15.27012	09 05 32.55	+13 11 39.4	21.1 V	691	1997 CS ₂₅	1997 02 13.31266	09 11 38.57	+20 58 59.8	19.8 V	691
1997 CJ ₂₅	1997 02 15.30141	09 05 30.88	+13 11 48.5	21.1 V	691	1997 CS ₂₅	1997 02 15.27945	09 09 47.60	+21 12 41.6	20.2 V	691
1997 CJ ₂₅	1997 02 15.33110	09 05 29.32	+13 11 56.7	21.4 V	691	1997 CS ₂₅	1997 02 15.30981	09 09 45.84	+21 12 53.6	20.2 V	691
1997 CK ₂₅	* 1997 02 11.29097	09 09 04.03	+12 47 37.6	19.1 V	691	1997 CS ₂₅	1997 02 15.33925	09 09 44.13	+21 13 05.7	20.2 V	691
1997 CK ₂₅	1997 02 11.29894	09 09 03.56	+12 47 40.3	19.0 V	691	1997 CT ₂₅	* 1997 02 13.29330	09 12 05.62	+20 53 14.1	19.3 V	691
1997 CK ₂₅	1997 02 11.30634	09 09 03.10	+12 47 42.5	19.1 V	691	1997 CT ₂₅	1997 02 13.30285	09 12 05.02	+20 53 18.0	19.3 V	691
1997 CK ₂₅	1997 02 15.26997	09 05 19.14	+13 10 27.3	19.3 V	691	1997 CT ₂₅	1997 02 13.31296	09 12 04.40	+20 53 22.0	19.2 V	691
1997 CK ₂₅	1997 02 15.30125	09 05 17.35	+13 10 37.8	19.4 V	691	1997 CT ₂₅	1997 02 15.27966	09 10 05.05	+21 06 10.0	19.3 V	691
1997 CK ₂₅	1997 02 15.33094	09 05 15.63	+13 10 47.8	19.3 V	691	1997 CT ₂₅	1997 02 15.31001	09 10 03.16	+21 06 21.5	19.2 V	691
1997 CL ₂₅	* 1997 02 11.29111	09 09 16.59	+12 56 13.8	20.5 V	691	1997 CT ₂₅	1997 02 15.33945	09 10 01.34	+21 06 32.9	19.2 V	691
1997 CL ₂₅	1997 02 11.29908	09 09 16.16	+12 56 14.6	20.8 V	691	1997 CU ₂₅	* 1997 02 13.29457	09 13 55.84	+20 53 36.8	20.2 V	691
1997 CL ₂₅	1997 02 11.30648	09 09 15.74	+12 56 15.8	20.8 V	691	1997 CU ₂₅	1997 02 13.31423	09 13 54.74	+20 53 41.4	20.0 V	691
1997 CL ₂₅	1997 02 15.27027	09 05 45.48	+13 06 28.0	20.6 V	691	1997 CU ₂₅	1997 02 15.28110	09 12 10.41	+21 01 05.0	20.2 V	691
1997 CL ₂₅	1997 02 15.30156	09 05 43.79	+13 06 32.0	20.9 V	691	1997 CU ₂₅	1997 02 15.31146	09 12 08.77	+21 01 11.2	20.3 V	691
1997 CL ₂₅	1997 02 15.33124	09 05 42.19	+13 06 36.3	21.0 V	691	1997 CU ₂₅	1997 02 15.34090	09 12 07.12	+21 01 17.9	20.5 V	691
1997 CM ₂₅	* 1997 02 13.28979	09 07 01.47	+20 54 53.9	19.0 V	691	1997 CV ₂₅	* 1997 02 13.29511	09 14 42.77	+20 49 53.6	19.9 V	691
1997 CM ₂₅	1997 02 13.29934	09 07 01.02	+20 54 55.4	18.9 V	691	1997 CV ₂₅	1997 02 13.30466	09 14 42.16	+20 49 57.9	20.1 V	691
1997 CM ₂₅	1997 02 13.30945	09 07 00.46	+20 54 57.7	19.0 V	691	1997 CV ₂₅	1997 02 13.31477	09 14 41.47	+20 50 03.0	19.7 V	691
1997 CM ₂₅	1997 02 15.27638	09 05 21.34	+21 01 14.2	19.2 V	691	1997 CV ₂₅	1997 02 15.28151	09 12 45.59	+21 04 27.8	20.6 V	691
1997 CM ₂₅	1997 02 15.30674	09 05 19.76	+21 01 19.5	19.0 V	691	1997 CV ₂₅	1997 02 15.31187	09 12 43.74	+21 04 40.4	20.1 V	691
1997 CM ₂₅	1997 02 15.33618	09 05 18.26	+21 01 25.0	18.9 V	691	1997 CV ₂₅	1997 02 15.34130	09 12 41.90	+21 04 52.9	20.1 V	691
1997 CN ₂₅	* 1997 02 13.29163	09 09 41.14	+20 54 59.0	20.7 V	691	1997 CW ₂₅	* 1997 02 13.29524	09 14 53.50	+20 57 51.2	20.6 V	691
1997 CN ₂₅	1997 02 13.31129	09 09 40.10	+20 55 11.3	20.8 V	691	1997 CW ₂₅	1997 02 13.30479	09 14 52.91	+20 57 54.8	21.0 V	691
1997 CN ₂₅	1997 02 15.27825	09 08 03.32	+21 15 50.7	21.0 V	691	1997 CW ₂₅	1997 02 13.31490	09 14 52.29	+20 57 57.8	20.9 V	691
1997 CN ₂₅	1997 02 15.30861	09 08 01.77	+21 16 08.8	20.8 V	691	1997 CW ₂₅	1997 02 15.28163	09 12 55.85	+21 08 34.8	21.0 V	691
1997 CN ₂₅	1997 02 15.33805	09 08 00.27	+21 16 27.3	20.7 V	691	1997 CW ₂₅	1997 02 15.31198	09 12 54.00	+21 08 44.8	20.8 V	691
1997 CO ₂₅	* 1997 02 13.29232	09 10 40.29	+21 01 48.5	21.0 V	691	1997 CX ₂₅	* 1997 02 13.29549	09 15 14.92	+21 11 55.0	20.8 V	691
1997 CO ₂₅	1997 02 13.30187	09 10 39.78	+21 01 50.0	21.1 V	691	1997 CX ₂₅	1997 02 13.30504	09 15 14.37	+21 11 58.7	20.7 V	691
1997 CO ₂₅	1997 02 13.31198	09 10 39.25	+21 01 52.2	21.2 V	691	1997 CX ₂₅	1997 02 13.31515	09 15 13.75	+21 12 01.0	20.7 V	691
1997 CO ₂₅	1997 02 15.27889	09 08 58.87	+21 08 17.0	20.8 V	691	1997 CX ₂₅	1997 02 15.28198	09 13 26.78	+21 21 03.8	20.9 V	691
1997 CO ₂₅	1997 02 15.30925	09 08 57.24	+21 08 22.0	20.9 V	691	1997 CX ₂₅	1997 02 15.31234	09 13 25.04	+21 21 11.2	20.9 V	691
1997 CO ₂₅	1997 02 15.33869	09 08 55.66	+21 08 28.1	21.5 V	691	1997 CX ₂₅	1997 02 15.34178	09 13 23.38	+21 21 19.3	20.8 V	691
1997 CP ₂₅	* 1997 02 13.29258	09 11 03.52	+20 56 32.8	21.0 V	691	1997 CY ₂₅	* 1997 02 13.29588	09 15 49.42	+21 16 14.9	20.6 V	691
1997 CP ₂₅	1997 02 13.30213	09 11 02.91	+20 56 34.6	21.0 V	691	1997 CY ₂₅	1997 02 13.30543	09 15 48.84	+21 16 17.4	20.7 V	691
1997 CP ₂₅	1997 02 13.31224	09 11 02.23	+20 56 37.3	20.9 V	691	1997 CY ₂₅	1997 02 13.31555	09 15 48.30	+21 16 20.5	20.5 V	691

1997 CY ₂₅	1997 02 15.28240	09 14 02.38	+21 24 27.0	21.4 V	691	1997 CU ₂₆	1997 02 16.23910	08 30 20.87	+15 35 21.8	18.1 V	691
1997 CY ₂₅	1997 02 15.31275	09 14 00.71	+21 24 34.2	21.0 V	691	1997 CU ₂₆	1997 02 16.27837	08 30 20.33	+15 35 22.6	17.9 V	691
1997 CY ₂₅	1997 02 15.34219	09 13 59.09	+21 24 41.5	21.1 V	691	1997 CU ₂₆	1997 02 16.30823	08 30 19.95	+15 35 23.3	18.0 V	691
1997 CM ₂₆	* 1997 02 06.33055	10 26 18.65	+09 35 06.7	19.5 V	691	1997 CV ₂₆	* 1997 02 15.11899	08 30 40.70	+15 34 07.1	20.6 V	691
1997 CM ₂₆	1997 02 06.35194	10 26 17.73	+09 35 12.0	19.4 V	691	1997 CV ₂₆	1997 02 15.14117	08 30 39.61	+15 34 15.9	20.4 V	691
1997 CM ₂₆	1997 02 06.37330	10 26 16.82	+09 35 18.2	19.8 V	691	1997 CV ₂₆	1997 02 15.16744	08 30 38.33	+15 34 26.8	20.3 V	691
1997 CM ₂₆	1997 02 16.34888	10 18 56.83	+10 21 14.9	19.6 V	691	1997 CV ₂₆	1997 02 16.23873	08 29 48.05	+15 41 41.1	20.3 V	691
1997 CM ₂₆	1997 02 16.37004	10 18 55.80	+10 21 21.9	19.5 V	691	1997 CV ₂₆	1997 02 16.27797	08 29 46.16	+15 41 57.2	19.7 V	691
1997 CM ₂₆	1997 02 16.39455	10 18 54.65	+10 21 28.6	19.7 V	691	1997 CV ₂₆	1997 02 16.30783	08 29 44.69	+15 42 09.3	19.8 V	691
1997 CN ₂₆	* 1997 02 10.46293	10 24 34.97	+09 51 00.3	19.6 V	691	1997 CW ₂₆	* 1997 02 15.11964	08 31 36.68	+15 40 55.0	19.7 V	691
1997 CN ₂₆	1997 02 10.48455	10 24 33.88	+09 51 07.2	20.0 V	691	1997 CW ₂₆	1997 02 15.14181	08 31 35.57	+15 40 58.4	19.8 V	691
1997 CN ₂₆	1997 02 10.50702	10 24 32.68	+09 51 14.2	20.0 V	691	1997 CW ₂₆	1997 02 15.16808	08 31 34.26	+15 41 02.7	19.6 V	691
1997 CN ₂₆	1997 02 16.34919	10 19 23.37	+10 22 25.6	20.0 V	691	1997 CW ₂₆	1997 02 16.23935	08 30 42.50	+15 43 52.9	19.9 V	691
1997 CN ₂₆	1997 02 16.37035	10 19 22.14	+10 22 33.1	19.8 V	691	1997 CW ₂₆	1997 02 16.27860	08 30 40.56	+15 43 58.7	19.9 V	691
1997 CN ₂₆	1997 02 16.39485	10 19 20.78	+10 22 41.0	20.2 V	691	1997 CW ₂₆	1997 02 16.30846	08 30 39.15	+15 44 03.5	19.9 V	691
1997 CO ₂₆	* 1997 02 10.46298	10 24 39.25	+09 42 34.6	19.0 V	691	1997 CX ₂₆	* 1997 02 15.11974	08 31 45.29	+15 34 20.7	19.6 V	691
1997 CO ₂₆	1997 02 10.50707	10 24 36.72	+09 42 48.7	18.8 V	691	1997 CX ₂₆	1997 02 15.14191	08 31 44.06	+15 34 26.8	19.7 V	691
1997 CO ₂₆	1997 02 16.34886	10 18 54.60	+10 13 57.2	19.0 V	691	1997 CX ₂₆	1997 02 15.16818	08 31 42.57	+15 34 33.6	19.6 V	691
1997 CO ₂₆	1997 02 16.37001	10 18 53.26	+10 14 04.8	18.9 V	691	1997 CX ₂₆	1997 02 16.23938	08 30 44.70	+15 39 16.2	19.7 V	691
1997 CO ₂₆	1997 02 16.39452	10 18 51.70	+10 14 12.4	19.3 V	691	1997 CX ₂₆	1997 02 16.27862	08 30 42.50	+15 39 26.3	19.5 V	691
1997 CP ₂₆	* 1997 02 10.46299	10 24 40.05	+09 39 15.5	20.2 V	691	1997 CX ₂₆	1997 02 16.30848	08 30 40.85	+15 39 34.3	19.7 V	691
1997 CP ₂₆	1997 02 10.48461	10 24 39.09	+09 39 21.7	20.3 V	691	1997 CY ₂₆	* 1997 02 15.19791	08 29 57.34	+15 27 55.7	19.0 V	691
1997 CP ₂₆	1997 02 10.50708	10 24 38.13	+09 39 28.5	20.0 V	691	1997 CY ₂₆	1997 02 15.22844	08 29 55.77	+15 28 02.8	19.2 V	691
1997 CP ₂₆	1997 02 16.34984	10 20 19.18	+10 06 21.9	20.1 V	691	1997 CY ₂₆	1997 02 15.25028	08 29 54.63	+15 28 07.5	19.3 V	691
1997 CP ₂₆	1997 02 16.37100	10 20 18.19	+10 06 28.4	19.8 V	691	1997 CY ₂₆	1997 02 16.23825	08 29 06.96	+15 31 50.7	19.2 V	691
1997 CP ₂₆	1997 02 16.39550	10 20 17.07	+10 06 34.9	20.4 V	691	1997 CY ₂₆	1997 02 16.30735	08 29 03.52	+15 32 05.9	19.2 V	691
1997 CQ ₂₆	* 1997 02 10.46310	10 24 49.90	+09 38 58.4	19.1 V	691	1997 CZ ₂₆	* 1997 02 15.36891	10 18 46.69	+10 04 31.2	20.7 V	691
1997 CQ ₂₆	1997 02 10.48472	10 24 48.69	+09 39 04.1	19.3 V	691	1997 CZ ₂₆	1997 02 15.40840	10 18 44.91	+10 04 56.6	20.8 V	691
1997 CQ ₂₆	1997 02 10.50719	10 24 47.47	+09 39 10.9	19.1 V	691	1997 CZ ₂₆	1997 02 15.44445	10 18 43.28	+10 05 19.7	21.0 V	691
1997 CQ ₂₆	1997 02 16.34917	10 19 21.69	+10 06 54.4	19.5 V	691	1997 CZ ₂₆	1997 02 16.34828	10 18 04.07	+10 15 02.5	21.0 V	691
1997 CQ ₂₆	1997 02 16.37033	10 19 20.44	+10 07 01.2	19.3 V	691	1997 CZ ₂₆	1997 02 16.36944	10 18 03.11	+10 15 17.6	20.7 V	691
1997 CQ ₂₆	1997 02 16.39483	10 19 19.02	+10 07 08.0	19.8 V	691	1997 CZ ₂₆	1997 02 16.39394	10 18 01.96	+10 15 32.8	21.1 V	691
1997 CR ₂₆	* 1997 02 10.46464	10 27 03.49	+09 40 05.8	20.5 V	691	1997 CA ₂₇	* 1997 02 15.47790	13 35 30.10	-04 46 33.1	16.9 V	691
1997 CR ₂₆	1997 02 10.48627	10 27 02.28	+09 40 13.1	20.8 V	691	1997 CA ₂₇	1997 02 15.49593	13 35 30.45	-04 46 34.5	17.2 V	691
1997 CR ₂₆	1997 02 10.50873	10 27 01.06	+09 40 20.5	19.8 V	691	1997 CA ₂₇	1997 02 15.51280	13 35 30.78	-04 46 36.2	16.9 V	691
1997 CR ₂₆	1997 02 16.35070	10 21 34.26	+10 14 24.4	20.1 V	691	1997 CA ₂₇	1997 02 16.45179	13 35 50.70	-04 47 39.0	17.2 V	691
1997 CR ₂₆	1997 02 16.37186	10 21 32.99	+10 14 32.3	20.2 V	691	1997 CA ₂₇	1997 02 16.46939	13 35 51.01	-04 47 39.8	17.0 V	691
1997 CS ₂₆	* 1997 02 10.47124	10 36 34.90	+09 30 15.2	19.2 V	691	1997 CA ₂₇	1997 02 16.48754	13 35 51.34	-04 47 40.9	17.5 V	691
1997 CS ₂₆	1997 02 10.49287	10 36 33.94	+09 30 23.7	19.3 V	691	1997 CB ₂₇	* 1997 02 15.47827	13 36 02.29	-04 23 48.7	18.4 V	691
1997 CS ₂₆	1997 02 10.51534	10 36 32.95	+09 30 32.0	19.2 V	691	1997 CB ₂₇	1997 02 15.49630	13 36 02.73	-04 23 54.1	18.7 V	691
1997 CS ₂₆	1997 02 16.35801	10 32 07.22	+10 10 19.5	19.5 V	691	1997 CB ₂₇	1997 02 15.51318	13 36 03.20	-04 23 59.3	18.7 V	691
1997 CS ₂₆	1997 02 16.37917	10 32 06.19	+10 10 28.4	19.5 V	691	1997 CB ₂₇	1997 02 16.45222	13 36 28.43	-04 28 34.6	19.4 V	691
1997 CS ₂₆	1997 02 16.40367	10 32 05.01	+10 10 38.4	20.5 V	691	1997 CB ₂₇	1997 02 16.46982	13 36 28.83	-04 28 39.3	19.1 V	691
1997 CT ₂₆	* 1997 02 10.47306	10 39 12.28	+09 37 51.7	19.5 V	691	1997 CB ₂₇	1997 02 16.48798	13 36 29.26	-04 28 44.7	19.2 V	691
1997 CT ₂₆	1997 02 10.49468	10 39 11.17	+09 37 56.3	19.6 V	691	1997 CC ₂₇	* 1997 02 15.48826	13 54 14.45	+02 21 58.4	20.9 V	691
1997 CT ₂₆	1997 02 10.51715	10 39 09.99	+09 38 01.4	19.3 V	691	1997 CC ₂₇	1997 02 15.50575	13 54 14.66	+02 22 02.0	21.1 V	691
1997 CT ₂₆	1997 02 16.35931	10 33 59.55	+10 01 30.4	19.4 V	691	1997 CC ₂₇	1997 02 15.52497	13 54 14.79	+02 22 06.7	20.5 V	691
1997 CT ₂₆	1997 02 16.38046	10 33 58.35	+10 01 35.6	19.4 V	691	1997 CC ₂₇	1997 02 16.46281	13 54 24.69	+02 26 24.0	21.2 V	691
1997 CT ₂₆	1997 02 16.40497	10 33 56.97	+10 01 41.5	20.7 V	691	1997 CC ₂₇	1997 02 16.48030	13 54 24.80	+02 26 29.0	21.4 V	691
1997 CU ₂₆	* 1997 02 15.11893	08 30 35.54	+15 34 57.8	18.0 V	691	1997 CC ₂₇	1997 02 16.49853	13 54 24.96	+02 26 34.8	21.3 V	691
1997 CU ₂₆	1997 02 15.14112	08 30 35.25	+15 34 58.2	17.9 V	691	1997 CD ₂₇	* 1997 02 01.35983	09 09 49.55	+12 09 13.6	19.4 V	691
1997 CU ₂₆	1997 02 15.16740	08 30 34.91	+15 34 58.6	17.9 V	691	1997 CD ₂₇	1997 02 01.38781	09 09 47.79	+12 09 21.9	19.4 V	691

1997 CD ₂₇	1997 02 01.41520	09 09 46.02	+12 09 30.1	19.5 V	691	2256 T-2	1997 02 04.16820	08 23 34.58	+19 10 22.9	17.4 V	691
1997 CE ₂₇	* 1997 02 01.36108	09 11 38.49	+12 07 13.5	19.1 V	691	2256 T-2	1997 02 04.19082	08 23 33.44	+19 10 27.1	17.4 V	691
1997 CE ₂₇	1997 02 01.38907	09 11 36.64	+12 07 18.0	19.4 V	691	2256 T-2	1997 02 04.21313	08 23 32.31	+19 10 31.2	17.3 V	691
1997 CE ₂₇	1997 02 01.41645	09 11 34.83	+12 07 22.8	19.2 V	691	2256 T-2	1997 02 09.28406	08 19 34.66	+19 25 26.2	17.4 V	691
1997 CF ₂₇	* 1997 02 01.37508	09 31 51.11	+12 11 14.8	17.6 V	691	2256 T-2	1997 02 09.30638	08 19 33.63	+19 25 30.1	17.5 V	691
1997 CF ₂₇	1997 02 01.40307	09 31 49.37	+12 11 16.3	17.7 V	691	2256 T-2	1997 02 09.32885	08 19 32.58	+19 25 33.5	17.5 V	691
1997 CF ₂₇	1997 02 01.43045	09 31 47.67	+12 11 17.6	17.7 V	691	2256 T-2	1997 02 14.25746	08 16 05.42	+19 38 26.1	17.5 V	691
1997 CG ₂₇	1997 02 14.33187	08 14 29.07	+19 26 06.2	18.8 V	691	2256 T-2	1997 02 14.28426	08 16 04.31	+19 38 29.5	17.4 V	691
1997 CG ₂₇	1997 02 14.35444	08 14 28.10	+19 26 15.2	18.8 V	691	2256 T-2	1997 02 14.30818	08 16 03.33	+19 38 33.3	17.5 V	691
1997 CG ₂₇	1997 02 14.38102	08 14 26.93	+19 26 25.7	18.8 V	691	3357 T-2	1997 02 10.11879	03 38 40.49	+20 22 11.8	19.0 V	691
1997 CH ₂₇	1997 02 07.32578	09 17 43.09	+13 00 39.6	19.6 V	691	3357 T-2	1997 02 10.14151	03 38 42.35	+20 22 18.4	18.9 V	691
1997 CH ₂₇	1997 02 07.34753	09 17 41.73	+13 00 46.1	19.4 V	691	3357 T-2	1997 02 10.16387	03 38 44.17	+20 22 24.4	19.0 V	691
1997 CH ₂₇	1997 02 07.36915	09 17 40.37	+13 00 52.2	19.5 V	691	4240 T-2	1997 01 31.50835	12 02 09.07	+05 06 28.9	19.0 V	691
1997 CJ ₂₇	1997 02 14.19964	08 31 29.71	+20 32 28.3	18.1 V	691	4240 T-2	1997 01 31.52566	12 02 08.81	+05 06 32.6	19.1 V	691
1997 CJ ₂₇	1997 02 14.22215	08 31 28.66	+20 32 33.1	18.1 V	691	4240 T-2	1997 01 31.54299	12 02 08.51	+05 06 36.1	19.1 V	691
1997 CJ ₂₇	1997 02 14.24457	08 31 27.64	+20 32 37.4	18.1 V	691	4240 T-2	1997 02 06.48292	12 00 09.50	+05 31 16.4	19.0 V	691
1997 CK ₂₇	1997 02 15.28929	09 23 59.56	+21 14 42.0	18.0 V	691	4240 T-2	1997 02 06.50411	12 00 08.93	+05 31 22.0	19.0 V	691
1997 CK ₂₇	1997 02 15.31965	09 23 57.65	+21 14 54.3	18.1 V	691	4240 T-2	1997 02 06.52542	12 00 08.38	+05 31 27.8	18.9 V	691
1997 CK ₂₇	1997 02 15.34908	09 23 55.85	+21 15 06.2	18.0 V	691	5162 T-2	1997 02 06.23127	08 27 02.00	+21 03 52.9	18.0 V	691
1997 CL ₂₇	1997 02 15.28955	09 24 22.48	+21 01 09.5	18.8 V	691	5162 T-2	1997 02 06.25450	08 27 00.77	+21 03 53.6	18.0 V	691
1997 CL ₂₇	1997 02 15.31991	09 24 20.55	+21 01 17.2	19.5 V	691	5162 T-2	1997 02 06.27712	08 26 59.58	+21 03 54.7	18.0 V	691
1997 CL ₂₇	1997 02 15.34934	09 24 18.66	+21 01 24.9	19.5 V	691	2327 T-3	1997 02 06.13363	03 34 52.55	+19 13 24.0	19.2 V	691
2702 P-L	1997 02 01.14681	08 31 43.52	+20 38 26.0	17.9 V	691	2327 T-3	1997 02 06.17952	03 34 54.75	+19 13 29.0	19.4 V	691
2702 P-L	1997 02 01.16903	08 31 42.38	+20 38 29.4	17.8 V	691	(158)	1997 02 07.08640	03 20 07.05	+18 51 49.0	13.9 V	691
2702 P-L	1997 02 01.19120	08 31 41.20	+20 38 33.6	17.8 V	691	(222)	1997 02 07.09440	03 31 40.15	+18 41 15.6	15.8 V	691
2702 P-L	1997 02 06.23155	08 27 26.66	+20 52 52.8	18.2 V	691	(222)	1997 02 07.11772	03 31 40.69	+18 41 18.1	16.0 V	691
2702 P-L	1997 02 06.25479	08 27 25.48	+20 52 56.7	18.0 V	691	(222)	1997 02 07.14100	03 31 41.27	+18 41 21.2	15.9 V	691
2702 P-L	1997 02 06.27740	08 27 24.33	+20 53 00.0	18.1 V	691	(249)	1997 02 01.45580	10 37 04.07	+10 38 55.8	14.9 V	691
3045 P-L	1997 02 03.37982	10 33 08.05	+10 22 15.1	18.4 V	691	(249)	1997 02 01.47744	10 37 02.84	+10 38 58.6	14.9 V	691
3045 P-L	1997 02 03.40119	10 33 06.98	+10 22 16.9	18.2 V	691	(249)	1997 02 01.51562	10 37 00.72	+10 39 03.6	14.9 V	691
3045 P-L	1997 02 03.42238	10 33 05.88	+10 22 18.9	18.0 V	691	(249)	1997 02 07.41842	10 31 19.89	+10 53 11.7	14.8 V	691
3045 P-L	1997 02 13.32537	10 24 10.32	+10 39 58.0	17.9 V	691	(249)	1997 02 07.43984	10 31 18.55	+10 53 15.2	14.8 V	691
3045 P-L	1997 02 13.35622	10 24 08.56	+10 40 02.9	18.3 V	691	(249)	1997 02 07.46115	10 31 17.22	+10 53 18.2	14.8 V	691
3045 P-L	1997 02 13.37768	10 24 07.31	+10 40 05.3	18.2 V	691	(249)	1997 02 11.41133	10 27 11.58	+11 03 41.0	14.8 V	691
6588 P-L	1997 02 14.26304	08 24 08.85	+19 58 04.8	18.4 V	691	(249)	1997 02 11.43294	10 27 10.16	+11 03 44.6	14.8 V	691
6588 P-L	1997 02 14.28984	08 24 07.74	+19 58 08.8	18.4 V	691	(249)	1997 02 11.45863	10 27 08.50	+11 03 48.5	14.8 V	691
6588 P-L	1997 02 14.31376	08 24 06.68	+19 58 12.1	18.4 V	691	(406)	1997 02 09.29299	08 32 28.48	+19 28 08.7	15.0 V	691
9565 P-L	1997 01 31.42952	10 17 39.44	+11 19 30.2	18.6 V	691	(406)	1997 02 09.31532	08 32 27.33	+19 28 11.4	15.0 V	691
9565 P-L	1997 01 31.45078	10 17 38.33	+11 19 38.7	18.4 V	691	(406)	1997 02 09.33778	08 32 26.17	+19 28 13.7	15.0 V	691
9565 P-L	1997 01 31.47206	10 17 37.27	+11 19 46.6	18.4 V	691	(479)	1997 01 31.44733	10 43 34.96	+11 09 05.5	13.4 V	691
2120 T-1	1997 02 14.33951	08 25 30.11	+18 58 44.0	18.8 V	691	(479)	1997 01 31.46859	10 43 34.01	+11 09 13.3	13.6 V	691
2120 T-1	1997 02 14.36207	08 25 28.88	+18 58 50.3	18.8 V	691	(479)	1997 01 31.48987	10 43 33.22	+11 09 22.8	13.6 V	691
2120 T-1	1997 02 14.38865	08 25 27.43	+18 58 56.6	18.8 V	691	(495)	1997 02 01.09179	01 52 03.62	+09 40 23.9	15.2 V	691
1003 T-2	1997 02 14.32758	08 08 16.91	+19 02 41.5	18.0 V	691	(495)	1997 02 01.10363	01 52 04.67	+09 40 30.0	15.2 V	691
1003 T-2	1997 02 14.35015	08 08 16.15	+19 02 44.7	17.5 V	691	(495)	1997 02 01.11384	01 52 05.58	+09 40 35.1	15.2 V	691
1003 T-2	1997 02 14.37673	08 08 15.00	+19 02 47.4	18.0 V	691	(625)	1997 02 04.15895	08 10 13.62	+19 14 10.5	14.5 V	691
1274 T-2	1997 02 03.08787	03 18 39.54	+20 18 28.3	19.3 V	691	(625)	1997 02 04.18158	08 10 12.42	+19 14 18.5	14.5 V	691
1274 T-2	1997 02 03.11045	03 18 40.59	+20 18 32.4	19.3 V	691	(625)	1997 02 04.20388	08 10 11.24	+19 14 26.1	14.3 V	691
1274 T-2	1997 02 03.13279	03 18 41.57	+20 18 35.9	19.5 V	691	(625)	1997 02 07.25224	08 07 36.57	+19 31 18.9	14.4 V	691
1324 T-2	1997 02 01.21337	09 28 40.29	+22 29 57.6	17.2 V	691	(625)	1997 02 07.27502	08 07 35.42	+19 31 26.4	14.4 V	691
1324 T-2	1997 02 01.23624	09 28 38.80	+22 30 04.1	17.3 V	691	(625)	1997 02 07.29739	08 07 34.26	+19 31 33.6	14.4 V	691
1324 T-2	1997 02 01.25879	09 28 37.30	+22 30 10.3	17.3 V	691	(1117)	1997 01 31.23652	09 24 33.88	+13 50 04.0	15.1 V	691

(1117)	1997 01 31.25812	09 24 32.53	+13 50 11.9	15.3 V	691	(3034)	1997 02 01.25388	09 21 31.97	+22 04 22.4	16.6 V	691
(1117)	1997 01 31.27952	09 24 31.19	+13 50 19.7	15.2 V	691	(3114)	1997 02 01.09066	01 50 25.50	+09 28 40.2	18.8 V	691
(1273)	1997 01 31.22515	09 07 32.89	+13 54 49.5	16.5 V	691	(3114)	1997 02 01.10250	01 50 26.29	+09 28 44.9	18.8 V	691
(1273)	1997 01 31.24674	09 07 31.48	+13 54 53.5	16.4 V	691	(3114)	1997 02 01.11270	01 50 26.98	+09 28 48.8	18.7 V	691
(1273)	1997 01 31.26817	09 07 30.04	+13 54 58.0	16.3 V	691	(3217)	1997 01 31.44232	10 36 20.84	+11 18 34.5	19.0 V	691
(1627)	1997 02 14.33113	08 13 24.83	+19 13 21.2	16.3 V	691	(3217)	1997 01 31.46358	10 36 19.85	+11 18 39.7	19.0 V	691
(1627)	1997 02 14.35369	08 13 23.30	+19 13 29.4	16.2 V	691	(3217)	1997 01 31.48485	10 36 18.75	+11 18 44.2	19.0 V	691
(1627)	1997 02 14.38026	08 13 21.52	+19 13 39.2	16.2 V	691	(3323)	1997 02 02.16706	08 31 59.22	+20 03 14.4	16.6 V	691
(1938)	1997 02 15.20086	08 34 13.16	+15 10 49.2	15.1 V	691	(3323)	1997 02 02.18975	08 31 57.78	+20 03 19.7	16.2 V	691
(1938)	1997 02 15.23139	08 34 11.33	+15 10 59.5	15.1 V	691	(3323)	1997 02 02.21222	08 31 56.42	+20 03 23.2	16.6 V	691
(1938)	1997 02 15.25322	08 34 10.02	+15 11 06.5	15.1 V	691	(3323)	1997 02 04.22781	08 29 57.60	+20 09 55.2	16.6 V	691
(2013)	1997 02 01.21571	09 32 03.34	+22 25 13.4	15.4 V	691	(3323)	1997 02 04.23547	08 29 57.14	+20 09 56.4	16.6 V	691
(2013)	1997 02 01.23858	09 32 01.87	+22 25 23.6	15.5 V	691	(3323)	1997 02 04.24534	08 29 56.55	+20 09 58.3	16.6 V	691
(2013)	1997 02 01.26113	09 32 00.43	+22 25 33.1	15.7 V	691	(3323)	1997 02 07.19795	08 27 08.70	+20 18 56.0	16.6 V	691
(2098)	1997 02 06.40606	10 28 35.07	+11 18 22.8	16.5 V	691	(3323)	1997 02 07.22017	08 27 07.41	+20 19 00.0	16.7 V	691
(2098)	1997 02 06.42784	10 28 33.84	+11 18 26.9	16.4 V	691	(3323)	1997 02 07.24238	08 27 06.14	+20 19 03.7	16.8 V	691
(2098)	1997 02 06.44924	10 28 32.64	+11 18 31.3	16.3 V	691	(3323)	1997 02 14.12341	08 21 12.70	+20 36 46.3	16.7 V	691
(2231)	1997 02 02.31716	09 23 50.99	+21 06 25.1	16.6 V	691	(3323)	1997 02 14.14624	08 21 11.48	+20 36 48.7	16.9 V	691
(2231)	1997 02 02.34971	09 23 48.97	+21 06 30.2	16.6 V	691	(3323)	1997 02 14.16901	08 21 10.38	+20 36 52.1	16.8 V	691
(2231)	1997 02 02.38394	09 23 46.84	+21 06 35.6	16.6 V	691	(3338)	1997 02 01.44533	10 21 56.40	+10 37 01.3	17.9 V	691
(2411)	1997 02 04.16940	08 25 18.75	+19 08 27.3	15.8 V	691	(3338)	1997 02 01.46697	10 21 55.25	+10 37 08.1	18.0 V	691
(2411)	1997 02 04.19202	08 25 17.25	+19 08 33.2	15.9 V	691	(3338)	1997 02 01.50515	10 21 53.17	+10 37 20.4	17.9 V	691
(2411)	1997 02 04.21432	08 25 15.75	+19 08 39.3	15.4 V	691	(3338)	1997 02 06.39854	10 17 20.90	+11 04 59.9	17.8 V	691
(2411)	1997 02 14.25687	08 15 14.89	+19 49 49.9	15.6 V	691	(3338)	1997 02 06.42032	10 17 19.58	+11 05 07.7	17.8 V	691
(2411)	1997 02 14.28367	08 15 13.41	+19 49 55.6	15.9 V	691	(3338)	1997 02 06.44173	10 17 18.26	+11 05 14.8	18.1 V	691
(2411)	1997 02 14.30758	08 15 12.05	+19 50 00.8	15.8 V	691	(3373)	1997 02 02.52168	13 52 32.69	-10 56 01.8	18.0 V	691
(2555)	1997 02 04.16030	08 12 10.20	+19 27 44.4	16.5 V	691	(3373)	1997 02 02.53318	13 52 33.12	-10 56 03.3	18.0 V	691
(2555)	1997 02 04.18292	08 12 09.02	+19 27 48.0	16.3 V	691	(3373)	1997 02 02.54647	13 52 33.67	-10 56 05.0	18.0 V	691
(2555)	1997 02 04.20523	08 12 07.84	+19 27 51.8	16.3 V	691	(3514)	1997 02 06.29895	09 11 58.37	+20 40 00.4	17.8 V	691
(2555)	1997 02 07.25363	08 09 36.39	+19 35 07.4	16.3 V	691	(3514)	1997 02 06.30663	09 11 58.05	+20 40 01.6	17.8 V	691
(2555)	1997 02 07.27640	08 09 35.25	+19 35 10.5	16.2 V	691	(3514)	1997 02 06.31470	09 11 57.69	+20 40 03.1	17.9 V	691
(2555)	1997 02 07.29877	08 09 34.14	+19 35 13.6	16.5 V	691	(3539)	1997 01 31.44379	10 38 28.10	+11 10 53.6	16.6 V	691
(2555)	1997 02 14.24969	08 04 22.50	+19 49 47.5	16.4 V	691	(3539)	1997 01 31.46505	10 38 27.35	+11 11 04.0	16.8 V	691
(2555)	1997 02 14.27653	08 04 21.37	+19 49 50.3	16.5 V	691	(3539)	1997 01 31.48633	10 38 26.59	+11 11 14.8	16.9 V	691
(2555)	1997 02 14.30045	08 04 20.32	+19 49 53.5	16.3 V	691	(3545)	1997 02 06.12464	03 21 54.44	+19 08 22.1	17.4 V	691
(2556)	1997 02 06.40788	10 31 12.98	+11 14 41.1	15.9 V	691	(3545)	1997 02 06.14757	03 21 55.35	+19 08 26.4	17.5 V	691
(2556)	1997 02 06.42966	10 31 11.81	+11 14 50.4	15.8 V	691	(3545)	1997 02 06.17054	03 21 56.26	+19 08 30.4	17.4 V	691
(2556)	1997 02 06.45106	10 31 10.67	+11 14 59.3	15.5 V	691	(3699)	1997 02 02.31453	09 20 03.08	+21 27 15.6	17.0 V	691
(2604)	1997 01 31.16545	08 09 34.61	+20 32 14.9	16.9 V	691	(3699)	1997 02 02.34708	09 20 01.04	+21 27 27.4	17.0 V	691
(2604)	1997 01 31.18917	08 09 33.08	+20 32 26.9	17.0 V	691	(3699)	1997 02 02.38131	09 19 58.90	+21 27 39.8	17.0 V	691
(2604)	1997 01 31.21147	08 09 31.65	+20 32 38.0	17.0 V	691	(3814)	1997 02 06.33295	10 29 47.13	+09 45 31.4	16.7 V	691
(2604)	1997 02 01.13078	08 08 34.50	+20 40 07.9	17.2 V	691	(3814)	1997 02 06.35435	10 29 46.24	+09 45 36.8	16.7 V	691
(2604)	1997 02 01.15300	08 08 33.08	+20 40 19.5	17.1 V	691	(3814)	1997 02 06.37571	10 29 45.36	+09 45 42.9	16.7 V	691
(2604)	1997 02 01.17516	08 08 31.68	+20 40 30.6	17.1 V	691	(3814)	1997 02 10.39782	10 26 58.99	+10 04 03.4	16.7 V	691
(2718)	1997 02 10.12055	03 41 12.83	+20 26 15.4	18.0 V	691	(3814)	1997 02 10.42002	10 26 58.00	+10 04 09.5	16.6 V	691
(2718)	1997 02 10.14325	03 41 13.51	+20 26 17.8	17.7 V	691	(3814)	1997 02 10.44181	10 26 57.06	+10 04 15.7	16.6 V	691
(2718)	1997 02 10.16560	03 41 14.17	+20 26 20.2	17.6 V	691	(3875)	1997 02 14.25176	08 07 52.14	+19 44 21.6	17.3 V	691
(2841)	1997 02 02.22985	09 23 38.45	+21 55 54.2	15.1 V	691	(3875)	1997 02 14.27856	08 07 50.73	+19 44 29.0	17.4 V	691
(2841)	1997 02 02.25218	09 23 37.01	+21 56 04.4	15.1 V	691	(3875)	1997 02 14.30247	08 07 49.45	+19 44 36.0	17.5 V	691
(2841)	1997 02 02.27457	09 23 35.53	+21 56 14.6	15.1 V	691	(4269)	1997 02 06.40249	10 23 26.02	+11 08 13.6	17.1 V	691
(3034)	1997 02 01.20846	09 21 34.98	+22 04 10.6	16.7 V	691	(4269)	1997 02 06.42427	10 23 24.73	+11 08 19.0	17.1 V	691
(3034)	1997 02 01.23133	09 21 33.47	+22 04 16.7	16.6 V	691	(4269)	1997 02 06.44567	10 23 23.46	+11 08 24.5	17.1 V	691

(4269)	1997 02 11.40527	10 18 26.89	+11 30 22.4	17.0 V	691	(5503)	1997 02 16.33835	08 36 39.04	+14 33 56.7	16.4 V	691
(4269)	1997 02 11.42688	10 18 25.52	+11 30 28.3	17.0 V	691	(5533)	1997 02 01.26916	09 08 28.78	+21 45 50.2	17.5 V	691
(4269)	1997 02 11.45258	10 18 23.88	+11 30 35.0	17.1 V	691	(5533)	1997 02 01.29903	09 08 26.56	+21 45 56.0	17.5 V	691
(4347)	1997 02 02.52261	13 53 53.19	-11 00 13.1	17.7 V	691	(5533)	1997 02 01.33885	09 08 23.61	+21 46 03.3	17.6 V	691
(4347)	1997 02 02.53411	13 53 53.54	-11 00 14.9	17.6 V	691	(5533)	1997 02 02.21856	09 07 20.82	+21 48 45.9	17.6 V	691
(4347)	1997 02 02.54740	13 53 54.03	-11 00 16.9	17.5 V	691	(5533)	1997 02 02.24090	09 07 19.18	+21 48 50.3	17.6 V	691
(4393)	1997 02 10.34837	08 32 24.48	+19 08 15.7	17.1 V	691	(5533)	1997 02 02.26328	09 07 17.53	+21 48 54.4	17.6 V	691
(4393)	1997 02 10.35414	08 32 24.20	+19 08 16.9	17.1 V	691	(5539)	1997 02 14.33167	08 14 11.39	+19 00 50.9	17.1 V	691
(4393)	1997 02 10.36632	08 32 23.62	+19 08 19.4	17.1 V	691	(5539)	1997 02 14.35424	08 14 10.32	+19 00 53.0	17.0 V	691
(4393)	1997 02 14.34221	08 29 24.66	+19 21 18.8	17.6 V	691	(5539)	1997 02 14.38081	08 14 09.08	+19 00 55.6	16.9 V	691
(4393)	1997 02 14.36478	08 29 23.64	+19 21 23.1	17.6 V	691	(5589)	1997 02 15.12144	08 34 13.12	+15 35 47.2	17.6 V	691
(4393)	1997 02 14.39136	08 29 22.46	+19 21 27.9	17.7 V	691	(5589)	1997 02 15.14362	08 34 12.05	+15 35 51.7	17.5 V	691
(4478)	1997 02 16.26172	08 32 41.53	+14 43 38.1	17.4 V	691	(5589)	1997 02 15.16989	08 34 10.76	+15 35 57.0	17.6 V	691
(4478)	1997 02 16.29579	08 32 39.53	+14 43 44.7	17.5 V	691	(5894)	1997 01 31.24311	09 34 04.13	+13 54 51.5	16.0 V	691
(4568)	1997 02 06.48621	12 04 54.54	+05 21 41.3	16.9 V	691	(5894)	1997 01 31.26470	09 34 02.64	+13 54 54.1	16.0 V	691
(4568)	1997 02 06.50740	12 04 54.06	+05 21 42.6	16.5 V	691	(5894)	1997 01 31.28610	09 34 01.17	+13 54 56.8	16.0 V	691
(4568)	1997 02 06.52871	12 04 53.57	+05 21 43.3	16.4 V	691	(5932)	1997 01 31.44042	10 33 36.37	+11 07 57.8	17.4 V	691
(4696)	1997 01 31.30060	09 22 39.05	+13 22 45.1	16.5 V	691	(5932)	1997 01 31.46169	10 33 35.59	+11 08 03.9	17.2 V	691
(4696)	1997 01 31.32246	09 22 37.90	+13 22 50.7	16.5 V	691	(5932)	1997 01 31.48296	10 33 34.72	+11 08 10.1	17.3 V	691
(4696)	1997 01 31.34378	09 22 36.79	+13 22 55.9	16.5 V	691	(5933)	1997 02 02.15270	08 11 15.39	+20 15 23.1	17.8 V	691
(4751)	1997 02 10.39911	10 28 50.22	+10 23 10.6	16.8 V	691	(5933)	1997 02 02.17538	08 11 13.83	+20 15 27.9	18.2 V	691
(4751)	1997 02 10.42130	10 28 49.25	+10 23 17.1	16.8 V	691	(5933)	1997 02 02.19786	08 11 12.26	+20 15 32.7	17.5 V	691
(4751)	1997 02 10.44309	10 28 48.33	+10 23 23.4	16.9 V	691	(6006)	1997 02 04.08702	03 19 40.19	+19 59 51.8	18.1 V	691
(4751)	1997 02 13.32715	10 26 45.17	+10 37 26.7	17.6 V	691	(6006)	1997 02 04.10949	03 19 41.13	+19 59 54.6	18.3 V	691
(4751)	1997 02 13.35801	10 26 43.76	+10 37 36.2	17.0 V	691	(6006)	1997 02 04.13181	03 19 42.08	+19 59 57.3	18.1 V	691
(4751)	1997 02 13.37947	10 26 42.80	+10 37 42.4	16.9 V	691	(6006)	1997 02 10.10887	03 24 21.39	+20 13 49.0	18.5 V	691
(4847)	1997 02 03.16794	08 21 54.14	+19 31 31.8	17.4 V	691	(6006)	1997 02 10.13158	03 24 22.50	+20 13 52.2	18.1 V	691
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(4847)	1997 02 03.21203	08 21 51.08	+19 31 43.1	17.5 V	691	(6020)	1997 02 02.52673	13 59 49.92	-10 56 52.2	18.5 V	691
(4847)	1997 02 07.25906	08 17 27.30	+19 48 13.5	17.6 V	691	(6020)	1997 02 02.53823	13 59 50.41	-10 56 56.0	18.4 V	691
(4847)	1997 02 07.28183	08 17 25.79	+19 48 18.7	17.6 V	691	(6020)	1997 02 02.55152	13 59 50.95	-10 57 00.1	18.5 V	691
(4847)	1997 02 07.30420	08 17 24.31	+19 48 23.9	17.6 V	691	(6537)	1997 02 03.17400	08 30 39.30	+19 54 50.0	17.5 V	691
(4847)	1997 02 14.18522	08 10 41.32	+20 12 56.9	17.4 V	691	(6537)	1997 02 03.19604	08 30 37.80	+19 54 57.2	17.6 V	691
(4847)	1997 02 14.20774	08 10 40.06	+20 13 01.4	17.5 V	691	(6537)	1997 02 03.21810	08 30 36.32	+19 55 04.4	17.6 V	691
(4847)	1997 02 14.23016	08 10 38.79	+20 13 05.7	17.4 V	691	(6537)	1997 02 14.12219	08 19 26.66	+20 47 01.7	17.8 V	691
(4989)	1997 02 11.32634	09 25 40.89	+13 48 39.7	17.5 V	691	(6537)	1997 02 14.14501	08 19 25.37	+20 47 07.4	17.8 V	691
(4989)	1997 02 11.34838	09 25 39.34	+13 48 39.9	17.5 V	691	(6537)	1997 02 14.16778	08 19 24.07	+20 47 13.2	17.8 V	691
(4989)	1997 02 11.39306	09 25 36.35	+13 48 40.7	17.5 V	691	(6589)	1997 02 02.15577	08 15 41.64	+20 13 21.1	18.4 V	691
(5138)	1997 02 04.15578	08 05 39.34	+19 06 20.2	16.2 V	691	(6589)	1997 02 02.17846	08 15 40.11	+20 13 23.9	18.5 V	691
(5138)	1997 02 04.17841	08 05 38.24	+19 06 24.4	16.6 V	691	(6589)	1997 02 02.20094	08 15 38.61	+20 13 26.2	18.7 V	691
(5138)	1997 02 04.20072	08 05 37.17	+19 06 28.1	16.5 V	691	(6592)	1997 01 31.42949	10 17 35.51	+11 14 31.5	17.0 V	691
(5198)	1997 02 03.37041	10 19 32.89	+10 09 04.5	16.3 V	691	(6592)	1997 01 31.45076	10 17 34.41	+11 14 35.6	17.2 V	691
(5198)	1997 02 03.39178	10 19 31.95	+10 09 10.6	16.3 V	691	(6592)	1997 01 31.47204	10 17 33.37	+11 14 38.9	17.3 V	691
(5198)	1997 02 03.41297	10 19 31.04	+10 09 16.3	16.3 V	691	(6609)	1997 02 01.14697	08 31 57.61	+20 35 45.4	16.3 V	691
(5362)	1997 02 01.45551	10 36 38.94	+10 54 17.3	16.8 V	691	(6609)	1997 02 01.16920	08 31 56.49	+20 35 52.6	16.2 V	691
(5362)	1997 02 01.47716	10 36 38.20	+10 54 23.7	17.0 V	691	(6609)	1997 02 01.19136	08 31 55.34	+20 36 00.6	16.3 V	691
(5362)	1997 02 01.51535	10 36 36.92	+10 54 34.9	16.9 V	691	(6670)	1997 02 06.21748	08 07 07.94	+21 02 23.2	17.6 V	691
(5362)	1997 02 06.40966	10 33 47.47	+11 19 45.0	16.8 V	691	(6670)	1997 02 06.24072	08 07 06.66	+21 02 30.1	17.0 V	691
(5362)	1997 02 06.43145	10 33 46.65	+11 19 52.0	16.8 V	691	(6670)	1997 02 06.26333	08 07 05.58	+21 02 40.4	18.1 V	691
(5362)	1997 02 06.45285	10 33 45.85	+11 19 58.8	16.9 V	691	(6816)	1997 02 07.15539	02 04 47.71	+10 30 33.7	20.5 V	691
(5503)	1997 02 16.26451	08 36 42.49	+14 33 29.3	16.2 V	691	(6816)	1997 02 07.16094	02 04 48.12	+10 30 37.1	20.4 V	691
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(6866)	1997 02 01.20049	09 10 04.53	+22 27 58.8	16.2 V	691
(6866)	1997 02 01.22336	09 10 03.36	+22 28 07.4	16.2 V	691
(6866)	1997 02 01.24591	09 10 02.21	+22 28 16.4	16.2 V	691
(7340)	1997 02 04.09555	03 31 58.93	+20 02 59.7	18.9 V	691
(7340)	1997 02 04.11801	03 31 59.73	+20 03 01.9	18.9 V	691
(7340)	1997 02 04.14033	03 32 00.52	+20 03 04.1	19.0 V	691
(7379)	1997 02 03.09590	03 30 14.89	+20 15 58.0	19.8 V	691
(7379)	1997 02 03.11847	03 30 15.71	+20 15 59.7	20.1 V	691
(7379)	1997 02 03.14081	03 30 16.56	+20 16 01.2	19.9 V	691
(7379)	1997 02 10.11640	03 35 13.38	+20 25 51.4	20.2 V	691
(7379)	1997 02 10.13911	03 35 14.40	+20 25 53.5	20.2 V	691
(7379)	1997 02 10.16146	03 35 15.44	+20 25 55.9	20.2 V	691
(7438)	1997 02 03.09209	03 24 44.96	+20 33 59.2	18.4 V	691
(7438)	1997 02 03.11467	03 24 46.22	+20 34 06.2	18.3 V	691
(7438)	1997 02 03.13701	03 24 47.47	+20 34 13.1	18.5 V	691

696 F. L. Whipple Observatory, Mount Hopkins

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

Observer C. W. Hergenrother

Measurer C. W. Hergenrother

1.2-m $f/8$ reflector + CCD

GSC

1968 OZ	1996 12 16.49020	10 13 16.34	+44 08 19.0	696
1968 OZ	1996 12 16.49102	10 13 16.39	+44 08 19.7	696
1968 OZ	1996 12 16.49215	10 13 16.45	+44 08 20.8	696
1968 OZ	1997 02 01.40307	10 11 49.89	+57 01 58.2	696
1968 OZ	1997 02 01.40360	10 11 49.87	+57 01 58.6	696
1968 OZ	1997 02 01.40413	10 11 49.85	+57 01 58.9	696
1989 QV	1996 12 16.15590	04 58 17.86	+53 10 24.7	696
1989 QV	1996 12 16.15818	04 58 17.70	+53 10 24.9	696
1989 QV	1996 12 16.15898	04 58 17.63	+53 10 25.0	696
1991 WA	1997 02 01.51458	13 49 51.39	+55 18 20.7	F 696
1991 WA	1997 02 01.51819	13 49 51.71	+55 18 25.6	F 696
1991 WA	1997 02 01.52179	13 49 51.62	+55 18 29.3	F 696
1993 EL	1997 02 01.30084	05 17 41.28	+20 57 08.3	696
1993 EL	1997 02 01.30200	05 17 41.26	+20 57 08.9	696
1993 EL	1997 02 01.30315	05 17 41.24	+20 57 09.4	696
1993 GE	1996 12 16.12817	02 43 48.42	+12 35 11.6	696
1993 GE	1996 12 16.13216	02 43 48.28	+12 35 12.0	696
1993 GE	1996 12 16.13610	02 43 48.14	+12 35 12.7	696
1993 GE	1996 12 17.28459	02 43 10.57	+12 37 54.7	696
1993 GE	1996 12 17.28669	02 43 10.50	+12 37 54.7	696
1993 GE	1996 12 17.28765	02 43 10.47	+12 37 55.2	696
1994 LL	1996 12 16.26088	06 11 16.50	-12 54 15.3	696
1994 LL	1996 12 16.26243	06 11 16.40	-12 54 14.9	696
1994 LL	1996 12 16.26348	06 11 16.34	-12 54 15.0	696
1995 KZ	1996 12 16.27479	04 31 55.11	-12 49 00.4	696
1995 KZ	1996 12 16.27611	04 31 55.02	-12 48 59.7	696
1995 KZ	1996 12 16.27796	04 31 54.93	-12 48 59.2	696
1995 KZ	1997 02 01.28005	04 14 03.73	-04 17 13.3	696
1995 KZ	1997 02 01.28190	04 14 03.74	-04 17 11.8	696
1995 KZ	1997 02 01.28373	04 14 03.79	-04 17 10.2	696

1995 KA ₁	1996 12 16.28493	04 54 47.16	-06 09 27.1	696
1995 KA ₁	1996 12 16.28632	04 54 47.05	-06 09 27.3	696
1995 KA ₁	1996 12 16.28748	04 54 47.01	-06 09 27.4	696
1995 KA ₁	1997 02 01.28561	04 32 50.77	-02 34 11.6	696
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1995 KA ₁	1997 02 01.28933	04 32 50.79	-02 34 10.3	696
1995 KB ₁	1996 12 16.27176	05 55 15.05	-13 16 23.5	696
1995 KB ₁	1996 12 16.27264	05 55 15.00	-13 16 23.2	696
1995 KB ₁	1996 12 16.27372	05 55 14.90	-13 16 22.7	696
1995 KB ₁	1997 02 01.29681	05 16 38.16	-00 21 57.9	696
1995 KB ₁	1997 02 01.29852	05 16 38.16	-00 21 55.7	696
1995 KB ₁	1997 02 01.29965	05 16 38.15	-00 21 54.3	696
1995 MX	1996 12 16.26825	05 11 43.52	-01 12 10.9	696
1995 MX	1996 12 16.26950	05 11 43.44	-01 12 10.6	696
1995 MX	1996 12 16.27084	05 11 43.36	-01 12 10.7	696
1995 MX	1996 12 17.28956	05 10 48.89	-01 12 53.8	696
1995 MX	1996 12 17.29138	05 10 48.79	-01 12 54.0	696
1995 MX	1996 12 17.29326	05 10 48.68	-01 12 53.9	696
1995 MX	1997 02 01.29159	04 49 27.47	+01 24 24.5	696
1995 MX	1997 02 01.29346	04 49 27.47	+01 24 24.9	696
1995 MX	1997 02 01.29530	04 49 27.45	+01 24 26.0	w 696
1995 QE ₂	1996 12 16.28870	07 18 12.22	-05 39 17.2	696
1995 QE ₂	1996 12 16.29007	07 18 12.14	-05 39 18.2	696
1995 QE ₂	1996 12 16.29124	07 18 12.09	-05 39 18.5	696
1995 QE ₂	1997 02 01.30711	06 40 45.82	-06 09 49.6	696
1995 QE ₂	1997 02 01.30809	06 40 45.78	-06 09 49.4	696
1995 QE ₂	1997 02 01.30927	06 40 45.73	-06 09 49.0	696
1995 QW ₃	1996 12 16.37429	08 37 41.86	-05 28 19.9	696
1995 QW ₃	1996 12 16.37547	08 37 41.82	-05 28 20.5	696
1995 QW ₃	1996 12 16.37662	08 37 41.79	-05 28 21.1	696
1995 QW ₃	1997 02 01.31083	07 54 25.85	-08 42 36.3	696
1995 QW ₃	1997 02 01.31199	07 54 25.78	-08 42 36.1	696
1995 QW ₃	1997 02 01.31314	07 54 25.71	-08 42 36.0	696
1995 RA	1996 12 16.39985	10 26 42.85	+02 21 32.1	696
1995 RA	1996 12 16.40100	10 26 42.86	+02 21 31.5	696
1995 RA	1996 12 16.40223	10 26 42.87	+02 21 30.8	696
1995 RA	1996 12 16.40419	10 26 42.86	+02 21 29.9	696
1995 TX	1996 12 16.46694	10 26 27.98	+06 11 50.3	696
1995 TX	1996 12 16.46808	10 26 28.01	+06 11 49.3	696
1995 TX	1996 12 16.46888	10 26 28.02	+06 11 48.6	696
1995 TX	1997 02 01.31644	10 07 00.69	-04 27 52.1	696
1995 TX	1997 02 01.31699	10 07 00.65	-04 27 52.4	696
1995 TX	1997 02 01.31756	10 07 00.61	-04 27 52.8	696
1996 TO ₉	1997 02 01.08081	00 44 20.79	+14 24 17.6	696
1996 TO ₉	1997 02 01.08267	00 44 20.95	+14 24 19.8	19.3 R 696
1996 TO ₉	1997 02 01.08451	00 44 21.00	+14 24 20.0	19.4 R 696
1996 TL ₆₆	1996 11 15.14876	01 57 14.83	+14 21 47.8	696
1996 TL ₆₆	1996 11 15.27444	01 57 14.30	+14 21 43.2	696
1996 TL ₆₆	1996 11 15.28946	01 57 14.22	+14 21 42.6	696
1996 TL ₆₆	1996 11 17.16251	01 57 05.45	+14 20 34.2	20.7 R 696
1996 TL ₆₆	1996 11 17.17459	01 57 05.37	+14 20 33.9	696
1996 TL ₆₆	1996 11 18.09057	01 57 01.15	+14 20 00.8	20.5 R 696

1996 TL ₆₆	1996 11 18.23890	01 57 00.46	+14 19 55.7	696
1996 TL ₆₆	1996 11 19.17700	01 56 56.20	+14 19 22.1	696
1996 TL ₆₆	1996 11 19.24701	01 56 55.87	+14 19 19.5	696
1996 TL ₆₆	1996 12 15.13605	01 55 21.48	+14 05 38.6	696
1996 TL ₆₆	1996 12 15.21984	01 55 21.25	+14 05 36.2	696
1996 TL ₆₆	1996 12 15.29867	01 55 21.05	+14 05 34.4	696
1996 TL ₆₆	1996 12 16.32346	01 55 18.53	+14 05 07.8	696
1996 TL ₆₆	1996 12 16.34138	01 55 18.41	+14 05 07.5	696
1996 TL ₆₆	1996 12 17.18652	01 55 16.44	+14 04 44.9	696
1996 TL ₆₆	1997 02 01.20032	01 55 21.82	+13 55 17.0	r 696
1996 TL ₆₆	1997 02 01.21899	01 55 21.85	+13 55 17.0	r 696
1996 XU ₁₄	1996 12 16.15987	03 57 28.33	+51 21 08.9	696
1996 XU ₁₄	1996 12 16.16088	03 57 28.27	+51 21 07.9	696
1996 XU ₁₄	1996 12 16.16170	03 57 28.21	+51 21 07.2	696
1996 XS ₂₃	1996 12 17.26441	05 31 49.17	+61 10 14.4	696
1996 XS ₂₃	1996 12 17.26523	05 31 49.08	+61 10 15.1	696
1996 XS ₂₃	1996 12 17.26604	05 31 48.95	+61 10 15.6	696
3024 T-2	1996 12 16.48521	11 01 47.40	+31 32 20.7	696
3024 T-2	1996 12 16.48714	11 01 47.44	+31 32 21.0	696
3024 T-2	1996 12 16.48899	11 01 47.50	+31 32 21.2	696
3024 T-2	1997 02 01.40552	10 49 46.28	+34 25 58.8	696
3024 T-2	1997 02 01.40733	10 49 46.15	+34 25 59.2	696
3024 T-2	1997 02 01.40916	10 49 46.05	+34 25 59.6	696
(880)	1996 12 16.38162	07 31 36.51	+13 54 27.0	696
(880)	1996 12 16.38245	07 31 36.47	+13 54 26.8	696
(880)	1996 12 16.38316	07 31 36.43	+13 54 26.7	696
(1205)	1996 12 16.38387	07 38 35.78	+36 02 11.3	696
(1205)	1996 12 16.38459	07 38 35.73	+36 02 11.5	696
(1205)	1996 12 16.38547	07 38 35.68	+36 02 11.8	696
(3089)	1996 12 16.14845	05 51 42.47	+22 46 31.4	696
(3089)	1996 12 16.14951	05 51 42.41	+22 46 31.6	696
(3089)	1996 12 16.15031	05 51 42.36	+22 46 31.8	696
(3806)	1996 12 16.47380	11 00 17.03	-03 32 26.9	696
(3806)	1996 12 16.47564	11 00 17.07	-03 32 27.5	696
(3806)	1996 12 16.47747	11 00 17.11	-03 32 28.0	696
(5131)	1996 12 16.29352	05 58 33.07	-04 53 51.6	696
(5131)	1996 12 16.29468	05 58 32.97	-04 53 50.6	696
(5131)	1996 12 16.29596	05 58 32.77	-04 53 50.2	696
(5389)	1996 12 16.37088	07 28 10.54	+32 32 42.5	696
(5389)	1996 12 16.37190	07 28 10.46	+32 32 42.9	696
(5389)	1996 12 16.37263	07 28 10.42	+32 32 43.2	696

697 Kitt Peak, McGraw-Hill Observatory

H. F. Levison, Southwest Research Institute, 1050 Walnut, Suite 429, Boulder, CO 80302, U.S.A.

Observers H. F. Levison, J. W. Parker

2.4-m reflector + CCD

GSC

1994 VK ₈	1997 02 07.13425	04 05 06.56	+20 36 31.2	697
1994 VK ₈	1997 02 08.14550	04 05 05.90	+20 36 30.6	697
1994 VK ₈	1997 02 09.22130	04 05 05.32	+20 36 29.1	697
1995 DC ₂	1997 02 09.27953	10 29 49.76	+09 29 16.9	697
1995 DC ₂	1997 02 09.30955	10 29 49.67	+09 29 17.7	697

1995 DC ₂	1997 02 10.32689	10 29 45.44	+09 29 42.8	697
1995 DC ₂	1997 02 10.35807	10 29 45.31	+09 29 43.6	697
1995 HM ₅	1997 02 07.48095	12 42 28.36	-04 15 14.7	697
1995 HM ₅	1997 02 08.48575	12 42 25.51	-04 14 53.5	697
1995 HM ₅	1997 02 08.52943	12 42 25.34	-04 14 52.9	697
1996 TL ₆₆	1997 02 10.11436	01 55 50.24	+13 55 57.9	697
1996 TL ₆₆	1997 02 10.15472	01 55 50.37	+13 55 58.2	697

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

GSC

1994 PC	1997 02 13.11448	05 48 28.56	+22 12 23.7	18.4 V	F 709
1994 PC	1997 02 13.12081	05 48 29.16	+22 12 28.7	18.0 V	F 709
1994 PC	1997 02 13.12432	05 48 29.42	+22 12 31.1	18.0 V	F 709
1994 PC	1997 02 13.12848	05 48 29.79	+22 12 33.4	17.9 V	F 709
1994 PC	1997 02 13.13659	05 48 30.41	+22 12 40.1	18.3 V	709
1994 PC	1997 02 13.14072	05 48 30.76	+22 12 43.3	18.2 V	709
1996 TL ₆₆	1997 01 10.14272	01 54 49.66	+13 57 09.4	20.7 V	709
1996 TL ₆₆	1997 01 10.15450	01 54 49.66	+13 57 09.5	19.9 V	F 709
1996 TL ₆₆	1997 01 10.24295	01 54 49.59	+13 57 09.9	20.2 V	F 709
1996 TL ₆₆	1997 01 11.20220	01 54 49.97	+13 56 57.7	19.7 V	F 709
1996 TL ₆₆	1997 01 11.21370	01 54 49.95	+13 56 57.4	19.2 V	F 709
1996 TL ₆₆	1997 01 11.22515	01 54 49.95	+13 56 57.3	19.4 V	F 709
1996 TL ₆₆	1997 01 31.18771	01 55 19.23	+13 55 15.4	21.2 V	709
1996 TL ₆₆	1997 02 01.15519	01 55 21.80	+13 55 17.1	21.0 V	709
1996 TL ₆₆	1997 02 01.17146	01 55 21.82	+13 55 17.1	21.3 V	709
1996 TL ₆₆	1997 02 04.15376	01 55 30.38	+13 55 25.5	20.5 V	709
1996 TL ₆₆	1997 02 04.17005	01 55 30.44	+13 55 25.8	20.8 V	709
1996 TL ₆₆	1997 02 10.12471	01 55 50.24	+13 55 57.5	19.9 V	709
1996 TL ₆₆	1997 02 10.14105	01 55 50.30	+13 55 57.5	20.4 V	709
1996 TL ₆₆	1997 02 10.15735	01 55 50.36	+13 55 57.8	20.1 V	709
1996 TL ₆₆	1997 02 11.12321	01 55 53.94	+13 56 05.2	21.5 V	709
1996 TL ₆₆	1997 02 11.15594	01 55 53.98	+13 56 06.4	20.4 V	709
1997 BJ ₅	1997 02 08.20034	09 19 43.68	+12 57 15.4	17.8 V	709
1997 BJ ₅	1997 02 08.20492	09 19 43.45	+12 57 15.9	17.8 V	709
1997 BJ ₅	1997 02 08.21667	09 19 42.84	+12 57 17.1	18.1 V	709
1997 BJ ₅	1997 02 08.24356	09 19 41.48	+12 57 19.9	18.0 V	709
1997 BJ ₅	1997 02 08.26899	09 19 40.17	+12 57 22.4	17.9 V	709
1997 CG ₄	1997 02 10.24029	09 52 46.43	+16 48 01.4	19.0 V	709
1997 CG ₄	1997 02 10.24685	09 52 45.96	+16 48 02.5	19.0 V	709
1997 CG ₄	1997 02 10.25328	09 52 45.51	+16 48 03.8	19.0 V	709
1997 CG ₄	1997 02 10.26163	09 52 44.92	+16 48 05.1	19.0 V	709
1997 CG ₄	1997 02 10.27181	09 52 44.19	+16 48 06.9	19.2 V	709
1997 CG ₄	1997 02 10.28345	09 52 43.39	+16 48 09.0	19.1 V	709
1997 CG ₄	1997 02 11.25013	09 51 37.26	+16 50 53.9	18.4 V	709
1997 CG ₄	1997 02 11.25451	09 51 36.97	+16 50 54.7	18.5 V	709
1997 CG ₄	1997 02 11.26034	09 51 36.54	+16 50 55.7	18.5 V	709
1997 CG ₄	1997 02 11.26475	09 51 36.23	+16 50 56.4	18.4 V	709
1997 CG ₄	1997 02 11.26918	09 51 35.93	+16 50 57.1	18.4 V	709
1997 CG ₄	1997 02 15.31074	09 46 58.89	+17 01 46.5	18.9 V	709
1997 CG ₄	1997 02 15.31549	09 46 58.56	+17 01 47.2	18.9 V	709

1997 CG ₄	1997 02 15.32032	09 46 58.21	+17 01 48.1	18.9 V	709
1997 CG ₄	1997 02 15.32479	09 46 57.90	+17 01 48.6	18.9 V	709
1997 CG ₄	1997 02 15.32929	09 46 57.59	+17 01 49.3	18.9 V	709
1997 CG ₄	1997 02 15.33446	09 46 57.22	+17 01 50.2	18.9 V	709
1997 CX ₁₃	* 1997 02 04.30218	09 58 26.44	+16 03 30.1	18.1 V	709
1997 CX ₁₃	1997 02 04.31847	09 58 25.55	+16 03 37.3	18.0 V	709
1997 CX ₁₃	1997 02 04.33477	09 58 24.62	+16 03 45.0	18.1 V	709
1997 CX ₁₃	1997 02 08.29889	09 54 46.26	+16 33 45.0	19.9 V	709
1997 CX ₁₃	1997 02 08.30255	09 54 46.06	+16 33 46.6	19.2 V	709
1997 CX ₁₃	1997 02 08.30758	09 54 45.75	+16 33 48.7	19.0 V	709
1997 CX ₁₃	1997 02 08.31188	09 54 45.50	+16 33 50.8	19.3 V	709
1997 CX ₁₃	1997 02 10.24029	09 52 55.89	+16 48 25.8	19.7 V	709
1997 CX ₁₃	1997 02 10.24685	09 52 55.49	+16 48 28.8	19.7 V	709
1997 CX ₁₃	1997 02 10.25328	09 52 55.12	+16 48 31.6	19.5 V	709
1997 CX ₁₃	1997 02 10.26163	09 52 54.62	+16 48 35.5	19.7 V	709
1997 CX ₁₃	1997 02 10.27181	09 52 54.01	+16 48 40.2	19.8 V	709
1997 CX ₁₃	1997 02 11.22127	09 51 59.42	+16 55 48.7	19.8 V	709
1997 CX ₁₃	1997 02 11.22532	09 51 59.19	+16 55 50.4	19.6 V	709
1997 CX ₁₃	1997 02 11.22936	09 51 58.93	+16 55 52.2	19.4 V	709
1997 CX ₁₃	1997 02 11.23340	09 51 58.70	+16 55 54.1	19.3 V	709
1997 CX ₁₃	1997 02 11.23743	09 51 58.47	+16 55 56.1	19.8 V	709
1997 CX ₁₃	1997 02 11.24148	09 51 58.23	+16 55 57.8	20.0 V	709
1997 CX ₁₃	1997 02 15.27998	09 48 03.12	+17 25 53.8	19.5 V	709
1997 CX ₁₃	1997 02 15.28440	09 48 02.86	+17 25 55.8	19.5 V	709
1997 CX ₁₃	1997 02 15.29066	09 48 02.46	+17 25 58.6	19.4 V	709
1997 CX ₁₃	1997 02 15.29508	09 48 02.18	+17 26 00.4	19.4 V	709
1997 CX ₁₃	1997 02 15.29971	09 48 01.91	+17 26 02.5	19.3 V	709
(4101)	1997 02 15.31074	09 46 48.09	+16 59 03.3	17.6 V	I 709
(4101)	1997 02 15.31549	09 46 47.90	+16 59 03.7	17.6 V	I 709
(4101)	1997 02 15.32032	09 46 47.54	+16 59 04.9	17.6 V	I 709
(4101)	1997 02 15.32479	09 46 47.33	+16 59 04.7	17.2 V	709
(4101)	1997 02 15.32929	09 46 47.06	+16 59 06.0	17.2 V	709
(4101)	1997 02 15.33446	09 46 46.75	+16 59 06.9	17.2 V	709
(7430)	1997 02 13.11448	05 48 36.07	+22 12 47.3	15.8 V	709
(7430)	1997 02 13.12081	05 48 36.28	+22 12 46.5	15.7 V	709
(7430)	1997 02 13.12432	05 48 36.40	+22 12 46.1	15.8 V	709
(7430)	1997 02 13.12848	05 48 36.53	+22 12 45.6	15.7 V	709
(7430)	1997 02 13.13250	05 48 36.66	+22 12 45.1	15.7 V	709
(7430)	1997 02 13.13659	05 48 36.79	+22 12 44.6	15.8 V	709
(7430)	1997 02 13.14072	05 48 36.92	+22 12 44.1	15.8 V	709

710 Florissant

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

GSC

(2860)	1997 01 05.15486	04 36 54.74	+59 57 11.7	710
(2860)	1997 01 07.16412	04 36 05.30	+59 19 47.1	710
(3148)	1997 01 05.17083	06 10 13.47	+24 33 50.3	710
(3148)	1997 01 07.16823	06 08 31.25	+24 33 50.9	710
(3958)	1997 01 05.17500	05 37 52.40	+32 06 02.3	710
(3958)	1997 01 07.17150	05 36 10.92	+32 01 32.3	710
(4006)	1997 01 18.20035	08 02 55.37	+20 08 05.1	710

(4006)	1997 01 19.39311	08 01 38.56	+20 10 08.3	710
(5083)	1997 01 17.14682	08 01 26.21	+31 14 57.1	710
(5138)	1997 01 17.15498	08 20 53.02	+18 14 47.6	710
(5138)	1997 01 18.15330	08 20 01.36	+18 17 43.6	710
(5190)	1997 01 05.18258	07 17 54.27	+32 44 50.6	710
(5190)	1997 01 07.17708	07 15 43.36	+32 36 44.9	710
(5193)	1997 01 17.15874	06 57 13.30	+24 02 19.6	710
(5193)	1997 01 18.15770	06 56 24.03	+24 04 18.5	710
(5407)	1997 01 17.16395	08 34 28.93	+20 10 03.7	710
(5407)	1997 01 18.16082	08 33 15.41	+20 24 55.3	710
(5489)	1997 01 17.16858	06 00 47.41	+22 36 56.1	710
(5489)	1997 01 18.16337	06 00 03.05	+22 42 30.9	710
(5563)	1997 01 05.19032	07 00 38.56	+32 35 11.0	710
(5563)	1997 01 07.18588	06 58 29.79	+32 44 27.6	710
(5565)	1997 01 05.19444	07 30 25.74	+13 06 49.0	710
(5565)	1997 01 07.18889	07 28 34.84	+13 18 55.4	710
(5565)	1997 01 19.40787	07 17 25.26	+14 39 00.4	710
(5806)	1997 01 18.17234	08 14 03.10	+20 59 50.8	710
(5964)	1997 01 05.19794	05 40 25.91	+18 01 29.5	710
(6000)	1997 01 17.17859	08 13 46.86	+40 52 02.1	710
(6000)	1997 01 18.17512	08 12 34.04	+40 56 50.4	710
(6642)	1997 01 05.20139	08 09 45.22	+27 21 57.8	710
(6642)	1997 01 07.19595	08 08 04.37	+27 28 48.5	710
(6652)	1997 01 17.18640	07 34 55.77	+01 18 05.8	710
(6652)	1997 01 18.19416	07 34 04.32	+01 26 09.6	710
(6662)	1997 01 17.18929	07 30 19.34	+12 22 05.6	710
(6662)	1997 01 18.19722	07 29 15.48	+12 19 06.8	710
(6662)	1997 01 27.13657	07 20 20.34	+11 56 38.5	710

711 McDonald Observatory

P. J. Shelus, McDonald Observatory, University of Texas, Austin, TX 78712,

U.S.A. [pjs@astro.as.utexas.edu]

Observer P. J. Shelus

Measurer P. J. Shelus

0.76-m telescope with Prime Focus Corrector + CCD

GSC 1.1

1981 ER ₄₇	1997 02 10.43789	12 51 20.23	-03 16 25.3	711
1981 ER ₄₇	1997 02 10.44875	12 51 20.11	-03 16 24.3	711
1981 ER ₄₇	1997 02 11.45202	12 51 07.64	-03 14 58.0	711
1981 ER ₄₇	1997 02 11.46518	12 51 07.50	-03 14 57.2	711
1987 OA	1997 02 10.50929	14 09 43.92	-24 50 19.7	711
1987 OA	1997 02 10.51460	14 09 42.79	-24 50 09.5	711
1987 OA	1997 02 11.50084	14 06 35.88	-24 15 11.7	711
1987 OA	1997 02 11.50584	14 06 34.87	-24 15 00.8	711
1987 OA	1997 02 13.48770	14 00 15.21	-23 03 27.5	711
1987 OA	1997 02 13.49910	14 00 13.05	-23 03 01.8	711
1988 VJ ₂	1997 02 10.12337	03 38 33.93	+13 46 14.2	711
1988 VJ ₂	1997 02 10.12862	03 38 34.52	+13 46 16.3	711
1988 VJ ₂	1997 02 11.10487	03 40 25.97	+13 53 09.4	711
1988 VJ ₂	1997 02 11.11015	03 40 26.57	+13 53 11.6	711
1991 QF	1997 02 10.33708	09 25 35.70	+41 29 13.4	711
1991 QF	1997 02 10.35067	09 25 34.65	+41 29 15.1	711
1991 QF	1997 02 11.30198	09 24 24.34	+41 31 14.8	711

1991 QF	1997 02 11.31529	09 24 23.34	+41 31 16.1	711	(916)	1997 02 11.39145	10 27 21.48	+09 27 44.2	711
1991 TV ₁	1997 02 13.38723	11 52 02.46	+12 59 14.4	711	(916)	1997 02 13.32917	10 25 16.97	+09 32 17.5	711
1991 TV ₁	1997 02 13.40028	11 52 01.95	+12 59 18.4	711	(916)	1997 02 13.33212	10 25 16.76	+09 32 17.5	711
1992 NA	1997 02 10.29986	08 34 58.75	+28 41 19.9	711	(2204)	1997 02 10.21115	06 32 31.47	-03 19 23.8	711
1992 NA	1997 02 10.31313	08 34 57.74	+28 41 19.7	711	(2204)	1997 02 10.21394	06 32 31.58	-03 19 18.8	711
1992 NA	1997 02 11.27537	08 33 46.56	+28 41 03.7	711	(2204)	1997 02 11.19248	06 33 13.85	-02 50 30.5	711
1992 NA	1997 02 11.28850	08 33 45.64	+28 41 03.1	711	(2204)	1997 02 11.19521	06 33 13.96	-02 50 25.7	711
1992 TC	1997 02 10.16476	06 11 22.46	+30 45 04.6	711	(2368)	1997 02 10.27332	08 18 26.16	+16 39 19.6	711
1992 TC	1997 02 10.17866	06 11 22.59	+30 45 04.8	711	(2368)	1997 02 10.28651	08 18 25.35	+16 39 21.6	711
1992 TC	1997 02 11.14189	06 11 47.59	+30 45 42.4	711	(2368)	1997 02 11.24880	08 17 25.14	+16 41 58.4	711
1992 TC	1997 02 11.15513	06 11 47.83	+30 45 43.0	711	(2368)	1997 02 11.26202	08 17 24.28	+16 42 00.3	711
1995 GO	1997 02 10.46154	13 29 35.81	-14 52 40.8	711	(2703)	1997 02 13.07983	00 36 33.39	+01 53 35.7	711
1995 GO	1997 02 10.47468	13 29 35.82	-14 52 41.2	711	(2703)	1997 02 13.08942	00 36 34.31	+01 53 42.6	711
1995 GO	1997 02 13.41362	13 29 21.54	-14 54 02.6	711	(3066)	1997 02 11.52179	16 32 49.52	-09 52 53.7	711
1995 GO	1997 02 13.42667	13 29 21.48	-14 54 03.0	711	(3066)	1997 02 11.52531	16 32 49.77	-09 52 51.6	711
1995 UY ₄₄	1997 02 10.41256	11 51 52.40	+13 19 54.6	711	(3066)	1997 02 13.52325	16 35 15.04	-09 47 24.4	711
1995 UY ₄₄	1997 02 10.42556	11 51 51.89	+13 19 58.4	711	(3066)	1997 02 13.52672	16 35 15.28	-09 47 23.8	711
1995 UY ₄₄	1997 02 13.36057	11 49 56.19	+13 34 37.0	711	(3067)	1997 02 11.42038	11 09 23.71	+07 51 36.2	711
1995 UY ₄₄	1997 02 13.37388	11 49 55.63	+13 34 39.6	711	(3067)	1997 02 11.42718	11 09 23.36	+07 51 37.3	711
1996 FG ₃	1997 02 13.33860	10 25 34.19	+06 39 23.4	711	(3559)	1997 02 10.10558	03 25 48.28	+22 21 13.9	711
1996 FG ₃	1997 02 13.34865	10 25 32.42	+06 39 30.7	711	(3559)	1997 02 10.11370	03 25 48.98	+22 21 15.3	711
1996 TQ ₉	1997 02 10.08463	01 32 41.11	+25 28 34.1	711	(3559)	1997 02 11.09238	03 27 15.48	+22 24 02.5	711
1996 TQ ₉	1997 02 10.09289	01 32 42.04	+25 28 41.8	711	(3559)	1997 02 11.09895	03 27 16.09	+22 24 03.7	711
1996 TQ ₉	1997 02 11.07663	01 34 33.68	+25 43 32.4	711	(3838)	1997 02 10.19131	06 15 49.52	-13 23 43.2	711
1996 TQ ₉	1997 02 11.08497	01 34 34.63	+25 43 39.9	711	(3838)	1997 02 10.20366	06 15 48.75	-13 23 36.5	711
1996 TQ ₉	1997 02 13.09851	01 38 27.26	+26 14 04.1	711	(3838)	1997 02 11.17316	06 14 52.10	-13 14 46.5	711
1996 TQ ₉	1997 02 13.10677	01 38 28.25	+26 14 11.2	711	(3838)	1997 02 11.18505	06 14 51.51	-13 14 40.2	711
1997 AX ₁₂	1997 02 12.35435	08 39 09.66	+24 01 31.5	711	(3908)	1997 02 10.14103	05 57 59.69	+20 36 15.4	711
1997 AX ₁₂	1997 02 12.36748	08 39 09.21	+24 01 35.3	711	(3908)	1997 02 10.15122	05 58 00.44	+20 36 16.4	711
1997 AX ₁₂	1997 02 13.20860	08 38 43.50	+24 06 02.6	711	(3908)	1997 02 11.11989	05 59 22.46	+20 36 31.4	711
1997 AX ₁₂	1997 02 13.22173	08 38 43.05	+24 06 06.6	711	(3908)	1997 02 11.13001	05 59 23.10	+20 36 31.5	711
1997 AQ ₁₈	1997 02 12.26839	06 54 15.05	+14 39 42.5	711	(4006)	1997 02 10.21766	07 41 50.45	+20 36 31.2	711
1997 AQ ₁₈	1997 02 12.28144	06 54 14.17	+14 39 37.6	711	(4006)	1997 02 10.22068	07 41 50.39	+20 36 30.8	711
1997 AQ ₁₈	1997 02 13.12365	06 53 22.81	+14 32 59.0	711	(4006)	1997 02 11.19851	07 41 13.07	+20 37 02.9	711
1997 AQ ₁₈	1997 02 13.13643	06 53 21.95	+14 32 53.4	711	(4006)	1997 02 11.20145	07 41 12.95	+20 37 02.9	711
1997 BR	1997 02 13.29306	09 51 08.54	+42 23 15.9	711	(4179)	1997 02 10.23319	07 58 00.99	+20 46 54.6	711
1997 BR	1997 02 13.29740	09 51 08.03	+42 23 29.9	711	(4179)	1997 02 10.23600	07 58 00.97	+20 46 54.7	711
1997 CY ₁	1997 02 13.30768	10 04 00.77	+17 55 13.8	711	(4179)	1997 02 11.21050	07 58 00.80	+20 47 31.4	711
1997 CY ₁	1997 02 13.32094	10 03 59.36	+17 55 11.8	711	(4179)	1997 02 11.21319	07 58 00.79	+20 47 31.7	711
1997 CZ ₃	1997 02 12.32742	08 09 20.86	+20 30 40.8	711	(5693)	1997 02 10.36229	09 59 08.09	+21 54 18.1	711
1997 CZ ₃	1997 02 12.34096	08 09 19.44	+20 30 40.5	711	(5693)	1997 02 10.37084	09 59 06.67	+21 54 25.6	711
1997 CZ ₅	1997 02 13.11254	04 42 04.20	+17 05 49.8	711	(5693)	1997 02 11.33594	09 56 25.86	+22 08 47.6	711
1997 CZ ₅	1997 02 13.11537	04 42 04.61	+17 05 45.4	711	(5693)	1997 02 11.34442	09 56 24.47	+22 08 54.6	711
(183)	1997 02 10.52566	18 03 35.81	-02 16 21.1	711	(6053)	1997 02 10.48777	14 01 06.68	-35 38 35.5	711
(183)	1997 02 10.52877	18 03 36.01	-02 16 20.7	711	(6053)	1997 02 10.50032	14 01 06.72	-35 38 41.3	711
(183)	1997 02 11.52869	18 04 39.63	-02 13 55.4	711	(6053)	1997 02 11.47817	14 01 06.79	-35 46 59.5	711
(183)	1997 02 11.53187	18 04 39.84	-02 13 55.0	711	(6053)	1997 02 11.49069	14 01 06.80	-35 47 05.8	711
(183)	1997 02 13.51666	18 06 44.91	-02 08 53.6	711	(6053)	1997 02 13.46599	14 01 02.59	-36 03 37.1	711
(183)	1997 02 13.51979	18 06 45.10	-02 08 53.1	711	(6053)	1997 02 13.47881	14 01 02.44	-36 03 44.0	711
(541)	1997 02 11.43310	11 27 00.98	-05 37 59.3	711	(6081)	1997 02 13.43979	13 48 39.33	-07 09 02.2	711
(541)	1997 02 11.44349	11 27 00.62	-05 37 58.6	711	(6081)	1997 02 13.45289	13 48 39.55	-07 09 00.8	711
(916)	1997 02 11.38686	10 27 21.78	+09 27 43.5	711					

732 Oaxaca

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0.20-m $f/7.4$ reflector + CCD

GSC

1948 AA	1997 01 17.09161	06 26 49.88	+14 20 29.4	17.9 R	732	(529)	1997 02 02.20277	04 15 01.04	+26 00 23.8	16.0 R	732
1948 AA	1997 01 17.09785	06 26 49.48	+14 20 24.7	17.8 R	732	(541)	1997 02 13.24259	11 25 58.24	-05 35 51.6	15.5 R	732
1948 AA	1997 01 26.28638	06 17 05.30	+13 00 52.0	18.2 R	732	(541)	1997 02 13.24854	11 25 58.02	-05 35 50.8	14.9 R	732
1948 AA	1997 01 26.29723	06 17 04.44	+13 00 48.7	18.2 R	732	(541)	1997 02 13.25433	11 25 57.80	-05 35 50.3	14.9 R	732
1984 DD ₁	1997 02 01.18212	07 28 09.10	+24 33 20.7	17.9 R	732	(541)	1997 02 14.25873	11 25 21.18	-05 34 25.1	15.2 R	732
1984 DD ₁	1997 02 01.18840	07 28 08.68	+24 33 21.0	18.3 R	732	(541)	1997 02 14.26593	11 25 20.92	-05 34 24.7	15.1 R	732
1984 DD ₁	1997 02 01.19454	07 28 08.38	+24 33 20.9	17.9 R	732	(916)	1997 02 14.27211	11 25 20.68	-05 34 23.9	15.1 R	732
1984 DD ₁	1997 02 02.09788	07 27 14.13	+24 33 33.9	18.3 R	732	(916)	1997 02 12.26646	10 26 25.59	+09 29 48.1	15.6 R	732
1984 DD ₁	1997 02 02.10405	07 27 13.80	+24 33 34.5	18.3 R	732	(916)	1997 02 12.27220	10 26 25.20	+09 29 48.9	15.6 R	732
1984 DD ₁	1997 02 02.10972	07 27 13.32	+24 33 34.4	18.4 R	732	(916)	1997 02 12.27774	10 26 24.84	+09 29 49.7	15.6 R	732
1984 DD ₁	1997 02 02.11904	07 27 12.74	+24 33 33.8	18.2 R	732	(916)	1997 02 13.22300	10 25 23.87	+09 32 03.4	16.3 R	732
1984 DD ₁	1997 02 02.14512	07 27 11.24	+24 33 34.3	18.4 R	732	(916)	1997 02 13.22844	10 25 23.59	+09 32 04.0	15.7 R	732
1984 DD ₁	1997 02 02.15564	07 27 10.59	+24 33 35.0	18.6 R	732	(916)	1997 02 13.23394	10 25 23.22	+09 32 04.9	15.6 R	732
1984 DD ₁	1997 02 02.21921	07 27 06.57	+24 33 35.9	18.4 R	732	(3067)	1997 02 10.23516	11 10 24.81	+07 48 12.6	16.9 R	732
1987 WO ₁	1997 02 12.21150	09 22 40.31	+04 09 06.0	17.3 R	732	(3067)	1997 02 10.24116	11 10 24.50	+07 48 13.4	16.2 R	732
1987 WO ₁	1997 02 12.21712	09 22 39.96	+04 09 08.3	17.5 R	732	(3067)	1997 02 10.24678	11 10 24.22	+07 48 14.6	16.2 R	732
1987 WO ₁	1997 02 12.22243	09 22 39.66	+04 09 10.0	17.7 R	732	(3067)	1997 02 11.19369	11 09 36.01	+07 50 57.6	16.3 R	732
1987 WO ₁	1997 02 13.15545	09 21 48.73	+04 13 27.2	17.7 R	732	(4182)	1997 02 11.19981	11 09 35.71	+07 50 59.4	16.4 R	732
1987 WO ₁	1997 02 13.16219	09 21 48.37	+04 13 29.0	17.1 R	732	(4182)	1997 02 12.19041	09 27 18.36	+04 07 57.4	18.1 R	732
1987 WO ₁	1997 02 13.16767	09 21 48.00	+04 13 30.7	17.7 R	732	(4182)	1997 02 12.19611	09 27 18.11	+04 07 57.8	17.7 R	732
1988 VM ₉	1997 01 17.11547	06 55 52.02	+36 07 24.7	17.7 R	732	(4182)	1997 02 12.20168	09 27 17.80	+04 07 59.3	17.8 R	732
1988 VM ₉	1997 01 17.12240	06 55 51.67	+36 07 25.5	18.0 R	732	(4768)	1997 02 13.20266	09 26 25.59	+04 11 15.6	18.1 R	732
1988 VM ₉	1997 01 17.12929	06 55 51.31	+36 07 25.5	17.4 R	732	(4768)	1997 02 13.20852	09 26 25.34	+04 11 16.7	17.4 R	732
1988 VM ₉	1997 01 27.10184	06 47 05.51	+35 52 41.2	17.5 R	732	(4768)	1997 02 13.21375	09 26 25.10	+04 11 17.7	17.7 R	732
1988 VM ₉	1997 01 27.10858	06 47 05.18	+35 52 40.6	17.3 R	732	(4768)	1997 02 10.20767	10 41 07.36	+00 17 49.2	17.4 R	732
1988 VM ₉	1997 01 27.11542	06 47 04.82	+35 52 38.2	17.2 R	732	(4768)	1997 02 10.21356	10 41 07.12	+00 17 49.9	17.6 R	732
1990 RM ₁₇	1997 01 17.16676	06 57 36.00	+35 32 31.1	18.0 R	732	(4768)	1997 02 10.21924	10 41 06.86	+00 17 49.6	17.5 R	732
1990 RM ₁₇	1997 01 17.17330	06 57 35.66	+35 32 31.8	17.8 R	732	(5507)	1997 02 11.17773	10 40 23.71	+00 18 20.4	17.6 R	732
1990 RM ₁₇	1997 01 27.07772	06 48 47.68	+35 04 47.5	17.4 R	732	(5507)	1997 02 11.18645	10 40 23.24	+00 18 21.4	17.8 R	732
1990 RM ₁₇	1997 01 27.08502	06 48 47.19	+35 04 47.2	17.7 R	732	(5507)	1997 02 06.29309	08 05 19.50	+22 33 18.6	19.0 R	732
1990 RM ₁₇	1997 01 27.09221	06 48 47.07	+35 04 45.9	17.3 R	732	(5507)	1997 02 06.29917	08 05 19.21	+22 33 19.6	18.9 R	732
1991 RD ₂₄	1997 02 01.16243	07 34 39.88	+21 21 40.5	18.8 R	732	(5507)	1997 02 06.30472	08 05 18.95	+22 33 21.4	18.2 R	732
1991 RD ₂₄	1997 02 01.16825	07 34 39.20	+21 21 43.0	18.6 R	732	(5909)	1997 02 07.12869	08 04 35.08	+22 34 33.7	19.1 R	732
1991 RD ₂₄	1997 02 01.17412	07 34 38.96	+21 21 44.2	18.4 R	732	(5909)	1997 02 07.13419	08 04 34.73	+22 34 34.1	18.8 R	732
1991 RD ₂₄	1997 02 02.16486	07 33 44.97	+21 25 53.2	18.0 R	732	(5909)	1997 02 07.13954	08 04 34.47	+22 34 35.9	18.8 R	732
1991 RD ₂₄	1997 02 02.17081	07 33 44.63	+21 25 53.7	17.8 R	732	(5909)	1997 01 17.13853	06 55 23.19	+35 56 08.1	16.5 R	732
1991 RD ₂₄	1997 02 02.17617	07 33 44.34	+21 25 55.5	17.9 R	732	(5909)	1997 01 17.14552	06 55 22.68	+35 56 08.0	16.5 R	732
1993 CP ₁	1997 02 12.23216	09 26 01.36	+06 20 03.3	17.5 R	732	(5963)	1997 01 27.12412	06 45 46.17	+35 41 32.8	17.0 R	732
1993 CP ₁	1997 02 12.23830	09 26 01.02	+06 20 06.4	17.6 R	732	(5963)	1997 01 27.13145	06 45 45.80	+35 41 31.0	17.1 R	732
1993 CP ₁	1997 02 12.24376	09 26 00.72	+06 20 09.1	17.9 R	732	(5963)	1997 01 27.13804	06 45 45.47	+35 41 30.8	16.9 R	732
1993 CP ₁	1997 02 13.18388	09 25 12.21	+06 29 16.2	18.5 R	732	(5963)	1997 02 07.14823	08 01 28.28	+22 42 05.1	18.0 R	732
1993 CP ₁	1997 02 13.18919	09 25 11.89	+06 29 19.6	17.9 R	732	(5963)	1997 02 07.15377	08 01 27.98	+22 42 05.6	17.7 R	732
1993 CP ₁	1997 02 13.19458	09 25 11.65	+06 29 22.0	17.3 R	732	(6557)	1997 02 07.16001	08 01 27.70	+22 42 05.9	17.7 R	732
(529)	1997 02 01.13223	04 14 41.62	+25 58 09.7	15.7 R	732	(6557)	1997 02 08.21208	08 00 37.45	+22 43 44.8	18.1 R	732
(529)	1997 02 01.13921	04 14 41.71	+25 58 11.2	16.0 R	732	(6557)	1997 02 08.21859	08 00 37.14	+22 43 45.2	17.9 R	732
(529)	1997 02 01.14633	04 14 41.82	+25 58 11.8	15.9 R	732	(6557)	1997 02 08.22955	08 00 36.61	+22 43 46.5	17.8 R	732
(529)	1997 02 02.19090	04 15 00.81	+26 00 22.3	15.7 R	732	(6557)	1997 02 04.15479	06 16 03.37	+33 20 10.1	17.6 R	732
(529)	1997 02 02.19736	04 15 00.90	+26 00 23.2	16.1 R	732	(6643)	1997 02 04.15950	06 16 03.15	+33 20 10.4	17.8 R	732
							1997 02 06.26807	06 15 28.12	+33 16 43.0	17.9 R	732
							1997 02 06.27414	06 15 28.06	+33 16 40.7	17.9 R	732
							1997 02 06.27978	06 15 27.97	+33 16 39.9	17.4 R	732
							1997 02 07.16762	08 09 38.16	+24 28 40.7	18.2 R	732

M.P.C. 29061

1997 FEB. 22

(6643)	1997 02 07.17324	08 09 37.82	+24 28 41.8	17.9 R	732
(6643)	1997 02 08.24039	08 08 48.10	+24 30 28.1	17.8 R	732
(6643)	1997 02 08.24792	08 08 47.68	+24 30 28.7	17.9 R	732
(6643)	1997 02 08.25567	08 08 47.48	+24 30 29.4	18.5 R	732
(6656)	1997 02 01.18212	07 27 44.51	+24 31 27.9	17.1 R	732
(6656)	1997 02 01.18840	07 27 44.23	+24 31 28.3	17.1 R	732
(6656)	1997 02 01.19454	07 27 43.96	+24 31 28.0	17.0 R	732
(6656)	1997 02 02.09788	07 27 04.53	+24 32 44.6	17.1 R	732
(6656)	1997 02 02.10405	07 27 04.26	+24 32 44.6	17.0 R	732
(6656)	1997 02 02.10972	07 27 04.04	+24 32 44.8	17.1 R	732
(6656)	1997 02 02.11904	07 27 03.57	+24 32 45.6	16.9 R	732
(6656)	1997 02 02.14512	07 27 02.42	+24 32 48.3	17.1 R	732
(6656)	1997 02 02.15564	07 27 01.91	+24 32 49.7	17.4 R	732
(6656)	1997 02 02.21921	07 26 59.07	+24 32 54.7	17.2 R	732
(6656)	1997 02 02.22552	07 26 58.71	+24 32 55.5	17.2 R	732
(7407)	1997 02 01.16243	07 35 15.50	+21 25 30.5	17.3 R	732
(7407)	1997 02 01.16825	07 35 15.25	+21 25 31.7	17.4 R	732
(7407)	1997 02 01.17412	07 35 14.87	+21 25 32.3	17.5 R	732
(7407)	1997 02 02.16486	07 34 27.29	+21 26 22.1	18.0 R	732
(7407)	1997 02 02.17081	07 34 26.97	+21 26 22.4	17.8 R	732
(7407)	1997 02 02.17617	07 34 26.80	+21 26 22.0	17.5 R	732

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Observer J. Kazerzak

Measurer R. DeMartino

0.18-m $f/7$ refractor + CCD

GSC

(219)	1997 01 08.38992	05 59 14.85	+06 23 29.8		748
(387)	1997 02 15.11325	04 13 59.73	+06 10 41.8		748
(387)	1997 02 15.14146	04 14 00.36	+06 10 54.4		748
(511)	1997 02 15.03069	03 47 49.63	+11 28 30.3		748
(511)	1997 02 15.04468	03 47 50.33	+11 28 38.4		748
(928)	1997 02 15.12672	03 41 12.40	+03 44 10.8		748
(928)	1997 02 15.16830	03 41 14.08	+03 44 33.0		748
(1660)	1997 02 15.05863	04 24 41.70	-04 26 29.1		748
(1660)	1997 02 15.15471	04 24 49.28	-04 25 42.3		748

801 Oak Ridge

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Cambridge, MA 02138, U.S.A. [mccrosky@cfa.harvard.edu]

Observers R. E. McCrosky, J. Degnan, M. K. Lohmiller, J. Zajac

1.5-m reflector + CCD

GSC

1978 RN ₅	1997 02 10.02981	02 41 57.20	+28 11 49.0		801
1978 RN ₅	1997 02 10.04167	02 41 58.51	+28 11 52.2		801
1989 VQ	1993 10 12.36645	05 40 44.60	+23 00 25.1		801
1990 UP ₁₁	1996 12 09.34720	08 39 49.03	+23 11 33.1		801
1990 VY ₁₃	1995 12 22.95997	00 43 36.67	+02 25 02.1	r	801
1990 VY ₁₃	1995 12 22.98091	00 43 37.26	+02 25 07.2	r	801
1990 VU ₁₄	1996 12 09.40384	08 36 33.29	+23 55 23.0	W	801
1992 CU	1994 09 03.20199	22 34 50.36	-23 16 40.2		801

1995 DJ ₁	1996 09 15.14591	22 09 25.78	-09 42 08.9		p 801
1996 WY	1992 09 25.17811	23 27 56.56	-17 47 52.0	17	801
1996 WY	1992 09 25.19448	23 27 55.63	-17 47 52.2		801
1997 BJ ₅	1997 02 10.22721	09 18 02.34	+13 00 41.3		801
1997 BJ ₅	1997 02 10.36148	09 17 55.48	+13 00 54.3		801
1997 BJ ₅	1997 02 10.37615	09 17 54.72	+13 00 56.8		801
4206 P-L	1987 02 25.33254	11 32 17.22	+04 30 57.1		801

807 Cerro Tololo

B. P. Schmidt, Australian National University, Mt. Stromlo Observatory, Private
Bag, Weston Creek P.O., ACT 2611, Australia

3.6-m reflector + CCD

1996 TK ₆₆	* 1996 10 09.23553	00 19 21.26	-00 16 53.5	23.6 R	807
1996 TK ₆₆	1996 10 09.24304	00 19 21.25	-00 16 53.6		807
1996 TK ₆₆	1996 10 10.14855	00 19 17.37	-00 17 17.3		807

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O. Pizarro, M. Lindgren

Measurers E. W. Elst, O. Hernius

1.0-m Schmidt

1982 UE ₇	1996 05 19.09444	14 31 05.53	-13 23 15.6	18.6	4 809
1982 UE ₇	1996 05 19.10764	14 31 05.14	-13 23 13.6		4 809
1982 UE ₇	1996 05 19.12083	14 31 04.56	-13 23 09.4		4 809
1984 WM ₁	1996 02 28.30486	13 19 00.48	-13 40 05.1		8 809
1984 WM ₁	1996 02 29.29931	13 18 37.19	-13 42 08.3		8 809
1985 UH ₂	1992 09 03.27222	00 11 04.19	-05 03 39.7		3 809
1986 WV ₁	1996 07 14.27639	22 09 42.34	-10 40 10.1	18.5	4 809
1986 WV ₁	1996 07 14.28958	22 09 42.02	-10 40 12.2		4 809
1986 WV ₁	1996 07 14.30278	22 09 41.63	-10 40 13.9		4 809
1987 DP ₆	1992 04 04.06979	09 55 36.00	+15 18 03.7	15.7	8 809
1992 EC ₁₈	1996 04 17.17778	14 17 07.39	-14 24 26.3	18.4	4 809
1992 EC ₁₈	1996 04 17.19097	14 17 06.63	-14 24 21.7		4 809
1992 EC ₁₈	1996 04 17.20417	14 17 05.92	-14 24 17.8		4 809
1992 SP ₂₆	1994 02 13.23750	11 06 27.61	+12 01 36.5	18.5	4 809
1992 SP ₂₆	1994 02 13.24931	11 06 26.97	+12 01 40.4		4 809
1992 SP ₂₆	1994 02 13.26111	11 06 26.25	+12 01 46.4		4 809
1993 SA ₆	1996 03 26.25278	14 24 26.64	-12 06 12.0	18.6	4 809
1993 SA ₆	1996 03 26.26458	14 24 26.22	-12 06 09.2		4 809
1993 SA ₆	1996 03 26.27639	14 24 25.83	-12 06 07.8		4 809
1993 SA ₆	1996 04 17.17778	14 09 46.30	-10 38 13.1	18.6	4 809
1993 SA ₆	1996 04 17.19097	14 09 45.63	-10 38 09.0		4 809
1993 SA ₆	1996 04 17.20417	14 09 44.92	-10 38 06.0		4 809
1993 TM ₁₂	1992 05 03.23889	16 09 03.21	-16 58 34.1	18.5	4 809
1993 TM ₁₂	1992 05 03.25208	16 09 02.49	-16 58 32.0		4 809
1993 TM ₁₂	1992 05 03.26528	16 09 01.63	-16 58 28.6		4 809

1993 TE ₄₈	* 1993 10 12.15868	01 21 51.64	+07 53 33.0	18.4	7 809
1993 TE ₄₈	1993 10 12.17951	01 21 50.26	+07 53 25.1		7 809
1993 TE ₄₈	1993 10 12.20035	01 21 48.86	+07 53 18.6		7 809
1993 TE ₄₈	1993 10 22.27743	01 11 27.54	+06 56 39.3		7 809
1993 TE ₄₈	1993 10 22.29826	01 11 26.18	+06 56 33.7		7 809
1993 TE ₄₈	1993 10 22.31910	01 11 24.13	+06 56 28.4		7 809
1993 US	1993 10 12.15868	01 25 52.13	+07 08 27.3	18.5	7 809
1993 US	1993 10 12.17951	01 25 51.02	+07 08 19.7		7 809
1993 US	1993 10 12.20035	01 25 49.91	+07 08 12.2		7 809
1993 US	1993 10 22.27743	01 17 26.17	+06 11 25.5		7 809
1993 US	1993 10 22.29826	01 17 24.91	+06 11 21.2		7 809
1993 US	1996 03 26.25278	14 16 10.24	-11 49 25.4	18.5	4 809
1993 US	1996 03 26.26458	14 16 09.86	-11 49 23.9		4 809
1993 US	1996 03 26.27639	14 16 09.39	-11 49 21.5		4 809
1994 EJ ₇	1994 02 13.27847	11 40 28.73	+11 50 24.5	18.3	4 809
1994 EJ ₇	1994 02 13.29028	11 40 28.19	+11 50 29.9		4 809
1994 EJ ₇	1994 02 13.30208	11 40 27.69	+11 50 35.4		4 809
1994 XJ ₁	1996 05 22.06597	14 30 38.72	-13 23 25.4		4 809
1994 XJ ₁	1996 05 22.07917	14 30 37.94	-13 23 24.1		4 809
1994 XJ ₁	1996 05 22.09236	14 30 37.02	-13 23 21.1		4 809
1996 BS ₁₇	1996 02 28.30486	13 26 36.89	-13 26 19.6		8 809
1996 BS ₁₇	1996 02 29.29931	13 26 25.13	-13 29 09.3		8 809
1996 DR ₇	* 1996 02 28.30486	13 13 58.12	-12 13 33.5		8 809
1996 DR ₇	1996 02 29.29931	13 13 39.91	-12 16 06.8		8 809
1996 TN ₁₉	1992 07 30.29444	21 46 14.70	-14 54 37.9	18.2	3 809
1996 TN ₁₉	1992 07 30.30486	21 46 14.19	-14 54 39.7		3 809
1996 TN ₁₉	1992 07 30.31528	21 46 13.70	-14 54 42.5		3 809
1996 VF ₉	1994 02 12.24375	10 55 10.52	+10 15 13.0	18.3	4 809
1996 VF ₉	1994 02 12.25556	10 55 09.77	+10 15 17.5		4 809
1996 VF ₉	1994 02 12.26736	10 55 09.14	+10 15 21.8		4 809
(937)	1996 02 28.30486	13 13 01.70	-12 48 32.8		8 809
(937)	1996 02 29.29931	13 12 41.20	-12 47 29.6		8 809
(1825)	1996 02 28.30486	13 07 39.33	-13 14 47.5		8 809
(1825)	1996 02 29.29931	13 07 13.90	-13 14 09.6		8 809
(2475)	1996 02 28.30486	13 17 58.32	-12 33 32.8		8 809
(2475)	1996 02 29.29931	13 17 39.40	-12 30 47.6		8 809
(3558)	1996 02 28.30486	13 11 18.90	-15 28 01.6		8 809
(3558)	1996 02 29.29931	13 10 50.48	-15 33 08.1		8 809
(3722)	1996 02 28.30486	13 13 06.52	-14 47 43.5		8 809
(3722)	1996 02 29.29931	13 12 40.91	-14 45 51.8		8 809
(4152)	1996 02 28.30486	13 17 36.23	-14 01 12.5		8 809
(4152)	1996 02 29.29931	13 17 24.11	-13 56 20.7		8 809
(4715)	1996 02 28.30486	13 22 47.38	-15 08 41.7		8 809
(4715)	1996 02 29.29931	13 22 28.74	-15 09 38.1		8 809
(4744)	1996 02 28.30486	13 17 21.80	-13 10 05.5		8 809
(4744)	1996 02 29.29931	13 17 03.28	-13 15 07.8		8 809
(7360)	1996 02 28.30486	13 17 21.71	-15 47 16.9		8 809
(7360)	1996 02 29.29931	13 17 10.62	-15 51 28.0		8 809

0.37-m $f/6$ reflector + CCD
GSC

1990 JN ₁	1996 10 05.23726	02 18 22.93	+14 48 16.7	17.0 R	816
1990 JN ₁	1996 10 05.24095	02 18 22.79	+14 48 15.9	17.0 R	816
1990 JN ₁	1996 10 05.24476	02 18 22.62	+14 48 15.2	17.0 R	816
1992 RZ ₅	1996 10 05.21678	01 29 54.75	+04 42 37.2	18.3 R	816
1992 RZ ₅	1996 10 05.22052	01 29 54.53	+04 42 36.2	18.2 R	816
1992 RZ ₅	1996 10 05.22389	01 29 54.33	+04 42 35.1	18.3 R	816
1992 SK ₂₆	1996 10 05.21678	01 29 43.59	+04 47 34.5	16.9 R	816
1992 SK ₂₆	1996 10 05.22052	01 29 43.42	+04 47 32.8	16.8 R	816
1992 SK ₂₆	1996 10 05.22389	01 29 43.26	+04 47 31.2	16.8 R	816
1992 UQ	1996 09 21.27332	02 02 51.35	+09 18 07.8	17.0 R	816
1992 UQ	1996 09 21.27686	02 02 51.22	+09 18 06.9	17.0 R	816
1992 UQ	1996 09 21.27996	02 02 51.12	+09 18 05.7	17.0 R	816
1992 UQ	1996 09 21.28429	02 02 50.97	+09 18 04.4	17.0 R	816
1992 UQ	1996 11 17.12633	01 20 23.80	+03 51 02.9	16.9 R	816
1992 UQ	1996 11 17.12991	01 20 23.70	+03 51 02.4	17.0 R	816
1992 UQ	1996 11 17.14022	01 20 23.41	+03 51 00.7	17.0 R	816
1992 UQ	1996 11 17.14435	01 20 23.30	+03 50 59.9	17.0 R	816
1993 FK ₈₀	1996 09 21.32774	02 17 43.17	+11 39 18.5	17.1 R	816
1993 FK ₈₀	1996 09 21.33118	02 17 43.09	+11 39 18.1	17.1 R	816
1993 FK ₈₀	1996 09 21.33457	02 17 43.01	+11 39 18.1	17.1 R	816
1993 FK ₈₀	1996 09 21.33933	02 17 42.92	+11 39 18.2	17.0 R	816
1993 FK ₈₀	1996 10 06.26845	02 10 13.48	+11 24 46.8	17.1 R	816
1993 FK ₈₀	1996 10 06.27164	02 10 13.35	+11 24 46.4	17.0 R	816
1993 FK ₈₀	1996 10 06.27881	02 10 13.05	+11 24 45.9	17.1 R	816
1993 FK ₈₀	1996 10 06.28200	02 10 12.93	+11 24 45.4	17.1 R	816
1994 GD ₉	1996 10 05.19509	01 28 20.01	+08 40 41.8	18.4 R	816
1994 GD ₉	1996 10 05.19847	01 28 19.83	+08 40 39.2	18.4 R	816
1994 GD ₉	1996 10 05.20176	01 28 19.64	+08 40 36.6	18.4 R	816
1995 EN	1996 09 21.23428	00 42 09.54	+03 19 49.0	17.9 R	816
1995 EN	1996 09 21.24350	00 42 08.96	+03 19 47.0	18.0 R	816
1995 EN	1996 09 21.30735	00 42 04.79	+03 19 33.9	18.0 R	816
1995 EN	1996 09 21.35351	00 42 01.78	+03 19 23.9	18.0 R	816
1996 OJ	1996 10 18.03618	20 52 21.92	-18 41 21.9	19.0 R	816
1996 OJ	1996 10 18.04088	20 52 22.17	-18 41 20.9	19.0 R	816
1996 PB ₁	1996 10 18.08817	22 17 11.91	-09 48 29.1	18.4 R	816
1996 PB ₁	1996 10 18.09130	22 17 11.98	-09 48 28.6	18.7 R	816
1996 PB ₁	1996 11 05.00267	22 29 39.40	-08 20 21.0	19.2 R	816
1996 PB ₁	1996 11 05.00624	22 29 39.60	-08 20 19.4	19.3 R	816
1996 PK ₁	1996 09 21.17686	22 19 34.62	-12 45 05.4	19.2 R	816
1996 PK ₁	1996 09 21.17993	22 19 34.49	-12 45 05.7	18.9 R	816
1996 PK ₁	1996 09 21.18677	22 19 34.26	-12 45 08.0	18.7 R	816
1996 PK ₁	1996 09 21.19132	22 19 34.12	-12 45 09.2	18.7 R	816
1996 QN ₁	1996 11 05.05706	22 25 40.78	-06 16 39.1	19.0 R	816
1996 QN ₁	1996 11 05.06177	22 25 40.87	-06 16 38.9	19.1 R	816
1996 QN ₁	1996 11 05.07039	22 25 40.99	-06 16 36.9	18.7 R	816
1996 QN ₁	1996 11 05.07421	22 25 41.07	-06 16 36.4	18.8 R	816
1996 QN ₁	1996 11 16.97331	22 30 34.04	-05 31 04.2	19.0 R	816
1996 QN ₁	1996 11 16.97683	22 30 34.15	-05 31 03.0	19.0 R	816
1996 QN ₁	1996 11 16.98449	22 30 34.39	-05 31 01.0	19.4 R	816
1996 QN ₁	1996 11 16.98815	22 30 34.53	-05 30 59.9	19.2 R	816

816 Rand Observatory

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[GRViscome@compuserve.com]

M.P.C. 29063

1997 FEB. 22

1996 SR	1996 11 05.03940	22 28 26.09	-11 33 48.2	19.7 R	816
1996 SR	1996 11 05.04288	22 28 26.24	-11 33 48.8	19.6 R	816
1996 TB ₁	1996 10 18.13772	01 33 48.72	+10 00 22.5	18.2 R	816
1996 TB ₁	1996 10 18.14102	01 33 48.53	+10 00 20.8	18.2 R	816
1996 TB ₁	1996 10 18.14758	01 33 48.17	+10 00 19.6	18.3 R	816
1996 TB ₁	1996 10 18.15172	01 33 47.94	+10 00 17.8	18.4 R	816
1996 TY ₄	1996 11 17.05507	00 31 03.70	+06 21 42.6	18.6 R	816
1996 TY ₄	1996 11 17.06108	00 31 03.56	+06 21 42.9	18.6 R	816
1996 TY ₄	1996 11 17.07092	00 31 03.29	+06 21 44.2	18.5 R	816
1996 TY ₄	1996 11 17.07535	00 31 03.15	+06 21 43.2	18.4 R	816
1996 TB ₅	1996 11 05.10383	01 24 47.84	+05 39 25.0	18.5 R	816
1996 TB ₅	1996 11 05.10712	01 24 47.74	+05 39 23.0	18.3 R	816
1996 TB ₅	1996 11 05.11098	01 24 47.62	+05 39 21.1	18.5 R	816
1996 TB ₅	1996 11 05.11397	01 24 47.51	+05 39 19.1	18.3 R	816
1996 TB ₅	1996 11 17.12633	01 20 03.84	+03 55 15.5	18.7 R	816
1996 TB ₅	1996 11 17.12991	01 20 03.77	+03 55 14.2	18.8 R	816
1996 TB ₅	1996 11 17.14022	01 20 03.59	+03 55 09.8	18.7 R	816
1996 TB ₅	1996 11 17.14435	01 20 03.52	+03 55 07.5	18.7 R	816
1125 T-2	1996 10 05.28598	02 29 51.74	+14 19 00.7	I 816	
1125 T-2	1996 10 05.28941	02 29 51.60	+14 18 59.9	I 816	
1125 T-2	1996 10 05.29978	02 29 51.25	+14 18 58.1	18.2 R	816
2216 T-2	1996 10 05.26115	02 26 29.38	+14 28 32.6	17.6 R	816
2216 T-2	1996 10 05.26494	02 26 29.25	+14 28 31.9	17.7 R	816
2216 T-2	1996 10 05.26828	02 26 29.10	+14 28 31.5	17.6 R	816
3357 T-2	1996 11 17.22066	03 33 25.46	+19 34 41.7	16.4 R	816
3357 T-2	1996 11 17.22381	03 33 25.25	+19 34 41.1	16.4 R	816
3357 T-2	1996 11 17.22773	03 33 24.96	+19 34 40.5	16.5 R	816
(1128)	1996 09 21.23428	00 42 47.73	+03 13 23.0	14.8 R	816
(1128)	1996 09 21.24350	00 42 47.29	+03 13 20.3	14.8 R	816
(1128)	1996 09 21.30735	00 42 44.23	+03 13 01.9	14.8 R	816
(1128)	1996 09 21.35351	00 42 42.02	+03 12 48.6	14.7 R	816
(5974)	1996 09 21.29698	00 52 47.87	+04 13 01.2	18.8 R	816
(5974)	1996 09 21.31405	00 52 47.16	+04 12 56.5	18.7 R	816
(5974)	1996 09 21.31912	00 52 46.95	+04 12 55.1	18.7 R	816
(7264)	1996 09 21.23428	00 42 31.92	+03 15 09.2	18.0 R	816
(7264)	1996 09 21.24350	00 42 31.39	+03 15 05.5	18.4 R	816
(7264)	1996 09 21.30735	00 42 27.79	+03 14 41.4	18.5 R	816
(7264)	1996 09 21.35351	00 42 25.19	+03 14 23.4	18.2 R	816
(7314)	1996 09 21.21107	01 08 03.83	+06 00 01.7	17.9 R	816
(7314)	1996 09 21.21422	01 08 03.73	+06 00 00.8	17.8 R	816
(7314)	1996 09 21.21784	01 08 03.59	+05 59 59.8	17.9 R	816
(7314)	1996 09 21.22228	01 08 03.42	+05 59 58.5	17.9 R	816

817 Sudbury

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0.41-m Schmidt-Cassegrain + CCD
GSC

1995 UD ₂	1997 01 30.11473	08 30 05.47	+05 41 13.8	17.1 R	817
1995 UD ₂	1997 01 30.12499	08 30 04.89	+05 41 15.9	17.0 R	817
1995 UD ₂	1997 01 30.14960	08 30 03.46	+05 41 20.5	17.2 R	817
1996 VF ₃	1997 01 24.06828	02 41 48.03	+22 09 34.2	17.2 R	817
1996 VF ₃	1997 01 24.08172	02 41 49.11	+22 09 41.7	17.2 R	817

1996 VF ₃	1997 01 24.09470	02 41 50.15	+22 09 47.6	16.9 R	817
1997 BQ	1997 01 22.06829	11 06 44.55	+61 52 43.1	16.9 R	817
1997 BQ	1997 01 24.16043	11 22 25.06	+63 30 25.2	16.6 R	817
1997 BQ	1997 01 24.16777	11 22 28.68	+63 30 46.5	16.6 R	817
1997 BQ	1997 01 24.17414	11 22 31.55	+63 31 04.3	16.7 R	817
1997 BR	1997 01 24.18383	10 12 16.95	+25 27 18.9	17.1 R	817
1997 BR	1997 01 24.18988	10 12 16.80	+25 27 33.5	16.5 R	817
1997 BR	1997 01 24.20155	10 12 16.48	+25 28 03.2	16.9 R	817
1997 BR	1997 01 24.21027	10 12 16.25	+25 28 26.3	16.7 R	817
1997 BR	1997 01 29.17480	10 09 43.34	+29 13 29.1	16.8 R	817
1997 BR	1997 01 29.18050	10 09 43.07	+29 13 46.0	16.8 R	817
1997 BR	1997 01 29.18407	10 09 42.89	+29 13 56.2	16.9 R	817
1997 BR	1997 01 29.19039	10 09 42.59	+29 14 14.3	16.7 R	817
1997 BR	1997 01 29.20186	10 09 42.05	+29 14 47.5	16.6 R	817
1997 BH ₁	* 1997 01 29.11176	08 47 20.00	+18 30 43.4	17.1 R	817
1997 BH ₁	1997 01 29.16017	08 47 17.06	+18 31 02.9	17.1 R	817
1997 BH ₁	1997 01 30.07227	08 46 23.38	+18 37 02.5	17.2 R	817
1997 BH ₁	1997 01 30.07644	08 46 23.15	+18 37 04.4	17.2 R	817
1997 BH ₁	1997 01 30.09561	08 46 21.96	+18 37 12.2	17.2 R	817
1997 BH ₁	1997 01 30.09940	08 46 21.73	+18 37 13.7	17.4 R	817
1997 BJ ₁	* 1997 01 29.11176	08 47 27.93	+18 37 46.8	17.8 R	817
1997 BJ ₁	1997 01 29.16017	08 47 24.76	+18 38 05.4	17.5 R	817
1997 BJ ₁	1997 01 30.07644	08 46 26.17	+18 44 22.3	17.5 R	817
1997 BJ ₁	1997 01 30.09940	08 46 24.67	+18 44 32.2	18.0 R	817
1997 BK ₁	* 1997 01 29.12281	08 46 44.80	+18 50 59.3	17.7 R	817
1997 BK ₁	1997 01 29.16844	08 46 42.05	+18 51 12.9	17.9 R	817
1997 BK ₁	1997 01 30.08275	08 45 48.58	+18 55 35.6	17.0 R	817
1997 BK ₁	1997 01 30.10330	08 45 47.35	+18 55 41.6	17.0 R	817
1997 BK ₁	1997 01 30.15290	08 45 44.36	+18 55 56.1	17.3 R	817
1997 BK ₁	1997 01 30.16453	08 45 43.65	+18 55 59.2	17.5 R	817
1997 BL ₁	* 1997 01 29.12281	08 46 48.64	+19 01 28.6	18.8 R	817
1997 BL ₁	1997 01 29.16844	08 46 45.69	+19 01 18.2		817
1997 BL ₁	1997 01 30.08275	08 45 47.27	+18 58 22.1		817
1997 BL ₁	1997 01 30.10330	08 45 45.79	+18 58 18.4		817
1997 BL ₁	1997 01 30.15290	08 45 42.56	+18 58 09.6		817
1997 BL ₁	1997 01 30.16453	08 45 41.82	+18 58 07.2		817
1997 BM ₁	* 1997 01 29.16844	08 47 36.12	+19 01 54.0	17.6 R	817
1997 BM ₁	1997 01 30.08823	08 46 42.17	+19 04 36.2	17.9 R	817
1997 BM ₁	1997 01 30.10742	08 46 41.01	+19 04 39.6	17.8 R	817
(7311)	1997 01 24.10260	07 15 51.85	+25 38 01.3	16.5 R	817
(7311)	1997 01 24.11485	07 15 51.18	+25 38 03.6	16.6 R	817
(7311)	1997 01 24.11991	07 15 50.84	+25 38 03.5	17.2 R	817

861 Barao Geraldo

P. R. Holvorcem, Departamento de Matematica/IMECC, Universidade Estadual de
Campiñas, Campiñas, SP BR-13081-970, Brazil [holvorce@ime.unicamp.br]Observers P. R. Holvorcem, C. D. Holvorcem
Measurer P. R. Holvorcem0.20-m f/6.3 Schmidt-Cassegrain + CCD
GSC

1997 CO ₅	1997 02 08.10010	09 06 22.74	+17 45 11.0	17.3 R	861
1997 CO ₅	1997 02 08.10947	09 06 21.73	+17 44 58.5	16.8 R	861
1997 CO ₅	1997 02 08.13215	09 06 19.40	+17 44 26.6	16.9 R	861

1997 CO ₅	1997 02 11.20215	09 01 44.54	+16 33 15.5	16.9 R	861
1997 CO ₅	1997 02 11.25969	09 01 39.59	+16 31 58.0	17.2 R	F 861
1997 CZ ₅	1997 02 08.00140	04 29 11.93	+19 26 07.1	15.2 R	861
1997 CZ ₅	1997 02 08.01170	04 29 13.46	+19 25 49.0	15.1 R	861
1997 CZ ₅	1997 02 08.02170	04 29 14.93	+19 25 31.7	15.1 R	861
1997 CZ ₅	1997 02 08.02792	04 29 15.86	+19 25 21.2	15.1 R	861
1997 CZ ₅	1997 02 08.06269	04 29 20.98	+19 24 20.8	15.1 R	861
1997 CZ ₅	1997 02 11.06799	04 36 55.30	+18 00 14.6	15.5 R	861
1997 CZ ₅	1997 02 11.07340	04 36 56.07	+18 00 04.5	15.6 R	861
1997 CZ ₅	1997 02 11.08255	04 36 57.46	+17 59 49.0	15.6 R	861
(2750)	1997 01 18.31003	08 51 54.97	+27 36 41.8	15.2 R	F 861
(4179)	1997 01 18.19433	08 10 32.59	+19 44 09.4	13.2 R	861
(4179)	1997 01 18.19982	08 10 32.16	+19 44 10.8	13.2 R	861
(4179)	1997 01 18.23977	08 10 29.10	+19 44 22.4	13.3 R	861
(4179)	1997 02 04.12951	07 58 57.11	+20 40 05.1	14.0 R	861
(4179)	1997 02 04.18794	07 58 55.62	+20 40 09.8	14.2 R	861
(4179)	1997 02 05.04278	07 58 43.06	+20 41 30.5	14.6 R	861
(4179)	1997 02 05.13209	07 58 41.10	+20 41 38.2	14.7 R	861
(7341)	1997 02 05.25752	15 15 36.62	-36 43 36.4		861
(7341)	1997 02 05.27855	15 15 31.62	-36 43 47.1	16.9 R	861
(7341)	1997 02 05.29905	15 15 26.42	-36 43 57.1	16.5 R	861

867 Saji Observatory

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[sajinet@infosakyu.or.jp, KYI03040@niftyserve.or.jp]

Observers M. Yamanishi, A. Miyamoto, M. Aimoto, T. Oribe

1.03-m $f/4.2$ reflector + CCD

GSC

1996 VE ₁	1997 01 12.60719	03 27 22.64	+10 23 49.3	19.1 V	867
1996 VE ₁	1997 01 12.63178	03 27 23.01	+10 23 58.1	18.9 V	867
1996 VE ₁	1997 02 05.56843	03 40 47.80	+13 06 43.8	20.4 V	867
1996 VE ₁	1997 02 05.57491	03 40 48.10	+13 06 48.6		867
1996 VE ₁	1997 02 05.58475	03 40 48.61	+13 06 49.6		867
1996 XS ₂₅	1997 01 12.61274	06 35 20.65	+23 18 43.6	18.4 V	867
1996 XS ₂₅	1997 01 12.63595	06 35 19.40	+23 18 49.6	18.7 V	867
1996 XS ₂₅	1997 01 12.66876	06 35 17.68	+23 18 58.3	18.5 V	867
1996 XS ₂₅	1997 02 09.57549	06 16 54.61	+25 05 55.2	19.4 V	867
1996 XS ₂₅	1997 02 09.62803	06 16 53.39	+25 06 07.3		867
1996 XS ₂₅	1997 02 09.66993	06 16 52.31	+25 06 14.3	19.5 V	867
1996 XV ₃₀	1997 02 09.60581	06 36 04.36	+26 08 12.8	19.6 V	867
1996 XV ₃₀	1997 02 09.64777	06 36 03.56	+26 08 22.6	19.6 V	867
1996 XV ₃₀	1997 02 09.68718	06 36 02.83	+26 08 32.8	19.6 V	867
1996 XL ₃₂	1997 02 09.61356	06 42 29.12	+21 57 19.9	20.0 V	867
1996 XL ₃₂	1997 02 09.65211	06 42 28.02	+21 57 22.8	20.0 V	867
1996 XL ₃₂	1997 02 09.69204	06 42 26.95	+21 57 25.7		867
1997 AQ ₁₆	1997 01 19.70789	06 46 37.08	+22 59 26.4	17.9 V	867
1997 AQ ₁₆	1997 01 19.74018	06 46 35.18	+22 59 29.0	18.3 V	867
1997 AQ ₁₆	1997 01 19.75141	06 46 34.41	+22 59 28.8	18.5 V	867
1997 AQ ₁₆	1997 02 09.64297	06 33 26.52	+23 15 30.1	18.7 V	867
1997 AQ ₁₆	1997 02 09.68318	06 33 25.88	+23 15 30.6	18.5 V	867
(4447)	1997 02 09.70743	09 50 06.98	+12 48 16.0	16.7 V	867
(4447)	1997 02 09.74308	09 50 05.14	+12 48 27.0	16.8 V	867

886 Susono

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

0.25-m $f/6.3$ reflector + CCD

GSC

1990 VY ₁₃	1997 01 29.57342	08 19 39.57	+24 45 48.1	16.5 V	886
1990 VY ₁₃	1997 01 29.58112	08 19 39.14	+24 45 50.1		886
1990 VY ₁₃	1997 02 01.49879	08 17 08.65	+24 54 18.2		886
1990 VY ₁₃	1997 02 01.50653	08 17 08.26	+24 54 20.4		886
1992 CU	1997 01 28.60168	09 22 20.56	+27 35 45.7	16.0 V	886
1992 CU	1997 01 28.60943	09 22 20.12	+27 35 47.6		886
1992 CU	1997 01 29.53713	09 21 33.25	+27 42 14.4		886
1992 CU	1997 01 29.54484	09 21 32.88	+27 42 17.9		886
1992 FJ ₁	1997 02 04.53028	08 15 10.56	+28 36 31.7	16.5 V	886
1992 FJ ₁	1997 02 04.53774	08 15 10.06	+28 36 30.6		886
1992 FJ ₁	1997 02 06.54552	08 13 10.08	+28 30 23.4		886
1992 FJ ₁	1997 02 06.55324	08 13 09.64	+28 30 22.1		886
1992 SR ₁	1997 02 04.57260	09 43 41.22	+07 33 06.3	16.5 V	886
1992 SR ₁	1997 02 04.58039	09 43 40.71	+07 33 08.0		886
1992 SR ₁	1997 02 06.56165	09 41 31.63	+07 36 36.0		886
1992 SR ₁	1997 02 06.56926	09 41 31.24	+07 36 35.5		886
1992 UE ₄	1997 01 18.61957	08 21 42.37	+23 00 25.3	16.5 V	886
1992 UE ₄	1997 01 18.62706	08 21 41.80	+23 00 26.7		886
1992 UE ₄	1997 01 28.61730	08 10 45.62	+23 52 09.9		886
1992 UE ₄	1997 01 28.62493	08 10 45.12	+23 52 09.8		886
1992 UX ₅	1997 02 01.56518	09 49 40.09	+09 29 14.3	16.0 V	886
1992 UX ₅	1997 02 01.57304	09 49 39.64	+09 29 17.4		886
1992 UX ₅	1997 02 04.54160	09 47 02.35	+09 51 59.6		886
1992 UX ₅	1997 02 04.54973	09 47 01.96	+09 52 02.4		886
1992 UM ₆	1997 02 04.54549	09 43 51.54	+11 27 54.4	16.5 V	886
1992 UM ₆	1997 02 04.55355	09 43 51.09	+11 27 54.9		886
1992 UM ₆	1997 02 06.55774	09 41 42.51	+11 33 42.2		886
1992 UM ₆	1997 02 06.56547	09 41 42.05	+11 33 45.0		886
1995 YA	1997 01 30.55734	09 49 42.55	+23 40 35.6	16.5 V	886
1995 YA	1997 01 30.56487	09 49 42.14	+23 40 38.8		886
1995 YA	1997 02 01.55124	09 48 07.12	+23 52 08.9		886
1995 YA	1997 02 01.55888	09 48 06.75	+23 52 11.6		886
4221 T-2	1997 01 28.63658	09 21 26.94	+16 47 48.6	16.5 V	886
4221 T-2	1997 01 28.64410	09 21 26.42	+16 47 50.3		886
4221 T-2	1997 01 29.55254	09 20 42.44	+16 51 58.8		886
4221 T-2	1997 01 29.56149	09 20 42.00	+16 52 02.5		886

894 Otomo

S. Otomo, Kiyosato 3545-3902, Takane, Kitakoma-Gun, Yamanashi-Ken, 407-03

Japan

0.25-m $f/3.4$ reflector

PPM

1985 UH ₂	1996 12 06.65035	04 28 19.44	+22 19 35.7	17.0	894
1985 UH ₂	1996 12 08.63819	04 26 07.14	+22 18 09.6		894
1985 UH ₂	1996 12 08.65208	04 26 06.28	+22 18 08.0		894
1985 UH ₂	1996 12 11.65035	04 22 53.46	+22 15 50.0		894
1996 XB ₃₃	1996 12 03.55174	04 30 28.99	+18 48 58.7	16.5	894
1996 XB ₃₃	1996 12 03.56458	04 30 27.98	+18 49 01.5		894

1996 XB ₃₃	1996 12 08.61111	04 24 44.95	+19 06 11.5	16.0	894
1996 XB ₃₃	1996 12 08.62436	04 24 43.96	+19 06 14.9		894
1996 XB ₃₃	1996 12 11.62465	04 21 29.00	+19 16 35.5		894
1996 XB ₃₃	1996 12 11.63715	04 21 28.18	+19 16 38.3		894
4314 T-2	1996 12 03.55174	04 31 14.33	+18 44 38.3	17.0	894
4314 T-2	1996 12 03.56458	04 31 13.44	+18 44 37.4		894

897 YGCO Chiyoda Station

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[kojitaku@scorpius.bekkoame.or.jp]

0.25-m $f/6.0$ reflector + CCD

GSC

1997 CZ ₅	1997 02 09.46638	04 32 53.70	+18 44 13.8	15.4 R	897
1997 CZ ₅	1997 02 09.46939	04 32 54.12	+18 44 08.7		897
1997 CT ₁₉	* 1997 02 11.71300	09 18 29.21	+12 52 46.2	17.7 R	897
1997 CT ₁₉	1997 02 11.75125	09 18 26.84	+12 52 56.3		897
1997 CT ₁₉	1997 02 12.47263	09 17 45.32	+12 56 15.3		897
1997 CT ₁₉	1997 02 12.50138	09 17 43.69	+12 56 22.1	17.2 R	897
(756)	1996 12 02.42584	22 04 41.07	+01 54 21.9		897
(756)	1996 12 02.43973	22 04 41.75	+01 54 20.2		897
(3995)	1996 11 19.49560	23 34 05.38	-15 49 42.8	16.3 R	897
(3995)	1996 11 19.50949	23 34 05.74	-15 49 36.8		897
(3995)	1996 12 02.55647	23 41 42.27	-13 57 44.0		897
(3995)	1996 12 02.56661	23 41 42.63	-13 57 40.0		897
(3995)	1996 12 08.45039	23 46 16.95	-13 01 11.9		897
(3995)	1996 12 08.47123	23 46 18.00	-13 01 00.6		897

900 Moriyama

Y. Ikari, Katsube 626, Moriyama, Shiga-Ken, 524 Japan [ikari@mx.biwa.or.jp]

0.25-m $f/6.3$ reflector + CCD

GSC

1997 AR ₁₆	1997 01 29.69537	12 17 31.44	+05 39 49.0	16.3 V	900
1997 AR ₁₆	1997 01 29.71535	12 17 31.23	+05 39 44.5	16.3 V	900
1997 AR ₁₆	1997 02 13.65440	12 12 25.72	+04 54 11.1	16.3 V	900
1997 AR ₁₆	1997 02 13.66718	12 12 25.27	+04 54 09.0		900
1997 BQ	1997 01 29.59571	12 15 55.67	+67 21 16.3	16.8 V	900
1997 BQ	1997 01 29.62249	12 16 14.38	+67 22 18.9	16.8 V	900
1997 BR	1997 02 01.57352	10 07 01.35	+32 01 04.4	16.3 V	900
1997 BR	1997 02 01.58282	10 07 00.75	+32 01 33.5	16.1 V	900
1997 CO ₅	1997 02 08.79250	09 05 17.55	+17 28 38.4	17.2 V	900
1997 CO ₅	1997 02 08.80392	09 05 16.34	+17 28 22.4		900

901 Tajimi

T. Furuta, 17-2 Mitsuike, Kagiya-Cho, Tokai, Aichi-Ken 477, Japan

Observer T. Mizuno

Measurer T. Furuta

0.30-m $f/3.4$ hyperboloid astro-camera

GSC

1997 BU ₆	* 1997 01 31.63125	09 02 45.73	+14 36 03.2	16.5	901
1997 BU ₆	1997 01 31.64201	09 02 45.16	+14 36 04.0		901
1997 BU ₆	1997 02 03.52708	08 59 52.89	+14 39 09.5		901
1997 BU ₆	1997 02 03.55486	08 59 51.22	+14 39 10.9		901
1997 BV ₆	* 1997 01 31.63125	09 03 23.50	+16 21 38.6	16.5	901

1997 BV ₆	1997 01 31.64201	09 03 22.86	+16 21 39.7	901
1997 BV ₆	1997 02 03.52708	09 00 08.19	+16 23 20.3	901
1997 BV ₆	1997 02 03.55486	09 00 06.37	+16 23 21.3	901

905 Nachi-Katsuura Observatory

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

Observer Y. Shimizu

Measurer T. Urata

0.40-m $f/3.3$ Baker-Schmidt

GSC

1994 PO	1997 02 12.59606	10 43 30.01	+01 32 02.0	17.5	905
1994 PO	1997 02 12.60307	10 43 29.58	+01 32 00.8		905
1995 SL ₂	1997 02 09.54554	09 06 18.44	+07 33 04.7	17.5	905
1995 SL ₂	1997 02 09.55394	09 06 17.92	+07 33 09.5		905
1996 VO ₁	1997 01 29.48796	03 39 32.70	+33 32 27.7	18	905
1996 VO ₁	1997 01 29.49497	03 39 32.83	+33 32 26.0		905
1996 VO ₁	1997 01 29.50197	03 39 33.21	+33 32 27.4		905
1997 AD	1997 02 01.53166	07 20 57.84	+20 33 53.1	17.5	905
1997 AD	1997 02 01.53866	07 20 57.42	+20 33 50.6		905
1997 AT ₁	1997 02 09.49201	06 52 33.38	+23 36 46.1	16.5	905
1997 AT ₁	1997 02 09.50041	06 52 33.16	+23 36 44.7		905
1997 AT ₁	1997 02 09.50880	06 52 32.88	+23 36 42.7		905
1997 AE ₄	1997 02 01.54780	08 34 57.95	+19 14 11.3	16.5	905
1997 AE ₄	1997 02 01.56181	08 34 57.19	+19 14 16.5		905
1997 AP ₁₂	1997 02 01.52465	07 20 14.41	+20 24 02.3	18	905
1997 AC ₁₃	1997 02 03.52245	07 04 49.56	+22 08 24.2	18	905
1997 AC ₁₃	1997 02 03.53084	07 04 49.27	+22 08 24.4		905
1997 AC ₁₃	1997 02 03.53924	07 04 48.77	+22 08 23.9		905
1997 AM ₂₁	1997 02 03.54902	08 38 29.12	+23 02 40.4	18	905
1997 AM ₂₁	1997 02 03.56580	08 38 28.22	+23 02 48.7		905
1997 AN ₂₁	1997 02 01.54780	08 37 00.99	+19 40 19.5	17.5	905
1997 AN ₂₁	1997 02 01.56181	08 36 59.98	+19 40 17.8		905
1997 AP ₂₁	1997 02 01.56991	08 47 35.37	+21 47 14.6	17.5	905
1997 AP ₂₁	1997 02 01.58391	08 47 34.38	+21 47 19.2		905
1997 AQ ₂₁	1997 02 09.52714	08 47 31.10	+24 47 41.4	17	905
1997 AQ ₂₁	1997 02 09.53553	08 47 30.60	+24 47 45.3		905
1997 BR ₆	* 1997 01 29.54664	09 59 44.53	+15 04 44.3	17	905
1997 BR ₆	1997 01 29.56615	09 59 43.33	+15 04 47.5		905
1997 BR ₆	1997 02 01.60035	09 56 39.30	+15 12 43.4	17	905
1997 BR ₆	1997 02 01.61690	09 56 38.30	+15 12 45.2		905
1997 BS ₆	* 1997 01 29.55527	10 04 00.73	+15 12 03.2	17	905
1997 BS ₆	1997 01 29.56615	10 04 00.21	+15 12 10.3		905
1997 BS ₆	1997 02 01.60035	10 01 38.79	+15 44 23.8	17.5	905
1997 BS ₆	1997 02 01.60862	10 01 38.33	+15 44 29.7		905
1997 CM	1997 02 12.52789	10 05 47.01	+11 08 54.1	17	905
1997 CM	1997 02 12.54439	10 05 46.10	+11 08 54.7		905
1997 CM	1997 02 13.56742	10 04 49.10	+11 09 25.1	17	905
1997 CM	1997 02 13.58368	10 04 48.26	+11 09 25.4		905
1997 CH ₁	1997 02 12.51163	10 03 09.09	+09 03 43.2	18	905
1997 CH ₁	1997 02 12.51962	10 03 08.61	+09 03 44.5		905
1997 CH ₁	1997 02 13.55029	10 02 12.18	+09 06 54.0	18	905
1997 CH ₁	1997 02 13.55856	10 02 11.75	+09 06 56.5		905
1997 CO ₁	1997 02 12.52789	10 06 23.04	+10 45 02.7	17.5	905

1997 CO ₁	1997 02 12.54439	10 06 22.05	+10 45 06.8		905
1997 CO ₁	1997 02 13.56742	10 05 22.06	+10 49 23.7	17	905
1997 CO ₁	1997 02 13.58368	10 05 21.08	+10 49 27.4		905
1997 CZ ₁	1997 02 12.52789	10 09 05.42	+10 03 47.2	18	905
1997 CZ ₁	1997 02 12.54439	10 09 04.28	+10 03 42.7		905
1997 CZ ₁	1997 02 13.56742	10 07 56.59	+10 00 57.6	17.5	I 905
1997 CZ ₁	1997 02 13.58368	10 07 55.48	+10 00 55.3		I 905
1997 CN ₅	* 1997 02 03.57523	08 43 25.06	+09 43 09.5	18	905
1997 CN ₅	1997 02 03.59201	08 43 24.14	+09 43 13.4		905
1997 CA ₂₆	* 1997 02 12.52789	10 10 48.54	+10 25 27.0	17.5	905
1997 CA ₂₆	1997 02 12.54439	10 10 47.51	+10 25 31.0		905
1997 CA ₂₆	1997 02 13.56742	10 09 46.42	+10 29 21.4	17.5	905
1997 CA ₂₆	1997 02 13.58368	10 09 45.34	+10 29 24.8		905
1997 CB ₂₆	* 1997 02 12.52789	10 13 20.27	+09 35 20.9	17	905
1997 CB ₂₆	1997 02 12.54439	10 13 19.18	+09 35 22.9		905
1997 CB ₂₆	1997 02 13.57552	10 12 14.03	+09 38 02.4		I 905
1997 CB ₂₆	1997 02 13.58368	10 12 13.48	+09 38 02.5		905

950 La Palma

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Observers P. Magnusson, J. Warell

Measurers M. Dahlgren, P. Magnusson

2.5-m Nordic optical telescope + CCD

GSC

1996 RQ ₂₀	1997 01 06.86736	00 37 21.12	+04 03 42.9		950
1996 RQ ₂₀	1997 01 08.87778	00 37 23.76	+04 04 16.8		950

962 Gandia

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[astrosafor@jet.es]

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

GSC

1997 CZ ₅	1997 02 10.83927	04 36 21.23	+18 06 16.3		962
1997 CZ ₅	1997 02 10.84578	04 36 22.19	+18 06 05.3		962
1997 CZ ₅	1997 02 10.85116	04 36 22.96	+18 05 57.3		962
1997 CZ ₅	1997 02 10.85262	04 36 23.19	+18 05 54.8		962
1997 CZ ₅	1997 02 10.85737	04 36 23.88	+18 05 46.2		962
1997 CZ ₅	1997 02 10.86354	04 36 24.77	+18 05 37.0		962
1997 CZ ₅	1997 02 10.86793	04 36 25.40	+18 05 29.9		962
1997 CZ ₅	1997 02 10.86956	04 36 25.67	+18 05 27.0		962
1997 CZ ₅	1997 02 10.88519	04 36 27.99	+18 05 01.4		962
1997 CZ ₅	1997 02 10.89691	04 36 29.70	+18 04 42.3		962
(541)	1997 02 06.03449	11 29 46.19	-05 40 52.2		962
(541)	1997 02 06.06049	11 29 45.46	-05 40 52.3		962
(541)	1997 02 06.07046	11 29 45.16	-05 40 52.1		962
(916)	1997 02 05.97277	10 32 57.35	+09 15 51.5		962
(916)	1997 02 05.99612	10 32 55.95	+09 15 54.4		962
(916)	1997 02 10.96817	10 27 48.68	+09 26 45.2		962
(916)	1997 02 10.98031	10 27 47.89	+09 26 46.5		962
(3103)	1997 02 05.94067	10 07 13.63	+23 49 26.1		962
(3103)	1997 02 05.94619	10 07 12.99	+23 49 39.7		962
(3103)	1997 02 05.94719	10 07 12.88	+23 49 42.6		962

(3103)	1997 02 05.95091	10 07 12.42	+23 49 51.6		962
(3103)	1997 02 05.95536	10 07 11.92	+23 50 03.1		962
(3103)	1997 02 05.96323	10 07 10.98	+23 50 22.6		962
(3103)	1997 02 10.91022	09 57 45.89	+27 03 14.5		962
(3103)	1997 02 10.92230	09 57 44.47	+27 03 40.8		962
(3103)	1997 02 10.93230	09 57 43.29	+27 04 03.0		962
(3103)	1997 02 10.93463	09 57 42.99	+27 04 08.1		962
(3199)	1997 02 10.95044	10 40 10.60	+36 34 49.2		962
(3199)	1997 02 10.95338	10 40 09.88	+36 34 45.9		962
(3199)	1997 02 10.95789	10 40 08.81	+36 34 40.1		962
(3199)	1997 02 10.96179	10 40 07.90	+36 34 35.2		962

966 Church Stretton

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England [100336.3635@compuserve.com]

0.25-m Schmidt Cassegrain + focal reducer + CCD

GSC

1995 ST	1997 02 03.02366	08 55 20.35	+23 32 58.9	16.6 V	966
1995 ST	1997 02 03.05971	08 55 17.67	+23 33 01.0		966
1995 SU	1997 02 02.96503	08 36 09.75	+19 58 56.4	17.1 V	966
1995 SU	1997 02 03.01653	08 36 06.09	+19 59 02.1		966
1995 SU	1997 02 13.99233	08 24 26.21	+20 11 02.3	17.1 V	966
1995 SU	1997 02 14.01907	08 24 24.57	+20 11 03.3		966
1995 SE ₄	1997 01 14.96884	09 04 20.81	+02 52 58.1	17.3 V	966
1995 SE ₄	1997 01 15.00112	09 04 19.14	+02 52 53.9		966
1995 SE ₄	1997 01 15.00678	09 04 18.94	+02 52 54.9		966
1995 SE ₄	1997 02 13.99922	08 35 45.93	+03 01 18.7	16.9 V	966
1995 SE ₄	1997 02 14.02442	08 35 44.61	+03 01 22.4		966
1997 AN ₂₃	* 1997 01 14.88862	08 14 53.98	+21 21 37.5	17.0 V	966
1997 AN ₂₃	1997 01 14.91802	08 14 51.91	+21 21 39.1		966
1997 AN ₂₃	1997 01 14.98266	08 14 47.22	+21 21 44.3		966
1997 AN ₂₃	1997 01 28.86551	07 58 38.93	+21 33 17.5	16.8 V	966
1997 AN ₂₃	1997 01 28.88440	07 58 37.70	+21 33 20.1		966
1997 AN ₂₃	1997 01 28.98653	07 58 30.64	+21 33 22.1		966
1997 AN ₂₃	1997 02 02.88825	07 53 22.15	+21 34 20.2	17.3 V	966
1997 AN ₂₃	1997 02 02.89391	07 53 21.78	+21 34 18.6		966
1997 AN ₂₃	1997 02 02.93794	07 53 19.12	+21 34 20.7		966
1997 AN ₂₃	1997 02 13.87936	07 44 11.01	+21 29 46.5	17.1 V	966
1997 AN ₂₃	1997 02 13.90485	07 44 09.87	+21 29 45.2		966
1997 AN ₂₃	1997 02 14.01279	07 44 05.45	+21 29 39.6		966
1997 AO ₂₃	* 1997 01 15.02914	08 25 27.88	+22 23 24.0	17.1 V	966
1997 AO ₂₃	1997 01 15.05656	08 25 26.10	+22 23 32.0		966
1997 AO ₂₃	1997 01 15.10319	08 25 22.91	+22 23 45.8		966
1997 AO ₂₃	1997 01 28.87785	08 09 48.39	+23 27 31.9	16.5 V	966
1997 AO ₂₃	1997 01 28.89502	08 09 47.25	+23 27 34.8		966
1997 AO ₂₃	1997 02 02.91037	08 04 15.13	+23 47 03.0	17.5 V	966
1997 AO ₂₃	1997 02 02.92961	08 04 13.85	+23 47 04.9		966
1997 BW ₆	* 1997 01 28.86551	07 58 46.56	+21 27 53.9	17.1 V	966
1997 BW ₆	1997 01 28.88440	07 58 45.53	+21 27 57.7		966
1997 BW ₆	1997 02 02.90087	07 54 21.42	+21 46 31.7	17.2 V	966
1997 BW ₆	1997 02 02.92384	07 54 20.25	+21 46 36.6		966
1997 BW ₆	1997 02 03.03122	07 54 14.72	+21 46 59.0		966
1997 BW ₆	1997 02 13.94148	07 46 36.94	+22 19 01.9	17.2 V	966

1997 BW ₆	1997 02 13.97307	07 46 35.87	+22 19 05.2		966
(3876)	1997 01 15.04553	08 25 04.71	+24 33 33.9	15.6 V	966
(3876)	1997 01 15.07803	08 25 03.05	+24 33 45.6		966
(4002)	1997 02 03.02366	08 55 48.75	+23 31 45.4	14.4 V	966
(4002)	1997 02 03.05971	08 55 46.60	+23 32 06.0		966

ORBITAL ELEMENTS

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C/1995 O1 (Hale-Bopp)

Epoch 1997 Mar. 13.0 TT = JDT 2450520.5

<i>T</i>	1997 Apr. 1.13777 TT		Marsden	
<i>q</i>	0.9141307	(2000.0)	P	Q
<i>z</i>	+0.0053596	ω 130.58994	−0.13312065	−0.17030351
	±0.0000008	Ω 282.47067	+0.28231321	+0.93779912
<i>e</i>	0.9951006	<i>i</i> 89.42982	+0.95004113	−0.30253847

From 1938 observations 1993 Apr. 27–1997 Feb. 10, mean residual 0^h.75.

C/1996 P2 (Russell-Watson)

Epoch 1996 Mar. 18.0 TT = JDT 2450160.5

<i>T</i>	1996 Mar. 1.34764 TT		Nakano	
<i>q</i>	2.0057872	(2000.0)	P	Q
<i>z</i>	−0.0001785	ω 188.80288	+0.32647864	+0.81631744
	±0.0000155	Ω 101.40293	−0.83492888	+0.48536424
<i>e</i>	1.0003580	<i>i</i> 29.08321	−0.44306372	−0.31312519

From 113 observations 1996 Aug. 11–1997 Feb. 9, mean residual 0^h.69.

C/1997 A1 (NEAT)

T 1997 June 19.91277 TT

<i>q</i>	3.1556717	(2000.0)	P	Q
	ω 40.08567		−0.17991072	+0.89888723
	Ω 135.76372		+0.68998461	−0.17417622
<i>e</i>	1.0	<i>i</i> 145.05970	+0.70110868	+0.40207512

From 136 observations 1997 Jan. 9–Feb. 10.

P/1997 B1 (Kobayashi)

T 1997 Mar. 1.64151 TT

<i>q</i>	2.0502354	(2000.0)	P	Q
<i>n</i>	0.04017650	ω 183.03150	−0.88321359	−0.45604875
<i>a</i>	8.4428288	Ω 329.07709	+0.43462418	−0.70839886
<i>e</i>	0.7571625	<i>i</i> 12.28382	+0.17616918	−0.53869342

P 24.53
From 112 observations 1997 Jan. 30–Feb. 14.

C/1997 BA₆ (Spacewatch)

Epoch 1999 Dec. 8.0 TT = JDT 2451520.5

<i>T</i>	1999 Dec. 4.36552 TT		Marsden	
<i>q</i>	3.4477269	(2000.0)	P	Q
<i>z</i>	+0.0036401	ω 286.16245	+0.01058806	+0.76641375
	±0.0024694	Ω 317.65222	−0.00420595	−0.64225615
<i>e</i>	0.9874499	<i>i</i> 72.44591	−0.99993510	+0.01081683

From 57 observations 1997 Jan. 11–Feb. 14, mean residual 0^h.53.

P/1997 C1 (Gehrels)

T 1995 Dec. 17.88170 TT

<i>q</i>	3.5455957	(2000.0)	P	Q
<i>n</i>	0.05783790	ω 206.13169	+0.31507394	−0.94838485
<i>a</i>	6.6220793	Ω 225.52717	+0.87934736	+0.30598051
<i>e</i>	0.4645797	<i>i</i> 2.89020	+0.35703870	+0.08331923

P 17.04
From 91 observations 1997 Feb. 2–15.

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
1988 QA	13.0	880807	333.52	207.49	154.52	2.52	0.2131	2.6700	33	23		W
1989 VP ₁	14.5	891110	307.68	279.17	192.35	13.31	0.1282	2.5665	30	14		W
1990 YP	14.5	910104	1.23	174.95	303.25	13.38	0.2709	2.7491	51	17		W
1991 AS ₂	14.5	910104	129.11	45.69	296.71	5.74	0.1564	2.3356	7	7		W
1991 AT ₂	13.5	910124	358.99	344.83	145.27	4.38	0.1632	3.1717	27	14		W
1991 AU ₂	15.5	910104	325.59	223.33	303.96	4.21	0.1484	2.4643	7	7		W
1991 AW ₂	13.5	910124	19.24	333.09	130.37	15.45	0.1523	3.1311	25	11		W
1991 AY ₂	15.0	910104	277.83	244.74	329.24	0.72	0.0798	2.2342	7	7	E	W
1991 AE ₃	12.5	910124	137.68	206.71	137.28	5.41	0.1241	2.6254	24	7	D	W
1991 BK ₂	13.5	910104	340.76	58.98	83.00	2.51	0.2194	3.0973	3	10	E	W
1991 BP ₂	12.5	910124	337.68	214.39	304.11	22.28	0.2034	2.3296	34	19	D	W
1991 CU	12.5	910124	125.26	215.19	140.72	9.90	0.0891	2.5837	30	11		W
1991 DH ₁	12.5	910213	329.72	38.94	155.95	12.80	0.1551	2.5886	33	9		W
1991 FP	12.0	910414	353.87	23.72	188.40	14.77	0.1852	3.1910	56	18		W
1991 GH ₁	13.5	910414	38.25	78.80	73.44	3.75	0.1479	2.4409	8	12		W
1991 GK ₁	14.0	910414	54.91	88.62	48.37	3.17	0.1050	2.4042	8	11		W
1991 GE ₃	15.0	910414	17.47	20.45	156.59	3.17	0.1216	2.5229	11	12		W
1991 GP ₄	13.5	910414	12.62	0.27	185.04	7.33	0.1174	3.0138	11	14	E	W
1991 GT ₄	14.5	910414	243.43	148.47	192.23	6.08	0.2573	2.2883	11	12	E	W
1991 GN ₉	16.5	910414	51.22	46.90	91.34	1.68	0.1245	2.2430	9	11	F	W
1991 GF ₁₀	13.5	910414	222.88	299.81	40.39	11.04	0.0791	3.0405	9	8		W
1991 GJ ₁₀	13.0	910414	73.87	79.31	40.92	10.16	0.0320	3.1634	9	8		W
1991 GR ₁₀	14.0	910414	83.89	64.72	42.87	10.95	0.0553	2.9633	9	8		W
1991 GS ₁₀	15.5	910414	50.99	68.70	65.31	4.45	0.1440	2.6057	9	7		W
1991 GV ₁₀	15.0	910414	20.96	125.83	43.78	8.27	0.1753	3.1628	9	6		W
1991 GF ₁₁	16.5	910414	348.74	158.94	57.86	2.92	0.1423	2.4037	8	8	D	W
1991 GK ₁₁	15.0	910414	256.57	249.41	76.73	2.53	0.2034	2.3853	8	8	E	W
1991 RZ ₁₀	14.0	910921	28.38	239.79	83.11	2.46	0.2870	3.2372	28	10		W

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1991 RA ₁₁	12.0	910921	266.12	103.67	20.27	17.26	0.1223	3.1941	28	10	W	1996 XA ₁₉	15.5	961223	341.13	25.26	72.98	11.70	0.1794	2.3208	45	26	W
1991 SV ₁	14.0	910921	26.41	317.12	17.83	6.83	0.1523	2.3759	59	10	W	1996 XD ₂₀	15.5	961223	31.87	300.19	101.23	6.56	0.1121	2.4269	57	20	M
1991 TH ₁	14.5	910921	352.94	2.40	18.42	22.96	0.2229	2.2974	54	17	W	1996 XS ₂₃	14.5	961223	25.85	6.41	42.93	26.36	0.2398	2.3026	49	22	M
1992 UL ₆	13.5	921025	334.23	5.48	74.93	6.34	0.1804	2.7405	30	8	W	1996 XS ₂₅	13.0	970112	214.52	155.75	101.74	20.28	0.1864	3.1136	60	17	N
1993 QD ₁	14.0	930821	342.40	16.73	340.31	13.63	0.2613	2.6152	30	8	W	1996 XU ₂₅	13.1	970112	48.87	169.83	219.16	1.82	0.0620	2.8910	54	12	N
1993 QE ₁	12.5	930821	8.37	192.45	124.43	14.63	0.1625	2.6423	32	12	W	1996 XY ₂₅	15.0	961223	24.62	204.91	145.01	13.72	0.1654	2.5946	50	26	W
1994 PG ₄	15.0	940816	5.81	174.27	147.03	14.04	0.1700	2.6846	30	20	W	1996 XD ₂₆	14.0	961223	22.17	349.17	83.94	5.65	0.0918	2.5499	53	11	N
1994 PX ₄	14.0	940816	316.79	55.75	328.19	14.90	0.1092	2.9897	28	14	W	1996 XN ₂₆	13.0	961223	162.99	206.63	64.78	2.92	0.0347	2.8696	64	8	W
1994 PY ₅	16.0	940816	351.48	202.96	143.47	10.03	0.3203	2.6895	30	19	W	1996 XX ₂₆	14.5	961223	284.60	118.48	105.64	11.68	0.2197	2.4383	38	21	W
1994 PQ ₉	15.5	940816	220.72	323.83	150.76	23.88	0.0669	1.9349	30	14	W	1996 XZ ₂₆	15.5	961223	320.52	164.68	8.32	2.84	0.1543	2.3746	66	11	W
1994 PU ₂₄	13.5	940816	299.03	313.89	101.69	2.78	0.2216	3.1932	28	14	W	1996 XY ₂₈	15.0	961223	283.92	92.13	66.26	1.77	0.1144	2.4548	60	12	W
1994 PF ₂₅	15.5	940816	350.48	257.55	84.80	2.24	0.1959	2.4357	28	14	W	1996 XL ₂₉	16.0	961223	28.87	323.70	64.88	1.87	0.1860	2.5417	60	17	W
1994 PH ₂₅	15.5	940816	345.88	207.36	141.08	6.29	0.1635	2.3751	28	14	W	1996 XX ₂₉	16.5	961223	328.12	39.57	73.05	2.40	0.1498	2.4282	60	15	W
1994 PL ₂₅	13.5	940816	69.70	114.11	140.99	10.62	0.0517	3.0555	28	14	W	1996 XV ₃₀	15.2	970112	54.82	274.83	105.16	13.46	0.2849	2.6928	58	10	N
1994 PH ₂₆	13.5	940816	225.41	54.79	52.60	2.71	0.0306	2.8919	28	14	W	1996 XE ₃₁	14.0	961223	265.69	302.92	272.24	10.88	0.1279	2.4178	55	11	W
1994 PZ ₂₆	12.5	940905	274.77	296.61	141.50	11.57	0.1562	3.1577	50	16	W	1996 XZ ₃₁	14.4	961223	239.34	135.97	91.09	7.10	0.0898	2.2200	60	10	N
1994 PA ₂₇	16.0	940816	326.52	244.20	136.66	6.18	0.2295	2.2210	28	14	W	1996 XD ₃₂	13.0	961223	320.76	78.72	73.43	15.06	0.1063	2.6608	57	12	N
1994 PF ₂₇	16.0	940816	352.76	318.45	22.11	2.49	0.2425	2.3975	28	14	W	1996 XE ₃₂	13.8	970112	342.24	117.15	19.23	7.54	0.2152	3.1643	57	28	N
1994 PJ ₂₇	15.0	940816	47.66	165.13	97.39	3.17	0.1941	2.4145	28	14	W	1996 XL ₃₂	13.6	970112	190.81	159.92	118.36	6.22	0.1458	3.1127	56	13	N
1994 PV ₂₇	13.5	940816	144.97	43.78	132.84	6.98	0.1861	2.6096	28	14	W	1996 XH ₃₃	15.5	961223	47.93	325.70	91.58	7.28	0.1556	2.2785	34	15	W
1994 PV ₃₃	14.0	940816	341.35	54.17	299.86	4.65	0.1733	3.1373	28	14	W	1996 XC ₃₆	16.0	961223	91.63	243.81	130.86	5.99	0.0861	2.7156	57	12	W
1994 PS ₃₆	16.0	940816	335.66	173.53	188.67	3.17	0.1736	2.3083	28	14	W	1996 YB	13.3	970112	328.48	56.76	97.32	8.51	0.1643	2.7835	37	16	N
1994 PJ ₃₇	16.0	940816	327.99	207.41	172.00	4.59	0.2454	2.3382	28	14	W	1996 YC	14.3	970112	331.77	225.59	287.55	23.01	0.2117	2.4389	37	19	N
1994 PK ₃₇	14.5	940816	125.17	254.81	296.38	3.94	0.1509	2.3723	28	14	W	1996 YG	12.6	970112	329.72	175.57	331.83	4.52	0.1043	3.0046	37	12	N
1994 PE ₃₈	14.0	940816	351.97	27.42	313.39	5.83	0.1720	3.1013	28	14	W	1996 YH	13.0	970112	7.31	182.68	281.42	12.39	0.1079	2.5560	37	10	N
1994 PM ₃₈	16.0	940816	32.30	65.76	218.61	2.19	0.1578	2.1898	28	14	W	1996 YP	14.7	970112	4.92	169.27	296.31	6.25	0.0548	2.3036	37	13	N
1994 PQ ₃₉	14.0	940816	28.50	330.32	322.05	8.20	0.1344	2.7301	28	17	W	1996 YS	13.7	970112	39.55	123.26	290.93	12.30	0.2184	3.1293	37	12	N
1994 RY ₁	12.5	940905	352.63	180.80	169.79	16.42	0.2885	2.6286	66	14	W	1996 YT	12.5	970112	191.89	244.23	38.02	3.49	0.1707	2.4077	37	10	N
1994 TD ₃	12.5	941015	34.14	326.92	18.35	8.74	0.1041	2.7801	57	10	W	1996 YU	13.2	970112	53.28	281.55	130.00	4.53	0.0923	2.7917	37	11	N
1994 TQ ₃	12.5	941015	39.78	323.01	19.54	12.94	0.1200	2.5347	31	10	W	1996 YV	14.3	970112	346.19	5.36	124.10	4.96	0.0746	2.3014	37	11	N
1994 TD ₁₅	14.0	941104	1.21	352.43	38.92	15.79	0.3082	2.6152	45	9	W	1996 YW	14.3	970112	30.84	2.43	72.28	4.16	0.0914	2.1578	37	10	N
1994 UT	14.0	941124	7.68	123.60	267.80	4.62	0.1380	2.3281	59	19	W	1996 YX	13.7	970112	42.12	148.56	276.19	6.99	0.0807	2.3104	37	10	N
1994 UT ₆	16.0	941104	347.46	47.84	12.51	4.06	0.2829	2.3206	32	11	W	1996 YZ	13.8	970112	329.06	222.87	289.68	2.01	0.1220	2.4334	37	14	N
1994 UT ₁₁	12.0	941015	294.62	232.75	231.67	16.98	0.0649	2.7371	57	8	W	1996 YA ₁	13.8	970112	40.78	329.92	101.68	3.46	0.0184	2.9158	37	11	N
1996 BS ₁₇	15.0	960207	267.99	318.94	335.08	4.96	0.1965	2.1621	30	4	M	1996 YF ₁	17.5	970112	342.08	75.14	77.55	8.98	0.3748	2.2792	45	30	W
1996 PK ₁	17.0	960825	339.09	221.91	144.03	3.16	0.1941	2.4441	41	20	W	1996 YG ₁	14.5	970112	212.16	188.66	77.22	12.85	0.1196	2.4854	38	24	M
1996 TB ₁	15.5	960914	229.36	296.86	214.44	0.81	0.0326	2.6792	29	17	W	1996 YH ₁	15.0	970112	188.80	150.76	127.70	7.28	0.1138	2.5291	38	18	M
1996 TY ₄	14.5	961024	256.25	120.79	16.78	13.90	0.1318	2.6135	42	23	W	1996 YR ₁	15.0	961223	11.24	166.18	304.89	6.35	0.0891	2.4492	44	13	W
1996 TB ₅	15.0	961024	356.50	188.74	203.23	16.65	0.1791	3.1714	42	26	W	1996 YE ₂	13.5	970112	36.89	136.12	298.21	4.66	0.0931	2.3172	46	18	W
1996 TK₆₆	7.5	961004	0.00	334.42	30.09	4.94	0.0000	42.4737	3	6	E M	1996 YH ₂	13.5	970112	80.36	354.18	53.91	4.59	0.0995	2.4129	43	13	W
1996 VF ₃	13.5	961203	345.07	33.28	44.96	8.91	0.2205	2.3911	73	37	W	1996 YJ ₂	12.7	970112	12.14	351.24	115.02	10.74	0.1901	2.7854	26	23	N
1996 WY ₂	15.0	961203	19.48	323.06	64.52	11.12	0.2781	2.7134	40	24	W	1996 YR ₂	14.0	970112	11.42	146.77	308.67	8.33	0.1271	2.7741	28	10	N
1996 WZ ₂	14.0	961223	49.82	300.98	70.83	10.49	0.1819	2.5546	59	16	N	1996 YS ₂	14.9	970112	350.67	65.76	58.74	3.46	0.1751	2.2948	28	8	N
1996 XF ₂	14.5	961223	7.03	350.49	75.10	14.72	0.1464	2.7819	67	22	W	1996 YT ₂	15.5	970112	42.94	202.75	183.04	2.49	0.2007	2.5232	52	14	M
1996 XN ₂	15.5	961223	35.58	78.82	288.04	2.64	0.2523	2.5560	61	30	W	1996 YV ₂	16.2	970112	356.24	175.99	299.04	3.25	0.1815	2.3245	32	15	N
1996 XT ₂	14.5	961223	28.45	316.49	82.89	31.80	0.2861	2.5558	55	45	M	1996 YX ₂	14.0	970112	15.31	31.54	55.91	1.24	0.1792	3.2018	46	13	N
1996 XL ₄	16.0	961223	22.44	115.23	269.39	10.05	0.3118	2.6110	66	14	W	1996 YY ₂	12.7	970112	71.47	302.29	75.42	2.33	0.1792	3.0990	46	14	N
1996 XG ₅	15.0	961223	0.46	24.55	61.55	3.19	0.1062	2.3584	58	18	M	1996 YZ ₂	14.0	961223	351.30	195.28	210.38	10.75	0.2125	3.3948	13	9	W
1996 XH ₆	13.1	970112	76.16	244.28	109.86	3.21	0.1070	2.9009	63	14	N	1996 YA ₃	15.2	970112	1.11	43.01	59.62	1.53	0.0485	2.3154	29	12	N
1996 XJ ₆	14.7	970112	10.49	349.75	83.80	7.39	0.2255	2.4438	56	14	N	1996 YB ₃	12.7	970112	322.70	217.29	285.37	14.71	0.0406	3.1506	31	10	N
1996 XE ₉	15.5	961223	17.19	162.06	263.05	5.47	0.1778	2.3577	66	33	M												

1997 AM	14.2	970112	38.97	343.98	87.62	3.77	0.1119	2.5881	28	23	N	1997 AM ₄	13.7	970112	222.02	144.03	133.03	13.82	0.1489	2.6792	26	14	N
1997 AO	13.2	970112	32.07	315.03	116.70	23.87	0.2032	2.4297	24	10	N	1997 AO ₄	12.4	970112	177.81	185.72	125.16	5.89	0.1037	2.7432	40	13	N
1997 AP	15.0	970112	147.34	30.46	294.04	2.64	0.1669	2.2880	33	14	W	1997 AQ ₄	13.6	970112	296.78	86.78	111.28	5.04	0.0852	2.2961	22	10	N
1997 AQ	14.7	970112	48.63	300.61	118.40	7.92	0.1230	2.2569	50	13	N	1997 AV ₄	12.3	970112	273.99	86.27	132.86	7.60	0.0640	2.7915	21	16	N
1997 AS	13.3	970112	197.06	174.96	114.27	5.66	0.1895	2.4485	24	10	N	1997 AA ₅	16.5	970112	351.08	52.28	79.24	2.95	0.1722	2.3321	28	13	N
1997 AT	12.4	970112	94.55	250.40	110.05	8.53	0.2354	2.4557	24	10	N	1997 AE ₅	14.0	970112	99.82	54.02	310.33	13.22	0.1467	2.4617	41	17	N
1997 AV	14.3	970201	31.03	127.10	319.31	3.94	0.1241	2.2705	42	15	N	1997 AF ₅	14.4	970112	139.28	233.67	97.19	7.58	0.1611	2.2804	27	10	N
1997 AW	14.6	970112	313.28	202.66	2.79	1.75	0.3622	2.3849	25	13	N	1997 AH ₅	14.0	970112	309.33	223.36	335.12	1.91	0.0857	2.1949	49	15	W
1997 AB ₁	15.3	970112	50.72	311.92	84.80	4.07	0.2551	2.3000	24	15	N	1997 AK ₅	15.6	970201	293.38	228.15	337.27	5.56	0.0732	2.2983	32	17	N
1997 AC ₁	14.1	970112	177.99	260.38	41.31	2.52	0.0811	2.4751	38	19	N	1997 AL ₅	12.6	970112	354.55	156.46	335.33	5.98	0.2830	2.4281	21	10	N
1997 AD ₁	14.4	970112	50.86	294.26	119.02	4.00	0.1629	2.4769	29	13	N	1997 AN ₅	13.9	970112	58.78	350.11	62.15	5.65	0.1251	2.2547	21	10	N
1997 AE ₁	13.8	970112	341.23	202.28	301.79	11.15	0.1096	2.6701	24	10	N	1997 AP ₅	13.5	970112	49.10	351.00	66.43	5.47	0.1925	2.5475	21	8	N
1997 AG ₁	13.4	970112	211.67	318.88	312.41	8.04	0.0189	3.0549	35	16	N	1997 AQ ₅	12.0	970112	325.41	100.89	63.08	6.63	0.0254	2.8335	21	8	N
1997 AH ₁	15.0	970112	253.75	141.29	100.37	8.20	0.1444	2.5130	33	14	W	1997 AR ₅	12.7	970112	57.74	297.40	112.06	14.35	0.1989	2.9288	21	12	N
1997 AL ₁	10.4	970112	78.01	93.68	301.05	18.31	0.0887	3.1668	24	10	N	1997 AU ₅	11.8	970112	351.05	148.41	349.90	9.56	0.0500	2.9799	21	8	N
1997 AM ₁	15.5	970112	53.12	329.39	79.26	4.07	0.1737	2.4569	33	16	W	1997 AV ₅	14.0	961223	295.18	248.45	304.64	3.47	0.0937	2.3106	48	15	W
1997 AN ₁	13.1	970112	317.16	233.30	299.92	12.19	0.1071	2.6654	24	10	N	1997 AW ₅	13.5	970112	336.23	41.70	114.23	2.39	0.1109	3.1324	34	13	W
1997 AO ₁	10.5	970112	192.64	180.27	113.04	5.27	0.0844	3.9341	25	10	N	1997 AA ₆	15.0	970112	33.46	124.35	263.33	11.62	0.1699	2.6056	33	12	W
1997 AP ₁	11.4	970112	96.43	256.06	114.22	11.93	0.1422	3.0695	25	10	N	1997 AD ₆	16.0	961223	210.41	159.05	107.64	8.24	0.1972	2.2998	15	11	W
1997 AQ ₁	15.0	970112	351.63	179.72	310.06	4.81	0.0959	2.2792	30	12	W	1997 AH ₆	15.5	970112	200.67	172.48	105.67	5.36	0.2191	2.3337	8	11	E W
1997 AR ₁	13.8	970112	242.93	175.12	78.76	3.37	0.1719	2.4091	24	10	N	1997 AL ₆	15.0	970112	36.74	138.37	286.77	21.34	0.0444	2.6240	33	16	M
1997 AW ₁	13.4	970112	27.86	24.62	56.17	4.90	0.1188	2.2958	23	15	N	1997 AO ₆	15.9	970112	343.46	38.36	90.14	3.96	0.1287	2.2073	35	16	N
1997 AX ₁	12.2	970112	62.60	92.98	311.04	16.17	0.0949	2.8806	23	10	N	1997 AQ ₆	14.2	970112	347.79	7.54	68.30	24.38	0.0299	1.8255	36	19	N
1997 AZ ₁	12.8	970112	43.95	59.54	4.49	5.90	0.1083	3.1974	34	13	N	1997 AR ₆	14.3	970201	351.03	197.46	271.11	7.86	0.1197	2.2006	30	11	N
1997 AC ₂	13.0	970112	335.30	180.40	333.54	7.88	0.1924	3.0796	23	10	N	1997 AT ₆	15.5	970112	32.56	124.12	226.17	6.32	0.3404	2.1356	32	19	W
1997 AD ₂	13.3	970112	223.91	224.36	34.00	5.11	0.0632	2.3263	23	10	N	1997 AV ₆	15.4	970112	4.35	358.64	124.98	5.53	0.0765	2.3429	34	17	N
1997 AE ₂	13.5	970112	97.70	76.41	303.52	8.87	0.0947	3.0425	57	22	W	1997 AW ₆	14.6	970112	158.45	329.50	355.45	4.46	0.0951	2.5832	31	17	N
1997 AF ₂	15.0	970112	56.02	290.44	123.00	10.22	0.1585	2.7500	32	12	W	1997 AX ₆	11.9	970112	255.59	94.28	140.23	15.93	0.0262	3.1106	18	8	N
1997 AG ₂	16.0	970112	24.81	145.89	306.74	3.49	0.1378	2.6074	32	11	W	1997 AY ₆	15.0	970112	38.96	129.40	303.45	6.72	0.2118	2.7996	37	20	W
1997 AH ₂	15.9	970112	23.49	129.10	322.10	2.64	0.1773	2.6737	32	12	N	1997 AA ₇	15.0	970112	46.90	282.96	136.26	2.76	0.2337	2.5407	25	13	W
1997 AJ ₂	13.4	970112	28.07	345.25	106.56	4.74	0.0740	2.2865	56	13	N	1997 AB ₇	15.3	970201	303.30	94.45	107.76	2.78	0.0978	2.4079	29	11	N
1997 AN ₂	13.9	970112	81.06	51.30	331.50	6.39	0.1220	2.3151	34	13	N	1997 AC ₇	12.6	970112	353.95	356.77	136.51	12.49	0.0794	2.7089	18	8	N
1997 AP ₂	13.8	970112	18.03	330.74	133.17	4.65	0.0987	2.5752	24	10	N	1997 AE ₇	13.3	970112	349.60	328.72	169.74	4.68	0.1021	2.4198	18	8	N
1997 AQ ₂	13.2	970112	53.49	93.89	317.90	9.12	0.1357	2.6679	23	10	N	1997 AF ₇	15.4	970112	353.67	355.89	142.01	3.81	0.1617	2.4210	23	11	N
1997 AR ₂	11.5	970112	3.35	6.19	116.61	2.37	0.1378	3.1717	25	10	N	1997 AG ₇	15.0	970112	23.47	247.23	198.98	2.82	0.2382	2.4210	18	8	N
1997 AS ₂	14.7	970112	95.79	62.23	305.27	24.77	0.2018	2.2669	24	13	N	1997 AN ₇	14.2	970112	358.27	264.36	223.15	2.45	0.1217	2.2863	18	8	N
1997 AT ₂	13.9	970112	93.98	345.15	17.86	4.49	0.1717	2.1506	23	10	N	1997 AO ₇	13.1	970112	225.82	120.17	152.09	5.00	0.1417	2.2152	20	10	N
1997 AU ₂	14.0	970112	9.10	0.51	101.72	15.90	0.1438	3.0805	24	10	N	1997 AQ ₇	14.5	961223	31.84	62.99	322.65	2.01	0.1665	2.3679	9	9	W
1997 AW ₂	12.0	970112	336.70	119.89	32.77	4.64	0.1720	3.0199	22	10	N	1997 AT ₇	13.5	961223	80.04	315.15	6.40	3.35	0.2298	2.2128	2	9	E W
1997 AX ₂	13.1	970112	29.71	344.17	90.66	9.37	0.2117	2.7927	22	10	N	1997 AU ₇	15.0	961223	8.06	2.13	57.50	5.60	0.2026	2.2536	5	12	W
1997 AZ ₂	14.1	970112	84.08	38.52	329.94	9.33	0.2328	2.3611	22	13	N	1997 AZ ₇	15.0	970112	196.36	349.21	305.84	12.95	0.0325	2.8237	35	9	W
1997 AA ₃	11.8	970112	60.10	69.55	321.92	15.19	0.2483	3.1484	22	10	N	1997 AC ₉	15.5	970112	80.75	84.70	304.80	12.00	0.1719	2.5605	35	15	W
1997 AB ₃	13.7	970112	35.93	114.09	315.38	11.69	0.1784	2.6156	22	10	N	1997 AP₁₀	17.5	970112	205.03	355.94	293.24	6.57	0.6390	1.4427	17	22	W
1997 AC ₃	11.7	970112	295.44	225.72	327.76	11.68	0.0817	2.7921	22	10	N	1997 AU ₁₀	15.0	970112	282.35	236.11	334.57	6.78	0.0767	2.3165	30	12	W
1997 AD ₃	13.6	970112	3.65	125.06	349.85	5.98	0.1077	2.3442	23	10	N	1997 AN ₁₂	14.5	970112	267.23	327.95	205.85	7.39	0.0396	2.5722	20	9	M
1997 AE ₃	12.6	970112	347.69	39.60	97.97	14.87	0.1082	2.5401	23	12	N	1997 AR ₁₂	11.8	970112	76.99	80.20	317.33	9.39	0.0775	3.0154	17	8	N
1997 AF ₃	13.5	961223	342.35	102.09	34.84	5.15	0.1307	2.3666	34	11	W	1997 AS ₁₂	14.0	970112	268.27	126.27	107.61	9.52	0.1743	2.4413	28	14	W
1997 AU ₃	12.4	970201	63.39	23.70	336.74	10.29	0.1451	2.9334	34	12	N	1997 AT ₁₂	13.5	970112	30.96	105.30	329.23	3.93	0.2188	2.5814	17	8	N
1997 AV ₃	15.2	970201	21.64	235.78	189.20	2.49	0.2122	2.3502	32	8	N	1997 AU ₁₂	13.9	970112	25.19	130.78	323.50	6.06	0.0499	2.3006	17	8	N
1997 AY ₃	14.2	970112	36.90	286.05	146.41	5.08	0.1540	2.3238	21	8	N	1997 AV ₁₂	12.4	970112	58.01	325.97	87.39	3.33	0.1298	3.1042	17	8	N
1997 AZ ₃	12.5	970112	333.07	27.85	128.37	15.43	0.0446	2.5977	22	8	N	1997 AW ₁₂	15.5	970112	338.84	196.95	313.73	12.23	0.1392				

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1997 AK ₁₃	11.3	970112	343.69	55.33	92.57	13.48	0.1654	3.1590	16	6	N	1997 AT ₂₀	14.5	970112	127.02	59.91	295.84	4.30	0.0965	2.5959	20	9	W
1997 AM ₁₃	13.8	970112	328.85	103.19	54.62	7.17	0.0435	2.3613	17	10	N	1997 AG ₂₁	13.4	970112	35.45	207.31	220.79	1.13	0.1562	2.4980	24	8	N
1997 AW ₁₃	13.5	970112	265.07	258.23	334.60	12.27	0.1157	2.7324	18	13	W	1997 AH ₂₁	12.0	970112	23.42	329.57	116.27	21.58	0.1407	3.1480	7	6	N
1997 AD ₁₄	13.5	961223	88.76	82.41	290.60	6.31	0.1096	2.7591	49	15	W	1997 AL ₂₁	15.4	970201	17.25	76.19	32.49	6.57	0.0985	2.4443	35	11	N
1997 AF ₁₄	14.0	970112	40.54	338.42	94.09	10.97	0.1786	2.5827	14	9	W	1997 AM ₂₁	13.7	970201	23.61	345.38	114.31	10.18	0.1100	2.7685	32	13	N
1997 AG ₁₄	11.5	970112	43.63	20.55	82.44	14.98	0.1636	3.0070	28	9	W	1997 AY ₂₁	16.5	970112	45.80	284.88	122.44	5.22	0.2288	2.5604	20	29	W
1997 AN ₁₄	13.0	970112	42.03	185.84	255.39	6.66	0.0836	3.0304	5	14	W	1997 AZ ₂₁	13.3	970112	243.35	242.71	19.19	1.04	0.1230	3.1159	34	17	N
1997 AW ₁₄	17.0	970112	327.32	41.34	116.11	3.89	0.1695	2.3143	25	28	W	1997 AA ₂₂	13.3	970112	46.84	71.12	340.21	10.09	0.1085	3.0092	31	10	N
1997 AY ₁₄	13.5	970112	142.15	40.89	301.34	20.74	0.0192	3.1614	28	27	W	1997 AB ₂₂	14.4	970112	22.40	338.97	109.64	17.37	0.1738	3.1663	15	7	N
1997 AB ₁₅	18.0	970112	317.90	74.27	112.82	38.48	0.3210	2.1279	25	48	W	1997 AF ₂₂	11.9	970201	50.54	73.60	334.99	16.10	0.2501	3.2066	32	8	N
1997 AC ₁₅	15.0	970112	18.92	332.87	115.98	6.02	0.1521	2.3556	8	6	N	1997 AG ₂₂	16.0	970112	136.40	97.87	239.21	1.27	0.0542	2.1635	25	19	M
1997 AD ₁₅	16.0	970112	45.46	317.22	90.03	5.11	0.1745	2.3543	26	10	W	1997 AK ₂₂	16.0	970112	287.78	74.74	120.01	11.26	0.0550	2.6916	3	7	E W
1997 AE ₁₅	13.8	970112	10.59	19.71	87.11	14.09	0.1216	2.5561	14	6	N	1997 AM ₂₂	13.5	970112	26.36	301.06	131.66	3.42	0.2594	2.4493	28	18	W
1997 AF ₁₅	13.5	970112	335.18	95.37	57.58	7.49	0.1331	2.4619	14	6	N	1997 AN ₂₂	11.0	970112	184.20	0.82	294.31	9.51	0.0906	3.0152	15	9	W
1997 AV ₁₅	16.5	970112	275.61	92.52	122.96	23.81	0.0692	1.9427	27	12	W	1997 AP ₂₂	13.5	961223	213.64	148.78	118.85	6.79	0.1151	2.4525	40	15	W
1997 AA ₁₆	15.5	970112	21.68	206.35	243.41	0.73	0.0998	3.0289	7	13	E W	1997 AW ₂₂	12.0	970112	119.14	42.23	332.59	10.24	0.0785	3.1643	25	12	W
1997 AC ₁₆	17.0	970112	40.13	305.82	119.70	5.89	0.1202	2.2965	25	28	W	1997 AZ ₂₂	17.5	961223	201.21	80.12	200.69	3.90	0.0126	2.9367	2	5	M
1997 AM ₁₆	13.5	970112	119.63	33.82	294.85	4.61	0.2880	3.1806	3	7	E W	1997 AA ₂₃	16.5	961223	134.71	193.48	144.44	12.84	0.1492	3.1893	2	5	E M
1997 AN ₁₆	13.5	970112	243.49	256.54	0.92	11.53	0.2998	3.1991	4	19	M	1997 AD ₂₃	17.5	970112	277.57	298.97	283.32	10.33	0.1195	3.1249	2	5	M
1997 AO ₁₆	15.5	970112	70.27	145.10	251.73	13.20	0.1753	2.7050	4	15	M	1997 AN ₂₃	14.5	970112	42.80	117.57	309.72	4.00	0.0845	2.2363	30	12	W
1997 AP ₁₆	16.0	970112	191.58	188.63	106.60	4.96	0.1270	2.2910	4	15	M	1997 BA	15.0	970112	338.68	44.28	118.50	13.29	0.2158	2.5607	17	9	W
1997 AR ₁₆	12.3	970201	339.99	192.11	359.27	18.32	0.1566	2.9846	32	34	N	1997 BB	16.0	970112	48.08	110.93	309.27	4.58	0.1743	2.3660	3	16	M
1997 AS ₁₆	12.4	970112	334.26	96.33	46.72	2.39	0.0726	3.0682	12	6	N	1997 BC	15.5	970112	34.69	103.84	346.00	3.81	0.0374	2.8093	25	18	W
1997 AT ₁₆	13.7	970201	60.43	317.40	81.12	3.33	0.1834	2.4523	26	8	N	1997 BD	14.5	970112	332.78	114.56	41.81	2.45	0.0238	3.0489	22	18	W
1997 AU ₁₆	13.9	970112	18.83	331.00	109.93	31.21	0.3217	3.1181	12	8	N	1997 BE	15.0	970112	8.72	156.71	323.58	9.52	0.0489	2.9811	19	16	W
1997 AK ₁₇	15.0	970112	101.80	273.16	93.97	10.45	0.2069	2.5435	4	9	W	1997 BG	15.5	970112	167.11	190.15	132.08	32.40	0.1614	1.9934	29	31	M
1997 AM ₁₇	14.0	970112	57.95	105.26	277.42	7.19	0.2321	3.2243	4	12	E M	1997 BL	14.0	970112	9.78	15.30	100.45	7.68	0.1906	2.5558	13	6	N
1997 AN ₁₇	13.0	970112	60.78	87.94	285.77	22.26	0.2883	2.3392	32	29	M	1997 BO	15.0	970112	238.14	317.22	325.07	5.29	0.2224	2.5749	24	11	M
1997 AO ₁₇	17.0	970112	336.42	51.08	97.49	10.30	0.1397	2.3454	30	15	W	1997 BQ	17.7	970112	328.43	147.20	50.40	11.00	0.4789	1.7473	25	0	N
1997 AP ₁₇	13.5	961223	187.82	193.43	95.35	10.74	0.0537	2.9920	59	21	W	1997 BR	17.5	970201	280.19	133.73	116.79	17.24	0.3059	1.3360	24	0	W
1997 AQ ₁₇	14.0	970112	117.57	47.29	294.25	5.44	0.1950	2.8043	45	21	W	1997 BU	13.7	970201	353.76	358.23	143.14	12.59	0.1921	2.9916	5	6	N
1997 AR ₁₇	15.0	970112	266.20	317.58	261.97	1.90	0.1235	2.2613	14	8	W	1997 BV	13.0	970112	3.55	186.36	288.03	5.97	0.0890	3.0226	50	19	W
1997 AT ₁₇	15.5	970112	354.46	72.44	56.08	1.96	0.2268	3.0799	20	18	W	1997 BW	13.5	970112	34.01	309.60	123.08	13.29	0.1529	2.6361	11	9	W
1997 AU ₁₇	17.0	970112	85.47	275.95	109.11	3.66	0.0131	2.3483	2	9	E W	1997 BY	12.5	970112	301.19	79.14	131.46	1.74	0.2313	3.1408	10	8	E M
1997 AW ₁₇	15.2	970112	311.35	110.58	78.28	2.14	0.1267	2.3947	22	16	N	1997 BB ₁	11.5	970112	168.72	350.03	254.40	11.44	0.0664	3.2593	14	9	W
1997 AY ₁₇	14.6	970112	31.24	50.90	23.62	3.10	0.2646	2.3617	13	6	N	1997 BD ₁	13.0	970112	304.39	211.21	264.34	14.51	0.0556	2.4657	12	9	W
1997 AZ ₁₇	14.0	970112	356.62	77.99	55.50	2.99	0.1084	2.2918	31	26	W	1997 BE ₁	14.5	970112	42.13	338.84	84.17	0.72	0.1574	3.0042	28	17	W
1997 AA ₁₈	11.3	970112	56.54	314.47	108.66	10.71	0.1356	3.0969	13	6	N	1997 BF ₁	15.0	970201	334.95	219.08	311.39	5.53	0.2069	2.3888	7	8	N
1997 AB ₁₈	13.9	970112	34.65	79.58	355.59	5.59	0.2451	2.5531	13	6	N	1997 BG ₁	13.7	970201	327.64	40.22	143.24	8.35	0.2317	2.7048	7	9	N
1997 AC ₁₈	12.5	970112	297.97	103.14	102.05	8.61	0.0941	2.5943	13	6	N	1997 BK ₁	15.5	970201	5.12	11.71	111.58	1.57	0.1388	2.4810	16	9	W
1997 AE ₁₈	14.5	970112	234.70	311.03	306.68	6.20	0.1325	2.2182	25	20	W	1997 BM ₁	15.0	970201	170.47	353.28	325.38	2.55	0.0372	2.6528	16	9	W
1997 AF ₁₈	16.5	970112	238.18	149.13	97.60	3.21	0.0171	2.2577	2	10	E M	1997 BN ₁	14.1	970201	306.86	232.81	319.58	5.30	0.0678	2.1687	6	6	E N
1997 AG ₁₈	15.5	970112	329.24	260.69	241.24	6.28	0.1917	2.7923	17	8	M	1997 BO ₁	12.1	970201	178.98	252.86	60.51	2.49	0.1350	2.8938	6	6	E N
1997 AH ₁₈	15.5	970112	67.99	270.51	107.29	5.38	0.2286	2.3619	3	17	E W	1997 BP ₁	14.6	970201	58.51	19.82	34.31	1.78	0.2325	2.3723	8	6	N
1997 AJ ₁₈	14.5	970112	74.57	120.91	271.05	9.38	0.1246	3.0659	2	11	M	1997 BQ ₁	14.0	970201	9.86	358.32	124.31	8.57	0.2389	3.1613	8	6	N
1997 AL ₁₈	15.5	970112	192.98	180.25	111.40	10.12	0.1054	2.2722	25	17	W	1997 BR ₁	11.0	970201	334.44	55.22	127.37	10.83	0.2611	3.0867	8	6	N
1997 AM ₁₈	14.5	970112	65.33	265.54	131.14	17.80	0.2002	3.1071	29	23	W	1997 BS ₁	12.9	970201	71.80	300.37	123.16	10.93	0.0404	3.0390	13	6	N
1997 AO ₁₈	16.5	970112	332.48	49.57	96.52	5.88	0.1041	2.2538	18	12	W	1997 BU ₁	12.4	970201	46.00	68.83	15.61	1.85	0.0301	2.9004	6	6	E N
1997 AP ₁₈	16.0	970112	313.62	95.19	76.98	3.11	0.1430	2.3666	18	11	W	1997 BW ₁	13.0	970201	57.31	72.91	354.78	5.47	0.1349	2.8453	8	6	E W
1997 AQ₁₈	18.0	970112	97.08	36.89	296.38	17.39	0.4655	1.1472	28	0	W	1997 BX ₁	15.9	970201	3.64	83.62	48.38	3.24	0.1841	2.3402	8	6	N
1997 AT ₁₈	12.6	970112	36.71	77.44	352.54	9.28	0.0285	3.1136	38</														

1997 BL ₂	10.9	970201	251.89	129.35	142.96	13.98	0.2411	3.2402	7	6	E	N	1997 BP ₆	17.0	970112	68.03	292.30	95.35	4.01	0.2123	2.3633	2	10	E	W
1997 BM ₂	13.2	970201	287.43	254.79	329.32	21.74	0.1182	2.3932	12	8		N	1997 BQ ₆	14.5	970201	324.68	113.97	59.58	0.95	0.0742	3.1561	7	9	E	W
1997 BN ₂	13.0	970201	227.52	292.10	346.61	9.61	0.0705	3.0690	12	8		N	1997 BR ₆	14.4	970201	47.90	100.46	336.54	4.77	0.1534	2.3209	15	11		N
1997 BO ₂	13.7	970201	328.23	173.76	5.91	4.83	0.1305	2.4038	7	6		N	1997 BT ₆	17.5	970201	320.96	196.56	343.69	6.91	0.0811	2.2321	13	12		N
1997 BP ₂	13.4	970201	337.47	40.37	131.58	27.46	0.1570	3.1129	7	6		N	1997 BW ₆	14.0	970201	33.16	327.20	112.30	2.70	0.1446	2.6232	16	7		W
1997 BR ₂	13.0	970201	60.74	269.66	154.08	3.69	0.1480	2.8162	12	6	E	N	1997 BX ₆	16.0	970201	200.26	325.00	324.99	2.93	0.0267	2.1422	14	14		W
1997 BS ₂	14.8	970201	32.23	99.06	357.87	3.52	0.1495	2.6006	7	9		N	1997 BF ₇	14.0	970201	20.23	128.71	338.98	0.63	0.1326	3.0530	11	9	E	W
1997 BT ₂	15.3	970201	27.60	127.24	330.40	10.23	0.2089	2.5401	7	9		N	1997 BG ₇	16.5	970112	18.93	337.27	129.70	7.50	0.0523	2.3928	36	12		W
1997 BU ₂	15.0	970201	325.94	70.35	118.42	6.99	0.1895	2.5613	7	6		N	1997 BH ₇	15.0	970201	6.38	6.94	118.25	2.19	0.1658	3.1766	9	9		W
1997 BV ₂	13.2	970201	186.76	245.66	70.02	3.35	0.0868	2.8150	7	6		N	1997 BN ₇	17.0	970201	95.43	76.41	307.61	13.32	0.1513	2.8555	11	9		W
1997 BW ₂	15.3	970201	10.98	359.07	127.36	13.81	0.1075	2.5743	7	6		N	1997 BO ₇	15.5	970201	299.79	291.25	288.65	4.05	0.2112	3.0226	15	12		W
1997 BY ₂	14.6	970201	28.82	17.15	79.27	3.66	0.1959	2.3679	7	6		N	1997 BV ₇	16.5	970201	283.04	272.71	331.40	15.04	0.1742	2.7850	11	9		W
1997 BZ ₂	13.3	970201	290.13	80.84	148.93	4.02	0.1699	2.5912	7	6	E	N	1997 BH ₈	13.3	970201	117.58	31.20	317.21	10.54	0.1989	2.6560	22	8		N
1997 BA ₃	13.6	970201	105.99	56.90	333.51	2.24	0.0337	2.3612	7	6	E	N	1997 BR ₈	13.5	970201	186.27	161.38	123.96	14.76	0.1284	2.6100	11	4		W
1997 BC ₃	13.4	970201	346.62	162.07	352.16	6.30	0.0452	2.3631	7	6		N	1997 CA	15.0	970201	264.34	302.64	306.00	3.50	0.0357	2.9085	7	7	E	W
1997 BD ₃	12.9	970201	268.18	111.43	141.27	3.79	0.1799	2.3431	7	6	E	N	1997 CB	14.5	970201	138.10	208.06	156.21	10.57	0.2587	2.4047	7	8	E	W
1997 BE ₃	11.2	970201	132.64	291.37	63.67	4.69	0.2013	3.2377	7	6	E	N	1997 CL	17.0	970201	358.47	195.41	303.23	5.83	0.1170	3.0959	2	9	E	W
1997 BF ₃	13.5	970201	66.27	275.90	129.66	5.44	0.2452	2.3509	7	6		W	1997 CM	13.0	970112	4.50	169.01	325.92	11.91	0.1031	3.0880	38	19		M
1997 BG ₃	14.7	970201	335.89	62.63	103.63	7.19	0.0576	2.2571	7	6		N	1997 CO	12.6	970201	38.80	255.26	182.91	1.52	0.2699	3.1369	10	6		N
1997 BJ ₃	16.0	970112	318.41	96.17	96.22	5.30	0.2688	2.6190	2	10	E	W	1997 CP	14.1	970201	122.28	206.17	158.45	3.57	0.1847	2.4114	10	9		N
1997 BK ₃	15.5	970201	332.96	122.80	50.74	1.42	0.1485	2.3491	11	19		W	1997 CQ	13.2	970201	289.19	71.10	145.33	7.52	0.0338	2.3652	10	6		N
1997 BM ₃	12.7	970201	41.31	111.04	342.33	7.94	0.1191	2.7249	11	6		N	1997 CR	12.9	970201	144.53	220.18	137.31	13.09	0.1663	2.7251	10	6		N
1997 BN ₃	12.4	970201	48.17	44.61	45.35	2.58	0.0864	3.0377	11	6		N	1997 CS	12.1	970201	28.92	120.24	351.20	8.59	0.1392	3.0907	10	6	E	N
1997 BS ₃	13.9	970201	9.00	9.62	122.77	7.77	0.1468	2.5631	11	6		N	1997 CT	13.9	970201	271.50	239.35	9.87	5.47	0.1055	2.5415	10	6		N
1997 BB ₄	15.5	970201	93.21	71.41	313.02	3.52	0.0601	2.6565	6	9	E	W	1997 CU	14.2	970201	28.40	296.28	161.69	4.06	0.2108	2.3548	10	6	E	N
1997 BD ₄	16.5	970201	322.96	222.78	322.06	1.52	0.2603	3.4077	6	9	E	W	1997 CV	12.7	970201	282.70	91.16	150.36	15.99	0.1780	2.8234	10	6		N
1997 BE ₄	15.5	970201	127.73	43.23	312.34	2.32	0.0154	2.6133	6	9	E	W	1997 CW	12.5	970201	331.43	140.68	41.17	4.19	0.1114	2.3270	10	6		N
1997 BJ ₄	17.0	970201	62.52	287.60	117.28	3.05	0.1620	2.6476	6	8	E	W	1997 CY	13.0	970201	41.29	263.65	186.96	2.49	0.1414	2.8895	10	6		N
1997 BN ₄	16.0	970201	179.26	346.76	319.47	2.91	0.1397	2.2616	6	9	E	W	1997 CZ	13.1	970201	117.47	263.97	119.36	7.16	0.0864	2.3891	10	6		N
1997 BQ ₄	15.5	970201	178.94	15.63	301.82	6.05	0.1053	2.6996	3	12	E	W	1997 CB ₁	14.1	970201	149.51	187.67	162.48	6.01	0.0715	2.1936	10	6		N
1997 BR ₄	17.5	970201	359.60	346.78	149.90	5.79	0.2918	3.1546	3	9	E	W	1997 CC ₁	12.0	970201	259.69	131.20	143.20	8.03	0.2915	2.5833	10	6		N
1997 BS ₄	16.5	970201	66.19	230.53	177.14	2.09	0.1958	2.4405	3	9	E	W	1997 CE ₁	12.2	970201	119.78	359.20	9.80	7.29	0.2404	2.3142	10	6		N
1997 BT ₄	16.0	970201	358.77	227.47	270.59	2.15	0.1026	3.0462	3	9	E	W	1997 CF ₁	14.8	970201	38.92	340.60	115.87	8.16	0.1331	2.2148	10	6		N
1997 BU ₄	15.5	970201	21.46	321.52	144.23	9.16	0.1718	2.7171	2	9	E	W	1997 CG ₁	12.8	970201	91.89	306.60	96.07	6.20	0.1319	2.5722	10	6		N
1997 BW ₄	15.5	970112	28.48	326.87	107.32	11.38	0.2798	2.7343	28	12		W	1997 CH ₁	13.3	970201	301.18	261.32	306.40	4.73	0.0392	2.7254	12	10		N
1997 BY ₄	13.7	970201	78.93	307.65	69.71	9.98	0.1654	2.3403	14	10		N	1997 CJ ₁	14.0	970201	287.73	169.26	76.38	3.18	0.2151	2.3424	10	6		N
1997 BC ₅	16.0	970201	191.89	87.40	221.27	1.63	0.2322	2.3927	11	8		W	1997 CK ₁	13.7	970201	322.51	106.43	94.82	4.39	0.1860	2.5757	10	6		N
1997 BD ₅	16.5	970201	177.17	124.81	193.66	1.99	0.1163	2.4493	3	9	E	W	1997 CL ₁	14.3	970201	30.60	28.39	80.17	3.57	0.1279	2.4232	10	6		N
1997 BG ₅	18.0	970201	178.99	47.58	269.72	2.00	0.1435	2.1719	3	9	E	W	1997 CM ₁	13.5	970201	333.85	168.80	14.78	5.38	0.1530	2.6226	10	6		N
1997 BH ₅	17.0	970201	256.55	299.20	312.28	17.38	0.1025	2.7045	7	9	E	W	1997 CN ₁	14.7	970201	33.19	54.00	46.86	4.56	0.1792	2.5824	10	6		N
1997 BJ ₅	13.0	970201	109.70	59.96	309.12	10.85	0.1943	3.2234	10	22		W	1997 CO ₁	14.2	970221	329.35	240.90	310.15	1.53	0.1508	2.3440	12	10		N
1997 BK ₅	16.5	970201	311.06	341.09	221.94	1.22	0.1797	2.3059	8	12		W	1997 CQ ₁	13.0	970201	154.16	194.24	140.79	27.13	0.1274	3.1496	3	19	E	W
1997 BM ₅	16.0	970201	0.61	352.38	143.79	11.60	0.1234	3.1180	3	9	E	W	1997 CY ₁	18.5	970201	230.45	317.60	332.89	23.45	0.2678	1.8023	11	21		M
1997 BN ₅	17.5	970201	2.34	316.03	177.85	2.18	0.1200	2.8219	3	9	E	W	1997 CZ ₁	14.9	970201	325.62	240.60	324.41	12.20	0.3005	2.7198	12	18		N
1997 BO ₅	15.5	970201	338.10	213.94	308.81	9.72	0.0743	3.0466	6	12		W	1997 CC ₂	16.0	970201	99.22	72.14	311.95	5.17	0.0306	2.7305	12	11		W
1997 BP ₅	16.5	970201	51.79	290.40	142.78	2.76	0.1777	2.3712	16	12		M	1997 CD ₂	16.0	970201	90.31	265.29	114.79	2.79	0.1415	3.1882	12	14	E	W
1997 BR ₅	17.0	970201	345.32	18.86	141.49	6.52	0.0882	2.2787	8	11		W	1997 CE ₂	17.0	970201	276.69	95.05	121.60	6.58	0.0547	2.5942	2	9	E	W
1997 BT ₅	15.5	970201	263.78	277.20	333.38	1.47	0.0776	2.8206	7	9	E	M	1997 CF ₂	16.0	970201	251.79	297.71	313.93	6.09	0.1651	2.6018	12	13		W
1997 BU ₅	14.5	970201	287.57	290.63	325.06	0.86	0.3346	2.4760	12	10		M	1997 CG ₂	17.0	970201	193.33	329.58	325.39	1.47	0.0407	2.3770	5	9	E	W
1997 BV ₅	15.5	970201	31.93	325.74	125.74	0.07	0.2490	2.6394	12	10		M	1997 CH ₂	16.0	970201	121.91									

1997 CT ₂	16.5	970201	101.01	192.54	180.08	2.21	0.2191	2.5166	9	8	W	1997 CJ ₁₁	16.5	970201	59.45	283.30	126.87	10.00	0.1657	2.8172	11	9	W
1997 CU ₂	14.5	970201	279.30	96.95	145.34	12.46	0.2157	3.1695	9	11	W	1997 CK ₁₁	17.0	970201	312.82	147.68	47.95	0.30	0.2072	2.7717	11	9	W
1997 CX ₂	12.4	970201	227.02	298.35	352.79	6.34	0.0896	2.6819	8	6	E N	1997 CP ₁₁	18.0	970201	54.74	94.68	314.34	5.33	0.2295	2.3881	11	9	W
1997 CZ ₂	13.6	970201	315.83	109.20	100.72	3.12	0.1890	2.3412	8	6	N	1997 CQ ₁₁	14.0	970201	353.18	160.87	334.63	1.32	0.0377	2.8802	11	9	W
1997 CA ₃	12.0	970201	88.75	311.21	99.51	3.56	0.1192	3.0604	8	6	E N	1997 CV ₁₁	16.0	970201	78.07	285.59	120.91	12.30	0.0892	3.1360	3	8	E W
1997 CC ₃	18.0	970201	350.84	191.37	319.50	21.75	0.0975	1.8574	4	12	W	1997 CX ₁₁	15.5	970201	8.31	16.51	106.85	4.82	0.1342	2.2636	3	8	W
1997 CJ ₃	15.0	970201	141.75	221.57	132.72	11.93	0.0918	2.6319	5	16	E W	1997 CD ₁₂	15.0	970201	244.94	123.21	146.04	6.23	0.0750	2.7204	8	9	E W
1997 CL ₃	17.0	970201	257.29	113.48	121.82	6.42	0.0493	2.8618	5	14	E W	1997 CE ₁₂	16.5	970201	26.57	319.21	144.33	7.40	0.2054	2.3870	8	9	W
1997 CM ₃	14.0	970201	292.29	89.71	122.43	9.92	0.1548	3.2090	4	12	E W	1997 CG ₁₂	17.0	970201	175.04	187.15	143.16	4.82	0.1463	2.3135	8	9	W
1997 CR ₃	17.0	970201	7.13	149.92	340.79	12.91	0.2017	2.6869	8	14	W	1997 CL ₁₂	15.0	970201	99.94	52.67	351.00	1.74	0.0411	2.9028	10	9	E W
1997 CV ₃	16.0	970201	91.57	211.49	122.01	9.98	0.6718	2.5594	3	12	E W	1997 CP ₁₂	17.0	970201	63.85	299.94	121.49	1.95	0.1928	2.4488	8	9	W
1997 CX ₃	14.5	970201	108.67	233.63	124.12	17.35	0.2127	3.0737	3	9	E W	1997 CR ₁₂	14.5	970201	256.99	285.51	336.97	9.93	0.0932	2.8608	10	9	W
1997 CZ ₃	19.5	970201	86.92	33.35	314.44	6.60	0.5384	1.4029	12	22	W	1997 CS ₁₂	16.5	970201	30.21	333.63	139.05	5.93	0.0870	2.7574	8	9	W
1997 CG ₄	16.0	970112	113.78	28.21	341.10	7.28	0.1339	2.2846	32	40	W	1997 CT ₁₂	17.5	970201	27.52	327.44	142.15	9.06	0.1736	2.8132	8	9	W
1997 CJ ₄	13.5	970201	178.81	199.23	134.62	6.32	0.1538	2.3190	3	7	E W	1997 CU ₁₂	17.5	970201	68.62	60.08	357.28	6.61	0.1421	2.2444	7	8	W
1997 CL ₄	15.0	970201	67.35	119.96	292.74	9.23	0.0223	2.7779	5	7	E M	1997 CJ ₁₃	17.5	970201	339.28	213.63	313.67	0.92	0.2176	2.4439	3	16	E W
1997 CN ₄	15.5	970201	29.63	119.34	334.85	0.85	0.2651	3.0079	9	9	E M	1997 CP ₁₃	15.5	970201	351.36	185.58	321.96	1.19	0.0960	2.4093	8	13	E W
1997 CO ₄	15.5	970201	20.12	153.70	327.69	4.74	0.0652	2.4536	11	13	M	1997 CS ₁₃	15.5	970201	69.01	112.63	302.74	5.92	0.0103	3.2000	10	9	E W
1997 CP ₄	16.5	970201	31.56	139.76	324.69	7.61	0.1091	2.2873	12	9	M	1997 CU ₁₃	17.0	970201	24.01	323.76	142.71	0.35	0.0893	2.1324	3	12	E W
1997 CS ₄	14.5	970201	347.31	185.04	320.60	19.87	0.1292	3.1430	5	9	W	1997 CV ₁₃	16.0	970201	96.37	286.80	107.79	2.43	0.0287	2.4302	4	11	E W
1997 CV ₄	15.4	970201	60.30	96.80	316.97	12.40	0.1977	2.4131	8	13	N	1997 CE ₁₄	15.5	970201	304.25	258.36	330.91	13.86	0.2317	3.2178	13	9	W
1997 CB ₅	15.5	970112	57.40	330.90	71.28	3.43	0.2054	2.6754	25	12	W	1997 CS ₁₄	15.5	970201	223.60	251.16	26.26	3.01	0.0876	2.6598	11	11	W
1997 CJ ₅	15.5	970201	276.49	305.67	291.52	0.44	0.1508	2.3912	42	15	N	1997 CQ ₁₅	15.5	970201	272.67	116.07	151.29	2.13	0.2819	3.0940	10	9	E W
1997 CK ₅	16.2	970201	4.35	171.54	316.50	3.05	0.2603	2.6477	8	7	N	1997 CT ₁₅	16.0	970201	52.59	279.84	146.14	2.18	0.2639	2.9503	7	9	E W
1997 CL ₅	15.1	970201	319.91	72.80	131.83	2.71	0.2874	2.7137	12	10	N	1997 CV ₁₅	16.0	970201	93.71	71.33	330.22	3.23	0.1130	2.7942	10	9	W
1997 CN ₅	13.5	970201	311.25	334.72	210.29	5.31	0.0524	2.8061	6	6	N	1997 CW ₁₅	16.5	970201	43.51	298.14	148.59	7.77	0.1875	3.0944	7	9	W
1997 CO ₅	16.7	970201	17.00	122.80	318.50	19.14	0.4897	2.6640	7	0	N	1997 CX ₁₅	14.5	970201	241.00	318.04	328.32	1.48	0.2100	2.8251	10	9	W
1997 CR ₅	14.5	970201	53.60	294.93	148.75	2.58	0.0861	2.9450	9	10	M	1997 CY ₁₅	16.0	970201	110.98	226.81	148.57	12.65	0.2363	2.6982	7	7	W
1997 CX ₅	18.5	970201	11.09	161.84	312.91	19.29	0.1208	1.6853	9	15	W	1997 CZ ₁₅	14.0	970201	264.82	129.91	144.36	1.09	0.2799	3.1609	10	9	W
1997 CY ₅	15.0	970201	83.40	49.73	337.86	2.68	0.2042	2.7303	1	11	E W	1997 CA ₁₆	15.0	970201	68.36	98.71	330.93	5.64	0.0864	2.7150	10	9	W
1997 CZ ₅	13.5	970201	3.44	169.09	288.14	24.95	0.4001	2.2982	11	0	W	1997 CD ₁₆	16.5	970201	44.58	300.68	149.37	18.23	0.1498	3.1171	7	9	W
1997 CB ₆	16.0	970201	23.02	270.42	193.79	2.39	0.1434	2.4479	10	38	W	1997 CE ₁₆	16.0	970201	118.05	230.44	148.03	9.47	0.1269	2.5601	7	9	W
1997 CC ₆	16.5	970112	0.32	2.55	126.19	8.02	0.3256	3.0377	37	14	W	1997 CJ ₁₆	17.5	970201	3.00	11.63	132.76	2.10	0.0548	2.5336	7	9	W
1997 CD ₆	16.5	970201	330.62	43.72	138.64	8.29	0.2400	2.7057	4	17	E W	1997 CN ₁₆	16.5	970201	345.03	108.89	41.78	0.11	0.1863	3.1410	5	9	E W
1997 CE ₆	16.5	970201	292.95	32.36	193.85	0.28	0.2053	2.4879	2	8	E W	1997 CP ₁₆	17.0	970201	232.20	156.57	105.42	0.44	0.0569	2.3014	2	10	E W
1997 CF ₆	13.5	970201	54.86	82.69	338.87	12.39	0.2402	2.6738	3	9	E W	1997 CQ ₁₆	14.5	970201	119.47	222.09	129.49	4.79	0.2083	2.3142	2	10	E W
1997 CJ ₆	16.0	970201	328.19	25.24	150.78	2.72	0.2662	3.0792	3	6	E W	1997 CR ₁₆	13.0	970201	130.68	215.74	126.76	8.52	0.1978	3.9755	5	12	E W
1997 CM ₆	16.5	970201	319.14	63.38	139.35	4.10	0.1603	2.2628	11	12	N	1997 CV ₁₆	15.0	970201	11.40	157.87	325.19	6.18	0.1050	3.0646	7	10	E W
1997 CZ ₆	15.5	970201	149.89	158.45	178.64	2.50	0.2285	2.4180	7	12	W	1997 CW ₁₆	15.0	970201	88.53	240.38	137.72	24.43	0.2803	2.7845	7	10	E W
1997 CC ₇	14.5	970201	17.94	350.90	118.71	6.29	0.2197	3.1177	5	9	W	1997 CX ₁₆	13.5	970201	290.24	270.62	319.47	10.22	0.0406	2.9772	7	7	N
1997 CD ₇	16.0	970201	354.56	145.58	358.88	2.28	0.1433	2.3143	6	11	W	1997 CY ₁₆	12.7	970201	172.15	170.52	172.89	11.61	0.0444	3.0446	7	7	E N
1997 CG ₇	15.5	970201	117.76	51.15	311.36	10.20	0.0555	3.0389	13	9	W	1997 CZ ₁₆	14.5	970201	62.37	135.06	310.79	6.25	0.0485	2.2813	7	7	N
1997 CQ ₇	15.0	970201	227.04	140.93	144.67	16.58	0.2572	2.6329	6	8	W	1997 CA ₁₇	13.5	970201	23.39	188.10	280.94	7.18	0.1426	3.1729	2	13	M
1997 CT ₇	15.5	970201	244.09	4.63	254.01	2.30	0.0685	2.4879	14	12	W	1997 CH ₁₇	17.0	970201	101.41	101.68	271.81	2.68	0.2063	2.2735	14	9	W
1997 CU ₇	17.5	970201	25.50	272.41	190.51	2.16	0.1229	2.3650	10	9	W	1997 CD ₁₈	16.0	970201	58.53	118.30	303.43	8.11	0.1439	2.5606	8	8	W
1997 CC ₈	16.0	970201	256.39	344.10	262.17	1.82	0.0561	2.2502	6	9	E W	1997 CE ₁₈	13.5	970201	133.14	190.12	154.29	9.18	0.2776	3.9695	8	9	W
1997 CE ₈	14.5	970201	114.18	216.52	155.08	5.45	0.1137	2.3060	7	8	W	1997 CG ₁₈	16.5	970201	82.19	80.99	308.12	12.97	0.2208	3.0792	8	9	W
1997 CA ₉	16.5	970201	66.87	82.33	332.93	6.51	0.2145	2.6927	10	9	W	1997 CF ₁₉	14.5	970201	298.86	234.41	348.24	8.81	0.1615	3.1582	2	9	E W
1997 CF ₉	15.5	970201	80.78	66.56	333.60	6.72	0.2241	2.4083	10	9	W	1997 CM ₁₉	14.5	970201	234.59	220.48	82.06	13.55	0.1455	2.6918	4	7	M
1997 CH ₉	14.5	970201	105.75	46.15	339.42	5.37	0.1658	2.7749	10	9	E W	1997 CO ₁₉	13.7	970221	305.20	145.51	63.63	6.35	0.0968	3.1354	7	6	N
1997 CL ₉	16.5	970201	338.96	199.79	335.87	9.12	0.1400	3.0578	10	9	W	1997 CP ₁₉	13.5	970201	57.22	290.42	139.35</						

1997 CF ₂₂	14.0	970201	210.72	145.19	158.94	5.57	0.0249	2.7843	2	8	E	M
1997 CJ ₂₂	17.0	970201	347.43	342.24	170.91	2.97	0.1315	2.4056	6	7	W	
1997 CK ₂₂	14.5	970201	8.44	345.22	148.40	12.88	0.1215	2.6654	2	9	M	
1997 CL ₂₂	14.0	970201	301.40	333.77	260.17	0.37	0.2215	2.4431	2	9	M	
1997 CM ₂₂	16.5	970201	100.76	221.44	142.69	0.40	0.2025	2.3902	11	8	W	
1997 CX ₂₂	15.5	970112	21.87	35.68	60.85	0.60	0.0707	2.5410	31	9	W	
1997 CH ₂₃	16.0	970201	32.91	306.04	130.29	2.62	0.2166	3.1931	10	8	W	
1997 CK ₂₃	17.5	970112	39.12	104.33	321.46	2.98	0.1847	2.3692	31	11	W	
1997 CC ₂₅	17.0	970201	223.67	238.55	44.81	3.18	0.1691	2.3889	12	8	W	

1991 AE₃ = 1991 CV₄ (S. Nakano, *MPC* 22572)1991 BP₂ = 1991 BH (G. V. Williams, *MPC* 17944)1991 GN₉ = 1991 HP (G. V. Williams, *MPC* 20313)1991 GF₁₁ = 1991 HU₂ (S. Nakano, *MPC* 20606)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(497) Iva											
H	10.02	G	0.11	U	1	Obs.	95	M	210.94767	ω	2.85143
						Opp.	29	n	0.20496256	Ω	6.82827
rms res.	0''93			(M-v)			1902-1996	e	0.3016015	i	4.84096

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(529) Preziosa											
H	10.06	G	0.15	U	1	Obs.	68	M	22.00067	ω	336.05310
						Opp.	23	n	0.18794700	Ω	65.49589
rms res.	0''98			(M-v)			1919-1997	e	0.0906959	i	11.03032

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(541) Deborah											
H	10.1	G	0.15	U	1	Obs.	103	M	245.47269	ω	357.19986
						Opp.	24	n	0.20860821	Ω	268.13337
rms res.	0''95			(M-v)			1904-1997	e	0.0492496	i	5.99093

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(607) Jenny											
H	9.5	G	0.15	U	1	Obs.	30	M	41.73120	ω	291.96839
						Opp.	21	n	0.20441190	Ω	285.60575
rms res.	0''98			(M-v)			1906-1994	e	0.0738647	i	10.12324

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(781) Kartvelia											
H	9.4	G	0.15	U	1	Obs.	58	M	272.96051	ω	158.50933
						Opp.	20	n	0.17018285	Ω	138.63378
rms res.	0''87			(M-v)			1926-1996	e	0.1037574	i	19.18270

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(860) Ursina											
H	10.26	G	0.15	U	1	Obs.	35	M	170.66873	ω	20.78988
						Opp.	16	n	0.21066618	Ω	309.73856
rms res.	0''88			(M-v)			1903-1994	e	0.1062573	i	13.30654

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(916) America											
H	11.2	G	0.15	U	2	Obs.	44	M	94.91877	ω	41.14119
						Opp.	12	n	0.27096305	Ω	329.98582
rms res.	0''82			(M-v)			1924-1997	e	0.2354486	i	11.11780

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(1334) Lundmarka											
H	11.3	G	0.15	U	1	Obs.	70	M	222.74764	ω	127.97139
						Opp.	23	n	0.19789929	Ω	133.64890
rms res.	0''82			(M-v)			1934-1995	e	0.0907824	i	11.42491

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(1380) Volodia											
H	11.6	G	0.15	U	1	Obs.	35	M	272.82219	ω	236.04145
						Opp.	7	n	0.17629333	Ω	0.32540
rms res.	0''76			(M-v)			1936-1993	e	0.1009780	i	10.50760

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(1467) Mashona											
H	8.57	G	0.15	U	1	Obs.	69	M	131.05236	ω	346.96791
						Opp.	21	n	0.15918848	Ω	326.86958
rms res.	0''74			(M-v)			1938-1997	e	0.1414377	i	22.06251

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(1590) Tsiolkovskaja											
H	11.7	G	0.15	U	1	Obs.	104	M	13.90158	ω	52.09400
						Opp.	19	n	0.29589769	Ω	226.82781
rms res.	0''94			(M-v)			1940-1996	e	0.1574733	i	4.34944

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(1629) Pecker											
H	12.6	G	0.15	U	1	Obs.	60	M	50.00085	ω	106.49035
						Opp.	17	n	0.29429781	Ω	132.90314
rms res.	0''83			(M-v)			1942-1995	e	0.1552890	i	9.69788

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(1892) Lucienne											
H	12.10	G	0.15	U	1	Obs.	43	M	140.24254	ω	93.07748
						Opp.	13	n	0.25531173	Ω	315.86647
rms res.	0''56			(M-v)			1971-1996	e	0.0908537	i	13.98383

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(1990) Pilcher											
H	13.14	G	0.15	U	1	Obs.	38	M	215.31602	ω	11.31854
						Opp.	14	n	0.30748921	Ω	193.80825
rms res.	0''93			(M-v)			1950-1996	e	0.0516944	i	3.12839

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(2140) Kemerovo											
H	10.9	G	0.15	U	1	Obs.	38	M	327.00774	ω	117.20472
						Opp.	15	n	0.19088477	Ω	275.17611
rms res.	0''73			(M-v)			1951-1996	e	0.0509400	i	6.98919

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(2155) Wodan											
H	12.6	G	0.15	U	1	Obs.	78	M	151.02847	ω	347.88938
						Opp.	10	n	0.20428111	Ω	38.90803
rms res.	0''81			(M-v)			1960-1996	e	0.0790146	i	2.54435

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(2200) Pasadena											
H	13.4	G	0.15	U	1	Obs.	58	M	45.02375	ω	210.56661
						Opp.	13	n	0.26418977	Ω	345.76708
rms res.	0''71			(M-v)			1955-1996	e	0.1468497	i	4.59006

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(2418) Voskovec-Werich											
H	12.5	G	0.15	U	1	Obs.	68	M	187.48289	ω	30.58484
						Opp.	13	n	0.17946693	Ω	31.80005
rms res.	0''75			(M-v)			1951-1996	e	0.1725104	i	1.32967

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5											
(2663) Miltiades											
H	14.0	G	0.15	U	1	Obs.	26	M	200.42536	ω	82.02120
						Opp.	6	n	0.29503591	Ω	28.68642
rms res.	0''89			(M-v)			1960-1993	e	0.1384293	i	6.22181

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(2800) Ovidius Obs. 30 *M* 235.08857 ω 176.17766
H 12.8 *G* 0.15 *U* 1 Opp. 9 *n* 0.17565148 Ω 103.02016
rms res. 0".88 (M-v) 1960-1994 *e* 0.1342770 *i* 3.06304

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(2917) Sawyer Hogg Obs. 39 *M* 124.23681 ω 39.04491
H 12.0 *G* 0.15 *U* 1 Opp. 7 *n* 0.21090562 Ω 349.06095
rms res. 0".88 (M-v) 1971-1994 *e* 0.1121232 *i* 12.82619

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(3066) McFadden Obs. 83 *M* 214.57180 ω 187.34469
H 11.2 *G* 0.15 *U* 2 Opp. 8 *n* 0.24566953 Ω 175.81874
rms res. 0".83 (M-v) 1936-1997 *e* 0.1345634 *i* 15.55700

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(3067) Akhmatova Obs. 28 *M* 28.20842 ω 95.24954
H 13.0 *G* 0.15 *U* 1 Opp. 9 *n* 0.29290718 Ω 350.69567
rms res. 0".99 (M-v) 1938-1997 *e* 0.1384956 *i* 4.52702

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3268) De Sanctis Obs. 59 *M* 352.36197 ω 74.06904
H 13.4 *G* 0.15 *U* 1 Opp. 8 *n* 0.27409418 Ω 221.89925
rms res. 0".78 (M-v) 1951-1996 *e* 0.1269146 *i* 6.35477

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3283) Skorina Obs. 44 *M* 235.03051 ω 352.24207
H 12.7 *G* 0.15 *U* 1 Opp. 12 *n* 0.26575744 Ω 356.90014
rms res. 0".90 (M-v) 1953-1996 *e* 0.1006857 *i* 6.89006

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(3323) Turgenev Obs. 97 *M* 43.78667 ω 22.55960
H 13.5 *G* 0.15 *U* 1 Opp. 11 *n* 0.24026236 Ω 21.99274
rms res. 0".78 (M-v) 1954-1997 *e* 0.1858508 *i* 0.71875

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3354) McNair Obs. 52 *M* 95.45172 ω 325.80719
H 13.0 *G* 0.15 *U* 1 Opp. 6 *n* 0.27811715 Ω 321.43107
rms res. 0".83 (M-v) 1971-1996 *e* 0.0958704 *i* 6.41887

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3386) Klementinum Obs. 63 *M* 323.31962 ω 214.59464
H 12.7 *G* 0.15 *U* 1 Opp. 10 *n* 0.20617416 Ω 168.59385
rms res. 0".73 (M-v) 1949-1995 *e* 0.0849577 *i* 2.15625

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(3388) Tsanghinchi Obs. 29 *M* 22.84645 ω 16.76724
H 12.8 *G* 0.15 *U* 2 Opp. 8 *n* 0.27139981 Ω 99.21389
rms res. 1".10 (M-v) 1950-1997 *e* 0.2017994 *i* 25.02053

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3439) Lebofsky Obs. 52 *M* 358.41440 ω 284.07082
H 12.5 *G* 0.15 *U* 1 Opp. 7 *n* 0.21682724 Ω 8.09018
rms res. 0".78 (M-v) 1981-1993 *e* 0.1389464 *i* 4.74442

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3586) Vasnetsov Obs. 22 *M* 342.32469 ω 260.68095
H 13.0 *G* 0.15 *U* 1 Opp. 7 *n* 0.25557215 Ω 6.94910
rms res. 0".85 (M-v) 1978-1996 *e* 0.1180092 *i* 9.83824

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3615) Safronov Obs. 40 *M* 304.30477 ω 102.43515
H 11.2 *G* 0.15 *U* 1 Opp. 16 *n* 0.17454657 Ω 135.82488
rms res. 0".76 (M-v) 1949-1993 *e* 0.1145756 *i* 2.10099

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3616) Glazunov Obs. 33 *M* 343.60972 ω 117.92200
H 12.2 *G* 0.15 *U* 1 Opp. 10 *n* 0.23479625 Ω 118.22052
rms res. 0".79 (M-v) 1950-1995 *e* 0.1195899 *i* 12.78397

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(3671) Dionysus Obs. 87 *M* 287.07352 ω 203.69831
H 16.3 *G* 0.15 *U* 0 Opp. 4 *n* 0.30311098 Ω 82.43402
rms res. 0".95 (M-v) 1984-1997 *e* 0.5431534 *i* 13.62451

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(3806) Tremaine Obs. 37 *M* 75.06597 ω 187.91658
H 14.6 *G* 0.15 *U* 2 Opp. 6 *n* 0.24315520 Ω 199.64212
rms res. 0".82 (M-v) 1981-1996 *e* 0.3123935 *i* 10.03994

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3813) Fortov Obs. 31 *M* 63.81406 ω 348.96531
H 13.3 *G* 0.15 *U* 1 Opp. 7 *n* 0.30391506 Ω 320.08603
rms res. 0".89 (M-v) 1954-1993 *e* 0.1753786 *i* 4.15829

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3917) Franz Schubert Obs. 42 *M* 7.30538 ω 301.29045
H 13.8 *G* 0.15 *U* 1 Opp. 9 *n* 0.27214331 Ω 137.20920
rms res. 0".77 (M-v) 1961-1995 *e* 0.0225821 *i* 2.42659

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3937) Bretagnon Obs. 62 *M* 73.44965 ω 103.75598
H 11.7 *G* 0.15 *U* 1 Opp. 8 *n* 0.18372217 Ω 358.14725
rms res. 0".76 (M-v) 1932-1994 *e* 0.0355033 *i* 8.86991

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3967) Shekhtelia Obs. 33 *M* 136.08668 ω 2.05087
H 11.3 *G* 0.15 *U* 1 Opp. 6 *n* 0.16922274 Ω 101.94947
rms res. 0".74 (M-v) 1976-1996 *e* 0.0667984 *i* 17.55670

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(3988) 1986 LA Obs. 62 *M* 119.72055 ω 86.60088
H 18.2 *G* 0.15 *U* 2 Opp. 4 *n* 0.51331422 Ω 230.02182
rms res. 0".80 (M-v) 1986-1997 *e* 0.3166752 *i* 10.76685

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(3991) Basilevsky Obs. 28 *M* 316.33103 ω 355.61290
H 13.3 *G* 0.15 *U* 1 Opp. 7 *n* 0.29206593 Ω 283.06148
rms res. 0".80 (M-v) 1976-1996 *e* 0.1741848 *i* 3.87348

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4003) Schumann Obs. 35 *M* 259.03125 ω 99.12140
H 10.8 *G* 0.15 *U* 1 Opp. 7 *n* 0.15542197 Ω 191.55943
rms res. 0".65 (M-v) 1964-1993 *e* 0.0842863 *i* 5.03519

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4154) 1985 NE Obs. 27 *M* 318.61100 ω 244.54437
H 13.5 *G* 0.15 *U* 1 Opp. 5 *n* 0.24333546 Ω 358.88088
rms res. 0".82 (M-v) 1956-1994 *e* 0.1947410 *i* 6.74883

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4274) Karamanov Obs. 24 *M* 224.49071 ω 11.81998
H 12.8 *G* 0.15 *U* 1 Opp. 7 *n* 0.22354922 Ω 7.63917
rms res. 0".60 (M-v) 1949-1993 *e* 0.2366633 *i* 7.37777

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4278) Harvey Obs. 51 *M* 33.80983 ω 234.94178
H 14.0 *G* 0.15 *U* 1 Opp. 7 *n* 0.28874206 Ω 146.62883
rms res. 0".89 (M-v) 1954-1995 *e* 0.1765788 *i* 5.47432

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4359) Berlage Obs. 36 *M* 130.79823 ω 185.40854
H 13.7 *G* 0.15 *U* 1 Opp. 9 *n* 0.31182975 Ω 173.53260
rms res. 0".70 (M-v) 1935-1995 *e* 0.1653926 *i* 1.14099

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4367) Meech Obs. 28 *M* 154.26829 ω 67.53117
H 12.5 *G* 0.15 *U* 1 Opp. 6 *n* 0.20175110 Ω 6.75158
rms res. 0".87 (M-v) 1930-1996 *e* 0.2328134 *i* 11.16931

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4473) 1981 DE₂ Obs. 40 *M* 42.53767 ω 174.57440
H 12.7 *G* 0.15 *U* 1 Opp. 7 *n* 0.18806615 Ω 319.96537
rms res. 0".80 (M-v) 1981-1996 *e* 0.0393783 *i* 8.79583

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4645) Tentaikojo Obs. 29 *M* 48.90204 ω 293.47255
H 12.0 *G* 0.15 *U* 1 Opp. 7 *n* 0.22578140 Ω 179.99528
rms res. 0".90 (M-v) 1931-1994 *e* 0.1351083 *i* 9.46897

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4719) Burnaby Obs. 28 *M* 109.84606 ω 114.95628
H 12.0 *G* 0.15 *U* 1 Opp. 6 *n* 0.22264259 Ω 2.05138
rms res. 0".92 (M-v) 1969-1994 *e* 0.1767858 *i* 7.47006

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4763) Ride Obs. 33 *M* 29.64359 ω 211.13724
H 12.3 *G* 0.15 *U* 1 Opp. 7 *n* 0.22750930 Ω 333.57340
rms res. 0".71 (M-v) 1972-1996 *e* 0.1004744 *i* 11.43766

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(4768) Hartley Obs. 69 *M* 149.16843 ω 26.75339
H 11.3 *G* 0.15 *U* 1 Opp. 7 *n* 0.17276284 Ω 320.88105
rms res. 0".73 (M-v) 1981-1997 *e* 0.2262463 *i* 19.98188

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4783) Wasson Obs. 48 *M* 149.03547 ω 356.72257
H 13.7 *G* 0.15 *U* 1 Opp. 6 *n* 0.24169970 Ω 109.55574
rms res. 0".65 (M-v) 1983-1996 *e* 0.2089118 *i* 16.63511

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4869) 1989 UE₈ Obs. 40 *M* 108.67402 ω 217.27094
H 13.3 *G* 0.15 *U* 1 Opp. 8 *n* 0.29497145 Ω 96.40467
rms res. 0".76 (M-v) 1955-1996 *e* 0.1737356 *i* 3.54702

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(4936) 1985 UY₄ Obs. 39 *M* 49.67037 ω 283.82409
H 13.3 *G* 0.15 *U* 1 Opp. 7 *n* 0.28698622 Ω 155.91886
rms res. 0".72 (M-v) 1950-1991 *e* 0.1266158 *i* 5.90616

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5018) Tenmu Obs. 39 *M* 204.26916 ω 352.39246
H 14.3 *G* 0.15 *U* 1 Opp. 5 *n* 0.31088748 Ω 30.86407
rms res. 0".82 (M-v) 1977-1994 *e* 0.0597290 *i* 3.41142

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5286) Haruomukai Obs. 37 *M* 170.41426 ω 269.72559
H 12.2 *G* 0.15 *U* 1 Opp. 9 *n* 0.19796327 Ω 120.51099
rms res. 0".82 (M-v) 1949-1996 *e* 0.0235200 *i* 2.94933

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5404) Uemura Obs. 26 *M* 81.33094 ω 327.68563
H 12.5 *G* 0.15 *U* 1 Opp. 6 *n* 0.29109861 Ω 14.99111
rms res. 0".76 (M-v) 1982-1994 *e* 0.0654300 *i* 9.89189

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5502) Brashear Obs. 26 *M* 274.91504 ω 229.82735
H 12.6 *G* 0.15 *U* 1 Opp. 6 *n* 0.22559852 Ω 352.99247
rms res. 0".79 (M-v) 1981-1994 *e* 0.1276250 *i* 12.36760

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
(5507) Niijima Obs. 70 *M* 91.97062 ω 21.72798
H 13.4 *G* 0.15 *U* 2 Opp. 6 *n* 0.23774015 Ω 338.06001
rms res. 0".88 (M-v) 1983-1997 *e* 0.1348302 *i* 2.64596

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5529) Perry Obs. 26 *M* 297.17166 ω 234.62283
H 13.3 *G* 0.15 *U* 1 Opp. 5 *n* 0.28754977 Ω 14.48881
rms res. 0".69 (M-v) 1960-1994 *e* 0.1710693 *i* 4.81224

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5547) Acadiau Obs. 55 *M* 351.49804 ω 335.25841
H 12.4 *G* 0.15 *U* 1 Opp. 6 *n* 0.23284732 Ω 240.96989
rms res. 0".61 (M-v) 1980-1996 *e* 0.1204564 *i* 12.66395

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5605) 1993 DB Obs. 28 *M* 5.76233 ω 179.70505
H 13.2 *G* 0.15 *U* 1 Opp. 5 *n* 0.28953352 Ω 10.54293
rms res. 0".67 (M-v) 1942-1994 *e* 0.1039661 *i* 4.30667

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5740) 1989 WM₃ Obs. 24 *M* 226.63291 ω 18.77916
H 12.7 *G* 0.15 *U* 1 Opp. 5 *n* 0.23112191 Ω 49.48884
rms res. 0".70 (M-v) 1942-1993 *e* 0.1914786 *i* 13.53605

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(5930) Zhiganov Obs. 27 *M* 169.02110 ω 148.30427
H 13.5 *G* 0.15 *U* 1 Opp. 8 *n* 0.29207995 Ω 141.20947
rms res. 0".75 (M-v) 1950-1997 *e* 0.0903910 *i* 4.81555

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(6092) 1990 MN Obs. 28 *M* 237.29662 ω 200.43755
H 13.9 *G* 0.15 *U* 1 Opp. 7 *n* 0.27046234 Ω 132.54444
rms res. 0".76 (M-v) 1950-1994 *e* 0.2502681 *i* 9.50195

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(6377) 1987 ML₁ Obs. 34 *M* 99.08390 ω 116.22133
H 12.6 *G* 0.15 *U* 1 Opp. 6 *n* 0.23256517 Ω 125.43640
rms res. 0".82 (M-v) 1951-1995 *e* 0.1621524 *i* 15.45230

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(6677) Renoir Obs. 35 *M* 126.22480 ω 303.99952
H 11.4 *G* 0.15 *U* 1 Opp. 6 *n* 0.16793673 Ω 33.08529
rms res. 0".64 (M-v) 1957-1995 *e* 0.0876224 *i* 14.60341

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(6761) 1981 EV₁₉ Obs. 32 *M* 39.28992 ω 216.81946
H 14.4 *G* 0.15 *U* 1 Opp. 7 *n* 0.17534124 Ω 188.97696
rms res. 0".85 (M-v) 1951-1995 *e* 0.1441736 *i* 4.40613

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(6851) 1981 RO₁ Obs. 46 *M* 158.04163 ω 309.36408
H 14.3 *G* 0.15 *U* 1 Opp. 4 *n* 0.30301600 Ω 126.15239
rms res. 0".81 (M-v) 1981-1996 *e* 0.1255286 *i* 3.80961

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(6935) Morisot Obs. 29 *M* 170.04084 ω 155.53167
H 14.2 *G* 0.15 *U* 1 Opp. 5 *n* 0.28698156 Ω 227.81432
rms res. 0".67 (M-v) 1953-1996 *e* 0.0865677 *i* 0.54332

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(6993) 1995 BJ₄ Obs. 30 *M* 187.84444 ω 286.62068
H 12.0 *G* 0.15 *U* 1 Opp. 7 *n* 0.18028878 Ω 128.56508
rms res. 0".59 (M-v) 1954-1996 *e* 0.0944264 *i* 2.38839

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(7050) 1982 FE₃ Obs. 52 *M* 353.35859 ω 244.70906
H 13.0 *G* 0.15 *U* 1 Opp. 6 *n* 0.21076696 Ω 21.35193
rms res. 0".70 (M-v) 1982-1996 *e* 0.1860653 *i* 7.79361

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(7056) Kierkegaard Obs. 56 *M* 316.21331 ω 163.78919
H 12.8 *G* 0.15 *U* 1 Opp. 6 *n* 0.20928546 Ω 76.18274
rms res. 0".85 (M-v) 1989-1996 *e* 0.0470517 *i* 5.25215

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(7065) 1992 PU₂ Obs. 35 *M* 291.47482 ω 174.62898
H 12.4 *G* 0.15 *U* 1 Opp. 9 *n* 0.21266914 Ω 199.55266
rms res. 0".78 (M-v) 1949-1996 *e* 0.0371323 *i* 7.51810

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(7198) 1994 BJ Obs. 45 *M* 346.66751 ω 239.96388
H 12.6 *G* 0.15 *U* 1 Opp. 4 *n* 0.23565117 Ω 131.86588
rms res. 0".86 (M-v) 1951-1996 *e* 0.1860721 *i* 13.63245

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Bowell**
(7294) 1992 LM Obs. 43 *M* 96.58099 ω 70.10045
H 12.8 *G* 0.15 *U* 1 Opp. 6 *n* 0.22734247 Ω 74.56603
rms res. 0".65 (M-v) 1989-1996 *e* 0.0922682 *i* 6.70845

(7448)* 1948 AA = 1989 YW₆

Discovered 1948 Jan. 14 by W. Baade at Mount Wilson.

Id. R. Nagata (*MPC* 17011)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
M 261.21396 (2000.0) **P** **Q**
n 0.28207801 ω 292.04797 -0.81752029 +0.39861167
a 2.3026251 Ω 273.58781 -0.23856491 -0.89131249
e 0.1642724 *i* 24.61202 -0.52416349 -0.21603420
P 3.49 *H* 14.6 *G* 0.15 *U* 1

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

480114 672 (4.2+ 1.5+)	910709 675 1.2+ 0.7+	951223 658 0.6- 0.2-
480115 672(0.14+ 0.00+)	910709 675 0.5+ 1.2-	951223 658 0.7- 0.2-
480116 672 (2.8- 3.5+)	910711 675 0.7+ 0.3+	951223 658 1.0- 0.3-
480120 672 0.4+ 0.4+	910711 675 0.4+ 0.4+	961214 658 0.5- 0.4-
480212 672 (1.9+ 4.5+)	940415 413 1.4- 0.4+	961214 658 0.7- 0.5-
480213 672 0.5+ 2.5+	940415 413 0.9- 0.1-	961214 658 1.2- 0.5-
480311 672(22.9+ 4.9-)	940515 413 1.5+ 1.2+	970117 732 0.7+ 0.4+
891225 033 0.5- 0.7-	951030 658 0.8- 0.1-	970117 732 1.6+ 0.8-
891226 033 0.0 0.1+	951030 658 0.8- 0.1+	970126 732 0.5+ 0.1+
891226 033 0.3+ 1.5-	951030 658 1.0- 0.1+	970126 732 (3.0- 2.1+)

(7449)* 1949 QL = 1949 QZ = 1969 TV₃

Discovered 1949 Aug. 21 by K. Reinmuth at Heidelberg.

Id. K. Reinmuth (d, *MPC* 383), T. Kobayashi (*MPC* 11856)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5 **Williams**
M 69.94318 (2000.0) **P** **Q**
n 0.29744655 ω 25.75069 +0.99850027 -0.03183347
a 2.2226108 Ω 335.94751 +0.00612371 +0.87340664
e 0.1963492 *i* 6.27391 +0.05440322 +0.48595006
P 3.31 *H* 13.8 *G* 0.15 *U* 2

Residuals in seconds of arc

490820 690 0.4+ 0.8-	891103 399 1.4+ 1.4+	940214 675 0.3+ 1.3-
490821 024 0.3- 0.5+	891103 399 1.3- 1.1+	940214 675 0.2+ 1.7-
490822 024 (3.2+ 0.5-)	891103 399 1.4+ 0.4+	940314 675 0.2- 1.0+
490824 690(29.8- 46.4+)Y	891119 399 0.9+ 2.1+	940314 675 0.8+ 0.1+
490824 690 (3.3+ 1.8-)	891119 399 (1.3+ 3.8+)	961214 658 0.4- 0.2+
490826 690 (4.9+ 1.2-)	891119 399 (1.2+ 3.1+)	961214 658 1.1- 0.2+
691011 095 0.9+ 1.9-	891203 399 0.9+ 0.4-	961214 658 0.7- 0.2-
691014 095 (3.5+ 3.4-)	891203 399 0.2+ 0.4-	970202 118 0.2- 0.5+

891023	897	0.6–	1.0+	910312	675	0.8+	1.0–	970202	118	0.3–	0.6+
891023	897	0.7–	0.7+	910312	675	1.6–	0.3–	970203	118	0.2+	0.2+
891102	399	0.9–	0.5–	920925	801	0.3–	0.6–	970203	118	0.1+	0.2+
891102	399	0.6–	1.6–	920925	801	0.2–	0.0	970203	118	0.1+	0.2+
891102	399	1.5–	1.6–	921002	801	0.6+	0.4+				
891102	875	1.8+	1.1–	921002	801	0.8–	0.6+				

(7450)* 1968 OZ = 1993 GF

Discovered 1968 July 24 by L. I. Chernykh at Cerro El Roble.

Id. G. V. Williams (*MPC* 22221)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23258143	ω	99.96108	–0.87553910	–0.22698051		
<i>a</i>	2.6187017	Ω	67.97514	–0.02649609	–0.85888941		
<i>e</i>	0.1687717	<i>i</i>	27.39272	+0.48242018	–0.45911745		
<i>P</i>	4.24	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

680724	805	0.2–	1.0+	680727	805	0.1+	0.6–	930417	693	0.6+	0.1–
680724	805	1.2+	0.2–	680728	805	1.8–	0.3+	940815	413	0.0	0.3+
680724	805	0.1–	1.0+	930316	693	0.4+	0.2–	940815	413	0.2–	0.5+
680725	805	0.9+	1.4–	930316	693	1.9+	0.7–	961216	696	0.4–	0.2+
680725	805	(1.4+ 3.4–)		930317	693	1.1–	0.2–	961216	696	0.3–	0.1+
680725	805	0.8–	0.7+	930414	693	0.1+	1.0+	961216	696	0.3–	0.1+
680726	805	0.3–	0.6+	930414	693	0.5–	0.2–	970201	696	0.0	0.4–
680727	805	0.1–	0.9–	930415	693	0.3+	0.2+	970201	696	0.1+	0.4–
680727	805	0.0	1.8–	930415	693	1.1–	0.7–	970201	696	0.3+	0.5–
680727	805	0.3–	0.1–	930417	693	0.1+	1.9+				

(7451)* 1978 PU₂ = 1992 PG

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

Observatory.

Id. B. G. Marsden (*MPC* 20805), E. Bowell (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Marsden			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20941373	ω	197.22673	+0.96158559	+0.25698442		
<i>a</i>	2.8084451	Ω	147.38829	–0.22601683	+0.94070314		
<i>e</i>	0.1721566	<i>i</i>	10.31462	–0.15578685	+0.22144212		
<i>P</i>	4.71	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

511227	675	0.5+	1.5–	920726	010	0.5–	0.3+	920809	010	0.6–	0.6–
511227	675	0.5–	0.5–	920726	010	0.3–	1.5+	920809	010	0.1+	0.9+
780808	095	1.6–	1.4–	920804	675	0.0	0.1+	960525	292	0.0	0.4+
780903	095	(0.7– 5.5+)		920805	675	0.3+	0.1–	960525	292	1.2+	0.3–
780928	095	1.6+	1.3+	920805	675	0.1+	0.3–	960608	292	0.1–	1.1–
920705	675	1.6+	0.4–	920807	675	0.7+	0.4+	960608	292	0.2–	0.7–
920705	675	1.4+	0.8–	920807	675	0.4+	0.2+	960623	691	0.5–	0.5+
920725	010	0.7+	0.0	920808	010	0.7–	0.8–	960623	691	0.5–	0.5+
920725	010	0.5+	0.1+	920808	010	1.1–	0.9–	960623	691	0.3–	0.6+
920725	010	0.7+	0.4–	920808	010	1.5–	0.3–				
920726	010	0.0	1.1+	920809	010	0.8–	1.5–				

(7452)* 1978 QU₂ = 1989 RQ₃ = 1989 RP₅ = 1994 NH₁₀ = 1995 UB₄₉

Discovered 1978 Aug. 31 by N. S. Chernykh at the Crimean Astrophysical

Observatory.

Id. B. G. Marsden (*MPC* 26557), G. V. Williams (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Marsden

				P		Q	
<i>M</i>		(2000.0)					
<i>n</i>	0.17895107	ω	258.27338	+0.95783120	–0.28424751		
<i>a</i>	3.1187449	Ω	118.22834	+0.27868209	+0.88344437		
<i>e</i>	0.1913635	<i>i</i>	2.73132	+0.06996922	+0.37246396		
<i>P</i>	5.51	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

780831	095	1.0+	0.3–	940708	809	1.0+	2.0+	970118	369	(2.3+ 0.7+)
780905	095	0.1+	2.1+	940708	809	0.4+	1.6+	970118	369	0.2+ 1.6+
780927	095	2.0–	0.5–	940709	809	0.6–	0.0	970118	369	0.3+ 1.2+
890901	808	1.5+	0.2–	940709	809	1.1–	0.6+	970207	566	0.4+ 0.8+
890901	808	(6.5– 2.4–)		940709	809	0.7–	0.5+	970207	566	0.4+ 0.8+
890907	046	(3.1+ 1.0+)		951023	033	0.9–	0.5+	970207	566	0.7+ 0.6+
890907	046	(1.4+ 3.7+)		951024	033	0.0	0.2+			
940708	809	(2.4+ 2.2+)		951024	033	0.4–	0.7+			

(7453)* 1978 RV₁ = 1991 GX₆ = 1991 GN₁₄ = 1991 HL₃ = 1995 PD

Discovered 1978 Sept. 5 by N. S. Chernykh at the Crimean Astrophysical

Observatory.

Id. B. G. Marsden (*MPC* 25527)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Marsden

				P		Q	
<i>M</i>		(2000.0)					
<i>n</i>	0.28813305	ω	182.80170	+0.65526607	+0.75528532		
<i>a</i>	2.2702516	Ω	128.13853	–0.69274111	+0.60771682		
<i>e</i>	0.2041504	<i>i</i>	0.95113	–0.30122438	+0.24540649		
<i>P</i>	3.42	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

780901	095	(3.8+ 0.8+)		910419	809	0.7–	0.4–	950824	801	0.1+ 0.1–
780905	095	0.9+ 0.1–		910419	809	0.1+	0.2–	950824	801	0.1+ 0.3–
780907	095	1.0+ 0.2+		910419	809	0.6+	0.9–	950825	801	0.4– 0.2–
780912	095	1.6– 0.6–		910515	675	0.1+	1.2–	950825	801	0.1– 0.1–
780928	095	(2.9+ 1.6+)		910515	675	0.3–	1.1–	970109	691	0.5– 0.7–
781004	095	0.4– 0.7–		910517	675	0.9–	0.6+	970109	691	0.6– 0.5–
781008	095	0.8+ 0.7+		910517	675	0.0	0.3+	970109	691	0.6– 0.5–
781009	095	0.2– 0.3–		950804	557	0.3+	0.4–	970111	327	0.3+ 0.3–
910408	809	(2.7– 2.5–)		950804	557	0.4+	0.3–	970111	327	0.6+ 0.1–
910408	809	(2.3– 1.6–)		950804	557	0.1+	0.4–	970111	327	1.0+ 0.5–
910408	809	(3.3– 1.3–)		950804	557	0.2+	0.6–	970203	566	1.0– 0.9–
910410	809	(2.8– 2.5–)		950804	557	0.3+	0.2–	970203	566	0.2– 0.8–
910410	809	(2.2– 2.9–)		950804	557	0.2+	0.4–	970203	566	0.0 0.8–
910410	809	(2.6– 3.1–)		950804	557	0.1+	0.4–			

(7454)* 1981 EW₂₀ = 1989 VU₅

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring in the course of the

U.K. Schmidt-Caltech Asteroid Survey.

Id. E. Bowell (*MPC* 18621)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

				P		Q	
<i>M</i>		(2000.0)					
<i>n</i>	0.17458397	ω	301.27129	+0.72894108	+0.68456325		
<i>a</i>	3.1705393	Ω	15.52882	–0.62256745	+0.66548200		
<i>e</i>	0.1326995	<i>i</i>	0.90936	–0.28470101	+0.29750102		
<i>P</i>	5.65	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

781130	675	0.2−	0.7+	810329	413	1.0−	0.9+	920225	675	1.0+	1.2−
781201	675	0.1+	0.8+	810329	413	1.9−	1.5+	920306	809	0.2+	0.6+
810202	413	1.2+	1.8−	810408	413	0.9−	0.2−	920308	809	0.1−	0.9+
810213	413	0.1+	1.7−	810408	413	0.0	0.3−	920309	809	0.1−	0.6+
810302	413	1.1−	0.5+	810411	413	0.9−	0.5−	920406	809	0.2+	0.7−
810303	413	1.8+	1.2−	810411	413	0.3+	0.2−	961219	327	0.5+	0.3+
810303	413	0.9+	0.2−	810426	413	(1.1+	3.6−)	961219	327	1.8+	0.2−
810307	413	1.1−	1.2+	810502	413	0.6−	0.1+	961219	327	0.7−	0.2+
810307	413	1.2+	0.9−	891103	675	0.9−	1.3−	970206	691	0.4−	0.3+
810311	413	1.0+	0.7−	891103	675	1.0+	1.1−	970206	691	0.5−	0.7+
810316	413	1.1−	0.3−	891104	675	0.4+	0.7−	970206	691	0.7−	0.1+
810316	413	(2.6−	0.2−)	891104	675	0.6+	0.7−				

(7455)* 1981 EQ₂₆ = 1984 YT₄ = 1995 CG₅

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

Id. G. V. Williams (*MPC* 24894)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>		182.42861		(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>		0.20467006	ω	283.07043		+0.03724831	−0.99924606
<i>a</i>		2.8516737	Ω	164.78214		+0.93224884	+0.03080091
<i>e</i>		0.0126433	<i>i</i>	2.39052		+0.35989534	+0.02363495
<i>P</i>		4.82	<i>H</i>	13.0		<i>G</i>	0.15
						<i>U</i>	2

Residuals in seconds of arc

810209	413	0.0	0.0	810406	413	0.8−	0.7+	950201	691	0.2+	0.0
810212	413	0.6+	0.0	810406	413	0.3+	0.3+	950201	691	0.1+	0.3−
810213	413	0.7+	0.3−	810407	413	2.2−	1.7+	950202	691	0.2+	0.1+
810302	413	(2.9−	0.4+)	810407	413	2.1+	1.1−	950202	691	0.2+	0.1−
810302	413	0.2−	0.8−	810410	413	0.7−	1.9+	950202	691	0.2+	0.3−
810306	413	0.5+	0.6+	810410	413	0.1+	0.6−	950207	691	0.2−	0.1−
810311	413	1.7−	0.1−	810426	413	1.8+	0.8−	950207	691	0.2−	0.2−
810311	413	0.4+	0.7−	810501	413	1.0+	0.2+	950207	691	0.1−	0.1+
810315	413	1.2−	0.8−	841228	095	0.1+	0.4+	950221	691	0.3−	0.1+
810315	413	0.8+	1.2−	920827	675	0.2−	1.1−	950221	691	0.3−	0.1−
810405	413	1.2−	1.2+	920827	675	0.3+	0.6+	950221	691	0.3−	0.1−
810405	413	(2.8+	0.8−)	950201	691	0.2+	0.2+				

(7456)* 1982 OD = 1982 OU = 1990 HJ₇ = 1991 XT₆

Discovered 1982 July 17 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. S. Nakano (d, *MPC* 10752), E. Bowell (*MPC* 28294)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Nakano			
<i>M</i>		124.73315		(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>		0.23165347	ω	203.59973		+0.79501911	+0.56522683
<i>a</i>		2.6256904	Ω	120.14842		−0.50807647	+0.81876541
<i>e</i>		0.2949453	<i>i</i>	14.74880		−0.33136522	+0.10070667
<i>P</i>		4.25	<i>H</i>	13.1		<i>G</i>	0.15
						<i>U</i>	2

Residuals in seconds of arc

820717	688	(2.3−	3.5+)	820913	675	0.1+	0.2+	970127	327	0.4−	1.3+
820717	688	2.1−	0.8+	900422	675	0.0	0.1−	970127	327	1.0+	0.8+
820724	688	0.3+	0.2+	900422	675	0.0	0.2−	970204	327	1.1+	0.2+
820724	688	(0.1+	3.9−)	911201	675	0.4−	1.1−	970204	327	0.4−	0.4+

820729	323	0.2+	0.6−	911201	675	0.8+	0.2+	970204	327	0.2−	0.3+
820729	323	0.9+	0.0	970109	691	0.5−	0.4−	970206	327	0.2−	0.1+
820819	675	0.0	0.2+	970109	691	0.7−	0.3−	970206	327	0.1+	0.3−
820819	675	0.3−	1.3+	970109	691	0.6−	0.4−	970206	327	0.2−	0.1+
820913	675	0.6+	0.2−	970127	327	0.5+	1.5+				

(7457)* 1982 SL₆ = 1991 RZ₆

Discovered 1982 Sept. 16 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. G. V. Williams (*MPC* 19017)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>		61.12687		(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>		0.21730854	ω	338.84930		+0.97618525	+0.21647842
<i>a</i>		2.7400060	Ω	8.68465		−0.18318972	+0.85744492
<i>e</i>		0.0747764	<i>i</i>	5.36684		−0.11620625	+0.46682470
<i>P</i>		4.54	<i>H</i>	13.1		<i>G</i>	0.15
						<i>U</i>	1

Residuals in seconds of arc

820916	095	0.9+	2.2+	910913	033	0.9−	0.1−	950321	413	0.7+	0.1−
820919	095	1.7+	0.3+	910917	675	0.0	1.3−	950814	689	0.8+	1.0+
820921	095	1.8−	0.6+	910917	675	0.4+	0.9−	960910	327	0.2+	0.2−
820928	095	0.7−	0.5−	911107	675	0.2+	1.2−	960910	327	0.1−	0.4+
910902	413	0.7+	0.7+	911107	675	0.3+	1.4−	960910	327	0.3+	0.2−
910902	413	1.2+	0.2+	911109	675	0.3+	1.1−	960910	327	0.2−	0.2+
910903	413	0.8−	0.3+	911109	675	0.1−	1.3−	961012	689	0.7+	0.3+
910910	033	0.6−	0.2−	940406	691	0.5−	0.2−	961013	689	0.7+	0.9+
910910	033	0.4−	0.2+	940406	691	0.6−	0.7−	970208	566	0.1+	0.1+
910910	675	0.0	0.1+	940406	691	0.7−	0.6−	970208	566	0.5−	0.1+
910910	675	0.7−	0.8−	950321	413	0.4+	0.1+	970208	566	0.3+	0.0

(7458)* 1984 DE₁ = 1977 FL₃ = 1977 GQ

Discovered 1984 Feb. 28 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (*MPC* 12942)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Nakano			
<i>M</i>		225.33746		(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>		0.13166134	ω	235.51456		−0.92425146	+0.38139514
<i>a</i>		3.8267539	Ω	326.89603		−0.33912100	−0.84086673
<i>e</i>		0.1370971	<i>i</i>	1.80816		−0.17537441	−0.38403241
<i>P</i>		7.49	<i>H</i>	11.9		<i>G</i>	0.15
						<i>U</i>	1

Residuals in seconds of arc

770325	095	(4.2+	0.1−)	840309	809	1.4+	1.0−	940811	809	(1.5−	3.5−)
770326	095	(3.1+	1.8+)	840309	809	1.0+	0.8−	940902	691	1.6−	0.2+
770410	381	(9.5−	15.3−)	840309	809	0.6+	0.7−	940902	691	1.6−	0.2−
770410	381	(1.3+	18.1−)	840310	809	0.3+	0.3−	940902	691	1.2−	0.2−
840228	809	0.5−	0.4+	840310	809	0.0	0.1+	940903	809	1.1+	0.6+
840228	809	0.3−	0.4+	840310	809	0.4+	0.0	940903	809	1.4+	0.9−
840228	809	0.2−	0.2+	910207	675	0.6+	0.3−	940903	809	0.8+	0.6−
840301	809	0.1−	0.5−	910207	675	0.4+	0.3+	940904	809	1.6+	0.0
840301	809	0.3−	0.5−	920404	809	1.4−	0.7−	940904	809	1.2+	0.9+
840301	809	0.2−	0.5−	920404	809	1.8−	1.0−	940904	809	1.6+	0.1+
840303	809	0.4−	0.4+	920404	809	(2.2−	1.2−)	940909	691	1.2−	0.0
840303	809	0.4−	0.4+	920406	809	1.2−	0.3−	940909	691	1.4−	0.1−
840303	809	0.3−	0.2−	920406	809	1.2−	1.4−	940909	691	1.2−	0.0

840304	809	0.3−	0.3+	920406	809	1.7−	1.7−	951020	010	0.6+	0.6−
840304	809	0.1−	0.1+	920423	809	1.3+	0.5−	951020	010	0.9+	0.7−
840304	809	0.2+	0.5+	920423	809	0.2+	0.1+	951020	010	1.7+	0.1−
840305	809	0.2−	0.2−	920423	809	1.1+	0.1+	961104	684	0.5+	0.5−
840305	809	0.1−	0.1+	920425	809	1.0+	1.4−	961104	684	0.4+	0.4−
840305	809	0.0	0.2+	920425	809	0.6+	1.4−	961104	684	0.3+	0.4−
840306	809	0.1−	0.3+	920425	809	(1.1+	2.2−)	970203	691	(0.8−	2.1−)
840306	809	0.1+	0.6+	940810	809	1.1+	1.1−	970203	691	0.6−	1.4−
840306	809	0.3+	0.5+	940810	809	0.0	1.4−	970203	691	0.4−	1.3−
840308	809	0.5−	0.0	940810	809	0.0	1.4−	970210	691	0.6−	1.3−
840308	809	0.4−	0.1−	940811	809	(0.7−	4.2−)	970210	691	0.4−	1.3−
840308	809	0.5−	0.1−	940811	809	(2.0−	4.0−)	970210	691	0.1−	1.2−

(7459)* 1984 HR₁ = 1985 RM₄

Discovered 1984 Apr. 28 by W. Ferreri and V. Zappalà at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 10763)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Marsden			
<i>M</i>	315.52388	(2000.0)	P	Q	
<i>n</i>	0.23529933	ω	235.24206	−0.04239233	+0.99785459
<i>a</i>	2.5984972	Ω	32.43786	−0.88357527	−0.01413440
<i>e</i>	0.1476658	<i>i</i>	5.33699	−0.46636642	−0.06392521
<i>P</i>	4.19	<i>H</i>	12.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

840428	809	0.9+	0.1−	850915	809	1.4+	1.0+	880414	054	0.1+	0.1−
840428	809	1.3+	0.1−	850915	809	1.5+	1.0+	920301	809	0.2−	1.7+
840429	809	0.3+	0.3+	850916	809	1.3−	0.4+	920304	809	0.5−	0.7+
840429	809	0.4+	0.3+	850916	809	1.1−	0.3+	920309	809	0.7+	1.5+
840502	809	0.0	0.8+	850916	809	0.8−	0.3+	920406	809	0.6−	1.2+
840502	809	0.5−	1.0+	850918	809	0.1+	0.0	930725	675	0.4−	0.6−
840502	095	0.5+	1.6+	850918	809	0.2+	0.2−	930725	675	0.2+	0.2+
840505	809	0.6+	0.9+	850918	809	0.3+	0.2−	930813	675	0.5+	1.5−
840505	809	0.7+	0.8+	850919	809	1.2−	1.2−	930813	675	0.5+	1.0−
840505	095	0.6−	0.6+	850919	809	1.2−	1.2−	931009	675	0.2+	0.9−
850911	809	0.1+	1.4+	850919	809	1.1−	1.0−	960124	411	0.1+	0.6−
850911	809	0.1+	1.1+	850920	809	0.7−	0.3+	960124	411	0.3+	0.1−
850911	809	0.2+	1.1+	850920	809	1.1−	0.5+	960317	801	0.5+	0.2−
850914	809	0.6−	2.2+	850921	809	0.6−	0.4+	960317	801	0.6+	0.0
850914	809	0.5−	2.3+	850921	809	0.7−	0.3+	960319	801	0.3+	0.3+
850914	809	0.4−	2.2+	850921	809	0.6−	0.2+	960319	801	0.4+	0.3+
850915	809	1.4+	1.2+	880413	054	0.5+	0.5+				

(7460)* 1984 JN = 1993 TD₃₀

Discovered 1984 May 9 by J. Gibson at Palomar.

Id. G. V. Williams (*MPC* 23236)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Williams			
<i>M</i>	161.11878	(2000.0)	P	Q	
<i>n</i>	0.26059666	ω	59.02870	−0.96885404	−0.24175658
<i>a</i>	2.4274865	Ω	106.93535	+0.20375925	−0.90134780
<i>e</i>	0.1256888	<i>i</i>	3.21344	+0.14072678	−0.35934092
<i>P</i>	3.78	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

840421	675	0.2+	0.1+	931009	809	0.0	1.4+	950307	033	0.0	0.0
840507	675	0.5+	1.0+	931009	809	0.8−	1.5+	950323	033	0.1+	0.9+
840508	675	0.2+	0.6+	931009	809	0.2−	0.9+	950323	033	0.5−	0.4+
840509	675	0.1+	1.5+	931011	809	0.4+	0.9+	950402	801	0.2−	0.4+
910122	675	0.6−	0.4−	931011	809	1.3−	0.2+	950402	801	0.0	0.7+
910122	675	0.3−	0.8−	931011	809	(2.4−	1.1+)	950403	801	1.4+	1.2−
910210	675	0.3+	0.6+	950304	033	0.1−	0.0	950403	801	0.1−	0.4+
910210	675	1.0+	1.3+	950305	033	0.1−	0.2−				

(7461)* 1984 TD = 1990 TE₁₄

Discovered 1984 Oct. 3 at the Oak Ridge Observatory.

Id. H. Kaneda (*MPC* 18110)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Williams			
<i>M</i>	18.63584	(2000.0)	P	Q	
<i>n</i>	0.17064058	ω	108.57854	+0.84977278	−0.52714705
<i>a</i>	3.2191991	Ω	283.23438	+0.48307300	+0.77984564
<i>e</i>	0.1599367	<i>i</i>	0.08739	+0.21101351	+0.33757483
<i>P</i>	5.78	<i>H</i>	13.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

840927	033	0.4−	0.5−	920205	691	0.0	0.2−	961213	691	0.0	0.4+
840927	033	0.3−	1.0−	920205	691	0.1+	0.3−	961213	691	0.3−	0.3+
841003	801	1.5+	0.2−	920205	691	0.4−	0.3−	961213	691	0.1−	0.3+
841019	801	0.3−	1.0+	930321	809	(2.1−	2.9−)	970206	691	0.2+	0.2+
901014	033	0.4+	0.3−	930322	809	1.0−	1.9−	970206	691	0.1+	0.1+
901014	033	0.4−	0.7−	930324	809	0.7+	0.7+	970206	691	0.2+	0.2+
901014	033	0.0	0.2−	930421	413	0.1−	0.3+				

(7462)* 1984 WM₁ = 1972 GX = 1977 VF₁ = 1982 DO

Discovered 1984 Nov. 20 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. T. Kobayashi (*MPC* 12205)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Williams			
<i>M</i>	153.27546	(2000.0)	P	Q	
<i>n</i>	0.28858509	ω	121.83748	−0.07597749	−0.99602413
<i>a</i>	2.2678803	Ω	332.40563	+0.87754361	−0.04464563
<i>e</i>	0.1105817	<i>i</i>	5.76292	+0.47343915	−0.07708894
<i>P</i>	3.42	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

720412	095	0.1+	1.3+	841121	675	(3.1−	1.7+)	941010	563	(0.7+	2.4+)
771109	049	1.1+	0.4+	841127	688	2.3−	0.5+	941010	563	0.6+	1.2+
771109	049	0.4+	0.2+	841127	688	0.5+	0.5−	941013	689	0.3+	0.5+
771109	049	0.5−	0.6−	870923	095	1.6−	0.7−	941107	675	0.2−	1.1−
771109	049	0.9−	0.0	920107	801	0.9−	1.3+	941107	675	0.2−	0.2−
820221	688	0.8−	1.0−	920107	801	0.9−	1.3+	960130	809	1.0−	2.0+
820221	688	0.6+	0.9−	940930	675	0.1−	0.8+	960131	809	0.1+	1.8+
820228	688	(1.7−	3.6−)	940930	675	0.4+	1.0+	960228	809	0.6+	0.2−
820228	688	1.1+	1.6−	941004	689	0.2+	0.2+	960229	809	0.8+	0.1−
841120	688	(2.2−	2.6−)	941005	689	0.1+	0.3+				
841120	688	1.6+	1.3−	941009	689	0.3+	0.4+				

(7463)* 1985 SB = 1995 EW_s

Discovered 1985 Sept. 20 by T. Seki at Geisei.

Id. G. V. Williams (*MPC* 25424)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Williams					
<i>M</i>	356.11347		(2000.0)	P			Q		
<i>n</i>	0.25970508		ω	348.36800			+0.94706429 +0.32076591		
<i>a</i>	2.4330391		Ω	352.87997			−0.28523246 +0.82159503		
<i>e</i>	0.1687928		<i>i</i>	6.18730			−0.14734884 +0.47126515		
<i>P</i>	3.80		<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2	
Residuals in seconds of arc									
850920 372	0.0	0.5+	851022 372	1.8−	0.9+	891128 675	0.1−	0.1+	
850920 372	1.0+	0.1−	851203 372	1.0+	0.7−	910210 675	0.7+	0.2+	
850921 095	(1.6+ 2.6−)		851203 372	1.6−	0.3+	910210 675	0.3−	0.1−	
850925 372	1.4+	1.0+	880514 675	0.2+	0.5+	941209 691	2.0−	0.3−	
851006 372	(3.6− 2.9−)		880514 675	0.3+	0.4+	941209 691	1.2−	0.3+	
851006 372	(5.2− 1.3−)		880515 675	0.1−	0.4+	950224 033	0.7+	0.2−	
851018 095	1.3+	1.2−	880515 675	0.1−	0.2−	950305 033	0.3−	0.1−	
851019 372	1.2−	1.2−	891105 675	0.3−	0.7+	950305 033	0.4+	0.0	
851019 372	0.4+	0.5+	891105 675	0.1−	0.5−	950307 033	0.6+	0.3−	
851022 372	0.3−	0.7−	891128 675	0.0	1.3+				

(7464)* 1987 VB₁ = 1987 WE₄ = 1954 UQ = 1991 RJ₂₆

Discovered 1987 Nov. 15 by A. Mrkos at Kletř.

Id. F. N. Bowman (d, *MPC* 13145), E. Bowell (*MPC* 20332, *MPC* 20501),G. V. Williams (*MPC* 20501)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Williams					
<i>M</i>	77.80689	(2000.0)		P		Q			
<i>n</i>	0.23987053	ω	15.27719	+0.83488479		-0.54956955			
<i>a</i>	2.5653785	Ω	18.16043	+0.49413036		+0.72378432			
<i>e</i>	0.2687540	<i>i</i>	5.64734	+0.24249242		+0.41726439			
<i>P</i>	4.11	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2		
Residuals in seconds of arc									
541022 760	(1.0− 4.1+)		911008 675	0.6−	0.2−	951021 046	1.4+	0.3−	
541022 760	(0.5+ 3.3+)		950823 046	(3.4− 2.8−)		951021 046	0.5+	0.5−	
541123 675	1.1− 0.3−		950823 046	(3.7− 2.9−)		951021 046	0.6−	0.4−	
541123 675	0.6+ 1.5+		950823 046	(4.4− 2.6−)		951126 046	0.2−	0.5+	
871028 095	0.3− 0.9+		950904 046	0.1− 0.2+		951126 046	0.0	0.4+	
871115 046	(0.9− 4.0−)		950904 046	0.6+ 0.7+		951126 046	0.2−	0.5+	
871115 046	1.1+ 1.5−		950904 046	0.0 0.4+		951217 046	0.4−	1.2−	
871123 046	(4.3+ 3.2−)		950916 046	0.2+ 0.4−		951217 046	0.5−	1.1−	
871123 046	(4.7+ 5.3−)		950916 046	0.2+ 0.1−		951217 046	0.4−	1.0−	
871125 046	0.4− 1.3−		950916 046	0.3+ 0.4−		960123 704	0.9+	0.3+	
871125 046	(2.9+ 2.7−)		950917 046	0.4− 0.2−		960123 704	(3.5+ 2.1+)		
910911 675	0.9+ 0.0		950917 046	0.3− 0.1−		960123 704	0.0	1.8+	
910911 675	0.3− 0.4+		950917 046	0.2− 0.2−		960124 704	0.1−	0.7+	
910913 675	0.5− 0.2−		951016 046	0.1+ 0.0		960124 704	0.1+	1.0+	
910913 675	0.2− 0.1−		951016 046	0.2− 0.0		960124 704	0.0	0.5+	
911008 675	0.2+ 0.9+		951016 046	0.2− 0.0					

(7465)* 1989 UA₃ = 1992 PN

Discovered 1989 Oct. 31 by B. G. W. Manning at Stakenbridge.

Id. B. G. Marsden (*MPC* 20818)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Marsden				
<i>M</i>	45.39710		(2000.0)	P		Q		
<i>n</i>	0.29231131	ω	193.49843	+0.91086012	−0.41263477			
<i>a</i>	2.2485660	Ω	190.88278	+0.38255304	+0.85153649			
<i>e</i>	0.1653065	<i>i</i>	2.47347	+0.15487741	+0.32344730			
<i>P</i>	3.37	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	1	
Residuals in seconds of arc								
891031 494	1.5+	1.1−	920809 010	0.2+	0.4−	970113 494	0.3+	0.0
891031 494	1.6+	1.5−	920809 010	1.4+	0.1+	970113 494	0.9+	0.0
891104 494	1.0−	0.4−	940215 675	1.5−	1.5−	970114 494	1.4+	0.5−
891104 494	2.0−	0.0	940215 675	(0.5+	3.0−)	970126 494	0.3−	0.6−
891105 494	0.9−	0.7+	940220 413	0.2+	0.7−	970126 494	0.7−	0.2−
891106 978	0.2+	2.2+	940220 413	0.1−	0.7−	970126 494	0.5−	0.2−
891125 494	1.7−	0.1−	940221 413	0.1+	0.7−	970205 494	0.9+	1.5−
891125 494	1.4+	0.6+	940221 413	0.2+	0.7−	970207 494	0.3+	0.1−
891129 494	0.9+	0.0	940322 413	0.1+	0.2+	970207 494	0.4+	0.9−
920808 010	0.6+	0.0	940322 413	0.1+	0.1+	970213 494	0.9−	1.3+
920808 010	0.0	1.5−	940329 494	0.2−	1.1+	970213 494	1.5−	0.3+
920808 010	1.0−	0.6−	940329 494	0.2+	0.6+	970213 494	1.1−	0.7+
920809 010	0.3−	1.0−	970113 494	0.1+	0.4−			

(7466)* 1989 VC₂ = 1989 TG₂ = 1983 VJ₁

Discovered 1989 Nov. 2 by T. Hioki and N. Kawasato at Okutama.

Id. S. Nakano (*MPC* 17021)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Nakano					
M	70.44572		(2000.0)	P		Q			
n	0.16059058	ω	349.83870	+0.98910031		-0.14293517			
a	3.3521440	Ω	18.49169	+0.14170559		+0.85881586			
e	0.1362171	i	6.40048	+0.04000126		+0.49193988			
P	6.14	H	12.0	G	0.15	U	1		
Residuals in seconds of arc									
831106 046	(8.0+ 1.7+)		891102 877	1.8+	0.9+	930512 376	1.1+	1.0+	
831106 046	(6.2+ 1.1+)		891103 675	0.8-	0.2+	950830 801	0.0	1.4+	
831107 046	0.6-	1.0-	891103 675	0.3-	0.3-	950830 801	0.1-	1.4+	
831107 046	1.1-	1.8-	891104 675	0.6-	1.1-	950927 071	1.1-	0.5+	
831108 046	0.1+	0.7-	891104 675	0.2-	0.6-	950928 071	(4.0+ 1.0+)		
831108 046	1.2+	0.7-	891104 877	0.9-	0.0	950929 801	0.1-	1.5+	
831109 046	1.5+	0.1-	891104 877	0.2-	1.2+	950929 801	0.3-	0.5-	
831109 046	1.4+	0.8-	910119 675	0.4-	0.5+	951024 801	0.8-	1.0+	
890930 675	1.0-	0.1-	910119 675	0.5+	0.7+	951024 801	0.7-	1.0+	
890930 675	0.7+	0.4-	930419 675	0.8+	0.4-	961230 376	1.1-	0.6+	
891009 877	(2.3+ 0.7-)Y		930419 675	0.6-	0.4-	961230 376	0.4+	1.8+	
891009 877	(2.7+ 2.8+)Y		930426 376	0.0	1.0+	961230 376	0.3+	0.6+	
891029 877	0.2-	0.9+	930426 376	0.8+	1.5+	970103 376	(3.0+ 0.1+)		
891029 877	(1.0- 2.4+)		930426 376	0.4-	1.4+	970103 376	0.8+	0.0	
891102 877	0.1+	0.5+	930512 376	(2.1+ 1.8+)		970201 376	0.1+	0.4+	

(7467)* 1989 WQ₁

Discovered 1989 Nov. 25 by S. Ueda and H. Kaneda at Kushiro.

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	61.55549	(2000.0)	P	Q
<i>n</i>	0.46327755	ω 41.40219	-0.32838327	-0.90914707
<i>a</i>	1.6541512	Ω 69.21022	+0.77842677	-0.41409382
<i>e</i>	0.1268186	<i>i</i> 15.90222	+0.53499176	+0.04447364
<i>P</i>	2.13	<i>H</i> 15.2	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

780809 413	1.5-	1.3-	891206 399	(6.8-	4.1+)	950604 413	0.9-	0.2-
780809 413	1.5+	0.8+	891217 399	(2.7-	0.6+)	950619 413	0.4-	0.5-
880217 381	0.5-	1.1+	891217 413	0.3+	0.6-	950619 413	0.3-	0.5-
880217 381	0.6-	1.9-	891217 399	1.0-	0.7-	950620 413	0.1-	0.7-
880217 381	0.3-	0.4+	891217 413	1.7+	0.8-	950620 413	0.5-	0.6-
880217 381	0.7+	0.9-	891218 399	1.8+	0.6-	950706 413	0.2+	0.0
880218 381	0.9+	1.2+	930812 413	0.9+	0.6-	950706 413	0.3+	0.0
880218 381	(2.9-	3.0-)	930812 413	0.1+	0.5+	950720 413	0.3-	0.5+
880218 381	0.6-	2.0+	931120 413	0.4-	0.5-	950720 413	0.3-	0.6+
880218 381	0.2+	1.5-	931120 413	0.3-	0.3-	950805 413	0.1+	0.2+
891125 399	(2.7+	1.9-)	940121 413	0.2-	0.3-	950805 413	0.1+	0.1+
891125 399	(1.0-	2.8-)	940121 413	0.4-	0.1+	950907 413	0.1+	0.3+
891125 399	0.3-	0.3+	950321 413	0.7+	0.8+	950907 413	0.4+	0.1+
891129 675	1.5+	1.2+	950321 413	0.8+	1.1+	950912 413	0.1-	0.7+
891201 399	1.2-	0.2+	950322 413	0.7+	0.0	950912 413	(2.6-	0.0)
891201 399	(3.2-	2.4+)	950322 413	0.4+	0.8+	951208 413	0.2-	0.1-
891201 399	0.2+	0.1+	950417 413	0.6+	1.0-	951208 413	0.2+	0.3+
891202 675	0.1-	0.6+	950417 413	1.1+	0.4-	960109 413	0.7+	0.0
891206 399	2.2-	0.5+	950604 413	1.1-	0.2-	960109 413	0.4+	0.2+

(7468)* 1990 UP₁₁ = 1990 VV₁₄ = 1990 WH₁₄ = 1974 VL₃ = 1979 ST₇
= 1981 AE₃ = 1995 SA₃₀

Discovered 1990 Oct. 17 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. S. Nakano (*MPC* 20913, *MPC* 25957)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	61.07266	(2000.0)	P	Q
<i>n</i>	0.18542319	ω 333.31209	+0.83988611	-0.53875085
<i>a</i>	3.0457437	Ω 59.44000	+0.51064256	+0.74321244
<i>e</i>	0.1183668	<i>i</i> 4.38714	+0.18394428	+0.39671499
<i>P</i>	5.32	<i>H</i> 12.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

741115 095	(2.1-	8.3+)	901121 095	1.3+	0.5-	950930 400	0.5+	0.6+
741117 095	0.0	0.9-	950823 033	0.3+	0.1-	950930 400	1.5+	0.6-
790923 095	(3.3+	3.8-)	950824 033	1.4+	0.4-	951002 894	1.1+	0.2+
810108 381	0.1+	0.0	950917 894	1.6-	0.7+	951002 894	0.5-	0.5-
810108 381	0.2+	0.6-	950917 894	2.1-	0.4+	951020 691	0.9-	0.7+
901017 095	0.1-	0.1+	950920 894	1.1-	0.4-	951020 691	1.0-	0.7+
901017 095	1.3-	0.8-	950920 894	1.2-	0.7+	951020 691	1.0-	0.5+
901115 095	(6.5+	0.1+)	950921 033	1.4+	0.1+	961209 801	0.2+	0.6+
901115 095	0.2-	0.0	950921 033	0.8+	0.7-	970116 599	0.1+	0.0
901117 399	(4.0-	0.5+)	950922 400	0.4+	1.1-	970116 599	0.4-	0.6+
901117 399	(4.8-	0.7+)	950922 400	0.8+	0.1+			
901121 095	0.9+	0.9+	950923 033	0.6+	0.2+			

(7469)* 1990 VU₁₄ = 1990 UM₁₃ = 1990 WU₁₁ = 1979 UJ₁

Discovered 1990 Nov. 15 by L. I. Chernykh at the Crimean Astrophysical

Observatory.

Id. A. Lowe (d, *MPC* 19867), G. V. Williams (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	2.82725	(2000.0)	P	Q
<i>n</i>	0.18435345	ω 19.10889	-0.17955459	-0.97459921
<i>a</i>	3.0575145	Ω 81.40852	+0.88402704	-0.21954465
<i>e</i>	0.1077160	<i>i</i> 7.78011	+0.43157426	+0.04423257
<i>P</i>	5.35	<i>H</i> 11.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

791021 805	0.7+	1.9+	901123 809	1.1+	1.0-	960130 709	0.4+	1.2+
791023 805	1.6-	0.2-	951018 684	0.0	0.0	961201 689	(8.8-	0.5+)
791023 805	0.1-	0.3+	951018 684	0.2-	0.1+	961209 801	0.2+	1.2-
901028 095	(1.3-	4.2-)	951018 684	0.1-	0.4+	970130 684	0.0	0.2+
901029 095	(0.0	4.6-)	960127 684	0.2-	0.4+	970130 684	0.3-	0.8+
901115 095	(8.3+	0.8-)	960127 684	0.4-	0.3+	970130 684	0.2-	0.7+
901115 095	0.1+	1.1-	960127 684	1.0-	0.1-	970202 684	0.1+	0.5+
901121 095	(0.3-	6.8-)	960130 709	0.0	0.6+	970202 684	0.1+	0.4+
901121 095	(2.1-	6.5-)	960130 709	0.2+	0.1+	970202 684	0.1+	0.4+
901123 809	0.5+	1.5-	960130 709	0.6-	0.3+			
901123 809	0.5+	1.4-	960130 709	0.1-	0.7+			

(7470)* 1991 JA = 1984 GT = 1984 HQ

Discovered 1991 May 2 by T. Urata at the Nihondaira Observatory.

Id. T. Urata (*MPC* 18441)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	220.03495	(2000.0)	P	Q
<i>n</i>	0.28465963	ω 158.28701	-0.79390147	+0.59688885
<i>a</i>	2.2886820	Ω 58.88552	-0.57590482	-0.67695975
<i>e</i>	0.0662475	<i>i</i> 7.78365	-0.19507458	-0.43063813
<i>P</i>	3.46	<i>H</i> 13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

840407 372	1.9-	0.6-	940116 385	0.6-	0.3+	940306 887	0.2-	0.4+
840407 372	0.9-	0.6-	940116 385	0.3-	0.3+	940306 887	0.4-	0.4+
840407 372	0.2+	1.3-	940119 385	0.4+	0.0	940306 887	0.7-	0.4+
840419 046	1.9+	1.5-	940119 385	0.0	0.5-	970106 385	0.7+	0.1+
840419 046	1.8-	1.0-	940119 385	0.4+	0.0	970106 385	0.2+	0.3+
910502 385	1.6+	1.9+	940202 385	0.3+	0.6+	970106 385	0.2+	0.1-
910502 385	0.9+	1.8+	940202 385	0.0	0.3+	970109 385	0.7-	0.3+
910503 385	(2.5+	3.6+)	940202 385	0.4-	0.2+	970109 385	0.7-	0.3+
910503 385	1.0-	1.2+	940207 385	0.5+	0.5-	970204 385	0.4+	0.8-
910505 385	(0.4-	2.5+)	940207 385	0.8+	0.1-			
910517 385	0.8+	0.2-	940207 385	0.5+	0.3-			

(7471)* 1991 YD = 1969 BH = 1994 PG₂₀ = 1994 RP₁₉

Discovered 1991 Dec. 28 by N. Kawasato at Uenohara.

Id. B. G. Marsden (*MPC* 24390), G. V. Williams (*MPC* 26902)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Marsden				
<i>M</i>	90.48908		(2000.0)		P		Q		
<i>n</i>	0.25508526	ω	117.76187		-0.34974260		-0.93677037		
<i>a</i>	2.4623274	Ω	352.67961		+0.82334603		-0.30129075		
<i>e</i>	0.1603155	<i>i</i>	5.35463		+0.44696916		-0.17800325		
<i>P</i>	3.86	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2		
Residuals in seconds of arc									
690120 095	0.5+	1.2+	920124 376	0.4-	0.2+	940905 809	0.4-	0.9-	
911228 376	0.7+	0.3-	920201 376	0.6-	1.2+	940906 809	1.0+	0.3+	
911228 376	0.7+	0.1+	920207 376	0.1+	0.9+	940906 809	0.1-	0.0	
911230 376	0.3-	0.5-	920207 376	0.3-	0.9+	940906 809	0.7-	0.2-	
911230 385	0.8-	1.4-	920222 376	(2.9+	0.2+)	960210 376	0.3-	0.4+	
911230 385	0.3+	1.8+	920222 376	1.3+	0.1+	960210 376	0.6-	0.3+	
911230 376	0.7+	0.4-	940812 809	0.0	0.5+	960210 376	0.3+	0.2+	
911230 399	(2.1-	0.3+)	940812 809	1.4-	0.3+	960224 376	0.4+	0.6+	
911230 399	0.8+	0.5-	940812 809	1.1-	1.5+	960224 376	0.3+	0.0	
911231 385	0.7-	1.0-	940813 809	0.1+	1.0+	960224 376	0.4-	0.3+	
911231 385	1.7-	0.4-	940813 809	1.2+	1.0+	960321 801	0.2+	0.2-	
920110 376	0.2-	0.7-	940813 809	0.1+	1.7+	960321 801	0.2+	0.1-	
920110 376	0.6+	0.5-	940905 809	0.8+	1.9-	960324 801	0.0	0.9-	
920124 376	0.1+	0.6+	940905 809	0.5-	1.3-	960324 801	0.1-	0.7-	

(7472)* 1992 CU = 1969 VC₂ = 1990 WG₃

Discovered 1992 Feb. 13 by M. Akiyama and T. Furuta at Mishima.

Id. S. Nakano (*MPC* 19873)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Nakano			
M	321.98179	(2000.0)		P		Q	
n	0.18881511	ω	77.96668	-0.93722526		-0.30366608	
a	3.0091572	Ω	84.16867	+0.21304333		-0.88782764	
e	0.1116894	i	9.92411	+0.27608215		-0.34575856	
P	5.22 <th>H</th> <td>11.9<th>G</th><td>0.15<th>U</th><td>1</td></td></td>	H	11.9 <th>G</th> <td>0.15<th>U</th><td>1</td></td>	G	0.15 <th>U</th> <td>1</td>	U	1
Residuals in seconds of arc							
691115 095	(0.3-	4.2-)	920225 886	0.1-	0.7+	961212 327	1.0+
901118 809	1.6-	0.4-	920225 886	1.0-	0.9+	961212 327	0.7+
901118 809	0.5-	0.2-	920226 886	0.2+	1.7+	970112 367	0.3+
901118 809	0.0	0.3+	920226 886	0.2+	1.9+	970112 367	0.3+
901119 809	0.2-	0.7+	940903 801	0.4-	0.3+	970128 886	0.8-
901119 809	0.7+	0.5+	940907 675	0.0	0.9+	970128 886	1.2-
901119 809	0.8+	1.3+	940907 675	0.1+	0.4-	970129 886	1.3-
920213 886	1.5+	0.2-	961202 327	0.2+	0.4-	970129 886	0.8-
920213 886	1.6+	1.3-	961202 327	0.9+	0.4-	970214 367	0.2-
920214 886	0.0	1.2+	961202 327	0.1+	0.3-	970214 367	0.3+
920214 886	0.6-	0.2-	961212 327	0.3+	0.1-		

(7473)* 1992 EC₄ = 1982 BB₁₀ = 1990 WZ₁₂ = 1994 PD₂₄

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* 25427)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Williams			
M	135.47953		(2000.0)	P		Q	
n	0.20595151	ω	246.43265	+0.98877620	-0.14210779		
a	2.8398325	Ω	121.70823	+0.14903784	+0.91657482		
e	0.0824246	i	3.10760	+0.01045718	+0.37375924		
P	4.79	H	12.7	G	0.15	U	1
Residuals in seconds of arc							
820119 095	0.9+	0.2+	920301 809	0.2-	0.4+	940905 809	(4.8+ 1.2+)
901124 400	1.3-	0.9+	920304 809	0.2+	0.4+	940905 809	(4.6+ 1.5+)
901124 400	0.6-	0.9+	920306 809	1.4-	0.3+	940905 809	(3.9+ 0.8+)
920204 675	1.2-	0.2-	940812 809	0.2+	0.3-	940909 675	1.9+ 0.9+
920204 675	0.5-	0.9+	940812 809	0.3-	0.8-	940909 675	0.8+ 0.3-
920227 675	0.2+	1.1-	940812 809	0.3-	0.6-	951122 120	0.7+ 0.2+
920227 675	0.4-	0.8-	940813 809	0.2-	0.3-	951122 120	0.2+ 0.1+
920228 675	0.7+	0.7-	940813 809	0.1-	0.4-	951223 801	0.2+ 1.5-
920228 675	1.0+	0.6-	940813 809	0.8-	0.8-	951223 801	0.4+ 1.6-

(7474)* 1992 TC

Discovered 1992 Oct. 1 by R. H. McNaught at Siding Spring.

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
Williams									
<i>M</i>	37.85009		(2000.0)	P		Q			
<i>n</i>	0.50307727	ω	275.39643	+0.98976790		-0.07169129			
<i>a</i>	1.5657157	Ω	88.75599	+0.11545365		+0.91044307			
<i>e</i>	0.2921268	<i>i</i>	7.08825	-0.08384486		+0.40737424			
<i>P</i>	1.96	<i>H</i>	18.0	<i>G</i>	0.15	<i>U</i>	1		
Residuals in seconds of arc									
900819 413	1.0-	0.6+	940725 413	0.7+	0.5+	941223 587	0.2+	0.6+	
921001 413	0.2+	0.9+	940725 413	0.4+	0.5+	941223 587	0.2+	0.0	
921004 413	0.1+	1.3-	940812 587	0.1-	1.2+	950122 658	1.4-	0.5-	
921004 413	0.8+	1.2-	940812 587	0.3+	0.2-	950122 658	0.5+	0.5+	
921004 413	0.9+	1.1+	940815 413	0.2-	0.5+	950123 658	0.2-	0.6-	
921004 474	0.2-	0.3-	940815 413	0.2-	0.5+	950123 658	0.8-	1.0-	
921004 474	0.0	0.1-	940917 413	1.6-	0.2+	960609 413	0.0	0.7+	
921005 413	1.5+	0.0	940928 691	0.9-	0.7+	960609 413	0.8-	0.9+	
921005 413	1.3+	0.2+	940928 691	(2.1-	0.8+)	960621 413	0.3-	0.0	
921005 413	0.9+	0.3-	940928 691	0.5-	0.6+	960621 413	0.7-	0.6+	
921006 413	0.2-	0.4-	940929 691	1.3-	0.5+	960920 711	0.9+	0.5-	
921006 413	0.2-	0.4-	940929 691	1.3-	0.8+	960920 711	1.0+	0.1-	
921007 413	0.3-	0.7-	940929 691	1.7-	0.4+	961012 711	0.5-	0.1+	
921007 413	0.1-	0.6-	941003 658	1.2-	0.3+	961012 711	0.9+	0.2+	
921009 413	0.1-	0.4-	941003 658	1.4-	0.0	961013 711	1.7+	0.0	
921009 413	0.1-	0.6-	941004 801	0.6-	1.7+	961013 711	1.0+	0.1+	
921009 413	0.5-	0.6-	941004 658	1.3-	0.0	961026 118	0.4-	0.6-	
921012 413	0.4+	1.1-	941004 658	1.7-	0.2-	961026 118	0.6+	0.7-	
921012 413	0.5+	1.1-	941004 658	1.4-	0.2-	961026 118	0.3+	0.1-	
921013 413	0.0	0.9-	941005 658	1.6-	1.2+	961102 413	0.1-	0.5-	
921014 413	0.3-	0.7-	941005 658	(2.5-	0.6+)	961102 413	0.2-	0.5-	
921014 413	0.3-	0.7-	941005 658	(2.6-	0.6+)	961113 360	0.7+	0.6+	
921015 413	0.5-	1.0-	941006 658	0.9-	0.1-	961113 360	0.7+	0.4+	
921015 413	0.4-	0.8-	941006 658	1.1-	0.0	961113 360	0.6+	0.6+	
921022 413	0.5+	0.3+	941006 658	1.0-	0.0	961116 046	0.8+	0.0	
921022 413	0.5+	0.0	941008 801	1.8-	0.8+	961116 046	0.5+	0.6+	
921022 413	0.3+	0.2+	941008 801	1.3-	0.9+	961118 711	0.3+	0.1+	

921027	413	0.0	0.1+	941011	608	1.0-	0.3-	961118	711	0.3+	0.1+
921101	670	1.4+	0.1-	941011	608	1.7-	0.5-	961119	411	0.7-	0.4+
921101	670	(0.1+	4.0+)	941111	413	0.1-	0.1+	961119	411	0.2+	0.3+
921101	670	0.1+	1.6+	941111	413	0.1-	0.0	961123	118	0.0	0.1+
921103	413	(0.4+	2.7+)	941112	292	(2.1+	2.3-)	961123	118	0.3-	0.2-
921113	413	0.9+	0.8-	941112	292	(2.0+	0.1-)	961123	118	0.2+	0.1-
921120	675	0.9-	0.5-	941130	360	0.5+	0.0	961123	658	1.2-	0.3+
921120	675	(2.5+	1.9-)	941130	360	0.8+	0.3-	961123	658	1.2-	0.1+
921120	657	0.8+	0.6+	941201	557	0.7+	0.2+	961123	658	1.1-	0.2+
921120	657	0.4+	1.0+	941202	557	0.7+	0.1-	961130	411	0.8+	1.0+
921120	657	0.4-	0.0	941202	557	0.4+	0.2+	961130	411	0.1-	0.9+
921121	801	0.1-	0.3-	941202	557	0.3+	0.2+	961204	711	0.1-	0.2-
921121	801	0.2+	0.2-	941202	557	0.5+	0.1-	961204	711	0.1-	0.2-
921122	413	0.7+	0.4-	941202	557	0.6+	0.3-	961206	711	0.2+	0.6+
921129	801	0.5-	0.4-	941203	557	0.5+	0.1-	961206	711	0.0	0.2+
921129	801	0.7-	0.6-	941203	557	0.3+	0.3-	961206	381	0.6-	1.1+
921203	658	1.2-	0.2-	941203	540	0.1-	0.9+	961206	381	0.6+	0.2-
921203	658	0.9-	0.6-	941203	540	0.4+	0.0	961218	608	0.0	0.3+
921203	658	0.7-	0.3-	941203	540	0.1-	0.4+	961218	608	0.1+	0.1-
921209	413	0.3+	1.3+	941207	557	0.8+	0.0	970111	360	0.5+	0.0
921209	413	0.4+	0.7+	941207	557	0.5+	0.3+	970111	360	0.1+	0.1+
921210	413	0.4-	0.7+	941207	557	0.1+	0.1+	970111	360	0.2+	0.1-
921210	413	0.6-	0.5+	941208	557	0.8+	0.0	970118	608	0.3-	0.4+
921222	801	0.6+	0.6+	941218	413	1.5+	0.6-	970118	608	1.1-	0.4+
921222	801	0.1-	0.7+	941218	413	0.5+	0.2+	970210	711	0.3+	0.5+
940503	413	0.2-	0.7-	941219	413	0.2+	0.4-	970210	711	1.5-	0.1+
940503	413	0.1+	0.0	941219	413	0.3+	0.4-	970211	711	1.2-	0.5-
940504	413	1.2-	0.7+	941223	360	0.1+	0.3-	970211	711	2.0-	0.4-
940617	413	0.5-	0.6+	941223	360	0.1+	0.1-				
940708	568	1.0+	0.9+	941223	587	0.8-	1.8-				

(7475)* 1992 UX₅ = 1987 HO₂ = 1994 GJ₁

Discovered 1992 Oct. 28 by K. Endate and K. Watanabe at Kitami.

Id. K. Watanabe (*MPC* 23520), S. Nakano (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28559882	ω	320.18373	-0.50838267	-0.86055474		
<i>a</i>	2.2836617	Ω	160.30956	+0.81197696	-0.49122671		
<i>e</i>	0.0792363	<i>i</i>	5.36530	+0.28677602	-0.13469168		
<i>P</i>	3.45	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

511227	675	0.2+	0.2-	940413	400	0.8+	0.3+	950921	400	0.6-	0.9-
511227	675	0.3-	0.3+	940413	400	(4.7+	0.4-)	950925	691	0.5-	0.1+
870425	054	(2.9+	0.4-)	940415	400	1.1-	0.5-	950925	691	0.3-	0.1+
880912	675	(2.5+	0.2-)	940415	400	0.8+	0.0	950925	691	0.1-	0.2-
880912	675	(2.3+	0.2-)	950902	010	0.5+	1.5+	950927	010	1.5-	0.7+
921022	675	1.1-	0.0	950902	010	0.1+	1.6+	950927	010	1.2+	0.3-
921022	675	1.9-	0.3+	950902	010	1.1-	0.5-	950927	010	0.4+	0.9+
921028	400	0.6+	1.3+	950903	400	1.2+	0.1+	961209	801	0.2-	1.0-
921028	400	0.9-	0.3-	950903	400	0.8+	0.2-	961209	801	0.9+	1.4-
921102	400	0.3+	0.1+	950920	400	0.8+	0.0	970201	886	0.3-	0.5+
921102	400	(2.5-	1.6-)	950920	400	0.3+	2.0-	970201	886	0.7-	0.0
921117	400	(4.1-	2.2-)	950921	691	0.5-	0.4-	970204	886	0.7-	0.6+

921117	400	(2.6-	0.0)	950921	691	1.0-	0.2-	970204	886	0.3+	0.4-
921121	400	2.0+	0.1-	950921	691	0.6-	0.4-	970214	367	0.2+	0.3+
921121	400	1.4+	0.1-	950921	400	0.7+	0.6-	970214	367	0.1+	0.6+

(7476)* 1993 GE = 1971 HU

Discovered 1993 Apr. 14 by T. B. Spahr at the University of Arizona's Catalina Station.

Id. G. V. Williams (*MPC* 22958)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17672848	ω	146.34315	-0.86663502	+0.33681097		
<i>a</i>	3.1448386	Ω	57.67671	-0.49664662	-0.65302606		
<i>e</i>	0.2334745	<i>i</i>	25.82383	+0.04781091	-0.67831802		
<i>P</i>	5.58	<i>H</i>	10.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

530110	675	1.4+	1.6-	930617	693	0.1+	1.3+	960824	658	0.7-	0.4+
530110	675	1.6+	2.5-	930617	693	0.5-	1.2-	961015	801	0.2-	1.0+
710427	095	(0.9-	5.8+)	930618	693	0.8+	0.2+	961108	610	0.5-	0.8+
901117	675	1.7-	0.8-	930618	693	0.8+	0.5-	961108	610	0.1-	0.6+
901117	675	2.6-	1.1-	940620	413	0.8+	2.0-	961109	610	0.7+	0.4+
930414	693	1.6-	1.0+	940620	413	0.7+	2.1-	961113	801	0.2+	0.3+
930414	693	0.0	1.2-	940815	413	0.2+	2.0-	961113	801	0.2+	0.3+
930415	693	0.9-	0.2-	940815	413	0.2+	2.1-	961114	801	0.1-	0.2+
930415	693	0.6+	0.2-	950830	608	0.5-	0.9-	961114	801	0.6-	0.6+
930417	693	1.9+	0.9+	950830	608	0.4-	0.9-	961216	696	0.3-	0.8+
930417	693	0.7-	0.5+	950913	608	0.6+	0.2+	961216	696	0.3-	0.7+
930418	693	1.4+	0.3+	950913	608	0.7+	0.1+	961216	696	0.4-	0.8+
930420	675	0.3+	0.0	950926	693	1.4-	0.1-	961217	696	0.2-	0.8+
930420	675	0.7+	0.5+	950926	693	(2.4-	1.6-)	961217	696	0.2-	0.5+
930518	693	0.7-	0.8+	960824	658	0.7-	0.6+	961217	696	0.2-	0.9+
930518	693	0.7-	0.4+	960824	658	0.7-	0.4+				

(7477)* 1993 LC = 1963 MG = 1990 XA₂ = 1994 UV

Discovered 1993 June 13 by H. E. Holt at Palomar.

Id. T. Urata (*MPC* 24231), S. Nakano (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23090569	ω	36.24080	-0.10407429	+0.98174090		
<i>a</i>	2.6313561	Ω	228.36938	-0.95525008	-0.14324103		
<i>e</i>	0.1302166	<i>i</i>	12.29994	-0.27688596	+0.12516715		
<i>P</i>	4.27	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

630620	690	(9.2-	7.7-)	Y	930620	675	0.6-	1.0-	941110	691	1.2-	0.2-
630620	690	0.2+	1.7-	Y	941003	675	0.7+	1.1-	941110	691	1.2-	0.3-
890707	413	0.6-	0.2-		941003	675	1.5+	0.8-	951223	801	1.0-	0.0
890707	413	0.6-	0.8+		941031	905	0.0	0.1-	951223	801	0.1+	0.7-
901210	372	0.5-	0.1+		941031	905	0.1+	0.1-	960121	801	0.3+	0.9-
901210	372	(2.3-	0.1+)		941103	905	1.9+	0.8-	960218	801	0.2+	0.3-
930613	675	0.6+	0.5-		941103	905	1.0+	0.8+	960218	801	0.9-	0.9-
930616	675	0.9+	0.9-		941110	691	1.0-	0.3-				

(7478)* 1993 OA₄ = 1979 SQ₁₃ = 1992 HQ

Discovered 1993 July 20 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 22958)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	206.41979	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.20370877	ω 222.91522	+0.96520706	+0.25734252
<i>a</i>	2.8606379	Ω 122.11718	-0.22263011	+0.90176708
<i>e</i>	0.0876588	<i>i</i> 3.13842	-0.13715380	+0.34726210
<i>P</i>	4.84	<i>H</i> 14.1	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

790920 675	0.5+	0.3-	930713 809	0.3+	1.2-	930720 809	(3.1-	0.6-)
790921 675	0.1+	1.3-	930713 809	(0.4+	2.1+)	930720 809	(3.0-	0.7-)
910122 675	0.1+	0.2-	930713 809	1.2+	1.8+	930724 809	(2.6-	0.7-)
920423 691	0.1-	0.6-	930713 809	(0.7+	2.3+)	951104 327	0.0	0.6+
920423 691	0.1-	0.1-	930719 691	1.5-	1.0-	951104 327	0.0	0.4+
920423 691	0.2-	0.5-	930719 691	1.4-	0.8-	951104 327	0.6+	0.3+
920428 691	0.3+	0.4-	930719 691	1.0-	0.4-	951128 327	0.2+	0.3+
920428 691	0.4-	0.3+	930720 809	0.0	0.8+	951128 327	0.3-	0.7-
920428 691	0.1-	0.3-	930720 809	0.3+	1.2+	951128 327	0.3-	0.6+
930713 809	1.4+	0.1+	930720 809	0.5-	1.2+			
930713 809	1.0+	0.1-	930720 809	(2.4-	0.8-)			

(7479)* 1994 EC₁ = 1991 JD₇ = 1992 SW₁₃

Discovered 1994 Mar. 4 by S. Ueda and H. Kaneda at Kushiro.

Id. K. Ichikawa (*MPC* 23344)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	318.68941	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28914612	ω 334.05910	-0.61161729	-0.79014320
<i>a</i>	2.2649458	Ω 153.59043	+0.74061131	-0.58958327
<i>e</i>	0.0914962	<i>i</i> 5.15642	+0.27824301	-0.16752696
<i>P</i>	3.41	<i>H</i> 13.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

551218 675	0.3-	0.8+	940304 691	0.6-	0.3+	961209 801	0.4-	1.2-
551218 675	0.2+	0.3+	940304 691	0.1-	0.2-	970107 801	0.8+	0.2+
910513 809	0.9+	0.6-	940304 691	0.5-	0.1-	970107 801	1.2+	0.3-
910513 809	0.1+	0.3-	940304 399	1.3-	1.5+	970131 684	0.0	0.1-
910513 809	0.1+	0.3-	940304 399	(2.8-	0.2-)	970131 684	0.1-	0.1-
920926 033	0.2-	1.0-	940306 894	0.4+	0.1-	970131 684	0.0	0.1-
920926 033	0.0	1.1-	940306 894	1.3+	1.4-	970202 684	0.0	0.0
920927 033	0.1-	0.5-	940307 399	1.4-	1.2+	970202 684	0.1-	0.1+
920928 033	0.0	0.7+	940307 399	1.2-	0.3+	970202 684	0.3-	0.2+
940210 675	0.2-	2.0-	940310 894	1.6+	0.1+			
940210 675	0.8+	0.8-	940310 894	0.4-	0.5+			

(7480)* 1994 PC

Discovered 1994 Aug. 1 by C. S. Shoemaker at Palomar.

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	17.02316	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.50187572	ω 256.59541	+0.92188007	-0.36308200
<i>a</i>	1.5682138	Ω 124.53477	+0.38742606	+0.86930300
<i>e</i>	0.3170366	<i>i</i> 9.45388	-0.00617968	+0.33538598
<i>P</i>	1.96	<i>H</i> 17.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

820501 413	(3.4-	0.7-)	950122 658	1.3-	0.9-	961201 108	(0.5+	2.6-)
820501 413	1.1-	1.4-	950122 658	0.4+	0.0	961204 711	0.8-	0.1+

840530 413	(4.5-	1.2-)	950122 658	1.2+	0.6+	961204 711	0.8-	0.2+
840530 413	2.1-	0.6-	950123 658	0.2+	0.6+	961205 046	0.6-	0.6+
940801 675	0.8-	1.2-	950123 658	0.0	0.2+	961205 046	0.5-	0.7+
940801 675	(0.2+	3.1-)	950123 658	0.2-	0.2-	961205 046	0.4-	0.6+
940803 675	(2.3+	0.0)	950228 658	0.7-	0.6+	961206 711	0.4-	0.3+
940803 675	(2.1+	1.7-)	950228 658	1.1-	0.1+	961206 711	0.5-	0.4+
940804 675	1.5+	1.8-	960425 381	0.5+	0.3-	961214 360	0.7-	0.5+
940804 675	1.3+	1.0-	960608 413	0.1-	0.3-	961214 360	0.3-	0.1+
940806 670	0.5-	0.8+	960608 413	0.0	0.2-	961214 360	0.3-	0.0
940806 670	0.4+	0.7+	960609 413	0.0	0.5-	961218 608	0.9-	0.1-
940806 670	0.2-	0.3+	960609 413	0.0	0.4-	961218 608	1.0-	0.2-
940806 670	1.2-	0.4+	960621 413	0.1-	0.0	961220 124	0.0	0.6-
940806 670	0.4+	0.8+	960621 413	0.2-	0.0	961220 124	0.3-	0.0
940806 675	1.4-	0.7-	960627 104	1.3+	0.1+	961221 046	0.3-	0.2-
940806 675	0.5-	0.4+	960627 104	0.3+	0.4+	961221 046	0.1-	0.3-
940807 670	1.6+	1.8+	960627 104	1.7+	0.4+	961221 046	0.1-	0.3-
940807 670	0.6+	0.5-	960628 104	1.3+	0.3+	961228 557	0.2-	0.5-
940807 670	0.1-	0.7+	960712 711	0.5+	0.1+	961228 557	0.1-	0.6-
940808 587	0.2+	0.4-	960712 711	0.5+	0.1+	961228 557	0.0	0.5-
940809 474	0.5+	0.1-	960713 360	0.0	0.1+	961229 557	0.1-	0.3-
940809 474	0.0	0.6-	960713 360	0.1-	0.1+	961229 557	0.0	0.4-
940810 474	0.3-	0.3-	960713 360	0.2-	0.0	961230 046	0.1+	0.1+
940810 474	0.7+	0.1-	960714 801	0.9+	1.0-	961230 046	0.2+	0.0
940811 587	1.2+	0.4+	960714 801	0.7+	0.4-	961230 046	0.4+	0.1+
940811 111	(0.8+	2.0+)	960714 809	(4.8+	0.2+)	961230 046	0.2+	0.3+
940811 587	1.2+	0.4+	960714 809	(4.8+	0.4-)	970111 360	0.5+	0.1-
940811 111	(0.3+	2.3+)	960714 809	(3.4+	0.2+)	970111 360	0.3+	0.1-
940815 413	0.0	0.5+	960714 809	(5.7+	0.2-)	970111 360	0.5+	0.1-
940815 413	0.0	0.5+	960714 809	(4.7+	0.3-)	970112 566	0.2+	0.4-
940815 360	0.1-	0.4+	960714 809	(2.3+	1.1+)	970112 566	0.2+	0.3-
940815 360	0.0	0.4+	960714 809	(4.0+	1.1+)	970112 566	0.1+	0.4-
940815 413	0.0	0.4+	960714 809	(4.4+	0.5+)	970113 557	0.3+	0.1+
940815 413	0.1-	0.3+	960714 809	(3.4+	0.8+)	970113 557	0.1+	0.2-
940816 413	0.1-	0.4+	960715 809	(2.6-	0.3+)	970113 557	0.2+	0.0
940816 413	0.1-	0.2+	960715 809	(2.8-	0.1+)	970114 557	0.2+	0.1-
940817 413	0.4-	0.4+	960715 809	(4.5-	0.3+)	970114 124	0.4-	0.2+
940817 413	0.5-	0.4+	960715 809	1.1-	0.1+	970114 124	0.1+	0.1+
940826 413	0.3+	0.6-	960715 809	0.2-	1.1+	970114 124	0.7+	0.2+
940826 413	0.2+	0.4-	960715 809	0.6-	0.4-	970114 124	0.4+	0.9-
940827 413	0.0	0.4-	960715 809	0.9-	0.7+	970114 124	1.3+	0.7-
940827 413	0.0	0.4-	960715 809	1.7-	0.9+	970115 608	0.7-	0.2+
940827 413	0.1-	0.4-	960715 809	1.8-	1.2+	970115 608	0.3-	0.7+
940827 413	0.0	0.5-	960718 801	0.3-	0.5-	970115 557	0.5+	0.2-
940828 413	0.1+	0.6-	960718 801	0.1-	1.3-	970115 557	0.4+	0.1+
940828 413	0.1+	0.5-	960721 711	0.7-	0.2-	970115 557	0.3+	0.1-
940917 413	0.1-	0.1+	960722 711	0.4-	0.2+	970115 557	0.3+	0.0
940917 413	0.2-	0.1+	960722 711	0.5-	0.2+	970115 557	0.3+	0.2-
941111 413	0.1+	0.0	960723 612	0.3+	0.7+	970116 557	0.3+	0.0
941111 413	0.2+	0.0	960723 612	1.0-	0.5-	970116 557	0.1+	0.1-
941123 360	0.1+	0.4+	960731 608	1.6+	0.1-	970116 557	0.2+	0.4-
941123 360	0.3+	0.3+	960731 608	0.3+	0.5+	970116 557	0.4+	0.0
941204 360	1.9-	0.5+	960801 608	0.7+	0.5+	970116 557	0.4+	0.1-

941204	360	1.9–	0.5+	960801	608	0.0	0.6+	970117	557	0.4+	0.0
941208	670	0.4+	0.9–	960804	413	1.5–	0.4–	970121	608	0.5–	0.5+
941208	670	1.0+	0.5+	960804	413	1.4–	0.3–	970121	608	0.4–	0.5+
941218	413	0.5–	0.6–	960810	108	0.8+	1.1+	970124	658	0.7+	1.4+
941218	413	0.4–	0.9–	960810	108	1.2+	1.3–	970124	658	0.9+	1.4+
941219	413	0.4–	0.7–	960810	108	0.7+	0.4–	970124	658	0.2+	0.4+
941219	413	0.2–	0.7–	960810	108	0.2+	0.5–	970126	658	0.6+	0.2+
950101	385	1.0+	0.4–	960819	801	0.0	1.7–	970126	658	0.8+	1.0+
950101	385	0.2–	0.4–	960819	801	0.2–	1.1–	970126	658	0.1–	0.6–
950104	657	(0.3–	4.5+)	960821	711	0.7–	0.8+	970201	360	0.5+	0.1+
950104	657	(2.2+	4.0+)	960821	711	1.1–	0.8+	970201	118	0.3+	0.2–
950104	657	0.6–	1.5+	960908	566	1.1+	0.7–	970201	118	0.4+	0.4–
950113	413	0.3–	0.5–	960908	566	0.6+	0.9–	970202	118	0.3+	0.7–
950113	413	0.1–	0.5–	960908	566	0.7+	1.0–	970202	118	0.6+	0.6–
950115	413	0.2+	0.4+	961101	413	0.2+	0.4+	970207	608	1.4–	0.3+
950115	413	0.3+	0.3+	961101	413	0.2+	0.2+	970207	608	1.5–	0.2+
950116	046	1.5+	0.5–	961102	413	0.1–	0.1+	970209	360	0.4–	0.3–
950116	046	0.9+	0.4+	961102	413	0.1–	0.0	970209	360	0.2–	0.2–
950116	046	1.9+	0.7+	961106	360	0.1+	0.4+	970209	360	0.2–	0.4–
950117	046	0.3+	0.6+	961106	360	0.1+	0.2+	970213	709	0.5–	0.5–
950117	046	0.8+	1.7+	961106	360	0.0	0.6+	970213	709	0.6+	0.2–
950117	046	1.0–	1.0–	961117	711	0.6+	0.1+	970213	709	0.3+	0.4–
950119	046	0.4+	0.2–	961117	711	0.4+	0.1+	970213	709	0.7+	1.1–
950119	046	0.6+	0.0	961118	711	0.3+	0.0	970213	709	0.1+	0.4–
950120	608	0.8+	0.3+	961118	711	0.2+	0.0	970213	709	0.3+	0.2–
950122	658	1.4–	0.4–	961201	689	0.1+	0.5–				
950122	658	0.6–	0.5–	961201	108	0.9–	0.3–				

(7481)* 1994 PA₁ = 1987 DE₄

Discovered 1994 Aug. 11 by A. Boattini and M. Tombelli at San Marcello Pistoiese.

Id. G. V. Williams (*MPC* 26402)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	354.32012	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.19730684	ω	324.18522	–0.75206701
<i>a</i>	2.9221867	Ω	174.46339	+0.64437823
<i>e</i>	0.0435109	<i>i</i>	12.76376	+0.13846269
<i>P</i>	5.00	<i>H</i>	11.8	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

540728	675	0.4–	0.1–	940814	104	0.6+	0.1–	951219	104	0.5+	0.2–
540728	675	0.5+	0.5–	940814	104	0.5–	0.4–	951219	104	0.5+	0.2–
870223	010	0.0	0.3+	940814	104	0.1–	0.1–	960113	108	0.3–	1.3–
870224	010	0.2+	0.1+	940817	104	0.1+	0.8+	960113	108	0.0	1.7–
870224	010	(8.6+	1.4–)	940817	104	0.0	0.2+	960113	108	0.2–	0.8+
940811	104	0.6+	0.3+	940817	104	0.6–	0.7–	960309	104	0.2+	0.1–
940811	104	0.3–	0.2+	940817	104	0.7–	0.4–	960309	104	1.4+	0.0
940811	104	0.5+	0.5+	940827	111	0.3–	1.3–	960309	104	0.3–	0.7+
940811	104	0.0	0.1+	940827	111	0.1+	0.7–	970117	108	(0.4+	2.2–)
940811	104	0.2–	0.4–	940827	111	1.0–	0.7+	970117	108	1.5–	0.5–
940811	104	0.6–	0.3–	940827	111	0.9+	0.4–	970117	108	(2.6–	0.6+)
940811	104	1.1–	0.4–	940827	111	0.1+	1.5+	970201	108	0.5+	1.3–
940811	104	0.5+	0.4–	940907	675	0.7+	1.1–	970201	108	0.7–	1.3+
940811	111	(4.2–	0.9+)	940907	675	0.1+	0.7–	970206	104	1.9+	0.6–

940811	111	(2.1–	0.9–)	951124	098	0.0	0.9+	970207	104	0.3–	0.1–
940811	111	0.1–	0.7+	951124	098	0.7–	1.8+	970208	108	0.3+	0.6–
940811	111	1.5+	0.4+	951219	104	0.6–	0.6–	970208	108	1.1–	1.3–
940814	104	0.1+	0.3–	951219	104	0.1+	0.4–	970208	108	(1.5+	2.6–)

(7482)* 1994 PC₁

Discovered 1994 Aug. 9 by R. H. McNaught at Siding Spring.

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	291.88335	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.63136606	ω	47.53500	–0.85999236
<i>a</i>	1.3457010	Ω	117.98103	+0.12026002
<i>e</i>	0.3278738	<i>i</i>	33.50146	+0.49593414
<i>P</i>	1.56	<i>H</i>	16.8	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

740922	413	1.2–	0.9+	970104	423	0.4–	0.5–	970116	116	1.6+	0.5–
740922	413	0.1–	1.4+	970104	423	0.6–	0.6–	970116	116	0.1–	0.7–
770819	413	(0.8–	3.0+)	970104	423	0.4–	0.2–	970116	116	(2.0+	2.2–)
770819	413	(0.4–	3.9–)	970106	423	0.1+	0.3–	970116	116	1.3+	0.6+
800711	413	1.6–	0.4+	970106	423	0.0	0.2–	970116	116	(1.9+	3.3–)
940809	413	(50.9+	68.4+)	970106	423	0.1+	0.1+	970116	116	0.5+	0.6+
940809	413	(4.2–	3.2+)	970106	423	0.2+	0.3+	970116	116	1.0+	0.0
940810	413	(1.5–	3.6–)	970106	423	0.4–	0.5+	970116	116	(1.4+	4.8–)
940810	413	(6.0–	6.6–)	970108	861	1.1–	0.0	970116	116	0.0	0.8–
940815	413	0.1+	0.2+	970108	861	0.6+	1.0–	970116	116	(0.8+	2.4–)
940815	413	0.3–	0.1+	970108	861	1.2–	0.2+	970116	116	0.4–	0.1–
940815	413	0.0	0.1+	970110	422	0.7–	0.2–	970116	116	1.1–	0.6+
940815	413	0.3–	0.5+	970110	422	0.7–	0.5–	970116	587	0.4–	0.4+
940815	413	0.2–	0.6+	970110	422	0.7–	0.8–	970116	587	0.6–	0.5+
940815	413	0.1–	0.2+	970110	422	0.7–	0.4–	970116	587	0.5–	0.8+
940815	413	0.2–	0.4+	970111	422	0.1–	0.1–	970116	627	(2.1+	1.3–)
940815	413	0.1+	0.2+	970111	422	0.2–	0.5–	970116	627	(1.4+	2.3–)
940815	413	0.0	0.1+	970111	422	0.3–	0.6–	970116	627	(0.5+	2.3–)
940816	413	0.1+	0.2+	970112	360	0.3–	0.2–	970116	627	(0.0	2.4–)
940816	413	0.3+	0.4+	970112	360	0.5–	0.1–	970116	627	(0.8–	2.4–)
940816	413	0.5+	0.0	970112	360	0.5–	0.1–	970121	605	(1.9–	3.1+)
940816	413	0.8+	0.1+	970113	900	0.3–	0.3+	970121	605	(2.2–	2.5+)
940816	413	0.4+	0.2+	970113	900	0.8–	0.3+	970121	605	(2.1–	3.1+)
940816	413	0.6+	0.1+	970113	422	0.6+	0.0	970121	605	(2.5–	2.8+)
940817	413	0.9+	0.3+	970113	422	0.8+	0.3–	970121	540	0.6–	0.0
940817	413	1.0+	0.1+	970113	422	0.5+	0.4+	970121	540	0.4–	0.0
940817	413	0.7+	0.4+	970113	422	0.6+	0.2–	970121	540	0.5–	0.2+
940817	413	0.6+	0.2+	970113	422	0.3+	0.2+	970121	540	0.5–	0.0
940826	413	0.5+	0.3–	970113	422	0.1+	0.2+	970121	540	0.1–	0.0
940826	413	0.2+	0.3–	970113	587	0.3+	0.6–	970121	540	0.0	0.1+
940826	413	0.5+	0.2–	970113	587	0.9+	0.3–	970122	046	0.9–	1.7+
940826	413	0.1+	0.4–	970113	587	0.5+	0.3–	970122	046	0.3–	1.1+
940827	413	0.3+	0.4–	970113	587	0.8+	0.7–	970122	046	0.5+	0.3+
940827	413	0.2+	0.4–	970114	422	1.0–	1.1–	970122	046	0.5+	0.2+
940827	413	0.2+	0.3–	970114	422	0.4–	0.9–	970122	540	0.8+	0.4+
940827	413	0.3+	0.4–	970114	422	0.5–	1.4–	970122	540	0.4+	0.6+
940828	413	0.5+	0.7–	970114	422	1.0–	1.0–	970122	540	0.5+	0.7+
940828	413	0.5+	0.5–	970114	587	0.1+	0.3–	970122	540	0.5+	0.3+
940917	413	0.0	0.6+	970114	587	0.3+	0.2–	970122	605	(1.4–	2.9+)

940918	413	0.0	0.1+	970114	587	0.1+	0.2-	970122	605	(2.2-	3.4+)
940918	413	0.0	0.4+	970114	587	0.1+	0.4+	970122	540	0.4+	0.6+
941111	413	1.4-	0.7+	970114	627	0.8-	0.0	970122	605	(1.3-	3.1+)
941111	413	1.9-	0.8+	970114	627	0.6-	0.2+	970122	540	0.5+	0.3+
941219	413	0.9+	1.1+	970114	627	1.7+	1.2-	970122	605	(0.8-	2.5+)
941219	413	0.2-	0.7+	970114	627	1.3+	1.2-	970126	557	0.1-	0.5+
960608	413	0.2+	0.7-	970114	627	0.4+	1.0-	970126	557	0.0	0.4+
960608	413	0.4-	0.4-	970114	627	0.1-	0.8-	970126	046	0.2-	0.4+
960609	413	0.1-	0.9-	970114	627	1.6-	0.7-	970126	046	0.3-	0.3+
960920	711	0.3-	0.1-	970114	627	1.8-	0.4+	970126	046	0.0	0.3+
960920	711	0.0	0.2-	970114	627	(2.3-	0.5+)	970126	557	0.1-	0.4+
961101	413	0.5-	0.1-	970114	627	(2.7-	0.8+)	970126	557	0.2-	0.5+
961101	413	0.5-	0.4-	970114	627	(3.5-	1.0+)	970127	629	0.5+	0.9-
961102	413	0.9-	0.0	970114	627	(3.9-	1.0+)	970127	629	0.1-	0.9-
961102	413	0.6-	0.0	970115	116	1.4+	1.7+	970127	629	0.3-	0.4-
970101	423	0.4-	0.5-	970115	116	1.0+	0.6+	970128	540	0.7+	0.4-
970101	423	0.5-	0.3-	970115	116	(0.1-	2.8+)	970128	540	0.7+	0.5-
970101	423	0.6-	0.0	970115	116	0.4+	1.1+	970128	540	0.6+	0.3-
970101	423	0.1-	0.0	970115	116	(2.8+	1.1-)	970128	587	0.4+	0.2-
970101	423	0.1-	0.1+	970115	116	(2.6+	0.1+)	970128	587	0.2+	0.3-
970101	423	0.7-	0.4-	970115	116	0.1+	0.3+	970128	587	0.2+	0.3-
970102	423	0.5-	0.2-	970115	116	1.4+	0.7-	970201	557	0.2+	0.2+
970102	423	0.6-	0.3-	970115	116	1.9+	1.1-	970201	557	0.3+	0.1+
970102	423	0.2-	0.1+	970115	116	(3.8+	0.8-)	970201	557	0.2+	0.2+
970102	423	0.2-	0.2-	970115	116	(3.0+	1.5-)	970201	540	0.5-	0.5+
970102	423	0.1-	0.0	970116	046	0.4-	0.1+	970201	540	0.3+	0.1-
970103	423	0.3-	0.8-	970116	046	0.6-	0.0	970201	540	0.0	0.1+
970103	423	0.4-	0.7-	970116	046	0.5-	0.3+	970201	540	0.2+	0.0
970103	423	0.1-	0.4-	970116	599	0.1+	0.2-	970202	557	0.2+	0.3+
970104	423	0.6-	0.0	970116	116	1.1+	0.5+	970202	557	0.3+	0.1+
970104	423	0.4-	0.3-	970116	599	0.4-	1.7+	970202	557	0.5+	0.1+
970104	423	0.5-	0.2-	970116	116	(0.9-	2.4-)	970202	557	0.6+	0.1-
970104	423	0.6-	0.1+	970116	116	(6.8+	9.5-)	970202	557	0.5+	0.1+
970104	423	0.3-	0.6-	970116	116	(0.4-	5.2-)	970206	540	1.7+	0.1-
970104	423	0.5-	0.3-	970116	116	(0.7+	3.0-)	970206	540	1.7-	1.6+
970104	423	0.3-	0.3-	970116	116	0.1+	0.4-	970206	540	0.3-	0.5-

(7483)* 1994 VO₂ = 1987 OK₁ = 1990 BB₆ = 1991 GL₁₀

Discovered 1994 Nov. 1 by K. Endate and K. Watanabe at Kitami.

Id. K. Kinoshita (*MPC* 24573)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Nakano			
<i>M</i>	105.99150	(2000.0)		P	Q		
<i>n</i>	0.17377031	ω	356.14262	+0.20740015	-0.97590105		
<i>a</i>	3.1804287	Ω	81.87817	+0.89935632	+0.16292855		
<i>e</i>	0.0820546	<i>i</i>	3.92943	+0.38489399	+0.14515999		
<i>P</i>	5.67	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

491125	675	0.0	0.7-	910413	033	0.2-	0.3-	941223	360	0.2-	1.2+
491125	675	0.2+	0.1+	910419	675	0.1+	0.2+	941223	360	0.3-	1.2+
870728	010	0.6-	0.8-	910419	675	1.3+	0.0	941223	360	0.0	1.1+
870728	010	1.4+	0.8-	941101	400	0.1-	1.5-	960226	400	0.1-	0.3-
870728	010	1.1+	0.2-	941101	400	0.5-	0.9-	960226	400	1.6+	1.3+
900123	403	0.2+	1.6-	941103	400	0.0	0.4-	960228	400	0.4+	0.6+

900123	403	1.1-	1.0-	941103	400	0.9+	0.6+	960228	400	1.8+	1.5-
910409	033	1.0-	1.0+	941129	400	1.6-	0.1-	960313	400	1.2+	1.0-
910409	033	0.5-	1.2+	941129	400	0.3+	0.4-	960313	400	0.6+	0.4+
910411	033	1.1-	1.1+	941222	360	0.3-	0.6+	960322	801	0.4-	0.4-
910411	033	0.4-	0.1+	941222	360	0.2-	0.6+	960322	801	0.6-	0.5-
910412	033	0.1-	0.2-	941222	360	0.2-	0.5+	960324	801	1.7-	0.9-

(7484)* 1994 WF₄ = 1978 NT₄

Discovered 1994 Nov. 30 by A. Nakamura at Kuma Kogen.

Id. S. Nakano (*MPC* 24903)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Nakano			
<i>M</i>	48.80912	(2000.0)		P	Q		
<i>n</i>	0.26412552	ω	99.76769	-0.79686866	+0.59413886		
<i>a</i>	2.4058164	Ω	116.76514	-0.59117989	-0.72946163		
<i>e</i>	0.0399023	<i>i</i>	7.04715	-0.12452581	-0.33894651		
<i>P</i>	3.73	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

780710	675	0.8+	1.9+	Y	941205	360	0.0	0.1+	960221	360	0.5-	0.0
780711	675	1.2-	0.5+	Y	941206	360	0.0	0.2-	960221	360	0.4-	0.4+
780713	675	(0.6+	4.8-)	Y	941206	360	0.1-	0.0	960313	360	0.1-	0.1-
930725	675	0.1-	1.4-		941206	360	0.4-	0.1-	960313	360	0.1+	0.3-
930725	675	0.6+	0.9-		941223	360	0.3+	0.5+	960318	360	0.1+	0.6+
941130	360	0.3+	1.2-		941223	360	0.4+	0.6+	960318	360	0.4+	0.3+
941130	360	0.3+	1.2-		941229	360	0.5-	1.0+	960413	360	0.7+	0.6-
941130	360	0.3+	1.0-		941229	360	0.6-	0.7+	960413	360	0.7+	0.7-
941130	360	0.3+	1.3-		950222	360	0.3-	0.6+	960509	360	0.4-	0.3-
941205	360	0.0	0.0		950222	360	0.2-	0.9+	960509	360	0.5-	0.3-
941205	360	0.1+	0.1+		960221	360	0.4-	0.2+	960509	360	0.5-	0.4-

(7485)* 1994 XO = 1931 XQ

Discovered 1994 Dec. 4 by M. Koishikawa at the Ayashi Station of the Sendai

Observatory.

Id. G. V. Williams (*MPC* 25220)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	168.26168	(2000.0)		P	Q		
<i>n</i>	0.20391480	ω	306.65865	+0.78671725	-0.57268245		
<i>a</i>	2.8587107	Ω	89.41001	+0.61391851	+0.68672523		
<i>e</i>	0.1983087	<i>i</i>	13.32474	+0.06465323	+0.44770891		
<i>P</i>	4.83	<i>H</i>	11.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

311205	690	(88.1+	18.6-)	X	941207	893	0.3-	0.9+	960319	893	0.1-	0.0
311206	690	(1.4+	3.7-)		941220	893	0.0	0.2+	960319	893	0.1-	0.2+
311207	690	1.9+	2.5-		941220	893	0.1+	0.1+	960320	893	0.2+	0.4-
520131	675	1.7-	0.2+		941221	893	0.1+	0.3+	960320	893	0.1+	0.6+
891125	675	0.2-	0.2-		941221	893	0.1-	0.2+	960320	893	0.0	0.8+
891125	675	0.3-	0.5-		941222	893	0.1+	0.2-	960321	596	0.3-	0.5+
941201	400	1.4+	0.2-		941222	893	0.2+	0.2-	960321	596	0.1-	0.0
941201	400	0.6-	0.9-		950226	801	0.5-	0.7+	960321	596	0.7-	0.5+
941203	400	0.2+	0.9+		950226	801	0.6-	0.9+	960322	801	0.0	0.3-
941203	400	0.2-	0.3-		950303	801	0.5-	1.1+	960322	801	0.1+	0.3-
941204	391	0.7-	0.9-		950328	801	0.5-	0.3-	960323	801	0.3+	0.4-
941204	391	0.8+	1.2-		950328	801	(2.3+	0.0)	960323	801	0.0	0.6-
941204	391	0.1+	0.1+		950403	801	1.6+	1.0-	960418	801	1.5+	0.9-

941206 893	0.4−	1.0+	950403 801	0.1+	0.2−	960422 801	0.0	0.4+
941206 893	0.5−	0.7+	951223 801	0.0	0.8−	960422 801	0.2+	0.4+
941206 893	0.4−	0.9+	951223 801	0.5−	1.0−	960507 689	0.0	0.0
941207 893	0.3−	1.0+	960319 893	0.2+	0.2−			

(7486)* 1994 XJ₁ = 1987 SK₁₀ = 1989 EL₇

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

Id. T. Kobayashi (*MPC* 24751), K. Kinoshita (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Williams			
<i>M</i>	257.54452	(2000.0)	P		Q	
<i>n</i>	0.29799236	ω 327.74829	+0.86988540		−0.49014389	
<i>a</i>	2.2198960	Ω 61.69844	+0.46483828		+0.77709929	
<i>e</i>	0.1668288	<i>i</i> 3.60115	+0.16499927		+0.39481091	
<i>P</i>	3.31	<i>H</i> 14.1	<i>G</i> 0.15		<i>U</i> 2	

Residuals in seconds of arc

870929 033	0.1+	0.0	950102 411	0.7−	0.1−	960422 621	0.6−	0.1−
870929 033	0.5+	0.7−	950103 010	(1.8+	3.4+)	960422 621	0.8−	0.0
870930 033	0.4+	0.8−	950104 010	(2.6+	3.5+)	960422 621	0.3−	0.2+
870930 033	0.1+	0.7−	960414 621	0.4−	0.3−	960519 809	(0.2+	3.6+)
871001 033	0.1+	0.3−	960414 621	0.1+	0.4−	960519 809	(0.3+	4.2+)
890306 033	0.4−	0.4−	960414 621	0.4−	0.0	960519 809	(0.9+	3.7+)
890306 033	0.0	0.2−	960414 621	0.5−	0.7−	960522 809	1.6+	0.7+
941206 411	0.6+	0.5−	960418 809	(2.9+	0.5+)	960522 809	1.0+	0.1−
941206 411	0.7+	1.4−	960418 809	(3.2+	0.3+)	960522 809	1.6−	0.7+
941207 411	0.3+	0.1−	960418 809	(2.7+	0.3+)	960522 809	(0.7+	2.5+)
941207 411	0.1−	0.1+	960420 809	1.1+	1.3−	960522 809	(0.3−	2.1+)
941214 411	0.8−	0.2+	960420 809	1.3+	1.6−	960522 809	1.1+	1.9+
941214 411	0.2+	0.0	960420 809	1.1+	1.5−	960523 809	(3.0+	1.4+)
950102 010	(0.7+	4.3+)	960421 621	1.6−	0.4−	960523 809	(2.0+	1.3+)
950102 010	(1.5+	4.2+)	960421 621	1.1−	0.0	960523 809	(2.9+	2.5+)
950102 411	0.2−	0.3+	960421 621	0.9−	0.7−			

(7487)* 1994 YM = 1973 AY₁ = 1982 BT₇

Discovered 1994 Dec. 28 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 24751)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Nakano			
<i>M</i>	198.14112	(2000.0)	P		Q	
<i>n</i>	0.22346552	ω 299.41840	+0.70603928		−0.67106081	
<i>a</i>	2.6894431	Ω 103.75300	+0.70320403		+0.62656730	
<i>e</i>	0.1673305	<i>i</i> 13.46910	+0.08374141		+0.39634682	
<i>P</i>	4.41	<i>H</i> 12.4	<i>G</i> 0.15		<i>U</i> 1	

Residuals in seconds of arc

541222 675	0.8+	0.8+	941229 411	0.2+	0.1−	960415 801	0.2+	0.1−
541222 675	1.1−	0.2+	941229 411	0.1+	0.1−	960415 801	0.4+	0.0
730101 095	(3.0+	6.0+)	950106 411	0.0	0.4+	960420 411	0.3+	0.1+
730102 095	(0.8+	6.0−)	950106 411	0.1−	0.4+	960420 411	0.4−	0.1+
820126 381	0.2−	0.1−	950119 411	0.5+	0.1−	960422 801	0.1+	0.2−
820126 381	0.5−	1.4−	950119 411	0.7+	0.6−	960422 801	0.4+	0.0
930813 675	0.2+	0.5−	950201 411	0.4−	1.1−	960505 411	1.0−	0.1−
930813 675	0.2−	1.0−	950201 411	0.2−	1.1−	960505 411	0.7+	0.9−
941225 399	0.7−	1.0+	960317 801	0.0	0.0	960505 411	0.8+	0.1−
941225 399	0.3−	0.2+	960317 801	0.1−	0.2−	960509 411	0.4−	1.0+

941228 411	0.3+	0.2+	960319 801	0.0	0.1+	960509 411	0.3−	0.9+
941228 411	0.2+	0.1+	960319 801	0.2+	0.3+			

(7488)* 1995 KB₁ = 1989 CC₄

Discovered 1995 May 27 by C. W. Hergenrother at the University of Arizona's Catalina Station.

Id. G. V. Williams (*MPC* 25434)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Williams			
<i>M</i>	244.34490	(2000.0)	P		Q	
<i>n</i>	0.35951608	ω 54.21490	−0.92778214		+0.25836024	
<i>a</i>	1.9588019	Ω 138.77292	−0.28917725		−0.95382425	
<i>e</i>	0.0482988	<i>i</i> 24.10904	+0.23578979		−0.15319688	
<i>P</i>	2.74	<i>H</i> 14.9	<i>G</i> 0.15		<i>U</i> 2	

Residuals in seconds of arc

890203 046	0.4+	0.8−	950603 658	0.6−	0.8+	950620 104	(0.3−	2.2+)
890203 046	(3.9−	0.6+)	950603 658	0.6−	0.8+	950620 104	0.4−	1.5+
890207 046	(1.8−	3.4+)	950607 104	0.0	0.7−	950620 104	0.6−	1.4+
890207 046	0.6−	1.5+	950607 104	0.1−	0.5−	950620 104	0.7−	1.2+
890208 046	0.4+	2.0−	950607 104	0.0	0.7−	950621 608	0.2+	0.1+
890208 046	(2.8+	3.2−)	950607 104	0.1−	0.7−	950621 608	0.3+	0.1+
920403 675	0.8−	0.8+	950608 608	1.1+	0.4−	950623 608	0.5−	0.3−
920405 675	0.9−	0.2−	950608 608	1.0+	0.4−	950623 608	0.2−	0.6−
920405 675	1.9+	0.4+	950609 816	0.1+	0.5−	961216 696	0.4−	0.1+
950527 693	0.6−	0.8+	950609 816	0.7+	0.6−	961216 696	0.1−	0.1+
950527 693	(2.2−	0.5−)	950609 816	0.6+	0.5−	961216 696	0.4−	0.1+
950529 693	0.3+	0.5−	950609 816	0.4+	0.7−	970201 696	0.2+	0.3+
950529 693	0.2−	0.4+	950609 608	0.2+	1.0−	970201 696	0.3+	0.3+
950601 658	0.7−	0.5+	950609 608	0.5+	0.7−	970201 696	0.2+	0.3+
950601 658	1.0−	0.6+	950610 816	0.5+	0.2−			
950603 658	0.6−	0.8+	950610 816	1.1+	0.2−			

(7489)* 1995 MX = 1972 RL₁ = 1986 TO₈

Discovered 1995 June 26 by C. W. Hergenrother at the University of Arizona's Catalina Station.

Id. G. V. Williams (*MPC* 25644)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Williams			
<i>M</i>	68.76814	(2000.0)	P		Q	
<i>n</i>	0.21028188	ω 143.04067	+0.88870784		+0.45551364	
<i>a</i>	2.8007101	Ω 190.25995	−0.45841477		+0.88103244	
<i>e</i>	0.2726156	<i>i</i> 16.98006	−0.00736711		+0.12762899	
<i>P</i>	4.69	<i>H</i> 13.9	<i>G</i> 0.15		<i>U</i> 1	

Residuals in seconds of arc

720910 095	0.2−	1.2+	950718 657	1.6−	0.2+	951224 658	0.1+	0.0
861002 095	(4.8+	6.0−)	950718 657	0.4−	1.9+	951224 658	0.0	0.0
911006 675	0.4+	0.7−	950720 657	1.1+	0.3−	951224 658	0.2+	0.0
911006 675	0.1+	0.2−	950720 657	1.1+	0.0	961216 696	0.0	1.7−
911110 675	0.0	0.6+	950720 657	0.9+	0.5−	961216 696	0.2−	1.3−
911110 675	0.2−	1.2+	950821 658	0.5+	0.4−	961216 696	0.3−	1.4−
950626 693	0.9+	0.9+	950821 658	0.0	0.5−	961217 696	0.1−	0.3+
950626 693	0.0	0.4−	950821 658	0.1−	0.4−	961217 696	0.1−	0.2+
950701 658	0.3−	0.1−	950830 816	0.7+	0.4−	961217 696	0.2−	0.4+
950701 658	0.3−	0.0	950830 816	0.7+	0.0	970201 696	0.4+	0.4+
950701 658	0.4−	0.1−	950830 816	0.2+	0.1−	970201 696	0.3+	0.1+

950702 658 0.7– 0.0 951030 658 1.0– 0.8– 970201 696 0.1– 0.6+
 950702 658 0.3– 0.4– 951030 658 0.1– 1.5–
 950702 658 0.6– 0.1– 951030 658 0.3– 0.6–

(7490)* 1995 OF₁ = 1987 BJ₁ = 1989 WS₇

Discovered 1995 July 31 by P. Pravec at Ondřejov.

Id. E. Bowell (*MPC* 28855), G. V. Williams (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	337.99637		(2000.0)	P		Q	
<i>n</i>	0.29629661	ω	152.06720	–0.69230629		–0.72152968	
<i>a</i>	2.2283578	Ω	341.73940	+0.65575759		–0.62308862	
<i>e</i>	0.0966279	<i>i</i>	1.89111	+0.30115442		–0.30191966	
<i>P</i>	3.33	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

870127 033 0.1– 0.4+ 950804 557 0.2+ 0.1– 970114 557 0.0 0.1–
 870128 033 0.3+ 0.3+ 950804 557 0.4+ 0.7– 970114 557 0.0 0.3–
 891128 675 0.2– 0.1+ 950820 557 0.8– 0.7+ 970114 557 0.1– 0.0
 891128 675 0.2+ 0.0 950820 557 0.4– 0.3– 970131 557 0.3+ 0.2–
 950731 557 1.2+ 0.1– 950820 557 0.4– 0.2– 970131 557 0.2+ 0.2–
 950731 557 0.2+ 0.6– 950903 557 0.1+ 0.4+ 970131 557 0.2+ 0.2–
 950731 557 0.1+ 0.8– 950903 557 0.2+ 0.4+ 970203 566 0.5– 0.4–
 950802 557 0.1– 0.2– 950917 557 0.7+ 0.2+ 970203 566 0.1– 0.4–
 950802 557 0.1– 0.6– 950917 557 0.6+ 0.2+ 970203 566 0.2– 0.3–
 950804 557 0.3– 0.5– 950917 557 0.6+ 0.5+ 970209 557 0.3– 0.2–
 950804 557 0.1– 0.3– 951021 557 0.2+ 0.2+ 970209 557 0.2– 0.2–
 950804 557 0.3+ 0.4– 951021 557 0.8– 0.0 970209 557 0.2– 0.0
 950804 557 0.7– 0.2+ 951021 557 0.2– 0.2–

(7491)* 1995 SD₂ = 1981 SS₃ = 1986 TV₁₅ = 1986 UJ = 1988 CG₆

Discovered 1995 Sept. 23 at Osservatorio S. Vittore, Bologna.

Id. G. V. Williams (*MPC* 25965)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	52.57958		(2000.0)	P		Q	
<i>n</i>	0.21254699	ω	126.62114	+0.73037967		–0.67865505	
<i>a</i>	2.7807764	Ω	276.25767	+0.59923635		+0.69095460	
<i>e</i>	0.1185865	<i>i</i>	4.45911	+0.32781296		+0.24901621	
<i>P</i>	4.64	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

810925 095 2.1– 0.4– 950923 552 0.3+ 0.6+ 961215 691 1.1– 0.5+
 861007 095 (3.2+ 0.2–) 950923 552 0.4+ 0.1– 961215 691 1.2– 0.2+
 861030 887 (2.9+ 2.9+) 950925 552 0.9+ 0.4– 970131 552 0.2– 0.5+
 861030 887 0.6+ 2.1+ 950926 552 1.0+ 0.5+ 970131 552 0.1– 0.7+
 880215 809 0.0 0.5– 950929 552 0.1– 0.2– 970131 552 0.1– 0.8+
 880215 809 1.4+ 0.4– 950929 552 0.3– 0.1– 970206 552 0.5+ 0.6+
 880215 809 0.5+ 0.0 951017 552 0.1– 0.5+ 970206 552 0.3+ 0.2+
 940608 809 (2.9– 0.4–) 951017 552 0.4+ 0.2– 970206 552 0.0 0.5+
 940608 809 0.0 0.6+ 951023 552 0.6– 0.3+ 970208 552 0.1+ 0.2+
 940608 809 0.6+ 0.3+ 951023 552 0.7– 0.5+ 970208 552 0.2+ 0.5+
 940609 809 0.3– 1.5+ 951119 552 0.5– 0.1+ 970208 552 0.1+ 0.5+
 940609 809 1.0– 1.7+ 951119 552 0.5– 0.4+
 940609 809 0.9+ 1.2+ 951119 552 0.3– 0.2+

(7492)* 1995 UX = 1980 PS₃

Discovered 1995 Oct. 21 by P. Pravec at Ondřejov.

Id. G. V. Williams (*MPC* 26569)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

				Williams			
<i>M</i>	92.28951		(2000.0)	P		Q	
<i>n</i>	0.26443794	ω	189.12534	+0.97861504		–0.20569458	
<i>a</i>	2.4039211	Ω	182.74624	+0.19068717		+0.90995986	
<i>e</i>	0.2137502	<i>i</i>	1.83335	+0.07714280		+0.36008720	
<i>P</i>	3.73	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

800803 675 0.2– 0.0 951022 557 0.2+ 0.0 970116 557 0.0 0.4–
 800805 675 0.6+ 0.3+ 951022 557 0.2– 0.0 970116 557 0.2– 0.3–
 921224 691 0.8– 0.4+ 951022 557 0.2+ 0.3– 970116 557 0.0 0.5–
 921224 691 0.8– 0.2+ 951024 557 0.3– 0.1– 970116 557 0.8+ 0.3–
 921224 691 1.0– 0.4+ 951024 557 0.0 0.0 970117 557 0.5– 0.3–
 940315 691 0.7– 0.1– 951024 557 0.0 0.3+ 970117 557 0.8+ 0.1+
 940315 691 0.7– 0.1+ 951121 557 0.3+ 0.3– 970204 566 0.1+ 0.1+
 940315 691 0.7– 0.2– 951121 557 0.1+ 0.4– 970204 566 0.4+ 0.1–
 951021 557 0.4– 0.2– 960116 557 0.4– 0.2+ 970204 566 0.0 0.1–
 951021 557 0.3– 0.2– 960116 557 0.3+ 0.2– 970210 557 1.1+ 0.0
 951022 557 0.3+ 0.6– 960116 557 0.6+ 0.5+ 970210 557 1.1+ 0.7+
 951022 557 0.3+ 0.1+ 970116 557 0.0 1.2–

(7493)* 1995 US₂ = 1970 WE = 1988 AN₃ = 1994 NP₉

Discovered 1995 Oct. 24 by J. Tichá at Kleť.

Id. K. Kinoshita (*MPC* 26746)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

				Williams			
<i>M</i>	48.82639		(2000.0)	P		Q	
<i>n</i>	0.23545569	ω	177.60962	+0.10381886		–0.99018298	
<i>a</i>	2.5973467	Ω	266.42070	+0.91096138		+0.13243678	
<i>e</i>	0.1063118	<i>i</i>	5.38076	+0.39921298		–0.04470077	
<i>P</i>	4.19	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

701124 029 0.6– 1.2– 951024 046 (4.3+ 1.8+) 970114 046 0.5– 0.1+
 701124 029 0.0 0.4+ 951025 046 0.2– 0.3– 970114 046 0.3– 0.2+
 701221 029 0.0 0.4– 951025 046 0.1– 0.4– 970114 046 0.2– 0.0
 701221 029 0.6+ 0.3+ 951025 046 0.1+ 0.4– 970115 046 0.4– 0.2+
 880112 033 1.0+ 1.0+ 951025 046 0.1– 0.5– 970115 046 0.2– 0.2+
 880112 033 0.1+ 0.7+ 951025 046 0.1– 0.4– 970115 046 0.4– 0.1–
 940708 809 (2.5+ 0.7+) 951026 046 0.7+ 0.2– 970203 046 0.1+ 0.1–
 940708 809 0.3– 1.3+ 951026 046 0.1+ 0.1– 970203 046 0.0 0.2–
 940708 809 0.3+ 0.6+ 951026 046 0.1+ 0.0 970203 046 0.2+ 0.2–
 940709 809 (0.0 2.5–) 951128 327 0.3+ 0.7+ 970204 046 0.2+ 0.1+
 940709 809 (0.4– 3.0–) 951128 327 0.1– 0.8+ 970204 046 0.4+ 0.1+
 940709 809 (0.5– 3.2–) 951128 327 0.0 0.7+ 970204 046 0.3+ 0.1+
 951024 046 0.8– 0.5+ 951128 327 0.6– 0.4+

(7494)* 1995 UV₄₈ = 1970 EB₂ = 1979 YC₈ = 1986 GK₂ = 1991 CQ₅

Discovered 1995 Oct. 28 by the Beijing Schmidt CCD Asteroid Program at

Xinglong.

Id. G. V. Williams (*MPC* 27315)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	15.47593	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18751696	ω 249.42843	-0.97755104	-0.15888149
<i>a</i>	3.0230293	Ω 281.22947	+0.20314967	-0.88496555
<i>e</i>	0.0510019	<i>i</i> 8.11075	-0.05589438	-0.43771298
<i>P</i>	5.26	<i>H</i> 11.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

700304 805	0.5+	0.1+	941202 675	0.4+	0.4+	960413 327	0.1-	0.1-
700304 805	0.6+	0.0	941202 675	0.3-	0.6-	960413 327	0.1+	0.4-
700304 805	0.8-	1.1+	951028 327	0.1-	0.8+	960414 327	0.2-	0.0
791223 095	(5.4+	0.7-)	951028 327	0.2+	0.3+	960414 327	0.2-	0.1+
860404 095	(3.0-	1.3-)	951028 327	0.2+	0.1+	960414 327	0.4-	0.1-
910117 675	0.7-	1.5-	951028 327	0.1+	0.5+	961210 327	0.9-	0.2-
910117 675	0.1+	1.1-	951029 327	0.7+	0.4+	961210 327	1.1-	0.4+
910208 675	0.3+	0.6-	951029 327	0.5+	0.8+	961210 327	1.1-	0.1-
910208 675	0.6+	0.2-	951029 327	0.6+	0.9+	961210 327	1.2-	0.4-
941001 675	0.4-	0.1-	960411 327	1.0-	0.3+	970204 327	0.1+	0.0
941001 675	0.5-	0.9-	960411 327	0.1-	0.2+	970204 327	0.7+	0.3+
941130 675	1.2+	0.7-	960411 327	0.1+	0.3-	970204 327	1.3+	0.2-
941130 675	(0.4+	2.5-)	960413 327	0.2+	0.3-	970204 327	0.2+	0.1-

(7495)* 1995 WS₄ = 1992 BS₂

Discovered 1995 Nov. 22 at Kleť.

Id. B. G. Marsden (*MPC* 26409)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Marsden

<i>M</i>	358.60218	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.20980042	ω 243.66406	-0.72167011	-0.68297418
<i>a</i>	2.8049932	Ω 253.02645	+0.66972730	-0.64762039
<i>e</i>	0.1616166	<i>i</i> 6.77700	+0.17509311	-0.33783739
<i>P</i>	4.70	<i>H</i> 14.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

920126 691	0.3-	0.1-	951122 046	0.4+	0.6-	951209 046	0.0	0.0
920126 691	0.1-	0.2+	951122 046	0.4+	0.7-	951217 046	0.2+	0.4-
920126 691	0.2-	0.1+	951122 046	0.5+	0.6-	951217 046	0.3+	0.2+
920128 691	0.3-	0.7-	951122 046	0.3+	0.6-	951217 046	0.1-	0.3+
920128 691	0.3-	0.1+	951124 046	1.1-	0.2+	951227 046	1.1-	0.9+
920128 691	0.3-	0.1+	951124 046	0.7-	0.1+	951227 046	0.4-	0.8+
920128 691	0.1+	0.2+	951124 046	0.1-	0.2+	951227 046	0.6+	0.2-
920128 691	0.2+	0.3+	951124 046	0.1+	0.2+	970114 046	0.1-	0.0
920128 691	0.3+	0.4+	951125 046	0.2-	0.0	970114 046	0.3-	0.3-
920130 809	(2.0+	2.8-)	951125 046	0.2-	0.2-	970114 046	0.4-	0.1+
920130 809	0.7+	2.0-	951125 046	0.2-	0.1+	970115 046	0.5-	0.0
920130 809	1.0-	1.7-	951127 046	0.2-	0.2-	970115 046	0.3-	0.0
920202 809	1.2+	0.9+	951127 046	0.3+	0.2-	970115 046	0.5-	0.0
920202 809	0.1-	0.8+	951127 046	0.2-	0.0	970203 046	0.3+	0.0
920202 809	0.1-	0.9+	951208 046	0.3-	0.3+	970203 046	0.1+	0.1+
930514 809	0.2+	0.7-	951208 046	0.3+	0.8+	970203 046	0.1+	0.1+
930514 809	0.6+	0.3-	951208 046	0.3+	0.1+	970204 046	0.6+	0.1-
930514 809	0.9-	0.1+	951209 046	0.7+	0.5-	970204 046	0.3+	0.0
951122 046	0.3+	0.5-	951209 046	0.4+	0.2+	970204 046	0.4+	0.1-

(7496)* 1995 WN₆ = 1951 WV = 1969 AD = 1973 YG

Discovered 1995 Nov. 27 by M. Tichý at Kleť.

Id. B. G. Marsden (*MPC* 26747)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Marsden

<i>M</i>	69.42346	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18022681	ω 308.54876	+0.69427424	-0.67102748
<i>a</i>	3.1040101	Ω 95.28660	+0.71443334	+0.59886405
<i>e</i>	0.3397925	<i>i</i> 15.14805	+0.08699590	+0.43713152
<i>P</i>	5.47	<i>H</i> 12.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

511129 711	(4.1+	1.9-)	Y	951217 046	0.3+	0.1+	960201 046	0.1-	0.2-
690115 095	2.0-	2.5-		951217 046	0.3+	0.1+	960224 046	0.2+	0.1-
731219 095	0.5+	1.4+		951227 046	0.2+	0.2+	960224 046	0.3+	0.1-
951127 046	0.0	0.2-		951227 046	0.2+	0.2+	960224 046	0.3+	0.2-
951127 046	0.6-	0.2-		951227 046	0.4+	0.2+	970114 046	0.2+	0.0
951128 046	0.2-	0.0		960110 046	0.1-	0.9+	970114 046	0.2+	0.1-
951128 046	0.4-	0.2-		960110 046	0.2+	0.0	970114 046	0.1+	0.0
951128 046	0.4-	0.3-		960110 046	0.1+	0.1+	970115 046	0.2+	0.1-
951128 046	0.6-	0.6-		960111 046	0.1-	0.1+	970115 046	0.5+	0.1-
951208 046	0.1-	0.2+		960111 046	0.1-	0.1+	970115 046	0.2+	0.1+
951208 046	0.2-	0.3+		960111 046	0.1-	0.3+	970203 046	0.2+	0.4+
951208 046	0.2-	0.3+		960131 046	0.3+	0.0	970203 046	0.2+	0.4+
951209 046	0.2-	0.0		960131 046	0.4+	0.1+	970203 046	0.3+	0.3+
951210 046	0.0	0.1-		960131 046	0.0	0.1-	970204 046	0.2+	0.4+
951210 046	0.2-	0.0		960201 046	0.2+	0.1-	970204 046	0.2+	0.5+
951217 046	0.3+	0.0		960201 046	0.1+	0.2-	970204 046	0.4+	0.4+

(7497)* 1995 YY₂₁ = 1972 TL₁ = 1991 RL₂₅

Discovered 1995 Dec. 17 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. K. Kinoshita (*MPC* 26748)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	106.53443	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25610015	ω 353.79204	+0.99732781	-0.07245898
<i>a</i>	2.4558179	Ω 10.37699	+0.06905758	+0.89338126
<i>e</i>	0.1889867	<i>i</i> 2.96725	+0.02383892	+0.44341810
<i>P</i>	3.85	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

721007 095	0.2-	0.0	951218 327	0.2+	0.2-	960201 327	0.9+	0.1-
910912 675	0.2+	0.8+	951219 327	0.3-	0.3-	960201 327	0.3+	0.1-
910912 675	0.4+	0.2-	951219 327	0.1-	0.6-	960201 327	0.2-	0.2+
910915 675	0.6+	1.5-	951219 327	0.0	0.4+	961126 327	0.9-	0.2+
910915 675	0.5+	0.8-	951221 327	0.0	0.1-	961126 327	0.7+	0.0
950728 691	1.1-	0.0	951221 327	0.5+	0.2+	961126 327	0.9-	0.2-
950728 691	1.3-	0.1-	951221 327	0.1-	0.3+	961126 327	0.5+	0.9+
950728 691	0.3-	0.2-	960130 327	0.8-	0.3+	970204 566	0.5+	0.5-
951217 327	0.2+	0.3-	960130 327	0.7+	0.6+	970204 566	0.4+	0.7-
951217 327	0.4+	0.0	960130 327	0.1-	0.5+	970204 566	0.0	1.1-
951217 327	0.6+	0.3+	960131 327	0.1+	0.5+	970206 327	0.8-	0.0
951218 327	0.1+	0.2-	960131 327	0.2-	0.2+	970206 327	0.2+	0.1+
951218 327	0.2+	0.2-	960131 327	0.8-	0.2+	970206 327	0.9-	0.2-

(7498)* 1996 BF = 1954 TW = 1993 QO₁₀

Discovered 1996 Jan. 16 at Kleť.

Id. B. G. Marsden (*MPC* 26908)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5			Marsden			
<i>M</i>	136.22901	(2000.0)	P		Q	
<i>n</i>	0.17411910	ω 74.82432	+0.77733136		-0.58693646	
<i>a</i>	3.1761801	Ω 320.35013	+0.34795215		+0.70097146	
<i>e</i>	0.0172798	<i>i</i> 20.78255	+0.52410424		+0.40514763	
<i>P</i>	5.66	<i>H</i> 12.2	<i>G</i> 0.15		<i>U</i> 1	

Residuals in seconds of arc

541004 675	0.1-	0.8-	960201 046	0.4-	0.0	960319 046	0.1+	0.2-
541004 675	0.6+	0.2+	960201 046	0.5-	0.0	960320 046	0.1-	0.2-
930817 691	0.7-	0.6+	960201 046	0.3-	0.1+	960320 046	0.0	0.1-
930817 691	0.5-	0.7+	960206 046	0.5-	0.3+	960320 046	0.0	0.1-
930817 691	0.6-	0.8+	960206 046	0.2-	0.4+	960406 046	0.0	0.0
960116 046	0.2+	1.0-	960206 046	0.0	0.3+	960406 046	0.0	0.1+
960116 046	0.4+	0.8-	960209 046	0.2-	0.2+	960406 046	0.0	0.8+
960117 046	0.3+	0.2+	960209 046	0.2-	0.2+	960407 046	0.1-	0.6+
960117 046	0.3+	0.1+	960209 046	0.3-	0.3+	960407 046	0.1-	0.6+
960117 046	0.3+	0.3+	960215 046	0.1+	0.0	960407 046	0.1-	0.6+
960117 046	0.3+	0.2+	960215 046	0.8-	0.2+	970114 046	0.5-	0.3+
960117 046	0.2+	0.3+	960215 046	0.7-	0.1+	970114 046	0.2-	0.2+
960119 046	0.2+	0.0	960222 046	0.6+	0.3-	970114 046	0.2-	0.4+
960119 046	0.7+	0.3+	960222 046	0.3+	0.7-	970115 046	0.6-	0.3+
960126 046	0.7-	0.2+	960222 046	0.4+	0.5-	970115 046	0.0	0.6+
960126 046	0.5-	0.5+	960224 046	1.0+	0.2-	970115 046	0.4-	0.4+
960126 046	0.1-	0.2+	960224 046	0.9+	0.3-	970207 046	0.8+	1.3-
960131 046	0.3-	0.0	960224 046	0.9+	0.2-	970207 046	0.5+	0.8-
960131 046	0.4+	0.0	960319 046	0.1+	0.1-	970207 046	0.5+	0.2+
960131 046	0.0	0.2-	960319 046	0.0	0.1-			

(7499)* 1996 OO₂ = 1979 WL₂ = 1990 TG₁₅ = 5468 T-2

Discovered 1996 July 24 by A. Boattini and A. Di Paola at the Astronomical Observatory, Campo Imperatore.

Id. G. V. Williams (*MPC* 27922)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5			Williams			
<i>M</i>	22.41666	(2000.0)	P		Q	
<i>n</i>	0.17586129	ω 70.56023	+0.80313863		-0.58754154	
<i>a</i>	3.1551684	Ω 325.21957	+0.46070971		+0.71760275	
<i>e</i>	0.1291238	<i>i</i> 9.97497	+0.37777625		+0.37395351	
<i>P</i>	5.60	<i>H</i> 12.5	<i>G</i> 0.15		<i>U</i> 2	

Residuals in seconds of arc

730929 675	1.1+	0.5-	960724 599	(3.1-	1.5-)	961124 610	1.1-	0.8+
730929 675	0.5-	0.2-	960726 599	0.7-	0.3-	961124 610	0.8-	0.7+
730930 675	0.5+	1.0-	960726 599	1.0-	0.9-	961124 610	0.3-	0.7+
730930 675	0.7+	0.1-	960726 599	(2.9-	0.9-)	961201 610	0.0	0.1-
731004 675	0.8-	0.3+	960805 104	0.8-	0.7+	961201 610	0.2-	0.0
731004 675	1.6-	1.2+	960805 104	1.0+	0.1+	961201 610	0.1-	0.1+
731005 675	0.4+	0.3+	960805 104	0.4-	0.0	961205 610	0.2+	0.1+
731005 675	0.5+	0.2-	960805 104	0.0	0.2+	961205 610	0.1+	0.1+
791116 095	0.6-	1.0+	960805 104	0.3-	0.7-	961205 610	0.1+	0.1-
901013 095	(0.1-	4.0-)	960815 104	0.1+	0.3-	961228 104	1.4+	1.2+
901013 095	(0.1-	3.0-)	960815 104	0.0	0.0	961228 104	0.9+	1.2+
901017 095	0.8+	0.3-	960909 104	0.5+	0.1-	970113 599	0.4+	1.3-
901017 095	(1.0-	3.0-)	960909 104	0.2+	0.2-	970113 599	0.6+	1.2-
920129 691	0.2-	0.2-	960909 104	0.5+	0.1-	970206 104	0.5+	0.3+

920129 691	0.2-	0.1-	961105 599	0.8-	0.2-	970206 104	0.8+	0.9-
920129 691	0.2-	0.2-	961105 599	0.1-	0.3-			
960724 599	0.4-	0.4-	961105 599	0.6-	0.4-			

(7500)* 1996 TN = 1979 YX₂ = 1989 TF₁₇

Discovered 1996 Oct. 3 at Farra d'Isonzo.

Id. G. V. Williams (*MPC* 28081)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5			Williams			
<i>M</i>	26.61343	(2000.0)	P		Q	
<i>n</i>	0.28376699	ω 314.88983	+0.99716677		-0.00045789	
<i>a</i>	2.2934792	Ω 45.29781	+0.03539651		+0.88520964	
<i>e</i>	0.0885682	<i>i</i> 6.07500	-0.06637416		+0.46519210	
<i>P</i>	3.47	<i>H</i> 13.5	<i>G</i> 0.15		<i>U</i> 2	

Residuals in seconds of arc

791224 095	0.5-	0.2-	910313 675	0.5-	0.6-	961109 595	0.8+	0.1-
890930 675	0.2-	0.1-	961003 595	0.3-	0.2+	961109 595	0.2+	0.3-
890930 675	0.7-	0.0	961003 595	0.0	0.1+	961109 595	0.5+	0.2+
891009 809	0.4+	0.4+	961004 595	0.2-	0.3+	970107 595	0.3+	0.0
891009 809	0.2+	0.4+	961004 595	0.7-	0.1+	970107 595	1.1+	0.4+
891009 809	0.3+	0.5+	961004 595	0.3-	0.2+	970108 595	0.0	0.3+
891010 809	0.3-	0.4-	961009 399	1.5-	0.3-	970108 595	0.0	0.8+
891010 809	0.0	0.4-	961009 399	1.1-	1.0-	970203 566	0.6+	0.3-
891010 809	0.5+	0.4-	961009 595	0.2-	0.2+	970203 566	0.4+	0.3+
891010 809	1.1+	0.3-	961009 595	0.2-	0.3+	970203 566	0.1+	0.0
910210 675	0.9+	0.9+	961010 399	0.1-	0.1-	970203 566	0.0	0.1-
910210 675	0.1-	0.8+	961010 399	0.5-	0.5+	970203 566	0.4+	0.3+
910313 675	0.1+	0.7-	961108 595	1.2+	0.3-	970203 566	0.2+	0.3-

(7501)* 1996 VD₃ = 1989 SX₁₀ = 1992 CP₁

Discovered 1996 Nov. 9 at Farra d'Isonzo.

Id. S. Nakano (*MPC* 28600)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5			Nakano			
<i>M</i>	42.37809	(2000.0)	P		Q	
<i>n</i>	0.16215681	ω 186.19427	+0.94781281		-0.31877597	
<i>a</i>	3.3305242	Ω 192.39923	+0.29365058		+0.87981868	
<i>e</i>	0.1071768	<i>i</i> 1.52750	+0.12417815		+0.35256343	
<i>P</i>	6.08	<i>H</i> 12.2	<i>G</i> 0.15		<i>U</i> 1	

Residuals in seconds of arc

890928 809	0.3-	1.4+	950926 010	0.7+	0.7-	961130 411	0.2-	0.1+
890928 809	0.4-	1.2+	950926 010	0.3-	1.0-	961201 411	0.0	0.2-
890928 809	0.3-	1.1+	961109 595	0.9-	0.4+	961201 411	0.4+	0.0
890929 809	0.3-	0.3+	961109 595	1.2-	0.3+	961201 595	0.3-	0.6+
890929 809	0.3-	0.1+	961110 595	0.1-	1.0+	961201 595	0.5-	0.5-
890929 809	0.1-	0.3+	961112 589	0.4-	0.4+	961203 905	0.8-	0.3+
920212 303	0.3-	1.0-	961112 589	0.4-	0.3+	961203 905	0.6-	0.0
920213 303	0.1+	0.5+	961122 595	0.1-	1.3-	970127 595	1.2+	0.4+
950902 010	0.2+	0.0	961122 595	0.4+	1.3-	970128 595	0.8+	0.3-
950902 010	0.0	0.3+	961127 595	0.8+	0.8-	970128 595	0.0	1.0+
950902 010	0.6+	1.6-	961127 595	1.3+	0.8-			
950926 010	0.7+	1.7-	961130 411	0.7+	0.0			

(7502)* 1996 VP₇ = 1983 AM₄ = 1986 RF₁₁ = 1994 KC

Discovered 1996 Nov. 15 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Id. E. Bowell (*MPC* 28867), G. V. Williams (*ibid.*), S. Nakano (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

M	29.03017		(2000.0)		P		Q
n	0.20633710	ω	193.56277		+0.86370204		-0.50391900
a	2.8362935	Ω	196.70632		+0.46534412		+0.80432327
e	0.0686674	i	1.83176		+0.19358110		+0.31484873
P	4.78	H	12.5	G	0.15	U	2

Residuals in seconds of arc

830106	095	0.2+	2.4+	940608	675	0.8+	0.6-	961201	385	0.1+	0.4-
860909	095	0.1-	1.4-	940608	675	0.9+	0.5-	961201	385	0.1+	0.4-
911105	095	(3.2-	1.8-)	961115	905	1.5-	0.9-	961201	385	0.1+	0.2-
911105	095	0.6+	2.0+	961115	905	0.4+	1.0-	961202	905	0.8+	0.4-
940511	691	0.7-	1.7-	961118	905	0.8+	0.1-	961202	905	0.1-	0.6-
940511	691	0.6-	0.6-	961118	905	(2.4+	1.3-)	961214	905	0.5-	0.8-
940517	691	0.7-	0.7-	961121	385	0.8+	0.1-	961214	905	0.1+	0.6-
940517	691	0.4-	0.6-	961121	385	0.0	0.7-	970103	385	0.7-	1.0-
940517	691	0.5-	0.7-	961121	385	0.3+	0.3-	970103	385	0.4-	0.5-

(7503)* 1996 VJ₃₈ = 1986 WC₁₀ = 1989 SN₉ = 1991 EN₅

Discovered 1996 Nov. 7 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 28604), A. Lowe (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

M	47.45228		(2000.0)		P		Q
n	0.29589805	ω	41.18214		+0.99391761		-0.10837237
a	2.2303583	Ω	325.02485		+0.08996528		+0.90154956
e	0.0435056	i	1.95709		+0.06351411		+0.41888402
P	3.33	H	14.2	G	0.15	U	2

Residuals in seconds of arc

861130	381	(3.1+	1.1+)	910314	809	0.5+	0.6-	961112	399	1.0-	1.3-
861130	381	0.6+	0.0	910314	809	0.5+	0.5-	961112	399	0.1+	0.6+
861201	381	1.4-	0.1+	910314	809	0.5+	0.3-	961115	399	0.7-	0.1+
861201	381	0.2+	0.1-	910315	809	1.1-	0.3-	961115	399	0.4+	0.7+
890925	809	0.3-	0.7-	910315	809	0.5-	0.1-	961202	399	0.4-	1.0-
890925	809	0.1-	0.8-	910315	809	0.5-	0.1-	961202	399	0.9-	1.1-
890925	809	0.5+	0.8-	920827	675	0.5+	0.9-	970114	327	0.5+	0.3+
890926	809	0.1-	0.2+	920827	675	1.1-	0.9+	970114	327	0.2+	0.4+
890926	809	0.5+	0.2+	961107	399	1.2+	0.8+	970114	327	0.1-	0.4+
890926	809	1.3+	0.3+	961107	399	0.7+	1.1+				

(7504)* 1997 AF₁ = 1978 UR₇ = 1981 JX₅ = 1995 TP₃

Discovered 1997 Jan. 2 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 28878)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

M	340.72672		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.17448247	ω	83.29956		-0.70280149		-0.71118372
a	3.1717687	Ω	51.36738		+0.64380463		-0.64599928
e	0.2001519	i	1.24435		+0.30263123		-0.27731325
P	5.65	H	13.0	G	0.15	U	1

Residuals in seconds of arc

781027	675	0.1+	0.4-	951021	691	0.0	0.1-	970103	411	0.5+	0.3-
781028	675	0.7+	0.9-	951111	369	1.6-	0.4+	970103	411	0.4+	0.4+
781029	675	0.2-	0.4-	951111	369	0.6+	0.1+	970109	411	0.0	0.1-
810508	675	0.5+	0.4-	951111	369	0.3+	0.5+	970109	411	0.7-	0.5-

810509	675	0.6-	0.0	951111	369	0.2-	0.5+	970114	411	0.9+	0.2+
951015	691	0.7-	0.1-	951116	369	1.2+	0.5+	970114	411	0.3+	0.7+
951015	691	0.6-	0.3-	951116	369	1.0+	0.3+	970127	411	0.2+	0.4+
951015	691	0.3-	0.1-	951116	369	0.0	0.0	970127	411	0.2+	0.3+
951021	691	0.4-	0.1-	970102	411	1.9-	0.7-				
951021	691	0.2+	0.1-	970102	411	0.1-	0.7-				

(7505)* 1997 AM₂ = 1940 WC = 1944 OG = 1950 BA₁ = 1970 WG = 1991 NS

Discovered 1997 Jan. 3 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 28879)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

M	45.85254		(2000.0)		P		Q
n	0.22993567	ω	288.13868		+0.96076854		-0.25420953
a	2.6387514	Ω	86.70208		+0.27730350		+0.87301693
e	0.3800510	i	6.37846		+0.00515590		+0.41619581
P	4.29	H	11.9	G	0.15	U	1

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

401121	094	(0.00+	0.03+)	X	910710	675	0.3-	0.6-	970108	411	0.6-	0.2-
401129	062	0.2-	1.3-		910710	675	1.2-	0.8-	970108	411	0.5-	0.3-
401129	062	0.6-	0.9+		930130	408	1.7+	0.2+	970112	400	1.8-	0.4-
401204	062	0.7+	0.5+		930130	408	0.6+	1.2-	970112	400	0.2-	0.5-
440726	078	(0.00+	0.06+)	X	930130	408	1.4+	0.6-	970113	400	0.9+	1.5-
440818	078	(34.7-	24.1-)	X	970103	408	0.9-	0.3+	970113	400	1.2+	0.8-
440824	078	(72.6+	28.7+)	X	970103	408	0.5-	1.2+	970114	411	0.2-	0.1+
500128	760	1.3-	1.7+		970103	408	0.3-	0.3+	970114	411	0.3-	0.2+
500128	760	0.6+	1.8+		970103	411	0.1+	0.0	970126	411	0.6-	0.9-
701125	026	0.9+	0.1-		970103	411	0.2-	0.1+	970126	411	0.7-	1.1-
701125	026	(0.7-	4.0-)		970104	411	0.1-	0.1+	970131	402	0.2+	0.3-
910708	675	0.8+	0.8-		970104	411	0.2-	0.4+	970131	402	0.2+	0.5-
910708	675	1.3+	0.3-		970104	408	0.5+	0.7+	970131	402	0.2+	0.4-
910708	886	0.8-	0.2+	Y	970104	408	0.1+	1.0-				
910708	886	(1.2-	2.4-)	Y	970104	408	0.4+	0.3-				

(7506)* 4837 P-L = 1977 RJ₁₀

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

Id. E. Bowell (*MPC* 17974)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

M	285.63978		(2000.0)		P		Q
n	0.17198017	ω	183.22090		-0.97631996		+0.21632888
a	3.2024606	Ω	9.27281		-0.19833133		-0.89309397
e	0.1490588	i	0.38114		-0.08639453		-0.39444262
P	5.73	H	14.1	G	0.15	U	1

Residuals in seconds of arc

551025	675	(21.8-	10.0-)		770909	675	0.1+	0.2+	970108	684	0.1-	0.0
600924	675	0.1+	0.4+		770910	675	0.0	0.3-	970112	566	0.3-	0.1+
600924	675	1.2-	1.2-		920330	033	0.3+	0.1-	970112	566	0.6-	0.4+
600926	675	0.1+	0.1-		920331	033	0.6-	0.3-	970112	566	0.4-	0.4+
600926	675	0.1+	0.0		920402	033	0.5-	0.3+	970206	566	0.8+	0.0
600927	675	0.5+	0.1+		920403	033	0.6+	0.1-	970206	566	0.6+	0.0
600927	675	1.2+	0.5+		970104	684	0.6-	0.1-	970206	566	1.3+	0.4-

600928 675 0.4- 0.5+ 970104 684 0.5- 0.3-
 600928 675 0.4- 0.4- 970108 684 0.1- 0.0

(7507)* 7063 P-L = 1974 OC₁ = 1985 SK₂

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld
 on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (*MPC* 15424)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		80.79716		(2000.0)		P		Q	
<i>n</i>		0.27626194	ω	68.65474		+0.67040235		+0.73896549	
<i>a</i>		2.3348304	Ω	243.62415		-0.70547470		+0.60681258	
<i>e</i>		0.2120986	<i>i</i>	4.28969		-0.22992637		+0.29276014	
<i>P</i>		3.57	<i>H</i>	14.4		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

601017 675	0.4+	0.5-	920805 675	0.3+	0.1+	920903 894	0.5-	0.7-
601022 675	0.4+	0.4+	920805 675	0.9-	0.7+	940110 691	0.5-	0.0
601024 675	0.4+	0.4+	920822 675	0.1+	0.3+	940110 691	0.1-	0.2-
601026 675	0.2+	0.0	920822 675	0.1+	0.1+	940110 691	1.1-	0.2-
740719 808	0.8-	1.1-	920828 675	0.6+	0.6-	961205 691	0.2-	0.2+
740719 808	0.2-	0.4-	920828 675	0.1+	0.0	961205 691	0.2-	0.0
850919 095	0.0	1.2-	920830 801	0.4+	0.6+	961205 691	0.1-	0.0
850921 095	1.1-	0.2+	920830 293	1.8+	0.1+	961214 691	0.6-	0.1+
910209 675	1.2+	1.5-	920830 801	0.4+	0.1+	961214 691	0.4-	0.1-
910209 675	(0.7+	2.3-)	920831 894	0.1-	1.6-	961214 691	0.6-	0.0
920728 801	0.1+	0.3+	920831 894	0.3+	0.2+	961229 369	0.8+	0.6+
920728 801	0.0	0.3+	920901 801	0.3+	0.7+	961229 369	1.0+	0.2-
920730 801	0.0	0.3+	920901 801	0.2+	0.8+	961229 369	0.5+	0.0
920730 801	0.5-	0.7+	920903 894	1.6-	1.3-			

(7508)* 2327 T-3 = 1990 HJ₅

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld
 on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 19883)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		15.00687		(2000.0)		P		Q	
<i>n</i>		0.21079365	ω	140.85515		+0.78279197		-0.62067050	
<i>a</i>		2.7961751	Ω	257.56819		+0.55880238		+0.73277619	
<i>e</i>		0.1000582	<i>i</i>	2.62798		+0.27381863		+0.27893940	
<i>P</i>		4.68	<i>H</i>	14.3		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

771007 675	1.2+	0.7-	771022 675	0.2+	0.4-	961212 691	0.1+	0.1+
771011 675	0.5+	0.8+	771022 675	1.3-	0.5-	961212 691	0.2+	0.3-
771011 675	0.0	1.7+	900429 413	0.3+	1.0-	961215 691	0.2-	0.1-
771012 675	0.5+	0.3-	900501 413	0.3-	0.4-	961215 691	0.3-	0.2+
771012 675	0.1+	0.3+	900502 413	0.2+	0.8-	961215 691	0.4-	0.2-
771016 675	(0.8-	2.8-)	930213 589	0.3+	0.3-	961217 691	0.7+	0.0
771016 675	0.0	1.4-	930213 589	0.4-	0.2-	961217 691	0.6+	0.1+
771017 675	2.1-	0.5+	961204 691	0.3+	0.3-	961217 691	1.5-	0.4+
771017 675	1.1-	0.5+	961204 691	0.5+	0.2-	970206 691	0.2-	0.0
771021 675	1.2+	0.4+	961204 691	0.6+	0.6-	970206 691	0.7-	0.5-
771021 675	0.8+	1.1-	961212 691	0.3+	0.2-			

1976 DC = 1997 CQ₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		311.50667		(2000.0)		P		Q	
<i>n</i>		0.27970047	ω	223.37853		-0.96457941		+0.05663164	
<i>a</i>		2.3156553	Ω	317.72994		+0.12246024		-0.76893193	
<i>e</i>		0.3422726	<i>i</i>	22.52206		-0.23364512		-0.63681752	
<i>P</i>		3.52	<i>H</i>	15.5		<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

760227 809	0.1+	0.9-	760327 809	0.9+	0.3+	970206 566	0.2-	0.3-
760227 809	0.1-	0.6+	760327 809	0.9+	1.0+	970206 566	0.1+	0.2-
760320 809	0.2+	0.3-	760428 809	0.4-	0.7+	970207 566	0.4-	0.1-
760320 809	0.4+	0.2-	760428 809	0.0	0.4+	970207 566	0.0	0.1+
760322 809	0.8-	0.5+	760429 809	0.2+	0.5-	970207 566	0.0	0.1-
760322 809	1.0+	0.6+	760430 809	0.3+	0.7-	970208 566	0.1+	0.3+
760325 809	2.3-	0.6-	760430 809	0.1+	0.2-	970208 566	0.5+	0.2+
760325 809	1.0-	1.2-	760525 809(13.5-	1.2-)		970208 566	0.2+	0.3+
760326 809	0.3+	0.2-	760525 809(11.1-	1.8-)				
760326 809	0.3+	0.7+	970206 566	0.3-	0.0			

1978 VD₉ = 1978 WE₁₂ = 1996 XF₅

Id. H. Oishi (d, *MPC* 11721), K. Ichikawa

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		51.18959		(2000.0)		P		Q	
<i>n</i>		0.27510234	ω	341.49995		+0.96149006		-0.27454597	
<i>a</i>		2.3413870	Ω	34.44307		+0.25491067		+0.87353763	
<i>e</i>		0.0805828	<i>i</i>	1.28703		+0.10274930		+0.40194095	
<i>P</i>		3.58	<i>H</i>	15.1		<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

781105 675	0.5+	0.3+	781130 675	0.9+	0.0	961203 112	0.5+	0.5+
781106 675	1.1-	0.5-	961202 112	0.1+	0.1+	961229 112	0.4-	0.5-
781107 675	0.2-	0.4+	961202 112	0.0	1.4+	961229 112	0.1-	0.1-
781108 675	0.7+	0.4-	961203 112	0.2+	1.0-	961230 112	0.3+	0.1+
781129 675	0.8-	0.1-	961203 112	0.5-	0.2-			

1979 MV₈ = 1997 CC₁₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		211.90287		(2000.0)		P		Q	
<i>n</i>		0.25991519	ω	140.37291		+0.33120885		+0.94212035	
<i>a</i>		2.4317277	Ω	148.86753		-0.88923385		+0.33011457	
<i>e</i>		0.1730374	<i>i</i>	5.77873		-0.31553741		+0.05859699	
<i>P</i>		3.79	<i>H</i>	16.5		<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

790624 413	1.2-	0.1-	790727 675	0.4-	0.2-	970210 691	0.9+	0.8+
790625 413	0.1-	0.4-	970206 691	0.4-	0.3-	970210 691	0.7+	0.0
790629 413	1.6+	0.5+	970206 691	0.8-	0.3-	970210 691	0.5+	0.2-
790726 675	0.2+	0.2+	970206 691	0.7-	0.0			

1980 DN = 1989 WZ₆ = 1991 BN₄ = 1997 CB₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		315.11878		(2000.0)		P		Q	
<i>n</i>		0.17643123	ω	61.32717		-0.97409496		+0.19887751	
<i>a</i>		3.1483698	Ω	129.93126		-0.22299890		-0.92382029	
<i>e</i>		0.1084147	<i>i</i>	8.06955		+0.03755668		-0.32711437	
<i>P</i>		5.59	<i>H</i>	12.1		<i>G</i>	0.15	<i>U</i>	2

M.P.C. 29093

1997 FEB. 22

Residuals in seconds of arc

800214	046	1.6−	0.1+	800221	046	0.8+	1.3−	970203	411	0.9+	1.9+
800214	046	0.3+	0.4−	800222	046	1.5+	0.3−	970203	411	0.3+	0.0
800215	046	0.9−	0.2+	891128	511	1.8−	0.3+	970204	411	0.1+	0.5+
800215	046	0.9+	1.0−	891128	511	0.5+	0.4+	970204	411	0.3+	0.5+
800219	046	0.6−	0.1−	891128	511	1.3−	0.6+	970211	411	0.5−	0.7+
800219	046	0.0	0.4+	891128	511	1.9+	0.6+	970211	411	0.0	0.8+
800220	046	0.7−	0.9−	910120	511	1.2−	0.2−				
800220	046	0.0	0.4+	910120	511	1.2+	1.3−				

1981 DT = 1997 CU₁₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
				P	Q		
<i>M</i>	338.80153		(2000.0)				
<i>n</i>	0.18065731	ω	186.29702	−0.90920183	−0.39531350		
<i>a</i>	3.0990770	Ω	329.35672	+0.39231319	−0.70828447		
<i>e</i>	0.0634587	<i>i</i>	14.85688	+0.13943597	−0.58485925		
<i>P</i>	5.46	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

810209	413	0.1−	2.0+	810312	413	1.1−	0.0	810502	413	0.1+	0.3−
810212	413	(1.6+	3.8+)	810312	413	1.2+	0.2−	810502	413	(3.0−	1.5−)
810228	413	1.8−	0.2−	810407	413	2.2−	0.4+	970206	691	0.0	0.1+
810228	413	0.4+	0.2−	810407	413	2.0+	0.3−	970206	691	0.1−	0.3−
810306	413	1.7−	0.2−	810408	413	0.2−	0.4+	970206	691	0.2−	0.0
810306	413	0.1−	1.9−	810408	413	1.5+	0.3+	970210	691	0.0	0.0
810308	413	0.5−	0.2+	810409	413	0.6−	0.3+	970210	691	0.5+	0.2−
810308	413	1.5+	0.7−	810409	413	1.3+	0.3+	970210	691	0.0	0.5+

1981 DN₂

Id. E. Bowell (1988, 1994 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
				P	Q		
<i>M</i>	142.17854		(2000.0)				
<i>n</i>	0.18789646	ω	149.84070	+0.84558821	−0.51152650		
<i>a</i>	3.0189574	Ω	241.69737	+0.44855254	+0.83591652		
<i>e</i>	0.1121158	<i>i</i>	9.98833	+0.28944981	+0.19895782		
<i>P</i>	5.25	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

810204	413	0.3−	0.2+	810308	413	0.8−	0.9+	880813	675	0.4−	0.1−
810208	413	0.5−	0.8+	810409	413	1.7−	1.9−	941003	675	0.3+	0.9+
810228	413	(2.8−	0.4+)	810409	413	(1.4+	3.1−)	941003	675	0.8+	0.7+
810228	413	1.0+	0.5−	810501	413	1.6+	0.3+	941129	675	(0.5+	2.9−)
810306	413	0.6+	0.2−	810501	413	2.0−	2.1+	941129	675	1.3−	0.7−
810306	413	2.3+	0.3−	880813	675	0.3+	0.5+				

1981 EA₁₆ = 1997 BA₅

Id. T. Urata

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
				P	Q		
<i>M</i>	215.27398		(2000.0)				
<i>n</i>	0.30010337	ω	283.26847	−0.23005056	+0.97181053		
<i>a</i>	2.2094735	Ω	333.26140	−0.84259500	−0.22542435		
<i>e</i>	0.1176332	<i>i</i>	6.58368	−0.48693984	−0.06905191		
<i>P</i>	3.28	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

810212	413	0.5+	0.5+	810406	413	0.5−	0.2−	970130	369	0.1+	0.6−
810212	413	0.0	0.6−	810406	413	0.8+	0.5−	970130	369	0.0	0.2−

810301	413	1.5+	0.2−	810408	413	1.0−	0.6+	970201	369	1.0+	0.7−
810306	413	2.1+	0.8−	810408	413	0.8+	0.1+	970201	369	0.3−	0.8+
810308	413	1.4−	0.1−	810409	413	1.2−	0.4+	970204	566	0.2−	0.1+
810308	413	0.3−	0.4+	810409	413	0.8+	0.4+	970204	566	0.5−	0.3+
810312	413	1.9−	0.7+	810501	413	0.1−	1.0−	970204	566	0.2−	0.2+
810312	413	0.0	0.4+	810503	413	0.1+	0.3−				

1981 EF₁₆ = 1955 XJ₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Bowell			
				P	Q		
<i>M</i>	71.47955		(2000.0)				
<i>n</i>	0.24522901	ω	217.26096	+0.58227714	−0.81104719		
<i>a</i>	2.5278705	Ω	197.35559	+0.78388601	+0.57841327		
<i>e</i>	0.1988954	<i>i</i>	10.85483	+0.21558304	+0.08741024		
<i>P</i>	4.02	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

551211	675	1.0−	0.3+	810308	413	0.1−	0.4−	810409	413	(2.4−	1.9+)
551211	675	1.0+	0.2−	810308	413	(2.6+	1.2−)	810409	413	0.0	0.2+
810212	413	1.4−	0.9+	810312	413	0.7+	0.1−	810501	413	0.6−	1.6−
810301	413	1.8−	0.8+	810312	413	1.8+	0.3+	911008	675	0.4+	0.6−
810301	413	1.7+	1.2−	810408	413	1.6−	0.2−	911008	675	0.0	1.1−
810306	413	0.7+	0.0	810408	413	0.0	0.7−				

1981 EG₁₆

Id. T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
				P	Q		
<i>M</i>	287.04184		(2000.0)				
<i>n</i>	0.24418878	ω	239.28197	−0.72917970	+0.68140973		
<i>a</i>	2.5350445	Ω	343.39086	−0.52779836	−0.61866448		
<i>e</i>	0.1538648	<i>i</i>	12.74690	−0.43557532	−0.39106909		
<i>P</i>	4.04	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

810212	413	0.8+	0.3+	810407	413	0.1−	0.2+	810501	413	0.1−	0.6+
810301	413	0.2−	0.6−	810407	413	(6.8+	0.0)	810502	413	1.0−	0.8−
810301	413	0.3+	0.5−	810408	413	1.2−	0.0	970212	411	0.2−	0.1−
810306	413	2.3+	0.3+	810408	413	0.7+	0.0	970212	411	0.1−	0.3+
810308	413	1.2−	0.0	810409	413	1.4−	0.3−	970213	411	0.0	0.2−
810312	413	0.8−	0.4+	810409	413	0.8+	0.2−	970213	411	0.1+	0.4−
810312	413	0.2+	0.7+	810501	413	1.4+	0.1+				

1981 ES₁₆ = 1997 CA₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
				P	Q		
<i>M</i>	234.35968		(2000.0)				
<i>n</i>	0.23915182	ω	290.91689	−0.37722430	+0.92537591		
<i>a</i>	2.5705157	Ω	316.86283	−0.82822587	−0.35503528		
<i>e</i>	0.1412274	<i>i</i>	3.11587	−0.41441976	−0.13277569		
<i>P</i>	4.12	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

810212	413	0.2+	0.5−	810315	413	0.3−	0.0	970202	691	0.0	0.1+
810306	413	0.9+	1.4+	810408	413	0.7−	0.6−	970202	691	0.1+	0.2−
810308	413	0.5+	0.1+	810409	413	0.6−	0.8−	970202	691	0.1−	0.1−
810308	413	1.3+	0.1+	810409	413	0.0	0.8−	970203	691	0.0	0.1+
810311	413	(3.0+	0.9−)	810501	413	1.0−	1.2−	970203	691	0.0	0.1−
810312	413	(2.8−	1.3+)	810503	413	1.7+	2.4+	970203	691	0.0	0.2+

1981 EZ₁₉ = 1997 CT₂₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24322492	ω	316.04425	+0.47835188	+0.87795603		
<i>a</i>	2.5417373	Ω	342.50547	-0.78693421	+0.41879463		
<i>e</i>	0.0881480	<i>i</i>	3.68203	-0.38976151	+0.23195748		
<i>P</i>	4.05	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

810213	413	1.1+	0.9+	810316	413	(5.9+ 0.9-)	970210	691	0.1+	0.0
810302	413	0.9+	1.9-	810411	413	0.8- 0.8+	970216	691	0.1-	0.0
810303	413	0.7+	0.4-	810430	413	0.1+ 0.4+	970216	691	0.1-	0.0
810307	413	0.0	0.0	810502	413	0.4+ 0.2-	970216	691	0.1+	0.2-
810311	413	1.4-	0.4+	970210	691	0.1-	0.4+			
810316	413	0.8-	0.1+	970210	691	0.2+	0.0			

1981 EA₃₆ = 1997 CC₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24009290	ω	76.85676	+0.78704031	-0.61578252		
<i>a</i>	2.5637943	Ω	321.13385	+0.54059324	+0.71743995		
<i>e</i>	0.1205432	<i>i</i>	3.39323	+0.29719777	+0.32571739		
<i>P</i>	4.11	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

810303	413	1.7+	0.7-	970114	566	1.0- 0.2-	970206	566	0.7+	0.6+
810307	413	2.1-	0.3+	970114	566	0.1- 0.5-	970206	566	0.4+	0.6+
810307	413	(3.4- 1.6+)		970128	327	0.1+ 0.2+	970207	566	0.8-	1.2-
810311	413	0.8+	0.0	970128	327	0.2+ 0.4+	970207	566	1.1-	1.4-
810311	413	0.2-	0.1+	970128	327	0.1- 0.4+	970207	566	0.2+	1.1-
810315	413	1.8-	0.6+	970130	327	0.1+ 0.5+	970208	566	0.0	0.3+
810315	413	1.5+	0.5-	970130	327	0.5- 0.2-	970208	566	0.0	0.4+
810316	413	(5.0- 0.3+)		970130	327	1.0+ 0.6+	970208	566	0.1-	0.4+
970114	566	0.6+	0.4-	970206	566	0.5+ 0.6+				

1981 SG₃ = 1981 UQ₁₃ = 1997 CD₃Id. S. Nakano (d, *MPC* 10752), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26256749	ω	74.29016	+0.99345632	+0.09418167		
<i>a</i>	2.4153241	Ω	280.27252	-0.11242047	+0.90618616		
<i>e</i>	0.2319667	<i>i</i>	3.76485	+0.02015366	+0.41225775		
<i>P</i>	3.75	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

810927	095	0.3+	0.6-	970203	566	0.2+ 0.0	970203	566	0.2+	0.1+
811003	095	0.4-	0.8+	970203	566	0.1+ 0.1+	970204	566	0.5+	0.0
811023	095	0.1+	0.1-	970203	566	0.4- 0.4-	970204	566	0.6-	0.3-
970203	566	0.0	0.1+	970203	566	0.1- 0.3+	970204	566	0.0	0.1-

1982 VL = 1977 FQ₁ = 1980 BG₂ = 1996 XW₁₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28820940	ω	65.98350	-0.42159486	-0.89890296		
<i>a</i>	2.2698507	Ω	49.49650	+0.76449781	-0.42310066		
<i>e</i>	0.1054548	<i>i</i>	9.02649	+0.48764831	-0.11383889		
<i>P</i>	3.42	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

770326	095	0.0	0.1+	961211	620	0.4+	0.5-	961213	684	0.3-	0.3+
800123	095	0.5+	1.1+	961212	709	0.0	0.1-	961215	709	0.3-	0.2-
821111	046	2.0-	0.6+	961212	709	0.1-	0.1-	961215	709	0.7-	0.5-
821111	046	0.9-	1.0+	961212	709	0.0	0.0	961215	709	0.2-	0.1-
821114	046	0.5-	0.8-	961212	709	0.0	0.0	961215	709	0.4-	0.4-
821114	046	1.2+	0.1-	961212	684	0.2+	0.1+	961215	709	0.1-	0.2-
821120	046	1.8+	0.2+	961212	709	0.0	0.1-	961215	709	0.2-	0.3+
821120	046	(4.0-	1.6+)	961212	684	0.2+	0.0	961215	709	0.1+	0.1+
961211	620	0.6+	1.1-	961212	684	0.2+	0.0	961217	684	0.2+	0.4+
961211	620	0.0	0.5-	961213	684	0.2-	0.4+	961217	684	0.2+	0.4+

1983 BD = 1974 DW₁ = 1980 KE₁ = 1997 AQ₂₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21447631	ω	258.73856	+0.93864393	-0.25090164		
<i>a</i>	2.7640750	Ω	115.42791	+0.31326407	+0.90724615		
<i>e</i>	0.1551789	<i>i</i>	15.18979	-0.14426777	+0.33756894		
<i>P</i>	4.60	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

740217	095	0.2+	0.8-	830116	688	0.9+ 0.2-	970116	905	0.1+	0.1+
800517	095	0.2+	0.6+	830116	688	0.6+ 0.5-	970116	905	0.0	0.8-
830110	675	(2.4- 0.9-)		830121	688	(3.3+ 3.6-)	970209	905	0.2+	0.4-
830110	675	1.2-	0.8+	830121	688	(2.2+ 3.1-)	970209	905	0.5-	0.1-
830112	675	0.9+	0.9+	970113	905	0.7+ 0.6+				
830112	675	1.6-	0.6+	970113	905	0.3- 0.0				

1984 HJ₁ = 1997 AO₂₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28920925	ω	177.64927	-0.18524660	+0.98133428		
<i>a</i>	2.2646162	Ω	81.67200	-0.90245172	-0.14908743		
<i>e</i>	0.1428095	<i>i</i>	2.99166	-0.38892749	-0.12147413		
<i>P</i>	3.41	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

840423	809	1.3-	0.1+	840427	809	0.2+ 0.3-	970115	966	0.7-	0.2-
840423	809	0.2-	0.0	840427	809	0.3- 0.1-	970128	966	1.0-	1.1+
840424	809	0.2-	0.0	840430	809	0.3+ 0.1+	970128	966	0.4-	0.4-
840424	809	0.8-	0.4+	840430	809	1.2+ 0.0	970202	966	1.2+	1.1+
840425	809	0.1+	0.1+	970115	966	0.4- 0.1-	970202	966	1.1+	1.3-
840425	809	1.0+	0.4-	970115	966	0.3+ 0.2-				

1985 PX = 1982 VL₂

Id. T. Kobayashi (1994, 1997 observations), S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30387073	ω	143.19059	+0.36086205	+0.93136658		
<i>a</i>	2.1911737	Ω	147.88159	-0.87586211	+0.35624442		
<i>e</i>	0.1784965	<i>i</i>	5.21449	-0.32038125	+0.07514131		
<i>P</i>	3.24	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

821114	381	0.3+	0.6+	850820	688	0.1+ 2.4-	970130	411	0.5+	0.1-
821114	381	0.8-	0.9+	850914	688	0.2+ 1.3-	970130	411	0.7-	1.0-
850814	688	0.2+	2.0+	850914	688	1.3+ 0.0	970131	411	0.4-	0.2-

850814 688 0.8− 0.5+ 940216 411 0.0 0.2− 970131 411 0.1− 1.1−
 850820 688 0.7− 0.1− 940216 411 0.6+ 1.5+

1986 VQ₂

Id. E. Bowell (1991, 1993 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	359.39671	ω	75.16169	+0.99051290	+0.10178165
<i>a</i>	2.2752617	Ω	278.93275	−0.13093925	+0.90293230
<i>e</i>	0.2006146	<i>i</i>	5.36286	+0.04170270	+0.41755688
<i>P</i>	3.43	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

861003 095 2.0− 0.2− 861104 010 2.0+ 0.1+ 931209 675 0.3− 0.9+
 861007 095 0.1− 1.9+ 861104 010 0.4+ 1.1− 931209 675 0.1+ 0.2+
 861011 095 1.6+ 1.2− 910118 675 0.1+ 0.3−
 861104 010 1.6− 0.3− 910118 675 0.3− 0.2−

1987 DP₆ = 1990 UR₃Id. B. G. Marsden (*MPC* 17439)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	5.68321	ω	325.74071	−0.34490546	−0.93657106
<i>a</i>	0.19168201	Ω	144.32088	+0.88331596	−0.34629387
<i>e</i>	2.9790776	<i>i</i>	6.12673	+0.31747936	−0.05399271
<i>P</i>	0.1055164	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

870223 809 0.5− 0.0 870303 809 0.6− 0.5+ 901016 809 0.5+ 0.5−
 870223 809 0.5− 0.0 870304 809 0.6− 0.7+ 901016 809 0.6+ 0.7−
 870223 809 0.3− 0.0 870304 809 0.5− 0.7+ 901019 809 0.1+ 0.8+
 870226 809 0.0 0.2+ 870304 809 0.4− 0.7+ 901019 809 0.6− 1.4+
 870226 809 0.2+ 0.2+ 870305 809 0.1+ 0.8− 901019 809 1.2− 1.3+
 870226 809 0.3+ 0.1+ 870305 809 0.0 0.9− 901020 809 0.3+ 0.8−
 870227 809 0.8− 0.5+ 870305 809 0.1+ 1.0− 901020 809 0.4− 1.0−
 870227 809 0.7− 0.6+ 870306 809 0.2+ 0.2− 901020 809 0.8− 1.4−
 870227 809 0.6− 1.0+ 870306 809 0.4+ 0.2+ 901024 809 0.4+ 0.2+
 870301 809 0.4+ 0.1− 870306 809 0.8+ 0.1+ 901024 809 0.7− 0.1+
 870301 809 0.4+ 0.1+ 870310 809 1.3+ 2.1− 901024 809 1.3− 0.4+
 870301 809 0.5+ 0.4+ 870310 809 1.5+ 2.1− 920404 809 1.2+ 0.2+
 870302 809 0.6− 0.6+ 870310 809 1.6+ 1.8− 970131 691 0.4− 0.1+
 870302 809 0.5− 0.8+ 901016 809 (2.3+ 0.2−) 970131 691 0.1− 0.2−
 870302 809 0.4− 0.6+ 901016 809 1.4+ 0.3+ 970131 691 0.1− 0.3−
 870303 809 0.6− 0.7+ 901016 809 0.9+ 0.5+
 870303 809 0.7− 0.6+ 901016 809 0.8+ 0.3−

1987 SE₃ = 1975 TP₂ = 1991 RN₁₆ = 1997 BL₃

Id. E. Bowell, G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	36.66617	ω	341.39995	+0.26415364	−0.96106891
<i>a</i>	0.24418206	Ω	93.22093	+0.89487443	+0.21287691
<i>e</i>	2.5350910	<i>i</i>	4.65640	+0.35975353	+0.17615324
<i>P</i>	0.1199953	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

751003 095 1.3+ 0.1− 870925 071 2.4− 0.1+ 970204 691 0.6− 0.2+
 751013 095 0.4− 1.0− 870927 095 (1.3+ 4.4+) 970204 691 0.6− 0.6−
 870921 071 (1.3+ 5.8+) 910915 675 1.1+ 0.3− 970204 691 0.5− 0.2+
 870921 071 (6.2+ 1.2+) 910915 675 0.3+ 0.4+ 970210 691 0.6− 0.4−
 870922 071 (4.7− 4.8+) 910917 675 0.0 0.2− 970210 691 0.5− 0.3−
 870923 071 (5.7− 1.0+) 910917 675 0.1− 0.0 970210 691 0.6− 0.2−
 870923 071 (2.4− 3.0+) 970131 411 0.7+ 0.0 970211 411 1.0+ 0.5+
 870923 071 (3.8− 4.1+) 970131 411 0.3+ 0.7+ 970211 411 0.4− 0.5+
 870924 095 0.1+ 1.6+ 970201 411 1.0+ 0.0
 870924 071 (4.6− 1.6+) 970201 411 1.0+ 0.3−

1987 YC₁ = 1996 QK

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	344.42031	ω	243.36651	+0.99017108	−0.13970463
<i>a</i>	0.19359254	Ω	124.66356	+0.13101298	+0.90991404
<i>e</i>	2.9594452	<i>i</i>	0.46127	+0.04895744	+0.39056248
<i>P</i>	0.0528673	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

871222 033 0.7− 0.3+ 960817 566 0.5− 0.2− 960819 566 0.9+ 0.5+
 871225 033 0.0 0.3− 960817 566 0.5− 0.3− 960913 566 0.2− 0.2−
 871225 033 0.4+ 0.6− 960817 566 0.4− 0.1− 960913 566 0.1+ 0.2−
 880111 033 0.0 0.2+ 960819 566 0.1− 0.3+ 960913 566 0.1+ 0.2−
 880111 033 0.2+ 0.5+ 960819 566 0.5+ 0.4+

1988 CO₇ = 1996 XH₃₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	42.68552	ω	288.49829	+0.95507022	−0.29579944
<i>a</i>	0.31912678	Ω	88.71046	+0.27843788	+0.87406832
<i>e</i>	2.1207715	<i>i</i>	1.06233	+0.10155402	+0.38536640
<i>P</i>	0.0684119	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 7

Residuals in seconds of arc

880215 809 0.9+ 1.3− 880221 809 0.8+ 1.5+ 961204 098 0.7+ 0.2−
 880216 809 0.9+ 0.5+ 880221 809 0.4− 0.8+ 961206 098 0.1− 0.9−
 880216 809 0.9+ 0.0 880221 809 2.0− 1.3+ 961206 098 0.7− 0.1−
 880216 809 0.7− 0.4+ 880223 809 0.4+ 0.5− 961208 098 0.9− 0.1+
 880217 809 0.2+ 0.0 880223 809 0.4+ 1.0− 961208 098 2.1+ 0.2+
 880217 809 0.8− 0.0 880223 809 0.5+ 0.8−
 880217 809 1.2− 0.7− 961204 098 0.9− 1.0+

1988 RC₅ = 1996 VR₃₈

Id. K. Ichikawa

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P	Q
<i>n</i>	65.77324	ω	289.40369	+0.93054309	+0.35808514
<i>a</i>	0.26356087	Ω	49.69224	−0.28685472	+0.84282489
<i>e</i>	2.4092513	<i>i</i>	5.76352	−0.22760475	+0.40177262
<i>P</i>	0.1179824	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

880902 809 2.5− 1.2− 880910 809 1.4+ 0.1+ 961112 399 0.8+ 0.0
 880902 809 2.2− 1.0− 880911 809 0.3+ 0.4− 961115 399 1.9− 0.5−
 880902 809 1.8− 0.9− 880911 809 0.9+ 0.4− 961115 399 1.4− 0.4+

880905	809	0.5+	1.7+	880911	809	1.2+	0.7+	961217	327	1.9+	0.1-
880905	809	0.8+	1.6+	880911	675	1.0-	1.0-	961217	327	1.3+	0.1-
880905	809	1.0+	1.3+	880911	675	0.7+	0.1-	961217	327	1.5+	0.0
880907	809	1.6+	0.4-	880914	809	1.6-	0.2+	970114	327	0.9-	0.1+
880907	809	1.5+	0.5-	880914	809	1.8-	0.0	970114	327	0.4-	0.2+
880910	809	1.2+	0.5+	880914	809	1.6-	0.4-	970114	327	0.1-	0.4+
880910	809	1.2+	0.3+	961112	399	0.7-	0.0				

1988 RG₉ = 1995 WR₁₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Ichikawa			
<i>M</i>				<i>P</i>		<i>Q</i>	
133.32994				(2000.0)			
<i>n</i>	0.29732227	ω	260.42063	+0.92853146		-0.36843063	
<i>a</i>	2.2232301	Ω	121.18571	+0.35812450		+0.85643891	
<i>e</i>	0.1240033	<i>i</i>	3.06195	+0.09785787		+0.36162311	
<i>P</i>	3.31	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

880816	675	0.5+	0.3-	880907	809	0.1+	0.1+	880912	809	0.9+	2.1-
880816	675	0.2+	0.4-	880907	809	0.2+	0.3+	951117	691	0.1+	0.1+
880903	809	0.3-	1.0+	880909	809	0.2+	0.6-	951117	691	0.2+	0.1+
880903	809	0.0	1.5+	880909	809	0.4+	0.6-	951117	691	0.4+	0.0
880903	809	0.3+	1.6+	880909	809	0.5+	0.7-	951122	691	0.1-	0.1+
880906	809	2.5-	1.6+	880911	675	0.4-	0.4-	951122	691	0.2-	0.1-
880906	809	1.2-	1.1+	880911	675	0.3-	0.1+	951122	691	0.4-	0.0
880906	809	0.1-	1.0+	880912	809	0.9+	1.7-				
880907	809	0.2-	0.1+	880912	809	0.8+	1.8-				

1988 SH₂ = 1978 TJ₇

Id. B. A. Skiff (1986 observation), E. Bowell (1993 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
218.77366				(2000.0)			
<i>n</i>	0.19011091	ω	225.22964	+0.88825862		+0.42000260	
<i>a</i>	2.9954680	Ω	109.11084	-0.34587447		+0.87800817	
<i>e</i>	0.1157709	<i>i</i>	11.35249	-0.30227052		+0.22956364	
<i>P</i>	5.18	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

781002	095	2.0-	1.1+	881007	807	0.7+	0.5-	881107	807	1.3+	0.8-
781008	095	1.2-	0.2+	881008	807	0.1+	0.4-	930815	675	2.2-	0.2+
860304	675	0.3+	1.7-	881104	807	1.0+	0.4-	930815	675	1.8-	0.6+
880916	807	2.1+	0.1+	881105	807	0.4+	1.5-				
880918	807	1.6+	0.0	881106	807	0.2+	0.2+				

1989 EX

Id. T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Nakano			
<i>M</i>				<i>P</i>		<i>Q</i>	
309.86116				(2000.0)			
<i>n</i>	0.24057563	ω	60.14520	-0.94885985		+0.28156854	
<i>a</i>	2.5603635	Ω	135.77016	-0.31013052		-0.91591427	
<i>e</i>	0.1294503	<i>i</i>	11.81084	+0.05902583		-0.28604231	
<i>P</i>	4.10	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

890308	877	0.4-	0.9+	890329	877	0.7-	0.5-	970212	411	0.1+	0.1-
890308	877	2.1+	0.7+	890329	877	2.3+	0.3+	970213	411	0.1+	0.3-
890310	877	(2.8-	5.3-)	890401	877	0.9-	0.2+	970213	411	0.2+	0.0

890310	877	(1.9-	5.4-)	890401	877	0.6-	0.6+
890310	877	2.0-	2.2-	970212	411	0.3-	0.4+

1989 SC₈ = 1996 VM₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Ichikawa			
<i>M</i>				<i>P</i>		<i>Q</i>	
12.85137				(2000.0)			
<i>n</i>	0.28585286	ω	96.59894	+0.84460169		-0.53203625	
<i>a</i>	2.2823085	Ω	295.55967	+0.46124923		+0.77985443	
<i>e</i>	0.2016509	<i>i</i>	3.80574	+0.27184025		+0.32979464	
<i>P</i>	3.45	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

890927	675	0.5+	0.3+	891005	095	0.2-	0.8+	961108	400	0.6+	0.7-
890928	675	0.5-	0.2-	961106	400	1.1+	0.6+	961113	400	0.3+	0.5+
890928	675	0.4+	0.6-	961106	400	0.4+	1.2+	961113	400	0.5+	0.2+
890929	675	0.3+	0.0	961107	400	0.1+	0.1-	961116	400	0.2-	0.0
890929	675	0.1+	0.7-	961107	400	2.6-	0.2-	961116	400	0.2-	0.3+
891005	095	0.6-	0.6+	961108	400	0.0	2.1-				

1990 DU₄ = 1990 GD₁Id. S. Nakano (d. *MPC* 22572), T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Nakano			
<i>M</i>				<i>P</i>		<i>Q</i>	
11.08241				(2000.0)			
<i>n</i>	0.27568056	ω	269.94336	-0.11779775		-0.99302261	
<i>a</i>	2.3381119	Ω	186.82889	+0.92838046		-0.10817523	
<i>e</i>	0.1464996	<i>i</i>	2.63114	+0.35246760		-0.04694916	
<i>P</i>	3.58	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

900228	809	0.0	0.3+	900304	809	0.4+	0.1-	970201	411	0.2-	0.9+
900228	809	0.4+	0.2+	900304	809	0.8+	0.0	970201	411	0.8+	0.4+
900228	809	0.8+	0.1+	900304	809	0.5+	0.0	970203	411	0.2-	0.1-
900301	809	1.3-	0.7-	900404	809	0.4+	0.0	970203	411	0.3-	0.6-
900301	809	0.9-	0.9-	900404	809	0.5+	0.6+				
900301	809	0.5-	1.1-	900404	809	1.1-	1.2+				

1990 KF = 1995 WM₄₂ = 1996 CF = 1997 AT₂₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
127.77958				(2000.0)			
<i>n</i>	0.24359859	ω	207.92565	+0.98233791		+0.14589860	
<i>a</i>	2.5391374	Ω	143.09408	-0.11347144		+0.96234849	
<i>e</i>	0.2217740	<i>i</i>	11.25049	-0.14878328		+0.22934469	
<i>P</i>	4.05	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

900519	413	(6.2-	0.5-)	951129	327	0.0	0.6+	970111	327	0.5+	0.2+
900519	413	(3.0+	0.0)	951129	327	0.5-	1.0+	970111	327	1.3+	0.3+
900520	413	0.1+	1.7-	951130	327	0.7-	0.7-	970118	327	1.0+	0.3+
900520	413	(3.5+	1.0-)	951130	327	0.3-	0.8-	970118	327	1.3+	0.2-
900526	413	0.8-	0.7+	951130	327	0.0	0.2+	970118	327	1.6+	0.0
900526	413	0.8+	0.2-	960201	327	0.0	0.2-	970201	691	0.9-	0.3-
900529	413	0.3-	0.5+	960201	327	0.2+	0.6+	970201	691	0.9-	0.0
900529	413	(2.6+	0.0)	960201	327	0.0	0.5-	970201	691	0.9-	0.1-
951126	327	0.4+	0.3-	960202	327	0.2+	0.8-	970206	691	0.7-	0.1-
951126	327	0.8+	0.1-	960202	327	0.2+	0.1+	970206	691	0.5-	0.0
951126	327	0.5+	0.7-	960202	327	0.6-	0.8-	970206	691	0.8-	0.0
951129	327	0.2-	1.2+	970111	327	0.5-	0.2+				

1990 OY₃ = 1979 OS₁₅

Id. E. Bowell (1989, 1994 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	249.48335		(2000.0)	P		Q	
<i>n</i>	0.26994341	ω	6.56372	+0.87847166	+0.47403616		
<i>a</i>	2.3711238	Ω	324.93765	-0.44296582	+0.76111205		
<i>e</i>	0.1350296	<i>i</i>	5.97613	-0.17907771	+0.44271680		
<i>P</i>	3.65	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

790730 095	1.5+	3.3-	900816 511	0.7+	1.2+	900914 675	0.1-	0.7-
890309 675	0.2-	0.8+	900817 046	1.5-	2.2+	900914 675	0.4-	0.3-
890309 675	0.7+	0.4+	900817 046	1.9+	0.5+	900916 675	0.5-	0.1-
900727 675	0.6-	0.5+	900820 511	0.9+	1.7+	900916 675	0.2-	0.2-
900727 675	0.8-	0.8+	900820 511	(4.0+	0.4+)	900918 675	0.2-	2.0-
900730 675	1.0-	0.8+	900820 511	1.0+	0.5+	900918 675	0.2-	1.1-
900730 675	0.2-	0.6-	900821 511	(3.5+	2.1+)	941129 675	0.0	0.3-
900815 511	0.4+	0.6+	900822 511	1.9-	1.0-	941129 675	0.3-	1.2+
900815 511	0.2-	0.7+	900822 511	0.4+	0.0			

1990 RD₆ = 1990 QV₁₀

Id. T. Kobayashi (1997 observations), S. Nakano (d)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	183.42159		(2000.0)	P		Q	
<i>n</i>	0.22977247	ω	320.28585	+0.56077046	+0.82573854		
<i>a</i>	2.6400007	Ω	343.53239	-0.69470105	+0.42931081		
<i>e</i>	0.1685758	<i>i</i>	12.37787	-0.45047413	+0.36585256		
<i>P</i>	4.29	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

900827 675	(18.5-	1.2+)	900912 809	0.6-	0.5-	900915 809	0.2+	0.6+
900827 675	0.1+	0.6-	900912 809	0.3-	0.4-	900916 809	0.5+	0.6+
900908 809	0.7-	0.2-	900912 809	0.2+	0.3-	900916 809	0.7+	0.7+
900909 809	0.4-	0.0	900914 675	1.0-	1.8-	970130 411	0.2-	0.3-
900909 809	0.1-	0.0	900914 675	1.0-	2.1-	970130 411	0.8-	0.4+
900909 809	0.1+	1.5+	900914 809	0.5+	0.0	970131 411	0.5+	0.1+
900910 809	0.5+	1.4+	900915 809	0.4+	0.0	970131 411	0.5+	0.2-
900910 809	0.8+	1.1+	900915 809	0.2+	0.0			

1990 SF₉ = 1990 UA₇ = 1979 SJ₇ = 1979 TA₁ = 1996 TB₃₇Id. S. Nakano (d, *MPC* 20913), K. Ichikawa

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	62.93905		(2000.0)	P		Q	
<i>n</i>	0.17686704	ω	287.93865	+0.78813287	+0.61296420		
<i>a</i>	3.1431959	Ω	34.31916	-0.52054954	+0.71223071		
<i>e</i>	0.1642736	<i>i</i>	5.68706	-0.32844291	+0.34205599		
<i>P</i>	5.57	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

790923 095	0.7+	2.3-	900925 809	0.3-	1.0-	961018 691	0.1+	0.1+
791014 095	1.0+	1.0-	901022 675	1.1-	1.4+	961018 691	0.1+	0.2-
900922 809	0.6+	1.0+	901022 675	2.7-	1.8+	961021 691	0.3-	0.4+
900922 809	0.3-	0.8+	961012 691	0.5+	0.1+	961021 691	0.2-	0.1+
900922 809	0.0	0.6+	961012 691	0.3+	0.0	961021 691	1.5-	0.1-
900925 809	0.9+	0.6-	961012 691	0.7+	0.1+			
900925 809	1.1+	0.8-	961018 691	0.1+	0.0			

1990 SC₁₃ = 1985 RR₅ = 1995 SB₃ = 1996 XR₁₈Id. S. Nakano (*MPC* 25729), K. Ichikawa

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	217.44961		(2000.0)	P		Q	
<i>n</i>	0.19879774	ω	317.55385	-0.71027280	+0.70374956		
<i>a</i>	2.9075582	Ω	267.18218	-0.64152363	-0.65637391		
<i>e</i>	0.0080369	<i>i</i>	0.90543	-0.28975847	-0.27186365		
<i>P</i>	4.96	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

850915 095	0.7-	0.0	900929 809	0.2+	1.2-	961220 327	0.1+	0.1+
850920 095	0.0	1.5+	950920 399	1.7+	0.3+	961220 327	0.9+	0.0
900922 809	0.3+	0.1+	950920 399	1.7-	0.9-	961220 327	0.6-	0.2+
900922 809	0.8+	0.3+	950921 399	0.6+	1.4-	961222 046	0.2+	0.0
900922 809	1.1+	0.4+	950921 399	0.2+	0.0	961222 046	0.3+	0.1-
900923 809	0.9-	0.5+	961211 046	0.1+	0.4+	961222 046	0.5+	0.1+
900923 809	0.7-	0.3+	961211 046	0.5+	0.4+	961227 046	0.1+	0.2-
900923 809	0.3-	0.2+	961211 046	0.1-	0.3+	961227 046	0.1+	0.0
900923 809	(3.7+	0.3+)	961211 046	0.2-	0.1-	961227 046	0.2-	0.1-
900923 809	(3.7+	0.2+)	961212 046	0.2-	0.4+	961229 046	0.3-	0.3-
900923 809	(4.1+	0.1+)	961212 046	0.2-	0.5+	961229 046	0.2+	0.4-
900924 809	0.7-	0.4+	961212 046	0.4-	0.8+	970112 046	0.4+	0.6-
900924 809	0.5-	0.6+	961212 046	0.4-	0.9+	970112 046	0.1+	0.4-
900924 809	0.2+	0.8+	961216 046	0.4-	0.3-	970112 046	0.1+	0.7-
900929 809	0.3+	1.1-	961216 046	0.3-	0.4-			
900929 809	0.2+	1.0-	961216 046	0.3-	0.2-			

1990 UL₁ = 1989 KP

Id. E. Bowell (1993 observation), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	287.24140		(2000.0)	P		Q	
<i>n</i>	0.29016109	ω	285.51522	+0.84476167	-0.52980302		
<i>a</i>	2.2596609	Ω	106.53062	+0.51618332	+0.76952638		
<i>e</i>	0.1757264	<i>i</i>	4.51154	+0.14118250	+0.35656404		
<i>P</i>	3.40	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

890526 372	0.9-	1.1-	901020 402	1.6-	0.6-	901028 402	1.3-	1.7+
890526 372	0.7+	0.4+	901020 402	0.3-	0.1+	901118 809	0.2-	1.0-
901016 809	2.0+	0.2+	901021 402	1.8-	1.4-	901118 809	0.2-	0.7-
901016 809	0.9+	0.9+	901021 402	(0.5-	3.0-)	901118 809	0.6-	0.1+
901016 809	0.3+	0.6+	901024 809	0.0	0.0	901120 809	2.0+	0.7-
901020 809	1.1+	0.5-	901024 809	1.0-	0.9+	901120 809	1.1+	0.3-
901020 809	0.8+	1.0-	901024 809	1.3-	0.8+	901120 809	0.1+	0.2-
901020 809	0.8+	0.6-	901028 402	0.6-	1.0+	930725 675	0.1+	0.3-

1990 UL₂ = 1988 BG₁

Id. E. Bowell (1993 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	295.40371		(2000.0)	P		Q	
<i>n</i>	0.30059709	ω	352.27189	+0.56856834	-0.81833743		
<i>a</i>	2.2070535	Ω	63.04051	+0.75970450	+0.48316556		
<i>e</i>	0.1286851	<i>i</i>	5.40686	+0.31556160	+0.31124733		
<i>P</i>	3.28	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

880121 511	(4.6− 2.3−)	901027 372	0.2+ 2.0+	901115 095	(11.7+ 1.1−)
880121 511	0.5− 0.5+	901028 095	(1.7+ 3.3−)	901115 095	(2.8+ 2.8−)
880121 511	0.5+ 0.1−	901029 095	1.7+ 0.5−	901121 095	1.4+ 0.2−
901023 372	(1.8+ 2.9−)	901111 372	1.1− 0.1−	901121 095	0.4− 0.1−
901024 400	1.3− 0.4−	901111 372	1.3− 0.1+	901123 095	1.1− 1.1+
901024 400	(2.8+ 2.3−)	901113 372	1.8+ 0.5−	901123 095	(2.4− 2.3+)
901026 372	0.6− 1.6−	901113 372	0.2− 0.5−	930817 675	0.1− 0.5+
901026 372	0.2+ 1.6+	901114 372	0.1+ 0.8−	930817 675	0.1− 0.1−
901027 372	(3.9+ 0.5+)	901114 372	0.7+ 0.3−		

1990 VZ₆ = 1976 JB₅

Id. T. Kobayashi (1997 observations), S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Nakano			
<i>M</i>	9.70308	(2000.0)	P	Q	
<i>n</i>	0.17841615	ω 72.15427	−0.10823477	−0.99227078	
<i>a</i>	3.1249755	Ω 24.30621	+0.84712213	−0.12400943	
<i>e</i>	0.1970442	<i>i</i> 8.47960	+0.52025890	−0.00451134	
<i>P</i>	5.52	<i>H</i> 12.6	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

760503 809	0.2− 0.4−	901113 675	0.5− 0.3+	901215 399	0.3− 1.2+
901111 675	1.4+ 0.3−	901213 399	0.1+ 0.7−	901215 399	1.9− 0.0
901111 675	1.2− 0.9−	901213 399	1.6+ 0.4−	970115 411	0.1+ 0.0
901112 675	0.8− 0.2+	901213 399	1.5+ 0.2+	970115 411	0.1− 0.1+

1990 VV₁₁ = 1990 UC₁₃ = 1997 AZId. S. Nakano (d, *MPC* 20913; unpublished)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Nakano			
<i>M</i>	26.38574	(2000.0)	P	Q	
<i>n</i>	0.17935681	ω 353.91410	+0.53861397	−0.84178615	
<i>a</i>	3.1140396	Ω 63.49136	+0.77471043	+0.47802854	
<i>e</i>	0.2813392	<i>i</i> 2.30122	+0.33123821	+0.25076843	
<i>P</i>	5.50	<i>H</i> 13.3	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

901023 095	1.1− 1.6+	901114 809	1.8+ 0.9−	970109 411	0.0 0.7+
901112 809	0.7− 0.3−	970102 411	0.2− 0.4−	970109 411	0.2− 0.8+
901112 809	0.0 0.6+	970102 411	0.8+ 0.4+	970114 411	0.0 0.2+
901112 809	0.8− 0.6+	970103 411	0.4+ 0.6+	970114 411	0.5− 0.4−
901114 809	0.3+ 1.1−	970103 411	0.7− 0.3−	970126 411	0.2+ 1.0−
901114 809	0.6+ 0.6−	970103 411	0.4+ 0.2−	970126 411	0.0 0.0

1991 FQ₂ = 1993 VC₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Ichikawa			
<i>M</i>	59.48815	(2000.0)	P	Q	
<i>n</i>	0.22049674	ω 218.96944	−0.76534519	+0.64361820	
<i>a</i>	2.7135299	Ω 1.09629	−0.56864371	−0.67507087	
<i>e</i>	0.1277668	<i>i</i> 4.59751	−0.30148147	−0.36060357	
<i>P</i>	4.47	<i>H</i> 14.3	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

910309 675	0.0 0.1−	910322 809	0.0 0.0	931109 691	0.0 0.3−
910309 675	0.7− 0.4+	910322 809	0.5+ 0.0	931110 691	0.3− 0.2−
910320 809	0.2+ 0.2−	910322 809	1.0+ 0.0	931110 691	0.3− 0.1+
910320 809	0.4+ 0.1+	931109 691	0.7+ 0.2−	931110 691	0.4− 0.1−
910320 809	0.4+ 0.1−	931109 691	0.6+ 0.1+	931111 691	0.3− 0.2+

910321 809	0.8− 0.0	931109 691	0.3+ 0.1+	931111 691	0.3− 0.1+
910321 809	0.7− 0.0	931109 691	0.4+ 0.2+	931111 691	0.7− 0.0
910321 809	0.3− 0.2−	931109 691	0.1+ 0.1−		

1991 GY₂ = 1996 VJ₇

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

M	214.70570		(2000.0)	P	Q
n	0.27539946	ω	346.90180	−0.99735602	+0.06750497
a	2.3397026	Ω	197.03815	−0.05560273	−0.94728244
e	0.0943496	i	5.26913	−0.04679003	−0.31320768
P	3.58	H	15.8	G 0.15	U 5

Residuals in seconds of arc

910408 809	0.0 0.7+	910415 675	1.8+ 0.4+	961109 327	0.5− 0.4−
910408 809	0.1+ 1.0−	910419 809	(3.7+ 2.8−)	961109 327	0.3− 0.1+
910408 809	(0.3− 4.2−)	910419 809	0.9− 1.1+	961109 327	0.3+ 0.4+
910410 809	0.1− 0.8+	910419 809	0.5+ 1.7−	961116 327	0.1+ 0.3−
910410 809	0.4− 0.4+	961102 327	0.5− 0.0	961116 327	0.6+ 0.4−
910410 809	0.9− 0.6−	961102 327	0.3− 0.7+	961116 327	0.0 0.2−
910415 675	0.0 0.1−	961102 327	0.5+ 0.3+		

1991 GH₁₀ = 1995 KF₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

M	302.45565		(2000.0)	P	Q
n	0.26249954	ω	10.66294	+0.46408811	−0.88083767
a	2.4157409	Ω	51.75271	+0.80367892	+0.37431838
e	0.1014463	i	6.83957	+0.37245457	+0.28984607
P	3.75	H	14.0	G 0.15	U 6

Residuals in seconds of arc

910409 033	1.0− 0.1+	910419 675	1.0+ 0.1−	950526 691	0.5− 0.5−
910409 033	0.3− 0.3+	910419 675	0.1+ 0.3+	950526 691	0.5− 0.4−
910411 033	0.7− 0.7+	950525 691	0.0 0.2+	950531 691	0.2+ 0.5+
910411 033	0.9+ 0.1−	950525 691	0.5+ 0.0	950531 691	0.4+ 0.3+
910412 033	0.6− 0.8−	950525 691	0.5+ 0.0		
910413 033	0.6+ 0.3−	950526 691	0.7− 0.2−		

1991 LY

Id. B. A. Skiff (1986 observation), G. V. Williams (1993 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

M	65.87871		(2000.0)	P	Q
n	0.23120070	ω	182.62488	+0.50261315	+0.83039746
a	2.6291172	Ω	117.64916	−0.78814660	+0.55443180
e	0.1817612	i	15.75098	−0.35525335	−0.05518555
P	4.26	H	12.5	G 0.15	U 3

Residuals in seconds of arc

860304 675	0.1− 0.3−	910616 675	0.2− 0.0	910711 675	0.5+ 1.6+
910614 675	0.3+ 0.0	910710 675	0.6+ 0.2−	931120 691	0.2+ 0.2+
910614 675	0.1+ 0.7−	910710 675	0.2+ 0.1−	931120 691	0.3− 0.8+
910616 675	1.0− 0.4−	910711 675	0.1− 0.4+	931120 691	0.1+ 0.1+

1991 PX₁₇ = 1962 JW = 1976 GT₅

Id. T. Kobayashi (1997 observations), S. Nakano

M.P.C. 29099

1997 FEB. 22

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	218.98733		(2000.0)	P	Q
<i>n</i>	0.27793636	ω	278.14797	+0.14823427	+0.98895198
<i>a</i>	2.3254436	Ω	0.37920	-0.85552282	+0.12862394
<i>e</i>	0.1117616	<i>i</i>	6.66242	-0.49609203	+0.07368764
<i>P</i>	3.55	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

620507	839	1.2-	0.6-	910910	675	0.4+	0.1+	910916	675	0.2+	0.6+
760402	095	1.9+	0.1+	910910	675	0.4+	0.4+	970201	411	1.0-	0.5-
910807	675	0.4+	1.6-	910912	808	0.0	1.9-	970201	411	0.5-	0.5-
910807	675	0.9+	0.5-	910912	808	0.7+	1.7-	970203	411	0.7-	0.1-
910904	691	1.0-	0.8+	910914	675	0.7+	0.1+	970203	411	0.4-	1.4-
910904	691	1.2-	0.8+	910914	675	0.3+	0.0				
910904	691	1.0-	0.5+	910916	675	0.7+	0.1-				

1991 TE₁ = 1979 YN₅ = 1997 BT

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	22.43351		(2000.0)	P	Q
<i>n</i>	0.24065991	ω	22.46554	-0.36329284	-0.89642388
<i>a</i>	2.5597657	Ω	89.60889	+0.81156159	-0.43830605
<i>e</i>	0.1175538	<i>i</i>	14.70612	+0.45758725	+0.06566612
<i>P</i>	4.10	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

791218	095	0.1+	0.3-	970122	327	0.1-	0.3+	970124	327	0.8+	0.0
911012	413	0.4+	0.5+	970122	327	0.1-	0.0	970124	327	1.0+	0.0
911013	413	1.0-	0.6-	970124	327	1.2+	0.1-	970124	327	0.6-	0.1+
911015	413	0.2-	0.1+	970124	327	0.3-	0.0	970205	327	0.4-	0.1-
911018	413	0.5+	0.4+	970124	327	0.1-	0.5+	970205	327	0.5-	0.3-
970122	327	0.1-	0.1-	970124	327	0.1+	0.0	970205	327	0.6-	0.0

1991 UB₄ = 1997 AH₁₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	318.44608		(2000.0)	P	Q
<i>n</i>	0.22843157	ω	325.57976	-0.90858857	-0.41754583
<i>a</i>	2.6503220	Ω	189.75927	+0.39639687	-0.85361808
<i>e</i>	0.1277864	<i>i</i>	3.74039	+0.13166748	-0.31143483
<i>P</i>	4.31	<i>H</i>	12.7	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

911031	399	1.1+	0.6+	911105	691	0.0	0.1+	970113	400	0.1-	1.1-
911031	399	1.3+	0.2+	911105	691	0.5+	0.1+	970113	400	1.2+	0.2-
911103	691	1.0-	0.2+	911105	691	0.2+	0.0	970202	399	1.5-	0.3-
911103	691	0.3-	0.4+	911109	399	0.7-	1.2-	970202	399	2.1-	1.3+
911103	691	0.6-	0.3+	911109	399	1.3-	0.1+	970210	399	1.1+	0.6-
911104	399	0.9+	0.0	970112	400	0.3-	0.8+	970210	399	1.0+	0.2+
911104	399	0.1-	1.0-	970112	400	0.7+	0.1-				

1992 DC₃

Id. T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	86.19683		(2000.0)	P	Q
<i>n</i>	0.19267815	ω	235.17873	+0.82711139	-0.56182950
<i>a</i>	2.9688009	Ω	158.99075	+0.52859956	+0.76835887
<i>e</i>	0.0919019	<i>i</i>	2.44727	+0.19096923	+0.30654894
<i>P</i>	5.12	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 7

Residuals in seconds of arc

920225	675	0.8+	0.4+	920302	809	1.1-	0.9+	920307	809	0.7+	0.3+
920225	675	0.2-	1.4-	920304	809	0.2+	0.4+	970201	411	0.0	0.2+
920225	691	0.1+	0.3-	920305	691	2.1+	0.3-	970201	411	0.6+	0.0
920225	691	0.6-	0.1+	920305	691	0.6-	0.1-	970203	411	0.1-	0.5-
920225	691	0.3-	0.0	920305	691	1.0-	0.2-	970203	411	0.4-	0.5+

1992 DO₆ = 1995 WD₄₃ = 1997 CF₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	139.95297		(2000.0)	P	Q
<i>n</i>	0.18123244	ω	213.53139	+0.91763334	+0.39486983
<i>a</i>	3.0925170	Ω	123.14777	-0.35179812	+0.85975057
<i>e</i>	0.0729035	<i>i</i>	3.08236	-0.18489764	+0.32389316
<i>P</i>	5.44	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

920229	809	0.2-	0.3+	951127	372	1.5+	0.7+	970207	566	0.2-	0.3+
920303	809	1.0-	0.4+	951127	372	0.1-	0.6-	970207	566	0.2-	0.3-
920307	809	1.1+	0.7-	951128	372	(7.3-	11.2-)	970207	566	0.3+	0.2-
951117	327	0.5-	0.3-	970206	566	0.6-	0.3-	970208	566	0.0	0.1-
951117	327	0.6-	0.1+	970206	566	0.2+	0.1-	970208	566	0.1+	0.5+
951117	327	0.3-	0.0	970206	566	0.2+	0.1-	970208	566	0.2+	0.4+

1992 DS₆ = 1979 HJ₁

Id. E. Bowell (1993 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	269.78288		(2000.0)	P	Q
<i>n</i>	0.21799827	ω	294.33612	+0.41630604	+0.90922430
<i>a</i>	2.7342236	Ω	0.26830	-0.77298616	+0.35431867
<i>e</i>	0.2686897	<i>i</i>	8.31398	-0.47872923	+0.21856226
<i>P</i>	4.52	<i>H</i>	12.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

790426	805	0.4-	0.2-	920307	809	0.4+	0.3+	931009	675	0.3-	1.3-
790426	805	0.2+	0.1-	920406	809	1.2-	0.0	931009	675	0.7+	1.3+
920229	809	0.6+	0.1+	930813	675	0.5-	0.2+				
920303	809	0.6+	0.4+	930813	675	0.0	0.3+				

1992 ER₄

Id. T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	192.24228		(2000.0)	P	Q
<i>n</i>	0.20041115	ω	240.90029	+0.64396192	+0.76330272
<i>a</i>	2.8919324	Ω	69.28155	-0.68127732	+0.60292708
<i>e</i>	0.0462258	<i>i</i>	3.17402	-0.34810093	+0.23205150
<i>P</i>	4.92	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

920301	809	0.2+	0.2+	920404	809	0.0	0.1+	970213	411	0.4+	0.3+
920304	809	0.2-	0.0	970212	411	0.1-	0.3-	970213	411	0.8-	0.3+
920306	809	0.1-	0.2-	970212	411	0.3+	0.4-				

1992 EN₉ = 1990 WR₁₅ = 1997 AS₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	64.34687		(2000.0)	P	Q
<i>n</i>	0.18461425	ω	239.70899	+0.85401133	-0.51981952
<i>a</i>	3.0546344	Ω	151.59506	+0.49136418	+0.79247997
<i>e</i>	0.1676576	<i>i</i>	2.56245	+0.17095582	+0.31900338
<i>P</i>	5.34	<i>H</i>	11.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

901121	372	0.2+	0.0	920228	675	0.3-	0.2+	970107	411	0.4-	0.7+
901121	372	0.1-	0.6-	920302	809	2.2+	0.2-	970111	411	0.0	0.2+
920225	675	0.2+	0.2-	920304	809	0.9-	0.6+	970111	411	0.1+	0.5+
920225	675	0.6+	1.3-	920307	809	0.2-	0.4+	970116	411	0.2+	0.1-
920227	675	0.4-	1.0-	970106	411	0.3-	0.6-	970116	411	0.9+	0.4+
920227	675	1.1-	0.5+	970106	411	0.4-	0.3+	970127	411	0.6+	0.3-
920228	675	0.5-	0.3-	970107	411	0.4-	0.6+	970127	411	0.0	0.1-

1992 FZ = 1986 EP₁

Id. T. Kobayashi (1997 observations), S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	344.15562		(2000.0)	P	Q
<i>n</i>	0.17980380	ω	159.25159	-0.90012321	-0.43540643
<i>a</i>	3.1088765	Ω	354.87043	+0.37411700	-0.75599621
<i>e</i>	0.0899400	<i>i</i>	9.08847	+0.22319202	-0.48876474
<i>P</i>	5.48	<i>H</i>	11.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

860306	688	1.1-	1.6+	920328	399	1.3-	0.1+	920502	399	1.4+	0.5-
860306	688	1.8+	0.3-	920423	399	(3.2+	0.6+)	970203	411	0.2-	0.5-
920326	399	0.3+	0.7-	920427	399	1.4+	0.7+	970203	411	0.1-	0.3-
920326	399	0.7+	0.3-	920427	399	0.5-	0.6-	970204	411	0.4+	0.2-
920328	399	2.0-	0.1+	920502	399	0.0	0.8+	970204	411	0.8-	0.1+

1992 GA₄ = 1991 EB₇ = 1997 CJ₁₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	259.76605		(2000.0)	P	Q
<i>n</i>	0.17144609	ω	87.88287	-0.40741671	+0.91319552
<i>a</i>	3.2091079	Ω	158.06729	-0.84742003	-0.37425683
<i>e</i>	0.0986865	<i>i</i>	1.41908	-0.34042754	-0.16126303
<i>P</i>	5.75	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

910310	809	0.5-	0.6-	920406	809	0.2+	0.8+	970206	691	0.2+	0.1-
910310	809	0.0	0.3-	920406	809	0.3-	0.1-	970206	691	0.3+	0.2+
910310	809	0.3+	0.1+	920406	809	0.0	0.7-	970206	691	0.3+	0.3+
920404	809	0.3+	0.3+	920425	809	0.3+	0.1-	970210	691	0.1-	0.8+
920404	809	0.7-	0.8+	920425	809	0.4+	0.5-	970210	691	0.3-	0.2-
920404	809	0.3-	0.4+	920425	809	0.0	0.9-	970210	691	0.1-	0.1-

1992 KQ = 1987 HN

Id. E. Bowell (1993 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	331.49870		(2000.0)	P	Q
<i>n</i>	0.22661447	ω	201.66011	+0.56678857	+0.78517957
<i>a</i>	2.6644708	Ω	103.70706	-0.71315722	+0.61921216
<i>e</i>	0.1758675	<i>i</i>	14.88031	-0.41250150	+0.00832769
<i>P</i>	4.35	<i>H</i>	12.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

870427	675	1.2-	0.0	920602	675	0.9+	0.2+	920630	675	0.8-	0.8-
870427	675	1.1+	0.5-	920628	675	1.5-	0.8-	920630	675	1.7-	0.2-
920529	675	(4.2-	1.2-)	920628	675	0.1+	0.5+	931207	675	0.0	0.1+
920529	675	1.7+	0.4+	920629	675	0.4+	0.0	931207	675	0.0	0.3-
920602	675	0.3+	0.5+	920629	675	0.5+	0.2+				

1992 PU₃ = 1972 TY₆ = 1982 SP₉ = 1996 XF₉

Id. E. Bowell, G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	87.43680		(2000.0)	P	Q
<i>n</i>	0.29205350	ω	247.66868	+0.88821045	+0.45796170
<i>a</i>	2.2498890	Ω	85.05902	-0.40677265	+0.82109491
<i>e</i>	0.1624274	<i>i</i>	2.11607	-0.21358417	+0.34069668
<i>P</i>	3.37	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

721006	095	0.7+	1.5-	961206	046	0.5+	0.0	961216	046	0.4+	0.4-
820920	095	0.3-	0.3+	961206	046	0.6+	0.2+	961220	327	0.4+	0.2+
920802	675	0.6+	0.2-	961209	046	0.7+	1.0+	961220	327	0.0	0.0
920802	675	0.2-	0.6+	961209	046	0.7-	1.2+	961220	327	0.5+	0.2-
920805	675	0.1+	0.7-	961209	046	0.7-	0.1+	961221	046	1.0-	0.1+
920805	675	0.0	0.1+	961211	046	0.2-	0.4+	961221	046	0.5-	0.0
920806	675	0.5-	0.5-	961211	046	0.0	0.5+	961221	046	0.6-	0.6-
920806	675	0.7+	0.7+	961211	046	0.3+	0.1+	961228	046	0.1+	0.3+
920806	675	0.7-	0.2-	961211	046	0.2+	0.3+	961228	046	0.5+	0.2+
920806	675	0.1-	0.8+	961212	046	0.1-	0.4+	961228	046	0.0	0.1-
961206	046	0.3+	0.4+	961212	046	0.2-	0.3+	970112	046	0.9-	1.5-
961206	046	0.3+	0.2+	961212	046	0.1-	0.3+	970112	046	0.5-	1.3-
961206	046	0.4+	0.4+	961216	046	0.3+	0.2-	970112	046	0.2+	1.4-

1992 QS₁ = 1983 DP = 1996 XB₃₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	25.39558		(2000.0)	P	Q
<i>n</i>	0.27068392	ω	310.28802	+0.84987311	-0.50447000
<i>a</i>	2.3667974	Ω	80.51774	+0.51813660	+0.74711682
<i>e</i>	0.1226203	<i>i</i>	8.88844	+0.09617775	+0.43281229
<i>P</i>	3.64	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

830219	688	0.1+	1.8-	920827	675	0.6-	0.2-	961208	894	0.4+	0.4+
830219	688	0.1-	1.9+	961203	894	0.8+	0.0	961208	894	0.7-	1.1+
920824	675	0.9-	0.7+	961203	894	0.5-	0.1+	961211	894	0.2-	0.3-
920824	675	0.4-	0.3-	961206	894	0.0	0.6-	961211	894	0.2-	0.0
920825	675	1.4+	0.5-	961206	894	0.2-	0.1-				
920827	675	0.4+	0.3+	961207	894	0.6+	0.5-				

1992 RH₃ = 1997 BX₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	115.08634		(2000.0)	P	Q
<i>n</i>	0.31266257	ω	133.24268	+0.97752438	+0.21052766
<i>a</i>	2.1499026	Ω	214.60844	-0.19866639	+0.90218174
<i>e</i>	0.1335399	<i>i</i>	1.12431	-0.07055324	+0.37649198
<i>P</i>	3.15	<i>H</i>	16.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

920902 809	0.0	0.0	920922 809	0.2+	0.5+	970131 691	0.8-	0.1-
920902 809	0.6+	0.9+	920923 809	0.1+	0.0	970206 566	1.2+	0.0
920902 809	0.2+	0.2-	920923 809	0.5+	0.0	970206 566	0.7+	0.1-
920903 809	1.0-	0.1+	920923 809	0.0	0.6-	970206 566	0.6+	0.2-
920922 809	0.3-	0.5-	970131 691	0.6-	0.1+			
920922 809	0.3-	0.0	970131 691	1.1-	0.6+			

1992 UX

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	65.11632		(2000.0)		P	Urata		Q
<i>n</i>	0.27534073	ω	305.27704		+0.97045429			-0.20805069
<i>a</i>	2.3400353	Ω	67.00686		+0.24089707			+0.86414863
<i>e</i>	0.1265932	<i>i</i>	7.62847		-0.01367735			+0.45821617
<i>P</i>	3.58	<i>H</i>	13.5	<i>G</i>	0.15		<i>U</i>	4

Residuals in seconds of arc

921021 385	1.2+	0.1-	921031 885	2.4-	0.8-	970126 385	0.3-	0.1+
921021 385	0.5-	0.1-	921118 385	1.1-	2.2+	970126 385	0.0	0.7-
921025 385	0.8-	0.6+ Y	921118 385	1.0+	0.3+	970126 385	0.2+	0.7-
921025 385	1.5+	1.1+ Y	921123 385	0.1+	0.2+	970128 385	0.5-	0.7+
921027 385	0.0	0.6-	921123 385	1.4+	0.2-	970128 385	0.6+	0.9+
921027 385	0.4+	0.1+	921214 385	0.1-	0.8-			
921031 885	1.5-	1.2-	921214 385	1.0+	1.0-			

1992 UY

Id. T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	61.25825		(2000.0)		P	Urata		Q
<i>n</i>	0.28053058	ω	206.97089		+0.89293728			-0.45018088
<i>a</i>	2.3110850	Ω	179.78300		+0.43079721			+0.85421172
<i>e</i>	0.1814620	<i>i</i>	6.51583		+0.13067812			+0.26011441
<i>P</i>	3.51	<i>H</i>	14.0	<i>G</i>	0.15		<i>U</i>	5

Residuals in seconds of arc

921021 385	0.1+	1.9+	921030 885	0.2-	0.4-	970131 385	0.7+	0.5-
921021 385	0.7-	0.8-	921030 885	0.7+	0.4-	970131 385	0.3-	1.4+
921025 385	1.3-	0.3+ Y	921114 385	0.9-	0.5+	970203 385	0.7-	0.5-
921025 385	2.2+	1.3+ Y	921114 385	0.5+	0.9-	970203 385	0.1+	0.3-
921027 385	1.5-	0.0	921123 385	0.1+	1.0-	970203 385	0.2+	0.4+
921027 385	1.5+	0.1+	921123 385	0.4-	0.9-			

1992 UD₂

Id. T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	51.35916		(2000.0)		P	Urata		Q
<i>n</i>	0.27354711	ω	336.83442		+0.89342357			-0.31870692
<i>a</i>	2.3502531	Ω	45.89205		+0.44917907			+0.62486843
<i>e</i>	0.2592006	<i>i</i>	26.16101		+0.00569995			+0.71271688
<i>P</i>	3.60	<i>H</i>	14.0	<i>G</i>	0.15		<i>U</i>	3

Residuals in seconds of arc

921025 885	0.9-	0.3+	921027 885	0.6-	0.2+	921214 385	0.7-	0.2-
921025 885	0.3+	0.2+	921030 885	0.6-	0.3+	921214 385	0.5+	0.3+
921025 885	1.4+	0.4+	921030 885	0.6+	0.2-	970131 385	0.6-	0.1-
921026 885	0.6+	0.8-	921122 885	1.3+	0.2-	970131 385	0.5+	0.4+
921026 885	0.3-	0.3-	921122 885	0.1+	0.7-	970204 385	0.5+	0.0

921026 885	0.0	0.2-	921122 885	0.5+	0.9-	970204 385	0.4-	0.3-
921027 885	0.4-	0.3+	921124 385	1.8-	1.5+			

1992 WZ = 1985 UJ₂ = 1997 CJ₂₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

M	64.89047		(2000.0)		P		Q
n	0.28772240	ω	352.42818		+0.63009087		-0.77165357
a	2.2724113	Ω	58.47188		+0.71767626		+0.53600130
e	0.1316158	i	5.84547		+0.29652365		+0.34242280
P	3.43	H	14.0	G	0.15	U	4

Residuals in seconds of arc

851017 010(24.0–	1.3–)	921118 399	1.2–	1.3+	921125 675	1.1+	0.6–	
851018 010(24.1–	4.8–)	921118 399	0.7–	0.2+	921128 675	0.7+	0.3–	
851018 095	1.7–	0.2–	921121 399	0.1+	1.3+	921128 675	0.7+	0.6–
851112 095	1.0+	1.7+	921121 399	0.3–	1.8+	970214 411	0.3–	0.3+
921117 402	0.0	0.8–	921124 691	1.0–	0.0	970214 411	0.0	1.2+
921117 402	1.5+	1.1–	921124 691	0.7–	0.1+	970216 411	0.2+	1.1–
921118 402	0.7–	1.6–	921124 691	0.7–	0.3–	970216 411	0.5+	0.4+
921118 402	1.0+	0.4+	921125 675	0.7+	0.8–			

1992 WS₃ = 1997 CA₂₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Urata

M	6.71503		(2000.0)		P		Q
n	0.27089092	ω	144.49992		-0.20240849		-0.97895742
a	2.3655915	Ω	317.16109		+0.88944685		-0.17268615
e	0.1925701	i	2.18688		+0.40977445		-0.10872843
P	3.64	H	14.0	G	0.15	U	6

Residuals in seconds of arc

921117 403	0.5+	0.1-	921202 403	0.7-	1.4+	970213 905	0.2+	0.2-
921117 403	0.6-	0.2-	921202 403	0.7+	1.7-	970213 905	0.8-	0.6-
921121 403	0.5+	0.3+	970212 905	0.4+	0.3+			
921121 403	0.4-	0.3+	970212 905	0.2+	0.5+			

1992 YB

Id. T. Kobayashi (1997 observations), T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

M	75.18987		(2000.0)		P		Q
n	0.27531926	ω	257.79006		+0.74828513		-0.66006224
a	2.3401570	Ω	143.45497		+0.64365355		+0.69824250
e	0.1056193	i	6.38658		+0.16055988		+0.27708347
P	3.58	H	14.0	G	0.15	U	5

Residuals in seconds of arc

921216 385	0.0	0.1-	921230 385	0.8-	0.4+	970203 411	0.4-	0.3+
921216 385	0.7+	0.8-	921231 385	1.8+	0.1+	970203 411	0.0	0.0
921217 385	0.7+	0.7-	930117 385	0.3-	1.0-	970211 385	0.2-	0.0
921217 385	0.4-	0.1+	930117 385	1.2-	1.3-	970211 385	0.1+	0.0
921218 885	1.9-	0.8-	930119 385	0.2+	0.5-	970213 385	0.5+	0.2-
921225 885	1.2+	2.2+	930119 385	0.7-	1.0+	970213 385	0.0	0.3-
921225 885	0.5+	0.4+	930213 385	1.3+	0.2-			
921225 885	0.1-	0.4+	930213 385	0.9-	1.0+			

1992 YA₁ = 1997 BQ₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Nakano				
<i>M</i>	39.07229	(2000.0)			P		Q		
<i>n</i>	0.26989353	ω	245.54353		+0.53439144		-0.84522097		
<i>a</i>	2.3714159	Ω	172.14766		+0.78867907		+0.49640058		
<i>e</i>	0.1929956	<i>i</i>	2.19168		+0.30399197		+0.19795951		
<i>P</i>	3.65	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	6	
Residuals in seconds of arc									
921221 372	0.4-	0.4-	921225 372	0.8+	0.3+	970206 411	0.4+	1.0-	
921221 372	1.3+	0.9+	970130 411	0.1+	1.4+	970206 411	0.0	0.2+	
921223 372	1.6-	0.4-	970130 411	0.9+	0.5+	970211 411	0.1-	0.7-	
921223 372	1.1-	0.7-	970131 411	0.2-	0.5+	970211 411	0.2+	0.9-	
921225 372	1.1+	0.2+	970131 411	1.3-	0.1+				

1993 BR₃

Id. T. Urata (1997 observations)									
Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Urata				
<i>M</i>	326.06405	(2000.0)			P		Q		
<i>n</i>	0.23284683	ω	9.02550		-0.63527145		-0.74721895		
<i>a</i>	2.6167114	Ω	120.67627		+0.69364720		-0.66316988		
<i>e</i>	0.1018595	<i>i</i>	13.11658		+0.33953460		-0.04323842		
<i>P</i>	4.23	<i>H</i>	13.5		<i>G</i>	0.15	<i>U</i>	4	
Residuals in seconds of arc									
930121 385	1.3+	0.7+	930212 411	0.4+	0.5+	930224 385	0.0	0.4-	
930121 385	0.8-	1.5-	930212 411	0.3+	0.3-	930224 385	0.3+	0.2-	
930131 885	0.3-	0.9+	930213 411	0.1+	0.3+	930224 385	0.3-	0.1-	
930201 885	0.3-	0.8+	930213 411	0.2+	0.6+	970128 385	0.7+	0.3-	
930201 885	1.2+	0.8-	930213 411	0.1+	1.3-	970128 385	0.3-	0.3-	
930211 411	1.0-	0.4+	930224 411	0.6-	0.1-	970131 385	0.0	0.2-	
930211 411	0.2+	0.1-	930224 411	0.1+	1.4+	970131 385	0.4-	0.8+	
930211 411	0.1-	0.4-	930224 411	0.4-	0.3-				
930212 411	0.5-	0.4-	930224 385	0.2+	0.1+				

1993 BH₈ = 1997 AV₂₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Williams				
<i>M</i>	268.26290	(2000.0)			P		Q		
<i>n</i>	0.25926740	ω	107.22744		-0.66262349		+0.73897261		
<i>a</i>	2.4357766	Ω	120.63543		-0.72965787		-0.60025644		
<i>e</i>	0.1244562	<i>i</i>	8.14195		-0.16890680		-0.30596028		
<i>P</i>	3.80	<i>H</i>	13.0		<i>G</i>	0.15	<i>U</i>	5	
Residuals in seconds of arc									
930121 691	0.3+	0.1+	970112 327	0.1-	1.0-	970201 327	0.1+	0.2-	
930121 691	0.4+	0.2-	970112 327	0.0	0.1-	970202 327	0.8-	0.0	
930121 691	0.7+	0.2-	970112 327	0.1+	0.1+	970202 327	0.9-	0.1-	
930126 691	0.5-	0.6-	970118 327	0.2+	0.5+	970202 327	0.6+	0.0	
930126 691	0.3-	0.0	970118 327	0.2+	0.6+	970204 327	0.1-	0.1-	
930126 691	0.3-	0.1+	970118 327	0.3+	0.4+	970204 327	0.2+	0.2-	
930210 399	0.1-	0.8+	970201 327	0.5+	0.0	970204 327	0.3+	0.2+	
930210 399	0.3-	0.2+	970201 327	0.5-	0.1-				

1993 DD₁ = 1991 SH₅

Id. E. Bowell (1994 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Williams				
<i>M</i>	71.44068	(2000.0)			P		Q		
<i>n</i>	0.30465603	ω	129.81590		-0.84798301		-0.52938983		
<i>a</i>	2.1874067	Ω	18.26623		+0.45753024		-0.75580224		
<i>e</i>	0.0559547	<i>i</i>	4.74142		+0.26756477		-0.38536914		
<i>P</i>	3.24	<i>H</i>	14.0		<i>G</i>	0.15	<i>U</i>	4	
Residuals in seconds of arc									
910917 675	0.3-	0.1+	930301 385	(2.4+	0.4-)	930316 896	0.3+	0.4-	
910917 675	0.3+	0.1-	930301 385	1.6+	0.7+	940909 675	0.2-	0.1-	
930224 896	0.2+	1.5+	Y 930301 896	0.4+	1.1-	Y 940909 675	0.3-	0.3+	
930224 896	0.8+	1.5-	Y 930301 896	1.6-	0.8+	Y 941001 675	0.5+	0.8-	
930225 896	1.1-	0.6-	Y 930316 896	0.8-	1.3+	941001 675	0.1+	0.5+	
930225 896	0.4-	0.6+	Y 930316 896	0.6+	1.3-				

1993 DE₁ = 1996 YE

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Nakano				
<i>M</i>	265.43856	(2000.0)			P		Q		
<i>n</i>	0.22570936	ω	265.93636		-0.87603774		+0.45677595		
<i>a</i>	2.6715891	Ω	301.17860		-0.33864727		-0.81099574		
<i>e</i>	0.1420994	<i>i</i>	10.41333		-0.34333061		-0.36557030		
<i>P</i>	4.37	<i>H</i>	12.7		<i>G</i>	0.15	<i>U</i>	5	
Residuals in seconds of arc									
930225 411	0.1+	0.2+	930302 411	0.6+	0.6-	961229 411	0.9-	0.8+	
930225 411	0.5+	1.0+	930302 411	0.2-	0.7+	961229 411	0.4-	0.4+	
930228 411	1.2+	2.0-	961220 411	0.5-	1.6-	970107 411	0.4-	0.3+	
930228 411	0.0	0.4+	961220 411	1.0+	1.0-	970107 411	0.3-	0.4+	
930228 411	0.6-	0.3+	961221 411	0.6+	0.6+	970127 411	0.0	0.4-	
930302 411	1.5-	0.1-	961221 411	0.3+	0.5+	970127 411	0.6+	0.3-	

1993 EQ

Id. E. Bowell (1991, 1994 observations)									
Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Bowell				
<i>M</i>	30.65792	(2000.0)			P		Q		
<i>n</i>	0.28540490	ω	156.37800		-0.98693422		-0.15799881		
<i>a</i>	2.2846961	Ω	14.63654		+0.12058795		-0.85430077		
<i>e</i>	0.0462888	<i>i</i>	7.17914		+0.10686154		-0.49518337		
<i>P</i>	3.45	<i>H</i>	13.6		<i>G</i>	0.15	<i>U</i>	3	
Residuals in seconds of arc									
911007 675	0.6+	0.9-	930323 691	0.6-	0.5-	930410 400	1.0+	1.0+	
911007 675	0.5-	0.6+	930323 691	0.6-	0.5-	930415 399	0.1-	0.5-	
930315 400	0.3-	1.2+	930323 691	0.6-	0.5-	930415 399	(2.8+	2.0-)	
930315 400	0.6+	0.8-	930325 400	(3.2+	1.1-)	930416 413	(2.7+	2.2+)	
930317 809	1.1+	0.6+	930325 400	(2.8+	3.7-)	940909 675	0.0	0.2+	
930318 809	0.6+	0.6+	930329 400	1.5-	0.2-	940909 675	0.1+	0.0	
930320 400	(1.5-	3.3-)	930329 400	0.8+	1.0-	941001 675	0.5+	0.0	
930320 400	(2.1-	2.9-)	930410 400	0.7-	0.3+	941001 675	0.6-	0.3-	

1993 FO = 1997 BX₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Williams				
<i>M</i>	127.85526	(2000.0)			P		Q		
<i>n</i>	0.18575096	ω	128.89055		+0.78596701		+0.61825150		
<i>a</i>	3.0421597	Ω	192.92303		-0.57339855		+0.72613780		
<i>e</i>	0.1694755	<i>i</i>	1.17274		-0.23123574		+0.30081386		
<i>P</i>	5.31	<i>H</i>	12.5		<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

930319	809	1.5+	1.2+	930325	474	0.3-	0.6-	970201	557	0.1-	0.1-
930320	809	(4.0+	1.2+)	970131	557	0.2-	0.4+	970207	557	0.1-	0.5-
930323	474	1.6-	0.3-	970131	557	0.1+	0.5+	970207	557	0.2-	0.2-
930323	474	1.7-	0.4-	970131	557	0.1+	0.4+	970207	557	0.0	0.3-
930324	809	0.8+	1.2+	970201	557	0.4+	0.2-				
930325	474	1.3+	1.1-	970201	557	0.0	0.1-				

1993 FV₁₁ = 1958 XJ = 1997 CU₂₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Urata

<i>M</i>	47.51873		(2000.0)	P	Q
<i>n</i>	0.23751654	ω	335.05778	+0.24317342	-0.96795493
<i>a</i>	2.5823007	Ω	100.81842	+0.90030523	+0.20118065
<i>e</i>	0.1703944	<i>i</i>	3.65931	+0.36099471	+0.15029839
<i>P</i>	4.15	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

581203	330	0.0	0.1+	930416	413	0.0	0.1+	970213	369	0.5-	0.5+
930317	809	0.3-	0.3-	970209	369	0.1+	0.4+	970213	369	0.3-	0.7+
930318	809	0.2+	0.2-	970209	369	0.2+	1.1-				
930323	809	0.2+	0.7+	970209	369	0.4+	0.8-				

1993 FN₁₆ = 1997 CM₅

Id. T. Urata

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	186.45724		(2000.0)	P	Q
<i>n</i>	0.21381754	ω	166.10663	+0.45292525	+0.88902705
<i>a</i>	2.7697495	Ω	130.77907	-0.82619896	+0.44678257
<i>e</i>	0.0701078	<i>i</i>	5.07651	-0.33504327	+0.10008111
<i>P</i>	4.61	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

930317	809	0.3-	0.1+	970201	369	0.0	0.2-	970206	369	0.5+	0.5-
930318	809	0.8-	1.2+	970201	369	0.5+	0.0	970208	566	0.7-	0.2-
930323	809	1.6+	1.0-	970206	369	0.5+	0.7+	970208	566	0.5-	0.2-
930416	413	0.5-	0.2-	970206	369	0.4+	0.4+	970208	566	0.6-	0.2-

1993 FF₂₀

Id. T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	342.85201		(2000.0)	P	Q
<i>n</i>	0.22184498	ω	28.37937	-0.65527229	-0.74946436
<i>a</i>	2.7025245	Ω	102.72639	+0.67346400	-0.63625239
<i>e</i>	0.1245649	<i>i</i>	5.55678	+0.34214685	-0.18299201
<i>P</i>	4.44	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

930317	809	0.3-	0.4-	930416	413	0.0	0.0	970130	411	0.4-	0.9-
930318	809	0.3+	0.3-	970129	411	0.9+	0.5+	970130	411	0.2+	0.2-
930323	809	0.0	0.7+	970129	411	0.7-	0.5+				

1993 FT₃₂ = 1975 VL₁₀ = 1982 BX₁₀ = 1997 BZ₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Urata

<i>M</i>	65.90677		(2000.0)	P	Q
<i>n</i>	0.19549484	ω	292.48588	+0.92423132	-0.37787516
<i>a</i>	2.9402156	Ω	89.75186	+0.36738099	+0.84089666
<i>e</i>	0.0864398	<i>i</i>	3.14339	+0.10405612	+0.38743151
<i>P</i>	5.04	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

751106	095	0.4-	0.8+	930420	691	0.4-	0.0	970130	369	1.1+	0.0
820119	095	0.2+	1.0+	930420	691	0.6-	0.5-	970201	369	0.7+	0.2-
930319	809	0.2-	0.2+	930420	691	0.9-	0.0	970201	369	0.4+	1.0-
930320	809	0.5+	0.4+	930421	413	2.2+	0.0				
930324	809	0.3-	0.8+	970130	369	2.3-	0.1-				

1993 GL = 1985 SV₄ = 1997 AA₁₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	221.39205		(2000.0)	P	Q
<i>n</i>	0.20297111	ω	205.64347	-0.26700711	+0.96301647
<i>a</i>	2.8675647	Ω	48.89259	-0.87570922	-0.22680133
<i>e</i>	0.0286940	<i>i</i>	2.74961	-0.40229413	-0.14546628
<i>P</i>	4.86	<i>H</i>	12.2	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

850920	095	0.2+	0.5-	930417	894	0.3+	0.6-	970111	411	0.2+	0.0
930414	894	1.2+	0.9-	930417	894	0.4-	1.8-	970111	411	0.2+	0.3+
930414	894	(2.4+	0.6-)	930425	361	1.2-	1.7+	970114	411	0.2-	1.0-
930415	399	0.9+	0.1+	930425	361	0.9-	1.2+	970114	411	0.1+	0.3-
930415	399	0.4+	0.5+	930425	361	(0.9-	2.8+)	970127	411	0.1+	0.3-
930416	399	0.4-	0.6-	970110	411	0.2-	1.6+	970127	411	0.1-	0.4-
930416	399	(2.5-	0.3+)	970110	411	0.1-	0.1+				

1993 LE = 1997 CD₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	228.88394		(2000.0)	P	Q
<i>n</i>	0.18749711	ω	143.84951	+0.11366706	+0.98164281
<i>a</i>	3.0232426	Ω	132.13362	-0.95311839	+0.15125469
<i>e</i>	0.0818136	<i>i</i>	11.91895	-0.28043740	-0.11618696
<i>P</i>	5.26	<i>H</i>	11.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

930614	675	1.5+	1.1-	970201	411	0.2+	0.2+	970203	411	0.2+	0.3+
930617	675	0.0	1.0+	970201	411	0.0	0.1-	970211	411	0.0	0.1-
930620	675	1.5-	0.1+	970203	411	0.0	0.2-	970211	411	0.5-	0.2-

1993 PU₇ = 1926 PH = 1980 TD₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	177.87958		(2000.0)	P	Q
<i>n</i>	0.22141135	ω	97.04801	+0.37935091	-0.92512289
<i>a</i>	2.7060519	Ω	330.64343	+0.83592547	+0.34986422
<i>e</i>	0.0548965	<i>i</i>	1.81285	+0.39663774	+0.14745394
<i>P</i>	4.45	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

260810	672	0.7-	0.9-	930815	010	0.0	0.4+	930918	010	0.4+	0.5-
260811	672	0.5+	1.4+	930815	010	0.1-	0.0	930918	010	0.2+	0.3-
801013	095	0.1-	0.3+	930815	010	1.1-	0.8-	930918	010	0.3-	0.7+
930813	675	0.9+	1.0+	930817	010	0.4+	1.0-				

1993 XF₁ = 1996 RR

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	345.27372		(2000.0)	P	Q
<i>n</i>	0.28586222	ω	301.99067	+0.90063295	-0.42456512
<i>a</i>	2.2822587	Ω	83.27811	+0.42355088	+0.80976086
<i>e</i>	0.1829040	<i>i</i>	5.35945	+0.09728790	+0.40500840
<i>P</i>	3.45	<i>H</i>	16.1	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

931214	411	0.1-	0.2+	931218	411	0.4-	0.8-	960908	566	0.4+	1.1-
931214	411	0.4+	0.1-	931218	411	0.3-	0.5-	960910	566	0.4+	0.2-
931214	411	0.4+	0.1-	931221	411	0.8-	2.1+	960910	566	0.3-	0.1+
931215	411	0.0	0.6+	931221	411	1.3+	1.0-	960910	566	0.6+	0.1+
931215	411	0.7-	0.1+	931221	411	0.1+	0.3+	960912	566	0.2-	0.5+
931215	411	0.3-	0.4-	960908	566	0.1-	1.0-	960912	566	0.1-	1.0+
931218	411	0.3+	0.5-	960908	566	0.2-	0.3-	960912	566	0.4-	0.8+

1994 BC = 1969 TK₅ = 1988 PP₃ = 1997 CE₇

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	41.59868		(2000.0)	P	Q
<i>n</i>	0.25580063	ω	138.81107	+0.94066039	+0.33849804
<i>a</i>	2.4577346	Ω	201.43975	-0.32602049	+0.88180060
<i>e</i>	0.1152207	<i>i</i>	3.76832	-0.09417356	+0.32840034
<i>P</i>	3.85	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

691015	095	0.2+	0.5-	940129	596	(3.5-	0.4+)	970201	691	0.3-	0.0
691017	095	(5.7+	2.4-)	940129	596	(6.2-	1.6+)	970201	691	0.2-	0.3+
880811	413	0.7-	0.3-	940130	596	0.6-	1.5-	970201	691	0.5-	0.1+
880811	413	0.6+	0.6+	940130	596	0.0	0.7+	970206	683	0.6+	0.1+
940106	675	(0.7-	2.2-)	940130	596	1.0-	1.5+	970206	683	0.2+	0.2+
940106	675	0.7+	0.6-	940131	596	0.7-	0.9+	970206	683	0.2+	0.1+
940108	675	(1.0-	2.1-)	940131	596	(1.5+	2.2+)	970206	683	0.1+	0.7+
940116	596	(2.2-	0.3+)	940131	596	(3.8+	3.6+)	970207	683	0.4+	0.1-
940116	596	(0.3-	2.2+)	940207	596	(1.2+	3.4-)	970207	683	0.8+	0.2+
940116	596	(6.7-	5.8+)	940207	596	0.7+	1.3-	970207	683	0.8+	0.1-
940118	596	0.4+	0.5-	940207	596	0.3-	1.3-	970207	683	0.5+	1.0+
940118	596	1.6+	1.0+	940211	596	(3.0+	2.8-)	970207	691	1.0-	0.8-
940118	596	0.5-	1.3+	940211	596	0.6+	0.2-	970207	691	0.7-	0.4-
940129	596	(0.9-	3.7-)	940211	596	0.7-	0.1-	970207	691	1.0-	0.7-

1994 CJ₁₇ = 1996 VO₁₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	12.80646		(2000.0)	P	Q
<i>n</i>	0.26587927	ω	280.11647	+0.77881348	-0.61698723
<i>a</i>	2.3952254	Ω	118.07301	+0.61390881	+0.71278800
<i>e</i>	0.1253216	<i>i</i>	7.36004	+0.12870720	+0.33355663
<i>P</i>	3.71	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

940208	809	0.2+	0.5+	940213	809	0.9-	1.1-	961108	691	0.0	0.3+
940208	809	0.4+	0.2-	940213	809	1.9-	0.2-	961109	691	1.5+	0.1+
940208	809	0.8-	0.0	961106	691	1.0-	0.4+	961109	691	1.1+	0.1+
940210	809	1.4+	0.2+	961106	691	0.8-	0.4+	961109	691	1.0+	0.2+
940210	809	0.8+	0.8+	961106	691	0.7-	0.3+	961113	691	0.4-	0.7-

940210	809	1.4+	0.4+	961108	691	0.0	0.4+	961113	691	0.5-	0.8-
940213	809	0.5-	0.3-	961108	691	0.1-	0.2+	961113	691	0.3-	0.7-

1994 EL₁

Id. T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	34.14501		(2000.0)	P	Q
<i>n</i>	0.30438467	ω	317.67625	+0.33160559	-0.94008664
<i>a</i>	2.1887065	Ω	112.81798	+0.88695676	+0.28204749
<i>e</i>	0.1383691	<i>i</i>	4.93005	+0.32147387	+0.19153674
<i>P</i>	3.24	<i>H</i>	13.2	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

940306	411	1.2+	0.1+	940315	411	1.0-	0.0	940402	411	1.3-	0.3+
940306	411	0.2-	1.7-	940315	411	0.1-	1.9+	940403	411	0.1+	0.0
940310	411	0.2-	0.4+	940319	108	1.2+	1.4-	940403	411	0.7+	0.8-
940310	411	0.4-	0.2+	940319	108	1.2+	1.3+	940403	411	0.1+	0.4+
940310	411	0.1-	0.0	940319	108	0.5-	0.6-	970131	411	0.4+	1.2+
940313	098	0.9-	0.9+	940320	411	0.3-	1.3-	970131	411	1.0-	0.9-
940313	098	0.7+	1.8-	940320	411	0.0	0.4-	970201	411	0.3+	0.2-
940314	098	0.4-	0.3+	940320	411	0.1-	0.6-	970201	411	0.3+	0.0
940314	098	1.6+	0.2+	940402	411	1.1+	0.2+				
940315	411	1.9-	1.7+	940402	411	0.3-	0.8+				

1994 ER₃ = 1952 BJ₁

Id. B. A. Skiff, G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	261.89716		(2000.0)	P	Q
<i>n</i>	0.23620488	ω	351.81931	-0.68893942	-0.72015643
<i>a</i>	2.5918517	Ω	141.66558	+0.67227428	-0.67721626
<i>e</i>	0.2542874	<i>i</i>	7.60451	+0.27094239	-0.15084047
<i>P</i>	4.17	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

511227	675	0.6+	1.0+	940314	675	0.2-	0.5-	940331	400	0.8+	1.1-
511227	675	0.2-	1.2+	940314	400	1.1-	1.2+	940331	896	0.4+	0.5+
520128	711	0.3-	1.9-	Y 940314	400	0.8+	0.7-	940331	896	1.5-	1.5+
881007	675	0.2-	0.7+	940318	400	1.2+	0.5-	940403	896	0.1+	0.2-
881007	675	0.2+	1.0-	940318	400	0.4-	1.2-	940403	896	0.2+	0.5+
940314	675	0.4+	0.4-	940331	400	0.4-	1.1+				

1994 GA₁ = 1974 HD₃ = 1995 WH₆Id. S. Nakano (*MPC* 26174; unpublished)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	205.25271		(2000.0)	P	Q
<i>n</i>	0.29367772	ω	206.91797	+0.38508545	+0.91906874
<i>a</i>	2.2415859	Ω	85.83023	-0.83087715	+0.38478391
<i>e</i>	0.1631790	<i>i</i>	4.81961	-0.40168688	+0.08517042
<i>P</i>	3.36	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

740425	805	0.5+	1.3+	940415	400	0.5+	1.8-	951116	399	1.2-	0.5+
940405	400	1.4-	1.7+	940415	400	1.1+	0.4+	951117	399	0.5-	1.4+
940405	400	0.5+	1.3+	940505	400	(3.9+	0.1+)	951117	399	0.5+	1.1+
940408	400	1.3-	0.9-	940505	400	(5.6+	7.9-)	970201	411	0.5-	1.0-
940408	400	1.3+	1.4+	951116	399	(3.9-	1.1+)	970201	411	0.3+	0.5-

1994 NF₁

Id. M. Tichý (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29852034	ω	199.24419	+0.47405214	+0.86917582		
<i>a</i>	2.2172778	Ω	99.27001	-0.78799219	+0.49011308		
<i>e</i>	0.1395235	<i>i</i>	8.19851	-0.39286496	+0.06574621		
<i>P</i>	3.30	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

940704 675	0.9-	0.3-	940811 675	0.7+	1.9+	970216 709	0.2+	0.3+
940704 675	0.7-	0.3+	951223 566	0.1-	1.3+	970216 709	0.4+	0.3+
940707 675	1.1+	0.4-	951223 566	0.0	1.3+	970216 709	0.2+	0.2+
940707 675	1.6-	0.1+	951223 566	0.0	1.0+	970216 709	0.0	0.3+
940809 675	(0.2+	4.8+)	970210 046	0.2-	0.2-	970216 709	0.0	0.3+
940809 675	1.0+	0.3+	970210 046	0.4+	0.2+	970216 709	0.1+	0.3+
940811 675	1.0+	1.1+	970210 046	0.5-	0.0	970216 709	0.2+	0.2+

1994 NR₁ = 1997 BQ₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19010504	ω	302.83818	+0.23163324	-0.96191924		
<i>a</i>	2.9955297	Ω	133.04734	+0.94566989	+0.18766830		
<i>e</i>	0.1902844	<i>i</i>	11.45325	+0.22815455	+0.19872589		
<i>P</i>	5.18	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

940704 010	0.1-	1.0-	940714 010	(2.3-	1.4+)	970210 124	0.6-	0.4+
940704 010	0.5-	1.7-	940714 010	1.9-	0.5+	970210 124	0.3+	0.3+
940704 010	(1.1+	2.4-)	940714 010	1.9-	0.4+	970216 124	0.8+	0.5-
940705 010	(2.2+	0.3+)	970131 411	0.7-	0.1-	970216 124	0.6-	0.4-
940705 010	1.5+	1.4-	970131 411	0.2+	0.1+	970216 124	0.0	0.2-
940705 010	(3.4+	0.1+)	970201 411	0.6+	0.2+	970216 124	1.1-	0.2-
940708 010	1.3+	1.5+	970201 411	0.1+	0.0	970216 124	0.9+	0.0
940708 010	1.1+	0.7+	970210 124	0.8+	0.4+	970216 124	0.1-	0.0
940708 010	0.8+	1.2+	970210 124	0.7-	0.2+	970216 124	0.3+	0.0

1994 PO = 1986 SF₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23892190	ω	240.36618	-0.93711135	+0.31786667		
<i>a</i>	2.5721645	Ω	317.70162	-0.19679373	-0.82232018		
<i>e</i>	0.1049163	<i>i</i>	12.36935	-0.28826123	-0.47196429		
<i>P</i>	4.13	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

860929 010	0.9-	1.3+	940809 905	1.0+	0.6+	970212 905	0.2+	0.3+
860929 010	(6.8+	2.2+)	940829 905	1.7-	0.1-	970212 905	0.0	0.2-
940803 905	0.4-	1.3+	940829 905	0.8+	0.7-	970214 385	0.3+	0.3+
940803 905	0.4-	0.6+	940910 905	0.1+	1.4-	970214 385	0.1+	0.3+
940809 905	0.1-	0.5-	940910 905	0.7+	0.0	970214 385	0.0	0.4+

1994 PC₇ = 1997 CW₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21228654	ω	43.38119	-0.97845513	+0.18443473		
<i>a</i>	2.7830504	Ω	146.91065	-0.20267226	-0.94372739		
<i>e</i>	0.0877339	<i>i</i>	9.78526	+0.03936387	-0.27452220		
<i>P</i>	4.64	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

940810 809	0.1+	2.0-	940813 809	0.4-	1.1+	940906 809	0.1-	0.3-
940810 809	0.0	1.7-	940813 809	0.0	1.3+	970203 411	0.2+	0.0
940810 809	0.1-	1.3-	940905 809	0.3+	0.5-	970203 411	0.8-	0.4+
940811 809	0.4-	0.3+	940905 809	0.0	0.3+	970204 411	0.3-	0.2-
940811 809	0.3+	0.2-	940905 809	0.4+	0.4+	970204 411	0.8+	0.2-
940811 809	0.4-	1.3+	940906 809	0.2-	0.1-			
940813 809	0.9+	1.6+	940906 809	0.5-	0.3-			

1994 PR₂₇ = 1981 UJ₂₉ = 1990 TR₈ = 1990 TE₁₆

Id. G. V. Williams, S. Nakano (d)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21741968	ω	129.94415	-0.76953645	-0.63843128		
<i>a</i>	2.7390722	Ω	10.40994	+0.55808031	-0.68359175		
<i>e</i>	0.0559664	<i>i</i>	4.69944	+0.31041912	-0.35370584		
<i>P</i>	4.53	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

811024 675	0.5+	1.2+	940812 809	0.2+	0.0	940906 809	0.7+	0.7-
811025 675	0.7-	0.5+	940812 809	0.2-	0.0	940906 809	0.4+	0.6-
811026 675	0.8-	0.3+	940812 809	0.9-	0.5-	940906 809	0.9-	1.2-
901014 046	(7.1+	1.5-)	940813 809	1.1+	0.2+	940909 675	0.4-	0.2+
901014 046	(10.1+	0.5-)	940813 809	0.2-	0.1-	940909 675	1.3-	1.6+
901015 046	(11.8+	0.4-)	940813 809	0.8+	0.5-	941001 675	1.7+	0.1-
901015 046	(10.1+	0.7-)	940905 809	0.5+	0.7+	941001 675	1.8-	0.6+
901015 095	0.9+	0.1+	940905 809	0.1+	0.7+			
901015 095	0.3+	2.5-	940905 809	0.0	0.3+			

1994 QQ = 1997 BT₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20210449	ω	265.44636	-0.37676322	+0.92479268		
<i>a</i>	2.8757563	Ω	342.13568	-0.76656409	-0.34339366		
<i>e</i>	0.0961818	<i>i</i>	9.94716	-0.52002786	-0.16382703		
<i>P</i>	4.88	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

940812 809	1.8+	0.4+	940817 411	1.0-	0.6+	940906 809	0.7-	1.5+
940812 809	0.7+	0.6+	940827 411	0.4+	0.4-	940906 809	0.2+	1.4+
940812 809	0.7+	0.3+	940827 411	0.3-	0.4+	940906 809	0.8+	2.0+
940813 809	0.7+	1.4-	940901 411	0.1+	1.0-	970129 411	0.2+	0.4-
940813 809	0.1-	0.9-	940901 411	0.8+	1.1-	970129 411	0.1+	0.4+
940813 809	0.0	0.0	940901 411	0.6-	0.1-	970130 411	0.0	0.9-
940816 411	1.7-	0.3+	940905 809	0.0	1.3-	970130 411	0.1-	0.1+
940816 411	1.2-	0.9+	940905 809	0.6+	0.9-	970206 411	0.1-	0.4-
940817 411	1.0-	0.1-	940905 809	0.2-	0.9-	970206 411	0.0	1.1+

1994 XJ = 1988 AA₄

Id. E. Bowell (1993 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27684994	ω	100.95192	−0.96328312	−0.24491099		
<i>a</i>	2.3315233	Ω	64.94678	+0.17328083	−0.88011089		
<i>e</i>	0.0579438	<i>i</i>	6.97553	+0.20508387	−0.40672279		
<i>P</i>	3.56	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

880112	033	0.6+	0.2−	941203	411	0.5−	0.6−	941224	411	0.3−	1.0+
880112	033	0.6−	0.3−	941204	411	0.2+	0.3+	941224	411	0.0	0.9+
930815	675	0.4−	0.4−	941204	411	0.1+	0.0	950106	411	0.4+	0.7−
930815	675	0.5+	0.3+	941209	411	0.2+	0.2+	950106	411	0.4+	0.2+
941203	411	0.1+	0.7−	941209	411	0.7−	0.1−				

1995 BS₁ = 1989 RQ₅ = 1989 SR₁₄

Id. E. Bowell (1991, 1993 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23477986	ω	266.06574	+0.73041613	−0.65951742		
<i>a</i>	2.6023287	Ω	135.07879	+0.68263081	+0.69634264		
<i>e</i>	0.1615363	<i>i</i>	14.56391	+0.02252666	+0.28309662		
<i>P</i>	4.20	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

890904	413	0.2−	0.7−	950127	411	0.2−	0.2+	950130	400	2.5+	2.4−
890904	413	0.2+	0.2+	950128	691	1.5−	0.3+	950206	411	0.1+	0.1−
890921	413	0.4+	0.6−	950128	691	0.7−	0.3+	950206	411	0.1+	0.2+
890921	413	0.3−	0.7+	950128	691	1.1−	0.3+	950210	411	0.6+	0.3+
910210	675	0.0	0.4−	950128	400	(2.7+	0.0)	950210	411	0.5+	0.1+
910210	675	0.2−	0.8−	950128	400	1.6+	0.3−	950219	411	0.3−	0.5+
930817	675	0.1−	0.0	950129	411	0.7−	0.3+	950219	411	0.7−	0.0
930817	675	0.1+	0.1−	950129	411	0.1+	0.2+	950227	411	0.3−	0.2−
950127	411	0.5−	0.8+	950130	400	(0.5+	3.0−)	950227	411	0.6+	0.2+

1995 CX = 1975 XE₅

Id. E. Bowell (1991, 1993 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26950935	ω	208.49093	+0.88381129	+0.42980350		
<i>a</i>	2.3736690	Ω	124.87239	−0.37502831	+0.88700317		
<i>e</i>	0.2169756	<i>i</i>	13.01662	−0.27969871	+0.16880265		
<i>P</i>	3.66	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

751203	095	0.1+	0.5−	950203	411	1.7+	0.9−	950210	411	1.2+	0.8−
910122	675	0.5+	0.2+	950203	411	0.1−	0.2−	950219	411	1.3−	0.7+
910122	675	0.5−	0.8+	950207	411	0.2+	0.0	950219	411	0.1+	1.5+
931207	675	0.1−	0.1+	950207	411	1.0+	0.9−	950301	411	1.2−	0.1+
931207	675	0.1+	0.1−	950210	411	0.2+	1.2−	950301	411	2.1−	0.9+

1995 DK = 1990 DL₂

Id. S. Nakano, T. Kobayashi, E. Bowell (1993 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20163028	ω	357.80429	−0.93540169	−0.34928156		
<i>a</i>	2.8802635	Ω	161.45911	+0.32698908	−0.91370347		
<i>e</i>	0.1098579	<i>i</i>	9.96208	+0.13454298	−0.20772181		
<i>P</i>	4.89	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

900224	809	0.1−	1.5−	931207	675	0.3+	0.5−	950306	411	0.5+	0.4−
900224	809	0.4+	1.4−	950221	411	0.5−	0.2+	950306	411	0.0	0.1−
900224	809	0.8+	1.4−	950221	411	0.3−	0.0	950311	411	0.2+	0.4−
900225	809	0.6−	1.7+	950222	411	0.4+	0.7+	950311	411	0.1+	0.1−
900225	809	0.2−	1.8+	950222	411	0.0	0.2−	950320	411	0.3−	0.7+
900225	809	0.2−	1.9+	950226	411	0.3+	1.3−	950320	411	0.7−	0.4+
931207	675	0.2−	0.3+	950226	411	0.1−	0.7−				

1995 OB₁

Id. A. Vagnozzi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22813083	ω	30.89994	+0.71815917	+0.68761039		
<i>a</i>	2.6526507	Ω	285.25479	−0.65896221	+0.62258434		
<i>e</i>	0.1972820	<i>i</i>	6.36496	−0.22364304	+0.37360500		
<i>P</i>	4.32	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

950729	589	0.7−	0.5−	950825	596	0.9−	0.5+	970107	589	0.4+	1.2+
950729	589	0.1+	0.1+	950825	596	0.9−	0.2−	970108	589	0.1−	0.4−
950729	589	0.2−	0.2−	950825	596	0.0	0.5−	970114	599	0.0	0.9+
950731	589	0.0	0.7−	950911	589	0.6+	0.3−	970114	589	0.1+	0.1−
950731	589	0.4+	0.1+	950911	589	1.0+	0.3+	970114	589	0.3−	0.7+
950731	589	0.6+	1.4+	950926	589	1.2−	0.9+	970114	589	1.3−	0.3+
950802	589	0.1−	0.4−	950926	589	0.7+	0.4−	970130	589	0.3+	1.2−
950802	589	0.3−	0.4−	951014	589	0.2−	0.6+	970130	589	(0.1−	2.2−)
950802	589	0.2+	0.0	951014	589	0.1+	0.4−	970130	589	0.2−	0.5−
950805	609	0.5+	0.3−	951014	589	0.2−	0.2+	970130	589	0.4+	0.5+
950805	609	0.5+	0.2+	970107	589	0.7+	1.8−				

1995 PB = 1988 HT

Id. B. G. Marsden

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21312327	ω	271.93540	−0.17766154	−0.98386348		
<i>a</i>	2.7757614	Ω	188.38823	+0.95075576	−0.16604636		
<i>e</i>	0.1467448	<i>i</i>	8.35236	+0.25396823	−0.06664285		
<i>P</i>	4.62	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

880420	413	1.6−	2.5+	950905	046	0.3−	0.4−	951012	046	0.5−	0.2−
880420	413	2.2+	0.3−	950905	046	0.7−	0.5−	951111	046	0.1−	0.5−
950804	046	0.2+	0.1−	950905	046	0.0	0.3−	951111	046	0.3−	0.9−
950804	046	0.3+	0.4+	950906	046	0.2−	0.7−	951111	046	0.2−	0.7−
950804	046	0.2+	0.2+	950906	046	0.3−	0.7−	951217	046	0.1+	0.8+
950804	046	0.1+	0.2−	950906	046	0.3−	0.3−	951217	046	0.0	1.4+
950804	046	0.7−	0.6+	950918	046	0.2+	0.2−	951217	046	0.5−	1.1+
950804	046	0.7−	1.0+	950918	046	0.1+	0.5−	960131	327	0.4+	0.3−

950804 046	0.2+	0.1+	950918 046	0.4+	0.5-	960131 327	0.5+	0.7+
950804 046	0.5-	0.1-	950919 046	0.6-	0.6+	960131 327	0.3+	0.2+
950804 046	0.4-	0.2+	950919 046	0.1+	0.4+	960201 327	0.2-	0.1-
950804 046	0.3-	0.1+	950919 046	0.0	0.1+	960201 327	0.1-	0.3-
950804 046	1.0-	0.1-	950928 046	0.6+	0.6+	960201 327	0.7-	0.1+
950804 046	0.0	0.2+	950928 046	0.4+	0.4+	970207 046	0.0	0.2-
950811 046	0.4+	0.2+	950929 046	0.4+	0.3+	970207 046	0.0	0.3-
950811 046	0.9+	0.2+	951005 046	0.3+	0.2-	970207 046	0.1-	0.0
950811 046	0.5+	0.9+	951005 046	0.5+	0.1-	970210 046	0.0	0.2+
950813 046	0.8+	0.8+	951005 046	0.3+	0.2-	970210 046	0.1+	0.1+
950813 046	0.2+	0.2+	951012 046	0.7-	0.4-	970210 046	0.1-	0.0
950813 046	0.4+	0.5+	951012 046	0.1+	0.2-			

1995 PQ

Id. T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Urata		
			P	Q	
<i>M</i>			(2000.0)		
<i>n</i>	0.21639031	ω	255.86774	+0.92188651	-0.32069512
<i>a</i>	2.7477519	Ω	122.41705	+0.37111520	+0.89212165
<i>e</i>	0.3715476	<i>i</i>	14.92641	-0.11134976	+0.31823513
<i>P</i>	4.55	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

950802 905	0.8-	0.4+	950817 367	0.0	0.8+	951021 385	1.6-	0.4-
950802 905	0.5+	1.4+	950817 360	0.6+	0.1-	970213 385	1.4-	0.4-
950815 413	0.7+	0.5+	950817 360	0.6+	0.4-	970213 385	0.1-	0.1-
950816 422	1.5-	1.1-	950817 360	0.7+	0.2-	970214 385	0.5+	1.7-
950816 422	0.4-	1.1-	950821 905	0.6+	1.6-	970214 385	1.1+	0.5-
950816 422	1.0-	1.2-	950821 905	0.7+	0.3-	970214 385	0.5-	0.4+
950817 367	0.4+	1.2+	951021 385	0.1+	0.4+			

1995 QG

Id. D. D. Balam (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Williams		
			P	Q	
<i>M</i>			(2000.0)		
<i>n</i>	0.22899549	ω	103.62974	+0.37277167	-0.91772377
<i>a</i>	2.6459691	Ω	323.51738	+0.73691214	+0.38264031
<i>e</i>	0.1598581	<i>i</i>	13.34151	+0.56391646	+0.10662772
<i>P</i>	4.30	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

950820 658	0.2-	0.3+	950915 658	0.8-	1.2-	951119 104	0.2+	0.5-
950820 658	0.1-	0.3+	950915 658	0.9-	1.2-	951119 104	0.5+	0.8-
950820 658	0.0	0.2+	950915 658	0.8-	1.2-	960125 658	0.3+	0.6+
950820 658	0.1-	0.3+	951028 658	0.0	1.0+	960125 658	0.2+	0.5+
950821 658	1.8+	0.7+	951028 658	0.0	1.1+	960125 658	0.2+	1.4+
950821 658	1.8+	0.7+	951031 658	0.3-	0.0	970114 658	1.0-	0.1+
950821 658	1.7+	0.6+	951031 658	0.4-	0.0	970114 658	0.5-	0.8-
950821 658	1.3+	0.1+	951031 658	0.5-	0.0	970114 658	0.1-	0.5+
950821 658	1.4+	0.1+	951119 658	0.3-	0.2-	970124 658	1.0+	0.7-
950827 658	0.7-	0.5-	951119 658	0.1-	0.2-	970124 658	0.2+	0.4+
950827 658	0.9-	0.4-	951119 658	0.1-	0.2-	970124 658	0.7-	0.7-
950827 658	0.8-	0.4-	951119 104	0.1-	0.2+			
950827 658	0.7-	0.5-	951119 104	0.1+	0.6-			

1995 QN = 1971 LG

Id. E. Bowell (1991, 1992 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Williams		
			P	Q	
<i>M</i>			(2000.0)		
<i>n</i>	0.29213092	ω	135.01315	+0.40600249	+0.91353548
<i>a</i>	2.2494916	Ω	158.90292	-0.85664234	+0.38988855
<i>e</i>	0.1736671	<i>i</i>	3.95031	-0.31831726	+0.11593037
<i>P</i>	3.37	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

710614 095	0.1-	0.4-	950823 400	0.0	0.6+	950921 691	0.8-	0.3-
910419 675	0.2+	0.1+	950901 397	0.1+	0.7-	950921 691	0.9-	0.5-
910419 675	0.2-	0.2+	950901 397	0.7+	0.2-	950921 691	0.8-	0.5-
921022 675	0.0	0.4-	950902 010	1.8-	1.5+	950925 691	1.1-	0.2-
921022 675	0.2+	0.7+	950902 010	0.1-	1.8+	950925 691	0.9-	0.2-
950821 397	0.2+	0.8+	950902 010	0.6+	1.3+	950925 691	0.4-	0.5-
950821 397	0.4+	0.5-	950914 397	1.4+	1.4-	951001 691	1.1-	0.2+
950822 397	0.7+	1.2+	950914 397	0.8+	0.7-	951001 691	1.0-	0.1-
950822 397	0.3+	0.1-	950918 397	1.5+	1.0-	951001 691	1.2-	0.1-
950823 400	1.3+	0.2+	950918 397	1.4+	0.6-			

1995 QD₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Marsden		
			P	Q	
<i>M</i>			(2000.0)		
<i>n</i>	0.30678397	ω	105.40367	+0.81479264	-0.57642863
<i>a</i>	2.1772800	Ω	289.83417	+0.50343651	+0.75650904
<i>e</i>	0.1121403	<i>i</i>	3.77860	+0.28751457	+0.30890793
<i>P</i>	3.21	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

950823 118	0.4+	0.4-	950906 118	0.3-	0.1-	951019 118	0.3-	1.8-
950823 118	0.1+	0.3-	950906 118	0.1+	0.0	951021 118	0.0	0.6-
950823 118	0.1+	0.1-	950907 118	0.6-	0.4-	951022 118	0.0	0.1+
950823 118	0.5+	0.4-	950916 118	0.1+	0.7+	951026 118	0.2-	0.1-
950823 118	0.4+	0.4-	950916 118	0.1-	0.7+	951228 118	0.1+	0.1-
950823 118	0.5+	0.6-	950917 118	0.1-	0.6+	960115 118	0.0	0.8+
950823 118	0.5+	0.2-	950918 118	0.5+	0.8+	960115 118	0.0	0.5+
950824 118	0.5+	0.4-	950924 118	0.3-	0.6-	970207 118	0.8-	0.5-
950826 118	1.3-	0.0	950929 118	0.6+	0.5+	970207 118	1.1-	0.7-
950826 118	1.4-	0.3+	950930 118	0.6+	0.3+	970207 118	1.1-	1.1-
950904 118	0.7+	0.8-	951004 118	0.3+	0.1+	970210 118	1.0+	0.3-
950904 118	0.0	0.5-	951005 118	0.3-	0.0	970210 118	0.4+	1.1-

1995 QE₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Marsden		
			P	Q	
<i>M</i>			(2000.0)		
<i>n</i>	0.18531951	ω	147.77709	+0.94338010	-0.18556461
<i>a</i>	3.0468796	Ω	225.64236	+0.15766417	+0.98011103
<i>e</i>	0.2281440	<i>i</i>	22.61622	+0.29184928	+0.07034303
<i>P</i>	5.32	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

950826 693	1.2-	0.1-	950903 816	0.3-	0.2+	951212 608	0.3-	0.7+
950826 693	0.3-	0.2+	950903 816	0.2-	0.2+	951213 608	0.8+	0.0
950827 693	1.5+	0.2-	950903 816	0.1-	0.2+	951213 608	0.6+	0.3+
950827 693	0.5-	0.0	950915 658	0.2+	0.2-	961216 696	0.5+	0.3+

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950830 657	0.1−	0.1+	950915 658	0.3+	0.2−	961216 696	0.2+	0.2−
950830 657	0.3+	0.5−	950915 658	0.3+	0.3−	961216 696	0.3+	0.1−
950830 657	0.9−	0.7−	950916 816	0.2+	0.3−	970201 696	0.3−	0.2−
950831 657	0.6−	0.5+	950916 816	0.5+	0.1−	970201 696	0.4−	0.2−
950831 657	0.1−	0.0	950916 816	0.4+	0.3−	970201 696	0.6−	0.1−
950831 657	0.4+	0.1+	951212 608	0.4−	0.6+			

1995 QH₂

Id. T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Urata			
<i>M</i>	135.61302	(2000.0)	P		Q	
<i>n</i>	0.28713877	ω 275.87119	+0.77753200		+0.62296887	
<i>a</i>	2.2754895	Ω 45.63421	−0.51900554		+0.71272806	
<i>e</i>	0.1370645	<i>i</i> 6.88947	−0.35507357		+0.32237944	
<i>P</i>	3.43	<i>H</i> 14.0	<i>G</i> 0.15		<i>U</i> 5	

Residuals in seconds of arc

950824 905	1.3−	0.3+	950901 905	0.2+	0.4+	970131 385	0.4−	0.2−
950824 905	0.5−	0.3−	950901 905	0.8+	0.6+	970131 385	1.4−	0.1+
950826 905	0.1+	0.4−	950917 905	1.1−	0.5+	970204 385	0.4+	0.0
950826 905	1.8+	0.6−	950917 905	0.0	0.6−	970204 385	1.4+	0.1−

1995 QW₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Marsden			
<i>M</i>	123.05835	(2000.0)	P		Q	
<i>n</i>	0.27985481	ω 88.60859	+0.84002835		+0.43341486	
<i>a</i>	2.3148038	Ω 245.61353	−0.51634012		+0.82333030	
<i>e</i>	0.1521904	<i>i</i> 20.99694	+0.16656908		+0.36644068	
<i>P</i>	3.52	<i>H</i> 15.0	<i>G</i> 0.15		<i>U</i> 3	

Residuals in seconds of arc

950831 693	0.1−	0.3−	950916 816	0.1+	0.1+	951213 608	0.4+	0.8+
950831 693	0.5+	0.8−	950921 657	(0.9−	3.6+)	951213 608	0.3+	0.8+
950907 608	0.4−	1.3−	950921 657	(0.8−	2.3+)	951213 608	0.3+	0.5+
950907 608	0.2−	0.3−	950921 657	0.8−	0.8+	961216 696	0.1+	0.1+
950908 608	(0.6+	2.2−)	950925 816	0.0	0.0	961216 696	0.0	0.2+
950908 608	0.1+	0.3−	950925 816	0.1+	0.1+	961216 696	0.1+	0.2+
950916 816	0.1+	0.2+	950925 816	0.4+	0.0	970201 696	0.3−	0.5−
950916 816	0.0	0.3+	951212 608	0.1+	0.4−	970201 696	0.2−	0.4−
950916 816	0.0	0.2+	951212 608	0.1+	0.6−	970201 696	0.2−	0.5−

1995 RA

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Marsden			
<i>M</i>	106.48514	(2000.0)	P		Q	
<i>n</i>	0.27438882	ω 58.21204	+0.94321965		−0.06053101	
<i>a</i>	2.3454442	Ω 303.25171	−0.14257501		+0.81429941	
<i>e</i>	0.2318438	<i>i</i> 22.98893	+0.30001510		+0.57728023	
<i>P</i>	3.59	<i>H</i> 13.5	<i>G</i> 0.15		<i>U</i> 3	

Residuals in seconds of arc

950830 693	0.2+	0.1+	950916 816	0.1+	0.1−	951028 658	0.3−	0.2+
950830 693	0.1−	0.2+	950920 608	0.0	0.3+	951028 658	0.3−	0.1+
950902 693	0.3−	0.8−	950920 608	0.2−	0.0	951028 658	0.5+	0.4+
950902 693	0.8−	0.0	950921 657	0.1+	0.3+	951117 801	0.2−	0.3−
950915 658	0.3−	0.0	950921 657	0.4+	0.1+	951117 801	0.1−	0.3−
950915 658	0.2−	0.1−	950921 657	0.3+	0.2+	951121 801	0.1−	0.1−
950915 658	0.3−	0.1−	950921 608	(0.7+	2.4+)	951121 801	0.0	0.1−

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950916 816	0.2+	0.2−	950921 608	0.3−	0.5+	961216 696	0.1−	0.0
950916 816	0.2+	0.1−	950925 816	0.4+	0.2−	961216 696	0.1+	0.0
950916 816	0.1+	0.0	950925 816	0.4+	0.1−	961216 696	0.2+	0.0
950916 816	0.1+	0.1−	950925 816	0.5+	0.0	961216 696	0.0	0.1+

1995 SG

Id. L. Šarounová (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Williams			
<i>M</i>	70.27158	(2000.0)	P		Q	
<i>n</i>	0.24317930	ω 166.45106	+0.73301604		−0.67993096	
<i>a</i>	2.5420552	Ω 236.40458	+0.62187654		+0.68150898	
<i>e</i>	0.1347251	<i>i</i> 1.34342	+0.27560308		+0.27062779	
<i>P</i>	4.05	<i>H</i> 15.5	<i>G</i> 0.15		<i>U</i> 4	

Residuals in seconds of arc

950831 411	0.9−	0.1+	950917 557	0.2−	0.0	951024 557	0.2+	0.1+
950831 411	0.1−	0.4−	950917 557	0.3−	0.0	970201 557	0.2−	0.2−
950906 557	0.9+	0.2−	950922 557	0.2+	0.1−	970201 557	0.3+	0.4+
950907 557	0.6+	0.4+	950922 557	0.0	0.2+	970202 557	0.8−	0.5−
950907 557	0.2+	0.2+	950928 557	0.0	0.3−	970202 557	0.2−	0.6+
950907 557	0.1+	0.1−	950928 557	0.2−	0.0	970202 557	0.2+	0.6+
950917 557	0.0	0.1+	951021 557	0.0	0.3−	970208 557	0.0	0.1−
950917 557	0.1+	0.1−	951021 557	0.3+	0.1−	970208 557	0.3+	0.3−
950917 557	0.4−	0.0	951024 557	0.2−	0.3−	970208 557	0.3+	0.5−
950917 557	0.0	0.0	951024 557	0.1−	0.5+			

1995 SX

Id. A. Vagnozzi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

			Williams			
<i>M</i>	113.37696	(2000.0)	P		Q	
<i>n</i>	0.26706054	ω 142.75629	+0.92235673		+0.38548347	
<i>a</i>	2.3881572	Ω 194.63472	−0.37441889		+0.87551955	
<i>e</i>	0.1431384	<i>i</i> 5.83849	−0.09522898		+0.29132116	
<i>P</i>	3.69	<i>H</i> 14.5	<i>G</i> 0.15		<i>U</i> 4	

Residuals in seconds of arc

950922 589	0.5−	0.0	951001 589	0.2−	0.2+	960115 589	0.3−	0.1+
950922 589	0.3−	0.4−	951012 589	0.0	0.3+	960115 589	0.5−	0.8−
950922 589	0.2−	0.1−	951012 589	0.3−	0.4+	970112 589	0.5+	0.2+
950922 589	0.0	0.4+	951015 589	0.3−	1.0+	970112 589	0.4+	0.6+
950923 589	0.4−	0.3+	951015 589	0.2−	0.4−	970112 589	1.0−	1.3+
950923 589	0.2+	0.2+	951020 589	0.5+	0.4−	970127 589	0.2−	0.0
950923 589	0.3−	0.3+	951020 589	0.2−	0.2+	970127 589	0.4+	0.5−
950923 589	0.5−	0.9+	951025 589	0.0	0.3+	970127 589	0.1−	0.2+
950929 589	0.4+	1.3−	951025 589	0.2+	0.0	970130 589	0.5+	0.1−
950929 589	0.8+	0.0	951120 589	0.3−	0.0	970130 589	0.3−	1.0−
950929 589	0.1+	0.2−	951120 589	1.3+	1.2−			
951001 589	0.2+	0.3+	951120 589	0.6+	0.6−			

1995 SC₂

Id. E. Colombini (1997 observations)

M.P.C. 29109

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Marsden						
<i>M</i>	74.34930		(2000.0)		P		Q				
<i>n</i>	0.26427500	ω	223.62358		+0.90504241		-0.42366517				
<i>a</i>	2.4049091	Ω	161.34170		+0.41527272		+0.86116828				
<i>e</i>	0.1254187	<i>i</i>	6.73096		+0.09190645		+0.28088613				
<i>P</i>	3.73	<i>H</i>	15.0		<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc											
950923	552	0.1-	0.2-	950929	552	0.1-	1.0+	970207	552	0.3-	0.2-
950923	552	0.1+	0.4-	951020	552	0.3-	0.5-	970207	552	0.3+	0.2-
950923	552	0.1-	0.2-	951020	552	0.3+	0.0	970207	552	0.1-	0.5-
950925	552	0.1-	0.3+	970206	552	0.3+	0.4+	970208	552	0.8-	0.0
950925	552	0.4+	0.5+	970206	552	0.7+	0.3+	970208	552	0.4-	0.4+
950929	552	0.0	0.5-	970206	552	0.3+	0.0				

1995 SL₂

Id. T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5						Urata					
<i>M</i>	54.52531			(2000.0)		P			Q		
<i>n</i>	0.22908398			ω	240.16729	+0.73426662			−0.67515994		
<i>a</i>	2.6452877			Ω	161.98284	+0.67458641			+0.71398049		
<i>e</i>	0.1808309			<i>i</i>	13.23105	+0.07606381			+0.18544788		
<i>P</i>	4.30			<i>H</i>	13.0	<i>G</i>	0.15		<i>U</i>	4	
Residuals in seconds of arc											
950917	905	0.6−	0.1+	951017	905	0.6+	0.1−	970209	905	1.2+	0.4+
950917	905	0.5−	0.6+	951017	905	0.1+	0.3−	970209	905	0.1+	0.5+
950917	905	0.9−	0.1−	951117	385	0.2−	0.3+	970211	385	0.2+	0.2+
950924	905	0.4+	0.4+	951117	385	0.7+	0.7+	970211	385	0.2−	0.1−
950924	905	0.4+	0.3+	951117	385	0.4−	0.1+	970211	385	1.4−	1.1−
951002	905	0.7+	1.6−	951217	385	0.3−	0.5−				
951002	905	0.1+	0.1−	951217	385	0.1−	0.2+				

1995 SP₂

Id. A. Nakamura (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5						Nakano					
<i>M</i>	128.70675		(2000.0)			P			Q		
<i>n</i>	0.26569379	ω	266.41310			+0.96982998			+0.20357643		
<i>a</i>	2.3963400	Ω	81.80730			-0.13230652			+0.90160740		
<i>e</i>	0.1510528	<i>i</i>	7.78732			-0.20475544			+0.38165526		
<i>P</i>	3.71	<i>H</i>	15.2		<i>G</i>	0.15		<i>U</i>	3		
Residuals in seconds of arc											
950920	360	0.1+	0.6-	951012	360	0.2+	0.0	951112	360	0.3-	0.4+
950920	360	0.0	0.8-	951012	360	0.5+	0.3-	951121	360	0.1-	0.1-
950920	360	0.2+	0.5-	951012	360	0.6+	0.1+	951121	360	0.3-	0.2-
950924	360	0.1-	0.4+	951017	360	0.0	0.1-	970204	360	0.0	0.0
950924	360	0.3-	0.2+	951017	360	0.1-	0.2-	970204	360	0.0	0.0
950924	360	0.2-	0.1+	951020	360	0.6+	0.1+	970204	360	0.1-	0.5-
951003	360	0.3-	0.5+	951020	360	0.3+	0.1-	970209	360	0.3+	0.1+
951003	360	0.3-	0.4+	951112	360	0.3-	0.0	970209	360	0.2-	0.2+
951003	360	0.3-	0.5+	951112	360	0.0	0.1+				

1995 SQ₂

Id. A. Vagnozzi (1997 observations)

1997 FEB. 22

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Williams							
<i>M</i>	162.51475		(2000.0)	P		Q					
<i>n</i>	0.22899629	ω	26.44726	+0.24934530		+0.95149760					
<i>a</i>	2.6459629	Ω	258.43251	−0.91790727		+0.17289705					
<i>e</i>	0.1513347	<i>i</i>	10.60029	−0.30866352		+0.25447774					
<i>P</i>	4.30	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4				
Residuals in seconds of arc											
950926	589	0.2−	0.1−	951021	589	0.7−	0.3−	970112	589	0.2+	1.0+
950926	589	0.0	0.8−	951025	589	0.1−	0.8+	970115	589	0.9+	0.5−
950926	589	0.8+	0.3−	951025	589	0.1+	0.3−	970115	589	1.1−	0.6+
950926	589	0.0	0.1+	951025	589	0.4−	0.1+	970115	589	0.6+	0.4−
950927	589	0.8−	0.7+	951025	589	0.4−	0.6−	970115	589	0.6+	0.0
950927	589	0.0	0.7−	951118	589	0.1−	0.5+	970115	589	0.3−	0.4−
950927	589	0.1+	0.5+	951118	589	0.8+	0.0	970115	589	0.5+	1.1−
951001	589	0.3−	0.3−	951118	589	1.5+	0.7+	970130	589	0.4+	0.4+
951001	589	0.2−	0.1+	951120	589	1.6+	0.2+	970130	589	0.1−	0.6+
951001	589	0.7+	0.2+	951120	589	1.6+	0.2+	970130	589	1.6−	0.0
951014	589	0.5+	0.1−	951124	589	1.9−	0.8−	970130	589	0.0	0.1−
951014	589	0.0	0.1+	951124	589	2.3−	0.6−				
951021	589	0.1−	0.5+	970112	589	0.2−	0.0				

1995 SR₃ = 1944 QH = 1978 QM₂ = 1997 AU₂₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Williams							
<i>M</i>	132.08083		(2000.0)	P		Q					
<i>n</i>	0.29061732	ω	17.13511	+0.96948186		+0.23861800					
<i>a</i>	2.2572953	Ω	328.88658	-0.23576043		+0.84445514					
<i>e</i>	0.1774427	<i>i</i>	6.25170	-0.06724535		+0.47953828					
<i>P</i>	3.39	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5				
Residuals in seconds of arc											
440818	078(67.3-	29.0+)	X	950921	400	0.5-	0.1+	970111	327	0.3-	0.1-
780831	095	1.8-	2.1+	950921	400	0.2-	0.1-	970111	327	0.5-	0.4-
780905	095	1.5+	1.5-	950930	400	0.7+	1.0+	970118	327	0.5+	0.8+
950920	400	0.1+	0.7-	950930	400	0.3-	0.1-	970118	327	0.3+	0.5+
950920	400	0.4+	0.6-	970111	327	0.1-	0.5-	970118	327	0.4+	0.2+

1995 SJ₄

Id. D. D. Balam (1996/7 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Williams							
<i>M</i>	85.20980		(2000.0)	P		Q					
<i>n</i>	0.17714187	ω	88.16447	+0.91305910	+0.22682588						
<i>a</i>	3.1399440	Ω	258.61132	-0.33617422	+0.88910538						
<i>e</i>	0.1353489	<i>i</i>	20.22678	+0.23088953	+0.39754452						
<i>P</i>	5.56	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3				
Residuals in seconds of arc											
950925	693	0.1+	0.1+	951212	608	0.4+	0.5+	961216	658	0.2-	0.4+
950925	693	0.8-	0.4+	951212	608	0.5+	0.8+	970124	658	0.1+	0.4-
950929	693	0.0	0.9-	951213	608	0.0	0.0	970124	658	0.5-	0.5-
950929	693	0.3-	0.2-	951213	608	0.0	0.2-	970124	658	0.5-	0.6-
951011	695	0.4+	0.4-	961216	658	0.2+	0.6+				
951011	695	0.2+	0.0	961216	658	0.8+	0.2+				

1995 SH₃₂

Id. T. Kobayashi (1997 observations)

M.P.C. 29110

1997 FEB. 22

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Nakano				
<i>M</i>	8.13158				P		Q		
					(2000.0)				
<i>n</i>	0.30600592	ω	136.92912		-0.41536050		-0.90937058		
<i>a</i>	2.1809690	Ω	337.58350		+0.81749476		-0.36215740		
<i>e</i>	0.0955793	<i>i</i>	3.43090		+0.39897115		-0.20466351		
<i>P</i>	3.22	<i>H</i>	15.6		<i>G</i>	0.15	<i>U</i>	5	
Residuals in seconds of arc									
950902 010	1.9-	0.6+	950921 691	0.5-	0.3+	951002 691	0.9+	0.3+	
950902 010	1.4-	1.6+	950921 691	0.1-	0.1+	951002 691	0.0	0.5+	
950902 010	2.0+	0.1+	950921 691	0.1+	0.2+	970213 411	1.3+	0.0	
950917 327	0.5+	0.5-	950926 691	0.4-	1.0-	970213 411	0.0	0.3+	
950917 327	0.5+	0.1-	950926 691	0.5-	0.3+	970214 411	0.5-	0.3-	
950917 327	0.3+	0.4-	950926 691	0.3-	0.2+	970214 411	0.3-	1.2+	
950917 327	0.3-	1.1-	951002 691	0.5+	0.3+				

1995 TQ = 1990 WB₁₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Williams				
<i>M</i>	111.43362				P		Q		
					(2000.0)				
<i>n</i>	0.19530007	ω	110.46857		+0.97487302		+0.13634411		
<i>a</i>	2.9421702	Ω	242.05378		-0.18562487		+0.93439831		
<i>e</i>	0.1089944	<i>i</i>	11.50280		+0.12315030		+0.32910496		
<i>P</i>	5.05	<i>H</i>	13.0		<i>G</i>	0.15	<i>U</i>	3	
Residuals in seconds of arc									
901124 402	0.1+	0.0	951207 327	0.2-	0.1+	970121 608	0.0	0.1+	
901124 402	0.1-	0.0	951207 327	0.1-	0.1-	970121 608	0.2+	0.3-	
951006 608	0.1+	0.0	951207 327	0.2+	0.1+	970125 608	0.0	0.5+	
951006 608	0.1+	0.0	970109 608	0.2+	0.1-	970125 608	0.7+	0.6+	
951012 608	0.9+	0.4+	970109 608	0.3-	0.1-	970131 608	0.0	0.1+	
951012 608	0.3+	0.0	970111 608	0.0	0.2+	970131 608	0.2+	0.2-	
951130 327	0.2-	0.1-	970111 608	0.1-	0.0	970201 608	0.1+	0.3-	
951130 327	0.7-	0.1-	970118 608	1.4-	0.3+	970201 608	0.3+	0.3-	
951130 327	0.3-	0.4-	970118 608	0.0	0.6-				

1995 TX

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Marsden				
<i>M</i>	290.67462				P		Q		
					(2000.0)				
<i>n</i>	0.27934516	ω	263.45453		-0.81331004		+0.48282800		
<i>a</i>	2.3176185	Ω	304.91715		-0.23687294		-0.78443218		
<i>e</i>	0.1577799	<i>i</i>	23.32435		-0.53143014		-0.38928560		
<i>P</i>	3.53	<i>H</i>	14.0		<i>G</i>	0.15	<i>U</i>	3	
Residuals in seconds of arc									
951014 695	0.8+	0.7-	951028 658	1.2-	0.3+	960203 658	0.2+	0.2+	
951014 695	0.6+	0.5-	951223 693	0.5+	0.1-	960203 658	0.0	0.2+	
951015 695	0.7+	0.1-	951223 693	0.5+	0.1-	961216 696	0.1-	0.0	
951015 695	0.6+	0.3-	951223 693	0.5+	0.0	961216 696	0.0	0.0	
951016 695	0.0	0.5+	960202 658	0.3+	0.2+	961216 696	0.1-	0.0	
951016 695	0.1-	0.1+	960202 658	0.2+	0.1+	970201 696	0.0	0.1-	
951028 658	1.2-	0.2+	960202 658	0.6-	0.4-	970201 696	0.0	0.0	
951028 658	1.2-	0.2+	960203 658	0.6-	0.3+	970201 696	0.0	0.0	

1995 UE

Id. P. Sicoli (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Williams				
<i>M</i>	302.69478				P		Q		
					(2000.0)				
<i>n</i>	0.29469884	ω	212.99393		-0.95410991		+0.29815283		
<i>a</i>	2.2364049	Ω	344.28019		-0.24756432		-0.83778438		
<i>e</i>	0.0677933	<i>i</i>	5.91355		-0.16848201		-0.45740816		
<i>P</i>	3.34	<i>H</i>	14.0		<i>G</i>	0.15	<i>U</i>	5	
Residuals in seconds of arc									
951017 587	1.3+	1.1+	951023 587	0.4-	0.4+	951124 587	0.8+	0.6-	
951017 587	0.4+	0.6-	951023 587	0.7-	1.5+	970207 587	0.1-	0.2-	
951018 587	0.8-	0.1-	951027 587	1.2+	0.9-	970207 587	0.3-	0.0	
951018 587	0.1+	1.0-	951027 587	0.3-	0.7+	970208 587	0.5+	0.1+	
951019 587	0.0	0.6-	951027 587	0.2-	0.0	970209 587	0.3+	0.0	
951019 587	0.3+	1.4-	951124 587	1.7-	1.4+	970209 587	0.5-	0.1-	

1995 UN₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Williams				
<i>M</i>	34.61688				P		Q		
					(2000.0)				
<i>n</i>	0.18562350	ω	308.63108		-0.02180002		-0.99948890		
<i>a</i>	3.0435522	Ω	142.59791		+0.92881048		-0.02890056		
<i>e</i>	0.2060876	<i>i</i>	2.20608		+0.36991331		+0.01366338		
<i>P</i>	5.31	<i>H</i>	14.5		<i>G</i>	0.15	<i>U</i>	4	
Residuals in seconds of arc									
951024 046	(1.7+	2.5-)	951121 046	0.1-	0.4-	970207 046	0.5+	0.7-	
951024 046	(1.8+	2.6-)	951121 046	0.3+	0.5-	970207 046	1.3+	1.2-	
951024 046	0.7+	0.3-	951121 046	0.8+	0.4-	970207 046	0.3+	0.9-	
951024 046	0.2+	0.1-	951122 046	0.1+	0.2+	970207 046	0.3+	0.8-	
951025 046	0.0	0.1+	951122 046	0.1-	0.0	970208 046	0.3-	0.3+	
951025 046	0.0	0.0	951122 046	0.4-	0.3+	970208 046	0.3+	1.5+	
951025 046	0.1-	0.5+	951209 046	0.5+	0.8-	970208 046	0.0	1.5+	
951025 046	0.3+	0.0	951209 046	0.0	0.2-	970210 046	0.2+	0.4+	
951025 046	0.2+	0.0	951209 046	0.2-	0.1+	970210 046	1.8-	0.1+	
951027 046	1.3-	0.4+	960111 046	0.7-	0.5+	970210 046	0.8-	0.0	
951027 046	0.6-	0.3+	960111 046	0.5-	0.5+				
951027 046	0.1-	0.4+	960111 046	1.0+	0.5-				

1995 UK₃ = 1976 YB₃ = 1980 TV

Id. S. Nakano, T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5									
					Urata				
<i>M</i>	26.03582				P		Q		
					(2000.0)				
<i>n</i>	0.20320344	ω	212.98738		-0.18559246		-0.95511589		
<i>a</i>	2.8653786	Ω	248.63280		+0.94668971		-0.11083421		
<i>e</i>	0.0984551	<i>i</i>	14.35500		+0.26331358		-0.27471696		
<i>P</i>	4.85	<i>H</i>	12.0		<i>G</i>	0.15	<i>U</i>	1	
Residuals in seconds of arc									
761216 095	0.5-	2.3-	951101 905	0.3+	0.6-	951222 905	0.6+	0.8+	
801003 033	3.1-	1.8-	951103 385	0.3+	0.2+	960113 385	0.5-	0.3+	
801003 033	3.0+	1.9+	951103 385	0.2+	0.7+	960113 385	0.2-	0.6+	
951017 905	0.4-	0.2-	951103 385	0.4+	0.1+	960113 385	0.6-	0.1+	
951017 905	0.2-	0.3-	951112 905	0.3+	0.4+	970203 385	1.0+	0.1+	
951020 905	1.0-	0.5-	951112 905	0.4+	0.4+	970203 385	0.0	0.5+	
951020 905	0.5-	0.5-	951215 385	0.2+	0.6+	970206 385	0.4+	0.1-	
951025 905	0.5-	0.3-	951215 385	0.1+	0.5+	970206 385	0.4-	0.2+	

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951025 905 0.1+ 0.3+ 951215 385 0.6+ 0.3- 970206 385 0.5- 0.4+
 951101 905 0.5+ 0.4- 951222 905 0.5- 0.5+

1995 UH₄

Id. T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Urata	
<i>M</i>	40.64904	(2000.0)	
	P	Q	
<i>n</i>	0.18353883	ω 125.04201	+0.34092145 -0.93166260
<i>a</i>	3.0665549	Ω 304.54352	+0.80521422 +0.35834790
<i>e</i>	0.1420494	<i>i</i> 8.77144	+0.48518309 +0.05992983
<i>P</i>	5.37	<i>H</i> 13.0	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

951020 385 1.1+ 0.6- 951116 385 0.2- 0.2+ 960113 385 0.1+ 1.0-
 951020 385 0.3- 1.1- 951116 385 0.3+ 0.9+ 960113 385 0.7+ 0.5-
 951020 385 0.4- 0.7- 951117 385 0.3- 0.1- 960113 385 0.3- 0.5+
 951021 385 0.4+ 0.1+ 951117 385 0.1+ 0.2+ 970131 385 0.3+ 0.3-
 951021 385 0.3- 0.3- 951117 385 0.4- 0.0 970131 385 0.6- 0.1-
 951021 385 0.7+ 0.2+ 951124 887 0.6- 1.2+ 970203 385 0.1+ 0.3+
 951116 385 0.2+ 0.9+ 951124 887 0.8- 0.1-

1995 UF₆

Id. T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Urata	
<i>M</i>	139.10525	(2000.0)	
	P	Q	
<i>n</i>	0.22505621	ω 274.30314	+0.78372304 +0.59923288
<i>a</i>	2.6767556	Ω 48.97798	-0.44839559 +0.72789767
<i>e</i>	0.1875008	<i>i</i> 12.50787	-0.42979017 +0.33329407
<i>P</i>	4.38	<i>H</i> 13.0	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

951025 905 1.3- 0.8+ 951103 385 1.1+ 0.3+ 951223 566 0.0 0.1-
 951025 905 1.7+ 1.0- 951103 385 0.2+ 0.2+ 960113 385 0.9+ 0.3-
 951026 905 0.8- 0.5+ 951112 905 0.0 0.1+ 960113 385 0.1- 0.3+
 951026 905 0.6+ 0.5- 951112 905 0.9+ 0.8- 960113 385 0.2+ 0.3-
 951027 905 0.3- 0.6- 951217 385 0.5- 0.7+ 970131 385 0.8- 0.1+
 951027 905 0.4- 0.2+ 951217 385 1.0- 0.1- 970131 385 0.6+ 0.6-
 951030 905 0.9- 1.4+ 951217 385 0.6+ 0.3+ 970204 385 0.1- 0.8+
 951030 905 0.8- 0.8- 951223 566 0.6- 0.3- 970204 385 0.3+ 0.2-
 951103 385 0.6+ 0.0 951223 566 0.2- 0.2-

1995 UC₈ = 1979 YS₄

Id. S. Nakano, T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Nakano	
<i>M</i>	89.21949	(2000.0)	
	P	Q	
<i>n</i>	0.18391185	ω 180.47348	+0.90259632 -0.42736063
<i>a</i>	3.0624070	Ω 205.02855	+0.39536633 +0.87053563
<i>e</i>	0.1705274	<i>i</i> 7.03224	+0.17030958 +0.24398895
<i>P</i>	5.36	<i>H</i> 12.8	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

791218 095 0.0 0.2+ 951113 905 0.6+ 0.9+ 951210 905 0.1- 0.0
 951027 905 0.5- 0.8- 951117 691 0.6- 0.0 951210 905 1.7+ 0.4-
 951027 905 0.8+ 0.6- 951117 691 0.7- 0.0 951212 905 1.1- 0.9-
 951030 905 0.9+ 0.0 951117 691 0.7- 0.0 951212 905 0.3+ 0.4+
 951030 905 0.4+ 0.2+ 951122 691 0.5- 0.2+ 970206 385 0.3+ 0.3-
 951103 385 0.1- 0.2+ 951122 691 0.5- 0.4+ 970206 385 0.0 0.2+

951103 385 0.1- 0.4+ 951122 691 0.6- 0.3+ 970211 385 0.1+ 0.1+
 951103 385 0.1+ 0.1- 951124 905 0.1+ 0.8- 970211 385 0.4- 0.0
 951113 905 0.3+ 0.3+ 951124 905 0.5+ 0.0

1995 UF₄₅ = 1979 YE₇

Id. T. Kobayashi (1997 observations), S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Nakano	
<i>M</i>	55.13196	(2000.0)	
	P	Q	
<i>n</i>	0.17957058	ω 340.74132	+0.61058932 -0.79093138
<i>a</i>	3.1115677	Ω 71.60632	+0.73202975 +0.54434703
<i>e</i>	0.1727696	<i>i</i> 2.42215	+0.30218062 +0.27948857
<i>P</i>	5.49	<i>H</i> 12.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

791218 095 0.0 1.1- 951030 400 0.7- 0.5- 970130 411 1.0+ 0.2+
 951028 400 0.4+ 0.5- 951115 400 0.3- 0.8+ 970131 411 0.5- 0.0
 951028 400 (3.7- 1.4-) 951115 400 0.4+ 1.0+ 970131 411 0.3+ 0.3+
 951030 400 0.2- 0.1- 970130 411 0.5- 0.4+

1995 VX₄ = 1997 CV₂₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Williams	
<i>M</i>	213.31469	(2000.0)	
	P	Q	
<i>n</i>	0.26187168	ω 140.89690	-0.06717367 +0.99623504
<i>a</i>	2.4196006	Ω 125.18480	-0.93141001 -0.04292001
<i>e</i>	0.1636297	<i>i</i> 3.84484	-0.35771928 -0.07532342
<i>P</i>	3.76	<i>H</i> 16.5	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

951114 691 0.0 0.1- 951119 691 0.3+ 0.0 970207 691 0.2- 0.1+
 951114 691 0.1- 0.0 951125 691 0.2- 0.1+ 970207 691 0.0 0.3+
 951114 691 0.2+ 0.0 951125 691 0.3- 0.1- 970214 691 0.1+ 0.7-
 951119 691 0.2- 0.1+ 951125 691 0.0 0.1- 970214 691 0.0 0.0
 951119 691 0.3+ 0.1+ 970207 691 0.1+ 0.1+ 970214 691 0.0 0.2+

1995 WH = 1983 HX

Id. G. V. Williams, T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

		Nakano	
<i>M</i>	143.23483	(2000.0)	
	P	Q	
<i>n</i>	0.20294743	ω 243.26707	+0.96421971 +0.25847440
<i>a</i>	2.8677878	Ω 101.70604	-0.21680325 +0.89672264
<i>e</i>	0.0485416	<i>i</i> 3.44954	-0.15256703 +0.35927634
<i>P</i>	4.86	<i>H</i> 12.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

830418 801 0.0 0.1- 951124 411 0.3+ 0.6+ 951201 411 0.1+ 0.2-
 951116 411 0.2+ 0.9- 951124 411 0.6+ 0.5+ 951208 411 0.0 0.3-
 951116 411 1.4+ 0.0 951125 399 0.7- 1.1+ 951208 411 0.2- 1.7-
 951117 411 1.0+ 0.1+ 951125 399 1.7- 0.1- 951225 801 0.1+ 0.2+
 951117 411 0.2- 0.0 951127 411 0.0 0.6+ 951225 801 0.1+ 0.5-
 951118 399 0.2+ 0.3- 951127 411 0.1+ 0.4+ 970211 411 0.1+ 0.1+
 951118 399 0.5- 0.3+ 951201 411 0.5- 0.1+ 970211 411 0.0 0.0

1995 WM₃ = 1997 CW₁₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23737155	ω	273.82107	+0.95397588	+0.29888564		
<i>a</i>	2.5833521	Ω	68.78953	-0.26368308	+0.87484653		
<i>e</i>	0.1228186	<i>i</i>	1.50235	-0.14283298	+0.38119671		
<i>P</i>	4.15	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

951114	691	0.1-	0.2-	951122	595	0.8+	0.1-	960114	595	0.9+	1.3+
951114	691	0.1-	0.1-	951130	595	0.7-	1.3-	960114	595	0.1-	1.0+
951114	691	0.3-	0.0	951130	595	1.1+	0.2-	960115	595	0.3-	0.7+
951116	691	0.3-	0.2+	951218	691	0.6-	0.2-	960115	595	1.0+	0.8+
951116	691	0.2-	0.1+	951218	691	0.9-	0.4-	970207	691	0.2+	0.1+
951116	691	0.3-	0.0	951218	691	0.9-	0.4-	970207	691	0.0	0.1+
951119	691	0.5-	0.1-	951222	566	0.9+	0.1+	970207	691	0.1-	0.3-
951119	691	0.2-	0.2-	951222	566	1.1+	0.4+	970211	691	0.1-	0.1-
951119	691	0.2-	0.2-	951222	566	0.7+	0.1+	970211	691	0.0	0.2-
951121	595	1.3+	0.2+	960112	691	1.0-	0.3-	970211	691	0.1-	0.2-
951121	595	0.4-	0.4-	960112	691	1.0-	0.1-				
951122	595	1.3+	0.3+	960112	691	1.3-	0.3-				

1995 WM₅ = 1994 RC₂₉Id. B. G. Marsden (*MPC* 27110)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18770358	ω	341.13851	+0.79355723	+0.60844806		
<i>a</i>	3.0210252	Ω	341.37792	-0.55517513	+0.71884530		
<i>e</i>	0.0799958	<i>i</i>	1.36529	-0.24909335	+0.33623265		
<i>P</i>	5.25	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

940901	033	0.2-	0.2-	951128	411	0.2-	0.4-	951220	411	0.0	0.1+
940902	033	0.6-	0.0	951128	411	0.1+	0.6+	970206	691	0.1-	0.0
940904	033	0.8+	0.2+	951201	411	0.1-	0.4-	970206	691	0.1+	0.3-
951124	411	0.3+	0.1+	951201	411	1.0-	0.1-	970206	691	0.1-	0.1+
951124	411	1.2+	1.0-	951210	411	0.1-	0.3+	970216	691	0.0	0.1-
951126	411	0.4-	1.1+	951210	411	0.0	0.4-	970216	691	0.0	0.1+
951126	411	0.0	0.1-	951220	411	0.3+	0.1+	970216	691	0.1+	0.0

1995 WV₅

Id. N. Sato (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18137354	ω	60.71397	+0.48748203	+0.86058938		
<i>a</i>	3.0909129	Ω	239.19388	-0.84878101	+0.42746719		
<i>e</i>	0.0291140	<i>i</i>	9.88635	-0.20477321	+0.27687130		
<i>P</i>	5.43	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

951116	369	0.1-	0.0	951127	691	0.7-	0.2+	951223	691	0.4-	0.1-
951116	369	0.2+	0.0	951127	691	0.8-	0.2-	951223	691	0.4-	0.1-
951116	369	0.9+	0.4-	951127	369	0.2-	0.1-	951223	691	0.5-	0.1+
951121	691	0.6-	0.0	951127	369	0.5+	0.2+	970206	369	0.1-	0.4+
951121	691	0.9-	0.1-	951127	369	1.1+	0.7+	970206	369	0.3-	0.1+
951121	691	0.8-	0.0	951129	369	0.8+	0.1+	970206	369	0.4+	0.4-

951124	369	0.3+	0.2+	951129	369	0.1+	0.3-	970209	369	0.6+	0.7+
951124	369	0.2+	0.2-	951129	369	0.1-	0.6+	970209	369	0.5-	0.6+
951124	369	0.7+	0.2+	951215	887	1.0+	0.5-	970209	369	0.0	1.4-
951127	691	0.8-	0.1-	951215	887	0.6+	0.2-				

1995 WB₆ = 1990 TH

Id. T. Urata

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21130276	ω	127.29968	+0.72602622	+0.68723974		
<i>a</i>	2.7916819	Ω	189.37492	-0.66858814	+0.69719959		
<i>e</i>	0.1459234	<i>i</i>	8.55712	-0.16085965	+0.20399578		
<i>P</i>	4.66	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

901012	413	1.5-	0.1-	951126	887	0.3-	0.8-	951217	887	0.4-	0.4-
901012	413	1.2+	0.7+	951126	887	1.1+	0.6-	951217	887	0.5-	0.5-
901013	413	0.3+	0.5-	951127	887	0.4-	0.7-	951217	887	0.8-	0.7-
901016	413(12.2+ 18.2+)			951127	887	0.1-	1.2+	970206	385	0.2-	0.0
951124	887	0.8+	0.9+	951127	887	0.7-	0.3-	970206	385	0.2-	0.1-
951124	887	0.3+	0.1-	951201	887	0.3-	1.1+	970211	385	0.6+	0.0
951124	887	0.4+	0.2-	951201	887	0.3+	0.4+	970211	385	0.1-	0.3+
951126	887	0.6+	1.2-	951201	887	0.0	1.6+				

1995 WY₆ = 1974 VU₁ = 1997 CN₂₇

Id. S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18953365	ω	155.36339	-0.82105228	+0.54704000		
<i>a</i>	3.0015471	Ω	58.78360	-0.55027450	-0.68239017		
<i>e</i>	0.0352658	<i>i</i>	10.99827	-0.15189181	-0.48486173		
<i>P</i>	5.20	<i>H</i>	11.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

741115	095	0.3-	0.7+	951118	399	1.7+	0.4-	951217	399	0.0	0.3+
951024	033	0.3+	0.2+	951118	399	0.6+	0.7-	970202	399	0.3-	0.1-
951025	033	0.7+	0.9-	951125	399	0.6-	0.9-	970202	399	0.9-	1.7-
951025	033	1.4+	0.9+	951125	399	0.7-	0.9-	970210	399	0.9+	0.1-
951026	033	1.1+	0.1+	951214	399	0.4-	0.1+	970210	399	0.3+	2.0+
951116	399	1.2-	0.7+	951214	399	0.4+	0.7-				
951116	399	0.8-	1.4+	951217	399	2.1-	0.0				

1995 WG₇

Id. T. Urata (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17695088	ω	117.92380	+0.95853268	-0.05385086		
<i>a</i>	3.1422030	Ω	246.34073	-0.02360164	+0.96361053		
<i>e</i>	0.2175231	<i>i</i>	17.78998	+0.28400363	+0.26182976		
<i>P</i>	5.57	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

951124	691	1.3-	0.1+	951210	905	0.3-	0.5-	960220	887	0.1+	0.5-
951124	691	0.7-	0.1+	951221	905	0.2-	0.5+	960220	887	0.0	0.8-
951124	691	0.9-	0.0	951221	905	1.3+	1.0+	960220	887	0.5-	0.4-
951124	905	1.4+	1.4+	960113	385	0.1-	0.2+	970113	385	0.7+	0.8+
951124	905	0.2-	0.5-	960113	385	0.2+	0.2-	970113	385	0.3+	0.5+

951127 905	0.5+	0.8-	960113 385	0.2-	0.1+	970128 385	0.8+	0.1-
951127 905	0.3+	0.4-	960210 385	(3.3-	1.4+)	970128 385	0.9-	0.5+
951210 905	0.5+	0.1+	960210 385	(2.7-	2.7+)	970206 385	0.8-	1.4-

1995 XX = 1976 JA₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	234.79197	(2000.0)	P	Q
<i>n</i>	0.18165865	ω 243.81966	+0.08317786	+0.99280650
<i>a</i>	3.0876779	Ω 31.32232	-0.84493448	+0.11608014
<i>e</i>	0.0340714	<i>i</i> 9.53576	-0.52836272	-0.02933702
<i>P</i>	5.43	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

760502 809	0.1-	0.1-	951222 608	0.4-	0.5-	960310 608	0.4-	0.1+
951208 608	0.6+	1.3-	960112 608	0.1+	0.5+	960310 608	1.3+	1.6+
951208 608	0.9+	0.3-	960112 608	0.3+	0.6+	960311 608	1.1-	0.2+
951208 608	1.1+	0.7-	960113 608	0.5-	1.0+	960311 608	(3.7-	2.6+)
951212 608	0.2-	0.5-	960113 608	0.1-	0.4+	970210 608	0.1-	0.1-
951212 608	0.2-	0.2-	960210 608	0.6-	0.4-	970210 608	0.1-	0.3-
951222 608	1.0-	0.0	960210 608	0.2-	0.2-			

1995 XE₁

Id. T. Kobayashi (1997 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	73.05316	(2000.0)	P	Q
<i>n</i>	0.17475235	ω 358.22129	+0.36377018	-0.92464987
<i>a</i>	3.1685023	Ω 70.43388	+0.85609374	+0.28420179
<i>e</i>	0.0148877	<i>i</i> 6.86739	+0.36711683	+0.25347972
<i>P</i>	5.64	<i>H</i> 11.2	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

951215 411	0.0	0.1-	951222 411	0.2-	0.6-	970214 411	0.9-	0.4+
951215 411	0.1-	0.3-	951230 411	0.2+	1.2+	970214 411	0.8-	0.3-
951216 411	0.2+	0.7-	951230 411	0.7+	1.7+	970216 411	0.7+	0.8-
951216 411	0.4-	0.4-	960109 411	0.2+	0.3-	970216 411	0.9+	0.6+
951222 411	0.4+	0.5+	960109 411	1.0-	1.1-			

1995 XB₂ = 1990 EZ₆ = 1997 BV₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	157.23461	(2000.0)	P	Q
<i>n</i>	0.27309929	ω 266.62355	+0.68804577	+0.72514486
<i>a</i>	2.3528216	Ω 46.89300	-0.64991642	+0.63265494
<i>e</i>	0.0386124	<i>i</i> 2.16110	-0.32280283	+0.27186881
<i>P</i>	3.61	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

900302 809	0.0	0.1+	951214 327	0.6-	0.6+	951216 327	0.3+	0.2-
900302 809	0.2+	0.2+	951214 327	0.0	0.1-	970129 411	1.6-	0.4-
900302 809	0.6+	0.2+	951215 327	0.3-	0.4+	970129 411	1.0-	0.3-
900303 809	0.3-	0.4+	951215 327	0.6-	0.2+	970130 411	0.2+	1.3-
900303 809	0.1+	0.6+	951215 327	0.3-	0.2+	970130 411	0.7+	1.4-
900303 809	0.3+	0.6+	951216 327	0.2+	0.5+	970204 411	0.6+	0.7+
951214 327	0.1+	0.3-	951216 327	0.6+	0.1+	970204 411	0.7+	1.2+

1996 AD₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Marsden

<i>M</i>	145.06551	(2000.0)	P	Q
<i>n</i>	0.19099488	ω 277.90849	+0.95575144	-0.20855361
<i>a</i>	2.9862184	Ω 94.30507	+0.27458004	+0.88553581
<i>e</i>	0.1320167	<i>i</i> 12.00862	-0.10556980	+0.41512857
<i>P</i>	5.16	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

960113 897	0.3+	0.7+	960117 118	0.6-	0.7-	960227 118	0.1-	0.3-
960113 897	0.3+	0.5+	960121 118	0.3-	0.4+	960307 118	0.1-	0.1-
960113 897	0.1-	0.2+	960121 118	0.3-	0.3+	960309 118	0.2+	0.2-
960113 897	0.1+	0.8+	960131 118	0.2-	0.0	960320 118	0.5-	0.3-
960114 118	0.1+	0.2+	960131 118	0.2-	0.5-	960410 118	0.2+	0.3-
960114 118	0.1-	0.0	960131 118	0.1-	0.3-	960410 118	0.7+	0.0
960114 118	0.1-	0.3+	960131 118	0.3-	0.1-	960417 118	0.0	0.1+
960115 118	0.2+	0.3+	960205 118	0.4-	0.1-	960417 118	0.3-	0.0
960115 118	0.3+	0.4+	960209 118	0.3+	0.2-	960420 118	0.6+	0.6-
960116 897	1.0+	0.4+	960222 118	0.1+	0.3-	970207 118	0.1+	0.2+
960116 897	0.1-	0.3+	960223 118	0.1-	0.4-	970207 118	0.1-	0.2+
960117 118	0.2+	0.3+	960224 118	0.0	0.4-	970210 118	0.2+	0.4+
960117 118	0.3+	0.1+	960225 118	0.1-	0.2-	970210 118	0.1+	0.2-
960117 118	0.6-	0.9-	960227 118	0.1-	0.3-			

1996 BY₁ = 1952 UZ = 1977 AA₂

Id. E. Bowell (1988, 1994 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	177.62175	(2000.0)	P	Q
<i>n</i>	0.21207871	ω 25.21254	+0.98672700	-0.15644553
<i>a</i>	2.7848684	Ω 343.61088	+0.11010469	+0.84157434
<i>e</i>	0.1734517	<i>i</i> 8.87418	+0.11935992	+0.51698881
<i>P</i>	4.65	<i>H</i> 13.0	<i>G</i> 0.15	<i>U</i> 1

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

521024 760(0.03-	0.02+)	X	960124 411	0.3-	0.8-	960212 411	0.5-	0.2+
770113 095	0.0	0.2-	960124 411	0.9+	0.8+	960212 411	0.4-	0.7+
880515 675	0.6-	0.2-	960125 411	0.4+	0.3-	960223 411	0.0	0.3+
880515 675	0.6+	0.0	960125 411	0.3-	0.4-	960223 411	0.2-	0.6-
941107 675	0.4+	0.0	960130 411	0.2+	0.2+			
941107 675	0.3-	0.1-	960130 411	0.3+	0.0			

1996 BN₆

Id. E. Bowell (1993 observations), G. V. Williams (1994 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	226.51821	(2000.0)	P	Q
<i>n</i>	0.18918721	ω 239.52213	+0.68142120	+0.72879015
<i>a</i>	3.0052103	Ω 73.59238	-0.64514872	+0.64154070
<i>e</i>	0.1666365	<i>i</i> 4.02335	-0.34561289	+0.23935421
<i>P</i>	5.21	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

930725 675	0.2+	0.1+	951122 691	0.6-	0.1+	960125 691	0.4+	0.0
930725 675	0.2-	0.2-	951122 691	0.3-	0.4-	960125 691	0.5+	0.0
941228 691	0.1+	0.7+	960118 691	0.2-	0.2+	960210 691	0.2-	0.1-
941228 691	0.1-	0.3-	960118 691	0.1-	0.4+	960210 691	0.1+	0.0

M.P.C. 29114

941228 691 0.0 0.2− 960118 691 0.2− 0.1+ 960210 691 0.0 0.1−
 951122 691 0.0 0.6− 960125 691 0.4+ 0.0

1996 CS₈ = 1989 WD₅

Id. E. Bowell (1991 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	339.42303	ω	100.86410	−0.63770950	+0.76582414		
<i>a</i>	3.1250548	Ω	129.19064	−0.74182970	−0.58169800		
<i>e</i>	0.0929121	<i>i</i>	6.12561	−0.20740127	−0.27411828		
<i>P</i>	5.52	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

891129 033 0.1+ 0.1+ 960117 098 0.7+ 0.3− 960224 098 1.6− 0.9−
 891129 033 0.2− 0.4− 960214 098 0.5+ 0.3+ 960224 098 0.5− 0.2+
 910419 675 0.1− 0.2− 960214 098 0.2+ 0.3+ 960314 098 0.8+ 0.3+
 910419 675 0.1+ 0.1+ 960215 098 0.1+ 0.2+ 960320 098 0.4+ 0.1+
 960117 098 0.2− 1.3+ 960215 098 0.8+ 1.2− 960320 098 1.1− 0.1+

1996 DJ₁ = 1991 ET₆

Id. E. Bowell (1988 observations), G. V. Williams

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	121.24699	ω	163.06461	+0.10172572	−0.99464789		
<i>a</i>	2.9065051	Ω	281.09404	+0.91057262	+0.10042190		
<i>e</i>	0.0702248	<i>i</i>	1.05662	+0.40063622	+0.02431093		
<i>P</i>	4.96	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

880910 675 0.1− 1.0+ 960221 400 0.8+ 0.3+ 960323 566 0.2− 0.6+
 880910 675 0.2+ 1.3− 960221 400 0.3+ 0.1+ 960520 327 0.2− 0.2−
 910306 372 1.5− 1.4− 960313 400 0.1− 0.5+ 960520 327 0.2− 0.2+
 910306 372 0.4+ 1.3− 960313 400 0.0 1.0+ 960520 327 0.1+ 0.3−
 960220 400 0.8+ 0.2+ 960323 566 0.3− 0.1+
 960220 400 0.2+ 0.1− 960323 566 0.3− 0.1−

1996 FJ₁₈ = 1988 VY₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	356.45277	ω	249.29742	+0.09071575	+0.99511468		
<i>a</i>	2.9213814	Ω	26.00070	−0.87744721	+0.09836701		
<i>e</i>	0.1924128	<i>i</i>	5.09797	−0.47101704	+0.00840885		
<i>P</i>	4.99	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

881113 887 0.1+ 0.3− 960322 809 0.8− 0.4− 960326 809 0.6+ 0.1−
 881115 887 0.1− 0.3+ 960324 809 1.5+ 1.4+ 960326 809 0.3+ 0.1−
 960322 809 0.4+ 0.5− 960324 809 1.0− 0.8+ 960326 809 0.2+ 0.2−
 960322 809 0.4+ 0.5− 960324 809 1.5− 0.3−

1996 GO₁₈ = 1990 SZ₁₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	310.54072	ω	134.52591	+0.91220061	+0.40871427		
<i>a</i>	2.2664134	Ω	201.40090	−0.39487473	+0.85797638		
<i>e</i>	0.1335905	<i>i</i>	4.56303	−0.10938006	+0.31117387		
<i>P</i>	3.41	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	7

1997 FEB. 22

Residuals in seconds of arc

900921 809 0.1+ 0.0 960324 809 0.0 0.4− 960415 809 1.6− 1.2+
 900921 809 0.8+ 0.1+ 960324 809 0.6− 1.0− 960415 809 0.6− 0.7+
 900921 809 1.1+ 0.1+ 960324 809 1.3− 0.7− 960415 809 0.2− 0.4−
 900922 809 1.2− 0.3− 960327 809 1.7+ 1.3+ 960417 809 0.0 0.4+
 900922 809 0.7− 0.3− 960327 809 1.5+ 0.0 960417 809 0.5+ 0.2−
 900922 809 0.0 0.2+ 960327 809 0.5+ 0.8− 960417 809 0.2+ 0.4−

1996 HZ₁ = 1986 VC₂

Id. E. Bowell (1993 observations), S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	340.16609	ω	210.52907	+0.68392289	+0.72002852		
<i>a</i>	0.27059890	Ω	102.90615	−0.64263129	+0.67081898		
<i>e</i>	2.3672931	<i>i</i>	6.92412	−0.34536142	+0.17765365		
<i>P</i>	0.1212995	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

861103 010 0.3− 0.3− 960424 367 0.4− 0.6− 960512 367 0.1+ 0.9−
 861103 010 0.3+ 0.2− 960426 367 0.3+ 0.1+ 960512 367 0.5+ 0.3−
 861103 010 0.0 0.5+ 960426 367 0.1− 0.3+ 960516 367 0.3− 0.5−
 930817 675 0.5− 0.3+ 960512 691 0.4− 0.0 960516 367 0.3− 0.3−
 930817 675 0.5+ 0.4− 960512 691 0.5− 0.2+ 960605 367 1.0+ 0.4+
 960424 367 0.1+ 0.5+ 960512 691 0.6− 0.4+ 960605 367 0.7+ 0.6+

1996 PB₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	30.50246	ω	336.72406	+0.76968667	+0.63833989		
<i>a</i>	0.26868100	Ω	343.59513	−0.57990062	+0.69234238		
<i>e</i>	2.3785452	<i>i</i>	2.07553	−0.26701629	+0.33642862		
<i>P</i>	0.2145133	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

From 37 observations 1996 Aug. 8–Nov. 5, mean residual 0''38.

1996 PM₄ = 1983 GT₁ = 1988 CD₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	131.40012	ω	165.80331	−0.93793755	+0.34650002		
<i>a</i>	0.17306727	Ω	34.48111	−0.32063677	−0.85044941		
<i>e</i>	3.1890359	<i>i</i>	1.46991	−0.13215606	−0.39582008		
<i>P</i>	0.1321678	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

830409 095 0.1+ 0.1+ 960714 809 1.5+ 0.4− 960729 608 2.1− 0.2+
 880211 809 1.2− 2.6− 960714 809 0.8+ 0.2− 960812 566 0.1+ 0.1+
 880221 809 0.5+ 0.3− 960715 809 0.4+ 0.2− 960812 566 0.0 0.1+
 880221 809 0.1− 0.5− 960715 809 0.7+ 0.8− 960812 566 0.0 0.3+
 880221 809 0.7− 0.6− 960715 809 0.7+ 0.4− 960817 566 1.1− 0.1−
 880223 809 1.6+ 0.5+ 960721 809 0.8+ 0.4+ 960817 566 0.9− 0.1−
 880223 809 0.5+ 1.4+ 960721 809 0.3+ 1.4+ 960817 566 0.4− 0.4−
 880223 809 0.5− 2.4+ 960721 809 0.4− 0.7+
 960714 809 1.7+ 0.5− 960729 608 1.7− 0.4+

1996 PY₇ = 1949 WJ₁ = 1989 AH₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Ichikawa			
<i>M</i>	300.33025		(2000.0)	P		Q	
<i>n</i>	0.20616031	ω	279.96873	+0.68454668		-0.72782975	
<i>a</i>	2.8379148	Ω	126.75102	+0.68715572		+0.62561754	
<i>e</i>	0.0505932	<i>i</i>	2.91447	+0.24333692		+0.28083189	
<i>P</i>	4.78	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

491121	675	(6.8- 5.3+)	960808	809	1.0- 0.5-	960816	566	0.7- 0.2-
491121	675	0.2+ 0.5-	960808	809	0.4- 0.1-	960816	566	1.0- 0.2-
890104	413	0.2- 0.8+	960808	809	0.2- 0.7+	960816	566	0.9- 0.4+
890104	413	0.6- 0.2-	960809	809	2.1+ 0.5+	960908	809	0.3+ 0.3-
890110	413	0.7- 1.3+	960809	809	1.2+ 0.5+	960908	809	0.6- 0.5-
890110	413	1.9+ 0.1-	960809	809	1.2+ 1.1+	960908	809	0.4- 0.4+

1996 RC₁ = 1995 FY₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Ichikawa			
<i>M</i>	49.32754		(2000.0)	P		Q	
<i>n</i>	0.29705022	ω	173.34480	+0.66265535		+0.74837625	
<i>a</i>	2.2245874	Ω	138.15244	-0.68908939		+0.62425019	
<i>e</i>	0.1268392	<i>i</i>	2.46134	-0.29333207		+0.22415327	
<i>P</i>	3.32	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

950323	691	0.2+ 0.1+	960910	566	0.2+ 0.3-	960911	566	0.1- 0.1+
950323	691	0.2- 0.1+	960910	566	0.4- 0.5+	960914	566	0.2+ 0.2-
950323	691	0.1+ 0.2+	960910	566	0.2+ 0.3-	960914	566	0.5+ 0.0
950404	691	0.4+ 0.0	960910	566	0.4- 0.5+	960914	566	0.5+ 0.3-
950404	691	0.2- 0.3-	960910	566	0.0 0.6+	960915	566	0.2- 0.1+
950404	691	0.1- 0.0	960911	566	0.0 0.0	960915	566	0.4- 0.0
960910	566	0.1- 0.4-	960911	566	0.2+ 0.0	960915	566	0.2- 0.0

1996 RU₂ = 1993 TE₄₈ = 1995 DV₁₂

Id. K. Ichikawa (k), S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Nakano			
<i>M</i>	73.36101		(2000.0)	P		Q	
<i>n</i>	0.31111265	ω	241.55222	+0.28226781		+0.95927485	
<i>a</i>	2.1570371	Ω	44.84772	-0.87473045		+0.26198051	
<i>e</i>	0.1007591	<i>i</i>	0.87747	-0.39391816		+0.10563129	
<i>P</i>	3.17	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

931012	809	0.8- 1.2+	950222	033	0.2+ 0.2+	960911	691	0.5- 0.1-
931012	809	0.9- 0.4+	950223	033	0.5+ 0.0	960911	691	0.6- 0.4-
931012	809	1.3- 1.1+	950224	033	0.6- 0.1+	960911	691	0.4- 0.4-
931022	809	2.3+ 1.9-	960910	566	0.1- 0.2-	960915	566	0.7+ 0.4+
931022	809	0.8+ 0.7-	960910	566	0.1- 0.1+	960915	566	0.4+ 0.5+
931022	809	(11.0- 0.7+)	960910	566	0.0 0.0	960915	566	0.5+ 0.2+

1996 RJ₄ = 1995 JM₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Ichikawa			
<i>M</i>	112.54874		(2000.0)	P		Q	
<i>n</i>	0.23012378	ω	101.74297	-0.43578933		+0.89966661	
<i>a</i>	2.6373133	Ω	142.38637	-0.84160890		-0.39699347	
<i>e</i>	0.0917035	<i>i</i>	2.46246	-0.31903311		-0.18164847	
<i>P</i>	4.28	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

950505	010	0.5+ 0.8-	960911	566	0.2+ 0.1+	961005	809	1.4+ 0.6+
950505	010	1.3+ 0.1-	960911	566	0.3+ 0.2+	961005	809	0.1- 0.7-
950505	010	1.5+ 1.3-	960911	566	0.1+ 1.0-	961005	809	1.3- 0.2+
950508	010	2.0- 0.3+	960917	566	0.9+ 0.5-	961006	809	0.4- 0.4+
950508	010	1.3- 0.8+	960917	566	1.2- 0.6+	961006	809	0.5+ 0.2+
950508	010	0.1- 1.1+	960917	566	0.5- 0.1-	961006	809	0.1+ 0.1-

1996 RQ₂₀

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Marsden			
<i>M</i>	41.69919		(2000.0)	P		Q	
<i>n</i>	0.00301867	ω	288.61349	+0.47369167		+0.87434282	
<i>a</i>	47.4161194	Ω	11.53496	-0.46604176		+0.35055367	
<i>e</i>	0.2955333	<i>i</i>	31.85970	-0.74727590		+0.33561400	
<i>P</i>	327	<i>H</i>	7.0	<i>G</i>	0.15	<i>U</i>	5

From 24 observations 1996 Sept. 6-1997 Jan. 8, mean residual 0".42.

1996 RU₂₅ = 1994 CD₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Ichikawa			
<i>M</i>	64.24555		(2000.0)	P		Q	
<i>n</i>	0.17393190	ω	97.87856	+0.14237688		+0.98981252	
<i>a</i>	3.1784586	Ω	180.30686	-0.91211187		+0.13117878	
<i>e</i>	0.2109793	<i>i</i>	0.58516	-0.38442263		+0.05534715	
<i>P</i>	5.67	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

940212	691	0.4+ 0.3-	960913	566	0.3- 1.3-	961005	809	1.9- 1.1-
940212	691	1.0- 0.5-	960913	566	0.1- 0.1+	961005	809	1.6- 1.5-
940212	691	0.8+ 0.4-	960913	566	0.1+ 0.4-	961005	809	0.9- 0.6-
940216	691	0.1- 0.6+	960919	691	0.2- 0.9+	961006	809	1.8+ 1.0+
940216	691	0.1+ 0.4+	960919	691	0.1+ 1.1+	961006	809	1.8+ 0.8+
940216	691	0.1- 0.2+	960919	691	0.1+ 0.9+	961006	809	1.0+ 0.2+

1996 SJ₄ = 1976 QU = 1986 QT₅

Id. K. Ichikawa (k), S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Nakano			
<i>M</i>	30.46286		(2000.0)	P		Q	
<i>n</i>	0.29560098	ω	337.35315	+0.77979019		+0.62555785	
<i>a</i>	2.2318524	Ω	343.84986	-0.55999175		+0.67942178	
<i>e</i>	0.2008635	<i>i</i>	5.07165	-0.27988658		+0.38348849	
<i>P</i>	3.33	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

760826	095	0.4+ 0.6-	960921	327	0.3- 0.5+	960922	327	0.1+ 0.0
760828	675	0.3+ 0.4+	960921	327	0.3- 0.1+	961007	327	0.1+ 0.4-
760830	675	0.7- 0.0	960922	327	0.1- 0.3+	961007	327	0.0 0.2-
860831	095	0.4+ 0.2-	960922	327	0.2- 0.3+	961007	327	0.3+ 0.3-
960921	327	0.3- 0.3+	960922	327	0.5+ 0.3-			

1996 TD₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Williams	
<i>M</i>	6.68737	(2000.0)	P		Q	
<i>n</i>	0.22050349	ω	171.13877	+0.91159506	−0.38666486	
<i>a</i>	2.7134745	Ω	212.73803	+0.35958306	+0.91456967	
<i>e</i>	0.3894051	<i>i</i>	14.95818	+0.19923471	+0.11854367	
<i>P</i>	4.47	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i> 3

From 37 observations 1996 Oct. 12–1997 Jan. 14, mean residual 0^{''}.39.

1996 TO₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Williams	
<i>M</i>	291.67092	(2000.0)	P		Q	
<i>n</i>	0.22862373	ω	84.94221	−0.09274012	−0.99304430	
<i>a</i>	2.6488367	Ω	11.18627	+0.69904076	−0.11681803	
<i>e</i>	0.0824323	<i>i</i>	21.95803	+0.70904252	−0.01471631	
<i>P</i>	4.31	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i> 4

From 25 observations 1996 Sept. 15–1997 Feb. 1, mean residual 0^{''}.29.

1996 TQ₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Williams	
<i>M</i>	273.46097	(2000.0)	P		Q	
<i>n</i>	0.39954416	ω	112.41637	−0.74998840	−0.62906889	
<i>a</i>	1.8256864	Ω	29.82701	+0.34562917	−0.63621448	
<i>e</i>	0.2127130	<i>i</i>	24.26779	+0.56396620	−0.44665812	
<i>P</i>	2.47	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i> 4

From 30 observations 1996 Oct. 9–1997 Feb. 13, mean residual 0^{''}.49.

1996 TR₁₀ = 1951 KX = 1981 SB₁ = 1991 DB₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Ichikawa	
<i>M</i>	54.78047	(2000.0)	P		Q	
<i>n</i>	0.26571002	ω	144.09215	+0.57194235	+0.81799991	
<i>a</i>	2.3962425	Ω	160.56068	−0.78902164	+0.56903797	
<i>e</i>	0.2545741	<i>i</i>	10.61449	−0.22433636	+0.08409480	
<i>P</i>	3.71	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

510528 711	1.5−	1.3−	Y	910212 511	(1.8+	4.0−)	961009 399	0.1−	1.1−
810926 688	3.1+	0.4+		910212 511	1.2+	0.7+	961010 399	0.3−	0.2−
810926 688	(4.5+	0.8+)		910217 046	1.3−	1.7−	961010 399	0.1+	1.5−
811004 688	0.4+	0.5−		910217 046	(2.4+	5.7−)	961016 399	0.8−	0.8+
811004 688	0.2−	0.1−		910219 046	0.1−	0.2+	961016 399	1.6−	0.0
910210 675	1.5+	2.3−		910219 046	(3.7+	4.3+)			
910210 675	(0.5+	3.4−)		961009 399	0.1−	0.3−			

1996 TL₆₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Marsden	
<i>M</i>	358.26499	(2000.0)	P		Q	
<i>n</i>	0.00129331	ω	182.60504	+0.76432296	−0.59494237	
<i>a</i>	83.4325074	Ω	217.76084	+0.59872352	+0.79798615	
<i>e</i>	0.5793897	<i>i</i>	23.96238	+0.23945890	−0.09623766	
<i>P</i>	762	<i>H</i>	5.0	<i>G</i>	0.15	<i>U</i> 6

From 49 observations 1996 Oct. 9–1997 Feb. 11, mean residual 0^{''}.47.

1996 UJ₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Williams	
<i>M</i>	14.59137	(2000.0)	P		Q	
<i>n</i>	0.27399759	ω	314.35917	+0.93513121	−0.35216925	
<i>a</i>	2.3476763	Ω	66.29611	+0.33592931	+0.84648548	
<i>e</i>	0.2874629	<i>i</i>	2.42944	+0.11261046	+0.39929832	
<i>P</i>	3.60	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i> 4

From 19 observations 1996 Sept. 23–1997 Feb. 10, mean residual 0^{''}.50.

1996 UG₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Williams	
<i>M</i>	62.81857	(2000.0)	P		Q	
<i>n</i>	0.22579454	ω	286.30871	+0.68479435	+0.72071788	
<i>a</i>	2.6709172	Ω	27.86921	−0.54896779	+0.60748197	
<i>e</i>	0.2007940	<i>i</i>	13.33395	−0.47926095	+0.33396316	
<i>P</i>	4.37	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i> 6

From 13 observations 1996 Oct. 16–1997 Jan. 27, mean residual 0^{''}.38.

1996 VQ

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Williams	
<i>M</i>	301.12819	(2000.0)	P		Q	
<i>n</i>	0.19167344	ω	83.66689	−0.44897477	−0.88389225	
<i>a</i>	2.9791664	Ω	34.00668	+0.69891930	−0.43871861	
<i>e</i>	0.1324848	<i>i</i>	13.54404	+0.55671669	−0.16205086	
<i>P</i>	5.14	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i> 4

From 36 observations 1996 Nov. 4–1997 Jan. 29, mean residual 0^{''}.23.

1996 VS

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Williams	
<i>M</i>	126.11837	(2000.0)	P		Q	
<i>n</i>	0.17165077	ω	58.94570	−0.29731528	+0.95394683	
<i>a</i>	3.2065564	Ω	193.92866	−0.92270110	−0.29780715	
<i>e</i>	0.0770728	<i>i</i>	9.53234	−0.24541047	−0.03600491	
<i>P</i>	5.74	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i> 6

From 24 observations 1996 Nov. 2–1997 Jan. 30, mean residual 0^{''}.63.

1996 VE₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Nakano	
<i>M</i>	14.81887	(2000.0)	P		Q	
<i>n</i>	0.24314187	ω	271.42659	+0.78362057	−0.61249381	
<i>a</i>	2.5423161	Ω	126.35559	+0.60885408	+0.72396368	
<i>e</i>	0.0979909	<i>i</i>	7.41073	+0.12343225	+0.31737662	
<i>P</i>	4.05	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i> 4

From 28 observations 1996 Nov. 3–1997 Feb. 5, mean residual 0^{''}.72.

1996 VP₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					Nakano	
<i>M</i>	40.63600	(2000.0)	P		Q	
<i>n</i>	0.22869068	ω	82.87940	+0.96365456	+0.13375573	
<i>a</i>	2.6483197	Ω	269.23960	−0.21676096	+0.89745362	
<i>e</i>	0.2878809	<i>i</i>	13.37222	+0.15615562	+0.42034082	
<i>P</i>	4.31	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i> 4

From 18 observations 1996 Nov. 6–1997 Feb. 4, mean residual 0^{''}.42.

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1996 VS₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	322.34093		(2000.0)	P	Q
<i>n</i>	0.36746073	ω	51.41060	-0.18255186	-0.93244083
<i>a</i>	1.9304657	Ω	52.05061	+0.73338812	-0.34036888
<i>e</i>	0.0899873	<i>i</i>	23.29260	+0.65484096	+0.12125643
<i>P</i>	2.68	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	4

From 42 observations 1996 Nov. 8–1997 Jan. 30, mean residual 0^{''}.57.

1996 VM₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	53.71358		(2000.0)	P	Q
<i>n</i>	0.19803269	ω	92.92433	+0.99970635	+0.01260915
<i>a</i>	2.9150418	Ω	266.35383	-0.01978347	+0.91782940
<i>e</i>	0.0650087	<i>i</i>	1.18814	+0.01399384	+0.39677474
<i>P</i>	4.98	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	5

From 16 observations 1996 Nov. 6–1997 Feb. 4, mean residual 0^{''}.31.

1996 VL₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	93.13642		(2000.0)	P	Q
<i>n</i>	0.20969523	ω	260.91470	+0.70350075	+0.70899790
<i>a</i>	2.8059312	Ω	53.91272	-0.62586950	+0.65077283
<i>e</i>	0.0762636	<i>i</i>	3.48179	-0.33671066	+0.27169229
<i>P</i>	4.70	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	5

From 33 observations 1996 Nov. 6–1997 Feb. 10, mean residual 0^{''}.54.

1996 VO₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	64.19124		(2000.0)	P	Q
<i>n</i>	0.36835544	ω	289.04569	+0.88911070	+0.33538299
<i>a</i>	1.9273385	Ω	52.61556	-0.09915504	+0.80546097
<i>e</i>	0.0870202	<i>i</i>	23.07694	-0.44682260	+0.48862141
<i>P</i>	2.68	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	5

From 28 observations 1996 Nov. 6–1997 Jan. 28, mean residual 0^{''}.49.

1996 VM₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	258.84611		(2000.0)	P	Q
<i>n</i>	0.25808886	ω	73.43062	-0.94829181	-0.30500519
<i>a</i>	2.4431860	Ω	88.74457	+0.24727884	-0.88342804
<i>e</i>	0.0707686	<i>i</i>	5.04012	+0.19898698	-0.35570597
<i>P</i>	3.82	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	5

From 37 observations 1996 Nov. 13–1997 Feb. 2, mean residual 0^{''}.39.

1996 VT₅ = 1989 WY₃

Id. S. Nakano					
Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	5.87609		(2000.0)	P	Q
<i>n</i>	0.28221174	ω	326.12986	+0.55336007	-0.82245912
<i>a</i>	2.3018976	Ω	89.93757	+0.79043861	+0.46863853
<i>e</i>	0.0996771	<i>i</i>	7.56976	+0.26267743	+0.32239561
<i>P</i>	3.49	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	4

1997 FEB. 22

Residuals in seconds of arc

891128 033	2.4–	0.0	961115 411	0.9+	0.3–	961208 411	0.1+	0.1–
891129 033	0.7+	1.0–	961115 411	0.0	0.2–	970111 327	0.4–	0.0
891202 033	2.2–	0.1–	961119 411	0.4+	0.4+	970111 327	0.1+	0.2–
891203 033	2.3+	0.3–	961119 411	0.5+	1.0+	970111 327	0.4–	0.1+
891203 033	2.3+	1.0–	961130 411	1.3–	0.4–	970123 327	0.1+	0.2+
961114 411	0.1–	0.3+	961130 411	1.0–	0.3+	970123 327	0.3+	0.1+
961114 411	0.2–	1.5+	961208 411	0.2+	0.4–	970123 327	0.3+	0.6+

1996 VN₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	136.09976		(2000.0)	P	Q
<i>n</i>	0.24521865	ω	1.13054	+0.97836461	+0.19794807
<i>a</i>	2.5279417	Ω	346.97418	-0.19184947	+0.75920399
<i>e</i>	0.1468388	<i>i</i>	15.48083	-0.07743693	+0.62002086
<i>P</i>	4.02	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	7

From 8 observations 1996 Nov. 13–1997 Feb. 3, mean residual 0^{''}.58.

1996 VH₈ = 1982 UZ₁₁ = 1989 UK₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	10.08184		(2000.0)	P	Q
<i>n</i>	0.28562216	ω	11.27835	+0.81416317	-0.57837036
<i>a</i>	2.2835374	Ω	24.27877	+0.52255796	+0.69139231
<i>e</i>	0.1453010	<i>i</i>	7.15941	+0.25312351	+0.43297161
<i>P</i>	3.45	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

821015 413	0.3–	0.7–	961103 400	0.1+	1.6+	961108 400	1.2–	0.8–
821015 413	0.5+	0.5–	961103 400	0.9+	1.1+	961113 400	0.1–	0.4+
821022 095	0.7–	2.3+	961107 400	0.9+	0.9–	961113 400	0.1+	0.7+
891030 807	0.6+	0.7–	961107 400	0.6+	0.3–	961116 400	0.0	0.1+
891101 807	0.1+	1.0–	961108 400	1.6–	1.2–	961116 400	0.0	0.0

1996 VL₈ = 1989 NZ = 1991 AR₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5					
<i>M</i>	54.41260		(2000.0)	P	Q
<i>n</i>	0.29772762	ω	36.81730	+0.88694656	+0.45756581
<i>a</i>	2.2212117	Ω	295.83890	-0.43867774	+0.79192198
<i>e</i>	0.2164185	<i>i</i>	4.00898	-0.14452556	+0.40434281
<i>P</i>	3.31	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

890701 675	0.1+	0.0	910115 033	0.8–	0.2–	961108 400	1.3+	0.0
890701 675	0.9+	0.4–	910116 033	0.4+	0.9+	961113 400	0.5–	0.4+
890703 675	0.6–	0.0	961106 400	0.6–	2.0–	961113 400	1.5–	0.1+
890703 675	0.2–	0.0	961106 400	1.6–	1.0–	961116 400	0.0	0.3+
910115 033	0.9–	0.1–	961107 400	1.7+	0.3–	961116 400	0.0	0.4+
910115 033	1.5+	0.7–	961107 400	0.9+	1.6+			
910115 033	0.3–	0.6–	961108 400	0.2+	0.4+			

1996 VN₈ = 1974 VF = 1992 PN₃

Id. K. Ichikawa

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1997 FEB. 22

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5			Williams			
<i>M</i>	10.35700	(2000.0)	P	Q		
<i>n</i>	0.26852863	ω 345.60253	+0.87433796	-0.48394633		
<i>a</i>	2.3794449	Ω 43.40233	+0.45035332	+0.78105854		
<i>e</i>	0.2067341	<i>i</i> 3.04139	+0.18087295	+0.39464353		
<i>P</i>	3.67	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

741112 095	2.2-	0.0	961005 327	1.0+	0.6+	961115 399	0.7-	0.9-
741117 095	2.4+	0.3-	961005 327	1.5+	0.3+	961115 399	1.0-	0.5-
920805 675	0.3-	0.3+	961106 399	1.2-	0.5-	970115 566	0.4+	0.6+
920805 675	1.1+	1.0-	961107 399	0.5-	0.2+	970115 566	0.8+	0.3+
920806 675	0.0	0.2+	961107 399	1.1+	0.3-	970115 566	0.4+	0.3+
920806 675	0.8-	0.4+	961112 399	0.9-	0.1+			
961005 327	1.1+	1.0+	961112 399	1.2-	0.5-			

1996 VV₈ = 1990 WP₂ = 1990 WM₇

Id. K. Ichikawa, S. Nakano (d)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5			Ichikawa			
<i>M</i>	47.83823	(2000.0)	P	Q		
<i>n</i>	0.17375363	ω 293.89108	+0.95081088	+0.16620353		
<i>a</i>	3.1806323	Ω 57.51761	-0.00217582	+0.84744040		
<i>e</i>	0.0985474	<i>i</i> 18.05260	-0.30976433	+0.50420348		
<i>P</i>	5.67	<i>H</i> 12.3	<i>G</i> 0.15	<i>U</i> 6		

Residuals in seconds of arc

901119 413	1.7-	1.0+	961107 400	1.6+	0.3+	961113 400	0.0	0.5+
901119 413	1.5-	1.1+	961107 400	1.7+	0.8+	961113 400	0.2-	0.1+
901121 372	2.6+	2.0-	961108 400	1.4-	0.1-	961116 400	0.9-	0.3-
901123 372	0.7+	0.3-	961108 400	0.4-	1.0-	961116 400	0.4-	0.3-

1996 VY₂₉ = 1982 SW₁ = 1982 UF₅ = 1989 UC

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	69.03149	(2000.0)	P	Q		
<i>n</i>	0.28448251	ω 135.77081	+0.78134914	+0.62407366		
<i>a</i>	2.2896319	Ω 185.62183	-0.58596655	+0.73080105		
<i>e</i>	0.1628010	<i>i</i> 2.95953	-0.21479460	+0.27651742		
<i>P</i>	3.46	<i>H</i> 14.1	<i>G</i> 0.15	<i>U</i> 5		

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

820915 010	0.0	0.4-	891023 403	2.6-	1.0+	961112 399	0.1+	0.9-
820916 010(0.00+ 0.08+)			891023 403	0.7-	1.3+	961115 399	0.8-	0.3-
821020 033	0.5+	1.1-	961107 399	0.3-	0.3+	961115 399	0.0	1.7+
891020 403	2.4+	0.6+ Y	961107 399	2.2+	0.7-			
891020 403 (6.3+ 1.9+)Y			961112 399	0.9-	1.6-			

1996 VB₃₀ = 1995 HH₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	41.14778	(2000.0)	P	Q		
<i>n</i>	0.26014478	ω 195.36510	+0.96959888	+0.24366729		
<i>a</i>	2.4302967	Ω 150.50262	-0.21942695	+0.90640559		
<i>e</i>	0.2352232	<i>i</i> 2.61395	-0.10830428	+0.34504370		
<i>P</i>	3.79	<i>H</i> 14.7	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

950428 691	0.2-	0.3+	950501 691	0.2+	0.2-	961112 399	0.2-	1.8-
950428 691	0.1-	0.1+	950501 691	0.0	0.0	961112 399	1.5+	0.5-

950428 691	0.2-	0.0	961107 399	0.7-	0.4+	961115 399	0.7-	0.7+
950501 691	0.3+	0.2-	961107 399	0.5+	0.4+	961115 399	0.5-	0.8+

1996 VM₃₀ = 1958 VK = 1989 UG₉ = 1989 VW₅

Id. K. Ichikawa, S. Nakano (d)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5			Ichikawa			
<i>M</i>	28.07314	(2000.0)	P	Q		
<i>n</i>	0.28545945	ω 326.81622	+0.96971160	-0.21482377		
<i>a</i>	2.2844050	Ω 46.05308	+0.24406759	+0.83370130		
<i>e</i>	0.2064138	<i>i</i> 9.29042	+0.00950947	+0.50871690		
<i>P</i>	3.45	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

581111 760	0.3-	0.0	891103 675	0.8+	0.6-	961112 399	0.2-	0.2+
581111 760	0.8+	1.2-	891104 675	0.4+	1.5-	961112 399	0.4-	0.7-
891030 095 (5.6+ 5.3-)			891104 675	0.5+	1.0-	961115 399	0.2+	0.2+
891030 095	1.5-	3.4+	961107 399	0.8+	0.5+	961115 399	1.0-	0.3+
891103 675	0.2-	0.5-	961107 399	0.2+	0.9+			

1996 WY

Id. E. Bowell (1991 observations), G. V. Williams (1992 observations)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5			Williams			
<i>M</i>	54.87574	(2000.0)	P	Q		
<i>n</i>	0.28057457	ω 301.75690	+0.99014705	-0.08197319		
<i>a</i>	2.3108434	Ω 63.16455	+0.12460626	+0.88569089		
<i>e</i>	0.1220541	<i>i</i> 7.30971	-0.06389125	+0.45698145		
<i>P</i>	3.51	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

910419 675	0.6-	0.3-	961121 411	0.1-	0.2+	961219 411	0.3+	0.7+
910419 675	0.6+	0.4+	961121 411	0.3+	0.2+	961219 411	0.2-	0.5+
920925 801	0.0	0.3-	961130 411	0.4+	1.1-	961228 411	1.0-	1.2+
920925 801	0.1-	0.5+	961130 411	0.1-	0.3-	961228 411	0.8-	0.2-
961119 411	1.3+	0.1+	961206 411	1.4-	0.9-			
961119 411	1.7+	0.6+	961206 411	0.5-	1.1-			

1996 XF₁₄ = 1995 VE₁₀

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	192.33832	(2000.0)	P	Q		
<i>n</i>	0.27731299	ω 76.35308	+0.18106865	+0.98339274		
<i>a</i>	2.3289271	Ω 204.08954	-0.91362123	+0.16354206		
<i>e</i>	0.2176933	<i>i</i> 1.73583	-0.36401976	+0.07869380		
<i>P</i>	3.55	<i>H</i> 15.1	<i>G</i> 0.15	<i>U</i> 5		

Residuals in seconds of arc

951115 691	0.9+	0.0	951125 691	0.3+	0.2+	961211 691	0.1+	0.0
951115 691	0.3+	0.2-	951125 691	0.2+	0.2+	961211 691	0.1+	0.0
951115 691	0.3+	0.4-	951125 691	0.4+	0.1-	961211 691	0.3-	0.2+
951119 691	1.3-	0.6+	961204 691	0.4+	0.0	961215 691	0.3-	0.0
951119 691	0.8-	0.2+	961204 691	0.2-	0.2-	961215 691	0.3+	0.2-
951119 691	0.2-	0.4-	961204 691	0.4-	0.1-	961215 691	0.3+	0.2+

1996 XJ₁₅ = 1991 NM₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26016552	ω	210.13291	+0.60539125	+0.78799094		
<i>a</i>	2.4301676	Ω	97.35422	-0.70581551	+0.59660603		
<i>e</i>	0.1740920	<i>i</i>	6.49137	-0.36786667	+0.15209051		
<i>P</i>	3.79	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

910706	809	0.5-	0.1-	961208	327	0.4-	0.3-	961218	327	1.1-	0.1+
910706	809	0.4-	0.1+	961210	327	0.3+	0.1-	961218	327	0.2+	0.4-
910706	809	0.2-	0.1+	961210	327	0.6+	0.1+	961218	327	0.1-	0.4+
910707	809	0.2+	0.0	961210	327	0.1-	0.6+	961219	327	0.1+	0.1-
910707	809	0.8+	0.0	961211	327	0.2+	0.1-	961219	327	0.3+	0.0
961208	327	0.0	0.4-	961211	327	0.1+	0.2+	961219	327	0.5+	0.0
961208	327	0.8-	0.0	961211	327	0.2+	0.0				

1996 XH₁₈ = 1993 FM₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21308122	ω	300.13268	+0.44044084	-0.88521828		
<i>a</i>	2.7761266	Ω	122.98991	+0.87282481	+0.38317126		
<i>e</i>	0.1590297	<i>i</i>	10.27879	+0.21021110	+0.26375819		
<i>P</i>	4.63	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

930323	010	0.8+	0.8-	961212	691	0.3-	0.1-	970201	691	0.3-	0.0
930323	010	0.3-	0.3-	961212	691	0.4-	0.2+	970204	327	0.3+	0.2+
930323	010	0.8+	1.3-	961212	691	0.7-	0.0	970204	327	0.1+	0.1+
930325	010	1.3-	2.3+	970131	691	0.5-	0.1-	970204	327	0.1-	0.8+
961207	691	0.4+	0.0	970131	691	0.9-	0.1-	970206	327	1.5+	0.1-
961207	691	0.4+	0.0	970201	691	0.4-	0.8-	970206	327	0.2+	0.2+
961207	691	0.6+	0.0	970201	691	0.5-	0.3-	970206	327	0.7+	0.2+

1996 XQ₃₂ = 1974 FB = 1981 JC₄ = 1991 HE₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29239564	ω	248.17263	-0.33624992	-0.94064335		
<i>a</i>	2.2481336	Ω	221.56656	+0.88769182	-0.30020836		
<i>e</i>	0.0978345	<i>i</i>	3.98501	+0.31454606	-0.15831940		
<i>P</i>	3.37	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

740322	805	0.1-	0.8-	910419	809	0.1+	1.1+	961207	399	0.8-	0.5+
740323	805	0.4-	0.6-	910419	809	0.1-	0.6+	961215	399	1.0+	0.5+
810508	675	0.1+	0.7-	961206	399	0.1+	0.2+	961215	399	0.7+	0.3+
810509	675	0.3-	0.0	961206	399	0.3-	1.1-				
910419	809	0.7+	0.8+	961207	399	0.6-	0.1+				

1996 YN₂ = 1989 YY₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28190683	ω	152.52651	+0.73113263	-0.68098765		
<i>a</i>	2.3035571	Ω	250.45707	+0.61763359	+0.68636713		
<i>e</i>	0.1737775	<i>i</i>	2.50824	+0.28978238	+0.25525670		
<i>P</i>	3.50	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

891225	033	0.3-	0.3-	961229	411	0.4+	0.3+	970115	411	0.4+	0.1+
891226	033	0.2+	0.1+	961229	411	0.1+	0.2+	970126	411	0.3-	0.8-
891226	033	0.0	0.1+	970106	411	0.2+	0.1+	970126	411	0.2+	0.5+
961228	411	0.5-	0.7-	970106	411	0.8-	0.0				
961228	411	0.2+	0.1+	970115	411	0.0	0.3+				

1996 YO₂ = 1977 XS

Id. T. Urata

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20637582	ω	30.82026	-0.27595720	-0.95965102		
<i>a</i>	2.8359387	Ω	75.24492	+0.87008171	-0.27328936		
<i>e</i>	0.0425423	<i>i</i>	3.20199	+0.40841821	-0.06620306		
<i>P</i>	4.78	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

771207	675	0.6+	0.7-	961229	369	0.0	0.2+	970201	369	1.1+	0.9-
771208	675	0.4-	0.4-	961229	369	0.3-	0.4-	970201	369	0.7+	1.0+
961228	369	0.4-	0.6-	970102	369	0.1+	1.4+	970206	691	1.1-	0.2+
961228	369	0.5+	0.2+	970102	369	0.4-	0.1+	970206	691	0.9-	0.2+
961228	369	0.1+	0.1-	970102	369	0.1-	0.3+	970206	691	0.6-	0.0
961229	369	0.0	0.1-	970201	369	0.9+	0.0				

1996 YQ₂ = 1991 KB₂ = 1992 SJ₂₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27528732	ω	315.25212	+0.65661860	-0.74763456		
<i>a</i>	2.3403380	Ω	93.43913	+0.71689131	+0.57768756		
<i>e</i>	0.1412748	<i>i</i>	5.71907	+0.23434776	+0.32759677		
<i>P</i>	3.58	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

910517	809	0.9+	0.1-	961229	411	0.2-	0.4-	961230	369	0.1-	0.3+
910517	809	0.6-	0.2+	961229	369	0.1+	0.1-	961230	369	0.0	0.0
910517	809	0.2-	0.2+	961229	369	0.2-	0.2+	961230	369	0.2-	0.1-
920929	675	0.2+	0.1-	961230	411	0.3-	0.6+	970106	411	0.2-	0.0
920929	675	(3.3+	1.1+)	961230	411	0.0	0.2-	970106	411	0.1+	0.2-
921004	675	0.7+	0.3+	961230	369	0.1-	0.2-	970126	411	0.7+	1.1-
921004	675	1.0-	0.2-	961230	369	0.2-	1.3+	970126	411	1.4+	0.1+
961229	411	0.6-	0.2+	961230	369	0.1+	0.3-				

1996 YP₃ = 1990 HV₁

Id. G. V. Williams, G. Forti

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23759405	ω	178.95985	-0.45626321	+0.85890393		
<i>a</i>	2.5817391	Ω	63.85807	-0.81827635	-0.30226577		
<i>e</i>	0.0653473	<i>i</i>	15.01770	-0.34963939	-0.41342405		
<i>P</i>	4.15	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

900427	413	0.2+	0.2-	961229	587	0.2-	0.7+	970113	587	0.9+	0.2+
900427	413	0.2-	0.4+	970110	587	0.4-	1.3-	970113	587	1.1-	0.4+
900429	413	0.9-	1.1-	970110	587	1.6+	0.6+	970128	587	0.1+	0.7-
900429	413	0.9+	0.8+	970110	587	0.2+	0.8+	970128	587	0.3-	0.7+
961229	587	0.1-	0.9-	970111	587	0.7-	0.4-				

1997 AR = 1987 QQ₂ = 1994 JQ₈

Id. K. Ichikawa

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	221.46280		(2000.0)	P		Q	
<i>n</i>	0.26335547	ω	323.22788	-0.24376545		+0.96925130	
<i>a</i>	2.4105038	Ω	292.64157	-0.88090630		-0.23578150	
<i>e</i>	0.1399422	<i>i</i>	2.08761	-0.40568767		-0.07042013	
<i>P</i>	3.74	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

870822	809	0.3-	0.3+	970103	411	0.0	0.8+	970114	411	1.1+	0.6+
870822	809	0.0	0.6+	970106	721	1.0-	0.5+	970114	411	0.9+	0.6+
870822	809	(3.5+	0.3+)	970106	721	0.9+	0.5-	970126	411	0.6+	0.9+
940503	474	0.1+	1.2-	970106	721	0.3+	0.1-	970126	411	2.0+	1.5+
940503	474	0.7-	0.5+	970106	721	2.1-	0.4-	970204	691	0.7-	0.7-
940504	474	0.1-	0.8+	970107	721	1.0+	0.2-	970204	691	0.9-	0.1-
940504	474	0.8+	0.1+	970107	721	0.3-	0.3-	970204	691	0.7-	0.4-
970102	411	0.5-	0.5+	970107	721	0.3+	0.3-	970209	691	0.1-	0.1+
970102	411	0.1+	1.0-	970109	411	0.7-	0.1-	970209	691	0.3+	0.1-
970103	411	1.6-	0.1+	970109	411	1.1+	0.4-	970209	691	0.3+	0.0

1997 AA₁ = 1972 TR₁ = 1978 TZ₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	51.08516		(2000.0)	P		Q	
<i>n</i>	0.17112266	ω	341.31525	+0.84124318		-0.54000769	
<i>a</i>	3.2131502	Ω	51.39787	+0.50026218		+0.75887425	
<i>e</i>	0.1978770	<i>i</i>	1.94236	+0.20505529		+0.36400765	
<i>P</i>	5.76	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

721006	095	0.7-	1.7-	970107	411	0.2-	0.1+	970118	369	0.6+	0.2+
721007	095	1.3+	0.4+	970107	411	0.4+	0.2-	970118	369	0.3-	1.3+
781009	095	1.7-	1.1+	970115	411	0.7+	0.2-	970118	369	(0.0	3.3+)
781101	095	1.2+	0.5+	970115	411	0.4-	0.1-	970126	411	0.0	0.2-
970102	411	0.9-	0.5-	970115	411	0.4+	0.5+	970126	411	0.4+	0.2-
970102	411	1.1-	0.0	970115	369	0.3+	0.8-	970206	369	0.2-	1.0+
970103	411	0.3-	0.7+	970115	369	0.5+	1.3-	970206	369	0.2+	0.1-
970103	411	0.0	0.3-	970115	369	0.2-	0.4-				

1997 AT₁ = 1952 BC₂ = 1969 AF₁ = 1979 YH = 1990 WZ₁₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Urata

<i>M</i>	346.07524		(2000.0)	P		Q	
<i>n</i>	0.17431252	ω	175.81214	-0.38727740		-0.90109293	
<i>a</i>	3.1738300	Ω	296.87511	+0.83940563		-0.25711012	
<i>e</i>	0.1059602	<i>i</i>	12.63132	+0.38133242		-0.34917892	
<i>P</i>	5.65	<i>H</i>	11.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

520129	711	(4.0+	8.1-)	Y	970102	905	0.7+	0.2+	970109	385	1.5-	0.8+
690115	095	1.4+	2.2+		970103	905	1.1+	0.8-	970109	385	0.4-	0.5+
791225	046	0.3-	0.3-		970103	905	0.5+	1.1-	970209	905	0.2-	0.1-
791225	046	0.2-	0.3-		970104	901	0.4+	0.2+	970209	905	0.1+	0.3+
901120	095	0.7+	1.5+		970104	901	1.3+	1.6-	970209	905	0.3-	0.1+
901120	095	0.4-	0.3+		970107	901	2.1-	1.5-	970211	385	0.3-	0.1+
970102	905	0.7+	0.5+		970107	901	0.8-	0.5-	970211	385	0.5-	0.0

1997 AB₂ = 1978 NP₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Marsden

<i>M</i>	247.82902		(2000.0)	P		Q	
<i>n</i>	0.23967247	ω	113.25397	-0.75687491		+0.60051320	
<i>a</i>	2.5667916	Ω	104.64977	-0.65335642		-0.68538236	
<i>e</i>	0.0155029	<i>i</i>	15.46145	-0.01630234		-0.41186760	
<i>P</i>	4.11	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

780710	675	1.2+	4.2-	Y	970126	411	0.5-	1.5+	970207	596	0.4-	0.7+
780711	675	1.2-	3.8+	Y	970126	411	0.0	0.2+	970207	596	0.1-	0.5-
970103	411	1.3+	0.5-		970202	684	0.1+	0.1-	970208	596	0.1-	0.9+
970103	411	0.3+	0.7+		970202	684	0.2-	0.0	970208	596	0.8-	0.7-
970104	411	0.3-	0.5+		970202	684	0.2-	0.2-	970208	596	0.6+	0.1-
970104	411	0.5-	0.3+		970206	657	0.4+	0.4-	970209	596	0.1-	0.1+
970108	411	0.7-	0.3-		970206	657	0.1-	0.3-	970209	596	0.3+	0.4+
970108	411	0.4-	0.1-		970206	657	0.8+	0.5+	970209	596	0.2+	0.5-
970116	411	0.2+	1.2-		970206	657	0.5-	0.6+				
970116	411	0.6+	1.0-		970207	596	0.1+	0.9-				

1997 AK₂ = 1995 XL₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	359.46987		(2000.0)	P		Q	
<i>n</i>	0.19091502	ω	54.78924	-0.30973172		-0.95062851	
<i>a</i>	2.9870511	Ω	53.26524	+0.86435914		-0.28995621	
<i>e</i>	0.2166711	<i>i</i>	1.37848	+0.39616858		-0.11059309	
<i>P</i>	5.16	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

951215	327	0.9+	0.2+		970103	411	0.4+	0.0	970115	411	0.3+	0.0
951215	327	0.7-	0.8-		970103	411	0.2+	0.2+	970115	411	0.3-	0.2-
951215	327	0.2-	0.5-		970104	411	0.1+	0.5+	970127	411	0.1-	0.0
951216	327	0.1-	0.4+		970104	411	0.8-	0.2-	970127	411	0.1+	0.2+
951216	327	0.4-	0.4+		970110	411	0.4-	0.1-				
951216	327	0.5+	0.3+		970110	411	0.5+	0.4-				

1997 AY₂ = 1984 WD₁ = 1990 XL = 1992 DX₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	77.13898		(2000.0)	P		Q	
<i>n</i>	0.17476902	ω	279.91011	+0.97237202		-0.14670651	
<i>a</i>	3.1683009	Ω	88.69179	+0.20873692		+0.89466805	
<i>e</i>	0.2290037	<i>i</i>	10.46433	-0.10450622		+0.42195530	
<i>P</i>	5.64	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

841127	046	1.2+	0.7+		920228	033	0.6-	0.3+	970110	411	0.2-	0.2-
841127	046	1.6+	0.3-		920228	033	0.1-	0.2-	970110	411	0.2-	0.4+
841128	046	2.3-	1.3-		920229	033	0.5+	0.4-	970115	411	0.1+	0.6+
841128	046	0.8-	1.7+		970104	411	0.2+	1.1-	970115	411	0.5+	0.5+
841130	046	(3.8-	2.9+)		970104	411	0.2+	0.3+	970127	411	0.1+	0.2+
841201	046	(1.2-	2.8+)		970106	411	0.3-	0.9+	970127	411	0.3-	0.1+
901213	889	0.2+	2.1-		970106	411	0.1+	0.0				

1997 AW₃ = 1980 DH₄ = 1994 EC₃

Id. S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	348.17568		(2000.0)	P	Q
<i>n</i>	0.28684341	ω	343.13547	-0.41929270	-0.90497243
<i>a</i>	2.2770512	Ω	131.59046	+0.84368648	-0.41780602
<i>e</i>	0.0536117	<i>i</i>	5.54276	+0.33524134	-0.08039296
<i>P</i>	3.44	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

800220	095	0.1+	0.4+	970106	411	0.6+	0.4+	970116	411	0.3-	0.4+
940312	098	0.3-	1.1+	970107	411	0.5+	0.7-	970126	411	1.1+	0.3-
940313	098	0.2-	0.6-	970107	411	0.2+	0.6-	970126	411	1.0+	0.8-
940314	098	0.4+	0.1+	970111	411	0.2-	0.5+	970214	691	1.0-	0.4+
940314	098	0.2-	1.1-	970111	411	0.5-	0.4+	970214	691	1.1-	0.6+
970106	411	0.1-	1.3-	970116	411	0.2-	0.2+	970214	691	0.4-	0.6+

1997 AX₃ = 1979 WN₄ = 1989 WL₃ = 1992 PD₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	81.54293		(2000.0)	P	Q
<i>n</i>	0.29936610	ω	80.68390	+0.99680607	-0.03292428
<i>a</i>	2.2130996	Ω	281.17779	+0.00021106	+0.91214286
<i>e</i>	0.1924575	<i>i</i>	4.25321	+0.07985992	+0.40854792
<i>P</i>	3.29	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

791117	095	0.3-	0.5+	920806	675	0.9+	0.6-	970111	411	1.3-	0.9-
891126	364(33.2+ 18.6+)			920806	675	0.7+	0.3-	970116	411	0.8-	0.6-
891126	364(33.8+ 17.9+)			970106	411	0.7+	0.4+	970116	411	1.2-	1.0-
891201	364	0.6+	1.0+	970106	411	0.9+	0.2+	970127	411	0.2+	0.3-
891201	364	0.6-	0.4-	970107	411	0.5+	0.1-	970127	411	0.2+	0.2-
920803	675	0.3+	1.2-	970107	411	0.1-	0.6-				
920803	675	0.8-	0.7-	970111	411	0.3-	0.6-				

1997 AC₄ = 1973 QQ = 1977 UY₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	157.78774		(2000.0)	P	Q
<i>n</i>	0.27144627	ω	329.60571	+0.66253581	+0.74893249
<i>a</i>	2.3623639	Ω	341.87873	-0.67915445	+0.59383696
<i>e</i>	0.2286542	<i>i</i>	2.22971	-0.31590432	+0.29403705
<i>P</i>	3.63	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

730827	095	1.4+	0.2+	970106	411	0.7-	0.7-	970116	411	0.0	0.1+
730831	095	0.6-	0.3-	970107	411	0.4-	0.2-	970127	411	0.0	0.2-
730903	095	(6.4- 0.8-)		970107	411	0.1+	0.5+	970127	411	0.1-	0.1+
730905	095	0.2-	1.3-	970111	411	1.1-	0.0	970204	566	0.0	0.9-
771020	033	0.2-	1.0+	970111	411	0.4-	0.5+	970204	566	0.2+	1.0-
970106	411	0.3+	1.0+	970116	411	1.2+	0.4-	970204	566	0.1+	0.7-

1997 AE₄ = 1981 WB₈ = 1983 JK = 1990 RA₁₅

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Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	337.83978		(2000.0)	P	Q
<i>n</i>	0.20304018	ω	11.53255	-0.74201761	-0.66358003
<i>a</i>	2.8669144	Ω	126.46782	+0.60525965	-0.72422492
<i>e</i>	0.2034124	<i>i</i>	6.80177	+0.28821975	-0.18750949
<i>P</i>	4.85	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

811125	095	0.2-	0.4+	970107	411	0.3+	0.3+	970206	385	0.6+	0.0
830507	688	(8.3- 0.9+)		970111	411	0.1-	0.5+	970206	385	0.5+	0.1-
830507	688	0.4-	1.4-	970111	411	0.0	0.9+	970207	691	0.5-	0.3-
900914	809	0.3-	0.8-	970116	411	0.0	0.1-	970207	691	0.3-	0.4-
900914	809	1.1+	0.8-	970116	411	0.1+	0.1+	970207	691	0.4-	0.5-
900914	809	0.2+	1.1-	970127	411	0.3+	0.4-	970214	691	1.3-	0.0
970106	411	0.6+	0.6-	970127	411	0.4+	0.4-	970214	691	1.2-	0.1+
970106	411	0.3+	0.1+	970201	905	0.9+	0.2-	970214	691	1.6-	0.3+
970107	411	0.4+	0.0	970201	905	0.5+	1.0-				

1997 AK₄ = 1971 DJ = 1994 NK₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	12.87946		(2000.0)	P	Q
<i>n</i>	0.18927568	ω	168.49029	+0.02977898	-0.99863719
<i>a</i>	3.0042738	Ω	279.79258	+0.91358851	+0.04458997
<i>e</i>	0.1915029	<i>i</i>	2.49279	+0.40554809	-0.02712005
<i>P</i>	5.21	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

710218	095	0.4-	1.2-	940712	809	1.1-	0.4+	970111	411	0.4+	0.2+
940711	809	0.8+	0.4+	970106	411	0.3+	0.5-	970116	411	0.4+	0.5+
940711	809	0.3-	0.9-	970106	411	0.1-	1.3+	970116	411	0.1-	0.3+
940711	809	0.4+	0.1-	970107	411	0.1+	0.4+	970127	411	0.1+	0.1+
940712	809	0.6-	0.8+	970107	411	0.1-	0.2+	970127	411	0.0	0.3+
940712	809	0.4+	1.4+	970111	411	0.2-	0.0				

1997 AN₄ = 1991 NL₇ = 1995 UX₄₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	247.38075		(2000.0)	P	Q
<i>n</i>	0.28844510	ω	310.78241	-0.54027539	+0.84133155
<i>a</i>	2.2686140	Ω	286.50811	-0.76685903	-0.50021388
<i>e</i>	0.1367410	<i>i</i>	0.97053	-0.34645308	-0.20481040
<i>P</i>	3.42	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

910712	809	0.4-	1.5-	910716	809	0.5-	1.0+	970107	411	1.2-	0.6+
910712	809	0.1-	1.6-	910716	809	0.1+	1.0+	970111	411	0.7-	0.4-
910712	809	0.4+	1.6-	910716	809	0.7+	0.9+	970111	411	0.3-	0.5-
910714	809	0.1+	0.2-	951023	010	1.6+	0.3-	970116	411	0.8+	0.3+
910714	809	0.4+	0.3-	951023	010	0.0	0.4-	970116	411	0.0	0.2-
910714	809	0.7+	0.3-	951023	010	1.4-	0.2+	970128	411	0.6+	0.0
910715	809	0.6-	0.1+	970106	411	0.7-	1.1-	970128	411	0.2-	0.4+
910715	809	0.1-	0.3+	970106	411	0.8+	0.9-				
910715	809	0.0	0.0	970107	411	0.1+	0.9-				

1997 AP₄ = 1988 XR₃ = 1995 SN₃₇

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	326.30734		(2000.0)	P	Q
<i>n</i>	0.26086612	ω	308.70992	-0.84162077	-0.54000427
<i>a</i>	2.4258146	Ω	198.61081	+0.50327818	-0.77857908
<i>e</i>	0.1544296	<i>i</i>	1.50080	+0.19592231	-0.31970298
<i>P</i>	3.78	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

881201	054	0.3+	1.1-	950929	691	0.1+	0.3+	970111	411	0.3+	0.0
950924	691	1.0-	0.0	970106	411	0.3-	0.6-	970116	411	0.3+	0.1+

950924	691	0.0	0.0	970106	411	1.0–	0.4+	970116	411	0.3+	0.1–
950924	691	0.1+	0.1+	970107	411	0.2–	0.2+	970127	411	0.1+	0.3+
950929	691	0.1+	0.4+	970107	411	0.4+	0.4+	970127	411	0.3+	0.4+
950929	691	0.3+	0.5+	970111	411	0.0	0.0				

1997 AR₄ = 1975 VH₄ = 1982 BB₃ = 1990 TZ₃ = 1995 WV₂₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	346.32709		(2000.0)		P		Q
<i>n</i>	0.19626217	ω	270.35482		–0.60876804		–0.79322904
<i>a</i>	2.9325470	Ω	217.15697		+0.73664037		–0.55873236
<i>e</i>	0.0699133	<i>i</i>	1.30477		+0.29455465		–0.24208643
<i>P</i>	5.02	<i>H</i>	12.7		<i>G</i> 0.15		<i>U</i> 3

Residuals in seconds of arc

751102	095	(7.4+ 9.2+)	951110	046	1.0+	0.9+	970107	411	0.0	0.4+
820127	801	0.4– 0.4–	951110	046	0.9+	0.6+	970107	411	0.2–	0.4+
901011	033	0.5– 0.8–	951117	691	0.6–	0.3+	970111	411	0.2+	0.1+
901012	033	0.6+ 0.8–	951117	691	0.7–	0.4+	970111	411	0.0	0.1+
901012	033	0.5– 0.9–	951127	691	1.0–	0.2–	970116	411	0.1+	0.1+
901013	033	0.5+ 0.1–	951127	691	1.1–	0.5–	970116	411	0.0	0.6–
901014	033	0.4+ 0.4–	951127	691	1.1–	0.1–	970127	411	0.1–	0.2–
901018	033	1.1+ 0.6+	970106	411	0.3–	0.2+	970127	411	0.8+	0.2–
951110	046	0.7+ 0.9+	970106	411	0.1–	0.2–				

1997 AU₄ = 1977 SO₁ = 1977 UA₃ = 1994 LK₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	78.12917		(2000.0)		P		Q
<i>n</i>	0.21724429	ω	146.83651		+0.92673408		–0.37489965
<i>a</i>	2.7405462	Ω	235.20096		+0.33781435		+0.86029957
<i>e</i>	0.1132564	<i>i</i>	1.72947		+0.16445489		+0.34544884
<i>P</i>	4.54	<i>H</i>	12.8		<i>G</i> 0.15		<i>U</i> 4

Residuals in seconds of arc

770919	095	2.4– 0.6+	940609	809	0.5–	0.6+	970111	411	0.1+	0.4+
771018	675	0.3+ 0.8+	940609	809	0.2–	1.2–	970116	411	0.1+	0.8+
771019	675	0.9+ 1.6+	970106	411	0.1–	0.8–	970116	411	0.3–	0.7+
940608	809	0.1+ 0.5–	970106	411	1.5+	0.7–	970127	411	0.4–	0.9+
940608	809	0.2+ 1.8+	970107	411	0.6–	0.3+	970127	411	0.3+	0.8+
940608	809	0.1– 2.0+	970107	411	0.2–	0.1–				
940609	809	0.8+ 1.5+	970111	411	0.4+	0.8+				

1997 AM₅ = 1983 DT = 1983 GA₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Ichikawa

<i>M</i>	323.23937		(2000.0)		P		Q
<i>n</i>	0.27660801	ω	132.01426		–0.87263088		–0.48796015
<i>a</i>	2.3328826	Ω	18.80712		+0.42746090		–0.78318196
<i>e</i>	0.1419653	<i>i</i>	3.60210		+0.23620441		–0.38538412
<i>P</i>	3.56	<i>H</i>	14.1		<i>G</i> 0.15		<i>U</i> 4

Residuals in seconds of arc

830218	809	0.2– 0.6–	970107	411	0.5+	0.0	970112	411	0.1–	0.7+
830218	809	0.4– 0.5–	970107	411	0.7–	0.3+	970113	411	0.4+	0.1+
830218	809	0.3– 0.4–	970108	411	0.5+	0.5–	970113	411	0.0	0.6+
830220	809	0.5– 0.3–	970108	411	0.3+	0.1+	970128	411	0.3+	0.2–
830220	809	0.4– 0.1+	970109	691	0.4–	0.2–	970128	411	0.0	0.4+
830220	809	0.1+ 0.0	970109	691	0.3–	0.4–				
830409	095	1.3+ 1.2+	970109	691	0.2–	0.3–				

1997 AU₆ = 1994 NN₅Id. S. Nakano (*MPC* 28879); 1997 AU₆ = 1942 VA₁ (*ibid.*) is invalid.

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	69.65352		(2000.0)		P		Q
<i>n</i>	0.20333785	ω	278.54493		+0.74593131		–0.66455550
<i>a</i>	2.8641157	Ω	123.11659		+0.62993884		+0.68242246
<i>e</i>	0.0690827	<i>i</i>	3.02413		+0.21624880		+0.30441019
<i>P</i>	4.85	<i>H</i>	13.0		<i>G</i> 0.15		<i>U</i> 4

Residuals in seconds of arc

920201	691	0.0	0.4+	940712	809	0.2–	0.7+	970115	369	0.8–	0.8+
920201	691	0.1+	0.4+	940712	809	0.8–	0.5+	970115	369	0.2–	0.5+
920201	691	0.1+	0.5+	970106	369	0.1–	0.8–	970118	369	0.8–	0.5+
940711	809	0.3+	0.1–	970106	369	1.5+	1.4+	970118	369	0.3+	1.4–
940711	809	0.1–	0.3+	970106	369	0.2+	0.6–	970118	369	0.5–	1.4–
940711	809	0.8+	0.8–	970109	369	0.1+	0.9–	970209	369	0.0	0.6+
940712	809	0.0	0.1–	970109	369	0.1+	0.6+	970209	369	0.0	0.1–

1997 AZ₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	64.30381		(2000.0)		P		Q
<i>n</i>	0.24418786	ω	233.47033		+0.85103092		–0.52463288
<i>a</i>	2.5350508	Ω	158.14591		+0.49904585		+0.79469835
<i>e</i>	0.1335722	<i>i</i>	3.46691		+0.16340017		+0.30531112
<i>P</i>	4.04	<i>H</i>	14.0		<i>G</i> 0.15		<i>U</i> 6

From 14 observations 1996 Nov. 5–1997 Jan. 27, mean residual 0".44.

1997 AD₇ = 1929 TC = 1971 HD = 1980 XL₁ = 1980 YU = 1991 NM₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	96.38007		(2000.0)		P		Q
<i>n</i>	0.25276979	ω	185.24106		+0.98902185		+0.14731904
<i>a</i>	2.4773419	Ω	166.27119		–0.13374974		+0.92562539
<i>e</i>	0.2637032	<i>i</i>	2.78401		–0.06282342		+0.34858965
<i>P</i>	3.90	<i>H</i>	13.5		<i>G</i> 0.15		<i>U</i> 2

Residuals in seconds of arc

291001	690	0.6+ 0.1–	970102	691	0.8–	0.1–	970110	411	0.5+	0.6+
291009	690	1.0– 1.1+	970102	691	0.9–	0.1+	970113	411	0.0	0.1–
710420	095	(0.5– 4.9–)	970109	411	1.0+	0.5–	970113	411	0.4–	0.4–
801212	330	2.0– 1.3–	970109	411	0.9+	0.3–	970127	411	0.0	0.5+
801227	330	2.1+ 0.5–	970110	691	1.0–	0.2+	970127	411	0.6+	0.8+
910708	885	0.3– 0.9+	970110	691	1.0–	0.0	970204	566	0.6+	0.6+
910708	885	0.3+ 1.2–	970110	691	1.0–	0.1–	970204	566	0.9+	0.4+
970102	691	0.7– 0.2–	970110	411	0.9+	0.0	970204	566	0.5+	0.2+

1997 AH₇ = 1990 EV₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	42.08040		(2000.0)		P		Q
<i>n</i>	0.27724042	ω	266.03633		+0.53302484		–0.84400374
<i>a</i>	2.3293335	Ω	151.50151		+0.81733846		+0.49544601
<i>e</i>	0.0940291	<i>i</i>	7.16557		+0.21872896		+0.20540434
<i>P</i>	3.56	<i>H</i>	13.4		<i>G</i> 0.15		<i>U</i> 5

Residuals in seconds of arc

900301	809	0.7– 1.1+	900304	809	0.4–	0.2–	970110	411	0.1–	0.5–
900301	809	0.1+ 1.1+	900304	809	0.1–	0.1+	970113	411	0.3–	0.1+
900301	809	0.1+ 0.9+	900304	809	0.1+	0.4+	970113	411	0.4–	0.1+

M.P.C. 29123

900302 809	0.2−	0.9−	970109 411	0.8+	0.2+	970127 411	0.5+	0.4+
900302 809	0.4+	1.1−	970109 411	0.2−	0.0	970127 411	0.2−	0.4−
900302 809	0.7+	1.3−	970110 411	0.1−	0.1+			

1997 AJ₇ = 1995 UO₁₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	305.42995		(2000.0)	P		Q	
<i>n</i>	0.27250150	ω	264.01693	−0.99974189		−0.00187444	
<i>a</i>	2.3562613	Ω	275.87413	+0.01077305		−0.91653415	
<i>e</i>	0.1499555	<i>i</i>	1.30422	−0.02000217		−0.39995204	
<i>P</i>	3.62	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

951018 691	0.0	0.0	951023 691	0.2+	0.2−	970113 411	0.1−	0.7+
951018 691	0.0	0.4+	970109 411	1.0+	0.0	970113 411	0.5−	0.1+
951018 691	0.0	0.1+	970109 411	1.5+	0.7−	970128 411	0.4+	0.4−
951023 691	0.2−	0.2−	970110 411	1.2−	0.8+	970128 411	0.3−	0.2−
951023 691	0.0	0.2−	970110 411	0.7−	0.3−			

1997 AL₇ = 1991 RV₂₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	219.75775		(2000.0)	P		Q	
<i>n</i>	0.26758841	ω	108.71535	−0.20220305		+0.97862501	
<i>a</i>	2.3850154	Ω	149.54182	−0.92410478		−0.17797642	
<i>e</i>	0.0837109	<i>i</i>	4.24366	−0.32425960		−0.10304123	
<i>P</i>	3.68	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

910910 675	0.9+	0.4+	970110 691	0.3−	0.2−	970116 691	(3.6−	0.3−)
910910 675	0.0	1.2+	970110 691	0.4−	0.3−	970116 691	(3.5−	0.0)
910914 675	0.8−	1.7−	970110 411	1.0+	0.2−	970127 411	0.3−	0.1−
910914 675	0.2−	0.1+	970110 411	0.5−	0.2−	970127 411	0.3−	0.1+
970109 411	0.1+	0.7+	970113 411	0.2−	0.4+	970204 566	0.1+	0.2−
970109 411	1.0+	0.4−	970113 411	0.2−	0.1+	970204 566	0.2+	0.2+
970110 691	0.4−	0.2−	970116 691	(3.2−	0.2−)	970204 566	0.3+	0.1+

1997 AM₇ = 1989 YU₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	303.25919		(2000.0)	P		Q	
<i>n</i>	0.28429716	ω	207.19763	−0.99699324		−0.07081868	
<i>a</i>	2.2906270	Ω	328.69268	+0.07741345		−0.89243049	
<i>e</i>	0.0925579	<i>i</i>	3.47004	+0.00341034		−0.44559235	
<i>P</i>	3.47	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

891230 413	0.8−	0.1+	970110 411	0.9−	0.6−	970128 411	0.7+	0.2+
891230 413	0.2+	0.5+	970113 411	0.8−	0.3+	970128 411	1.0−	0.3+
891231 413	0.4+	1.2−	970113 411	0.7−	0.3+	970207 566	0.6−	0.3−
970109 411	0.4+	1.0+	970115 566	0.9+	0.3−	970207 566	0.1−	0.4−
970109 411	0.5+	0.9+	970115 566	0.6+	0.5−	970207 566	0.0	0.1−
970110 411	0.5+	0.2−	970115 566	0.8+	0.1−			

1997 FEB. 22

1997 AS₇ = 1979 HH₅ = 1979 HS₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	274.02502		(2000.0)	P		Q	
<i>n</i>	0.27051224	ω	129.35734	−0.40470752		+0.90700944	
<i>a</i>	2.3677986	Ω	116.40145	−0.87387317		−0.34611494	
<i>e</i>	0.0874481	<i>i</i>	7.46604	−0.26936499		−0.23987148	
<i>P</i>	3.64	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

790425 095	0.9−	0.9−	970109 327	0.0	0.0	970125 327	0.1+	0.2+
790430 095	0.9+	0.9+	970109 327	0.0	0.4−	970125 327	0.7+	0.2+
970105 327	0.3−	0.5−	970123 327	0.5−	0.4+	970125 327	0.5−	0.2−
970105 327	0.0	0.5+	970123 327	0.7−	0.1+			
970105 327	0.2+	0.1−	970123 327	1.1+	0.1−			

1997 AD₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	101.03754		(2000.0)	P		Q	
<i>n</i>	0.22975053	ω	103.61131	+0.99869454		−0.03647489	
<i>a</i>	2.6401688	Ω	258.48782	+0.01961557		+0.92025395	
<i>e</i>	0.1091295	<i>i</i>	2.09145	+0.04716405		+0.38961808	
<i>P</i>	4.29	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

From 15 observations 1996 Nov. 12–1997 Feb. 15, mean residual 0″.28.

1997 AU₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	246.48723		(2000.0)	P		Q	
<i>n</i>	0.28971459	ω	87.14877	−0.53623928		+0.84346659	
<i>a</i>	2.2619820	Ω	150.35381	−0.79771562		−0.49411803	
<i>e</i>	0.1335349	<i>i</i>	3.68658	−0.27585724		−0.21074033	
<i>P</i>	3.40	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	6

From 13 observations 1996 Nov. 5–1997 Jan. 29, mean residual 0″.24.

1997 AD₁₀ = 1950 PF = 1991 NN₇

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	125.73908		(2000.0)	P		Q	
<i>n</i>	0.26374951	ω	191.80573	+0.92076444		+0.38795345	
<i>a</i>	2.4081024	Ω	145.27690	−0.35180672		+0.87120277	
<i>e</i>	0.1988932	<i>i</i>	4.13255	−0.16859681		+0.30082863	
<i>P</i>	3.74	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

500812 760	1.9−	1.0−	910716 809	1.7+	0.5−	970110 691	0.1−	0.0
500812 760	2.0+	0.6+	910716 809	2.0+	0.0	970110 691	0.1+	0.2−
910712 809	1.9−	0.1+	970103 691	0.1−	0.1+	970117 691	0.2−	0.4−
910712 809	1.5−	0.1+	970103 691	0.1−	0.8−	970117 691	0.1−	0.0
910712 809	1.4−	0.0	970103 691	0.2+	0.0	970117 691	0.1−	0.1−
910716 809	1.0+	0.4−	970110 691	0.1+	0.0			

1997 AC₁₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	184.11138		(2000.0)	P	Q
<i>n</i>	1.12924987	ω	141.50789	-0.11639148	+0.87603659
<i>a</i>	0.9132914	Ω	117.01040	-0.99051015	-0.06770589
<i>e</i>	0.3679880	<i>i</i>	31.68736	-0.07309352	-0.47746812
<i>P</i>	0.87	<i>H</i>	21.0	<i>G</i> 0.15	<i>U</i> 7

From 111 observations 1997 Jan. 10–27, mean residual 0^{''}.51.**1997 AP₁₂ = 1994 NM₁₀**

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	319.59052		(2000.0)	P	Q
<i>n</i>	0.21372442	ω	212.27873	-0.80418671	-0.56423401
<i>a</i>	2.7705540	Ω	292.24607	+0.57917245	-0.67321627
<i>e</i>	0.0721502	<i>i</i>	11.64853	+0.13357771	-0.47793288
<i>P</i>	4.61	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

940708 809	1.6+	0.5–	940709 809	0.9–	0.2+	970201 905	0.8–	0.6–
940708 809	0.0	0.5–	970107 905	0.5–	0.2–	970206 385	0.2+	0.2–
940708 809	0.3–	0.0	970107 905	0.2+	1.0+	970206 385	0.1+	0.2+
940709 809	0.6–	0.6+	970108 905	0.9+	0.7+	970206 385	0.5+	0.5+
940709 809	0.2+	0.3+	970108 905	0.5–	1.4–			

1997 AQ₁₂ = 1978 SF₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	44.43787		(2000.0)	P	Q
<i>n</i>	0.17681294	ω	302.61171	+0.51602844	-0.83381416
<i>a</i>	3.1438370	Ω	115.10301	+0.84042783	+0.44860626
<i>e</i>	0.1110404	<i>i</i>	12.50894	+0.16551649	+0.32172405
<i>P</i>	5.57	<i>H</i>	12.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

780927 095	0.0	0.9–	970111 411	0.2+	0.2–	970127 411	0.1+	0.1+
781007 095	0.0	0.9+	970111 411	0.4+	0.1–	970127 411	0.5–	0.0
970110 411	0.5+	0.2+	970114 411	0.9–	0.1–			
970110 411	0.4+	0.1–	970114 411	0.1–	0.2+			

1997 AX₁₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	3.42360		(2000.0)	P	Q
<i>n</i>	0.23066739	ω	326.72773	+0.22880277	-0.96896274
<i>a</i>	2.6331681	Ω	109.89484	+0.91345942	+0.18046591
<i>e</i>	0.4193318	<i>i</i>	5.71257	+0.33651327	+0.16894750
<i>P</i>	4.27	<i>H</i>	16.5	<i>G</i> 0.15	<i>U</i> 4

From 49 observations 1996 Dec. 11–1997 Feb. 13, mean residual 0^{''}.51.**1997 AB₁₃ = 1982 VA₉ = 1995 SB₅**

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	55.63828		(2000.0)	P	Q
<i>n</i>	0.29221734	ω	343.58613	+0.66268665	-0.74719914
<i>a</i>	2.2490480	Ω	64.87842	+0.69320431	+0.58654903
<i>e</i>	0.0162499	<i>i</i>	3.19085	+0.28339760	+0.31249588
<i>P</i>	3.37	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

821109 095	0.1+	0.3–	950930 819	0.9–	0.4+	970127 411	0.1–	0.6+
950929 819	0.1–	0.8+	950930 819	0.2–	0.9–	970127 411	0.0	0.2+
950929 819	0.2–	1.4–	970110 411	0.3+	0.2+	970213 385	0.1–	0.3–
950929 819	0.2–	0.8–	970110 411	0.2–	0.3+	970213 385	0.4+	0.5–
950930 819	1.6+	1.4+	970111 411	0.1+	0.4+	970213 385	0.2–	0.3–
950930 819	(3.0+	3.1+)	970111 411	0.2+	0.3+	970214 385	0.2–	0.1–
950930 819	0.1–	0.2–	970114 411	0.0	0.6–	970214 385	0.4–	0.3+
950930 819	0.0	1.1+	970114 411	0.3+	0.2–			

1997 AL₁₃ = 1983 RB₆ = 1992 DN₁₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	211.96048		(2000.0)	P	Q
<i>n</i>	0.17876295	ω	281.74865	+0.02893056	+0.99894470
<i>a</i>	3.1209325	Ω	349.70733	-0.82164193	+0.00344131
<i>e</i>	0.1104575	<i>i</i>	11.51629	-0.56926932	+0.04579995
<i>P</i>	5.51	<i>H</i>	10.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

830903 095	0.4+	0.5–	970111 411	0.6+	0.5–	970114 411	0.3+	0.4–
920229 809	0.0	0.1–	970112 411	0.2–	0.2–	970128 411	0.3–	0.0
920307 809	0.4–	0.5–	970112 411	0.1–	0.3+	970128 411	0.2–	0.3+
970111 411	0.1–	0.7+	970114 411	0.2+	0.1+			

1997 AV₁₃ = 1969 TG₆ = 4863 T-1 = 1987 BZ₂ = 1991 GD₁₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	37.93825		(2000.0)	P	Q
<i>n</i>	0.29596864	ω	218.08940	+0.81016400	-0.58619680
<i>a</i>	2.2300037	Ω	177.79267	+0.55387867	+0.76393984
<i>e</i>	0.1496145	<i>i</i>	4.10788	+0.19197062	+0.26975774
<i>P</i>	3.33	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

691015 095	0.0	0.2–	970111 587	1.0+	0.9+	970114 587	0.1+	0.2–
691017 095	(6.5+	5.1–)	970111 587	1.2+	0.1+	970114 587	0.0	0.1–
710513 675	0.8–	1.0+	970111 587	0.2–	0.3–	970128 587	0.3+	0.5+
710514 675	0.8+	0.4–	970111 587	0.5–	0.5–	970128 587	0.5–	0.1+
710516 675	0.1+	0.8–	970111 587	0.0	0.3+	970128 587	0.4–	0.2–
870130 010	0.2+	1.5+	970111 587	0.3+	0.2–	970131 587	0.7–	0.5–
870130 010	0.6+	0.3+	970112 587	0.1+	0.5–	970131 587	0.2–	1.3–
870130 010	0.7–	0.2+	970112 587	0.1–	0.5–	970131 587	0.6+	0.8–
910410 809(12.8+	8.8–)		970113 587	0.3+	0.5+	970210 587	0.3–	0.1–
910410 809(14.2+	7.5–)		970113 587	0.1+	0.3+	970210 587	1.1–	0.0
910410 809(13.8+	8.7–)		970114 587	0.4–	0.4+			

1997 AP₁₄ = 1995 SP₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	64.44066		(2000.0)	P	Q
<i>n</i>	0.22398651	ω	248.21745	+0.81497188	-0.57942606
<i>a</i>	2.6852711	Ω	147.19065	+0.53781269	+0.75027825
<i>e</i>	0.1634717	<i>i</i>	0.98224	+0.21582019	+0.31835200
<i>P</i>	4.40	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

950917 691	0.1+	0.2+	970111 411	0.6+	0.2+	970201 369	0.4–	0.1+
950917 691	0.4–	0.1+	970111 411	0.2+	1.5+	970203 566	0.3–	0.1–
950917 691	0.2+	0.0	970116 411	0.9+	0.9–	970203 566	0.8–	0.9+

M.P.C. 29125

950922	691	0.1+	0.0	970116	411	0.4+	0.2-	970203	566	0.2-	0.1+
950922	691	0.0	0.0	970128	411	0.1+	0.7-	970209	369	0.5+	0.6-
950922	691	0.0	0.3-	970128	411	0.4+	0.5+	970209	369	1.8+	1.6-
970110	411	0.7-	1.3-	970201	411	0.1-	0.5+	970213	369	0.0	0.1-
970110	411	0.9-	0.1-	970201	411	0.4+	0.3+	970213	369	0.3-	0.3+
970110	411	0.0	0.1-	970201	369	0.9-	0.4+	970213	369	0.3+	0.0
970111	411	0.2+	0.1+	970201	369	0.9-	0.0	970213	369	0.4-	0.9+

1997 AX₁₄ = 1982 KO₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
109.16752				(2000.0)			
<i>n</i>	0.23467289	ω	210.55621	+0.80107969		+0.56199810	
<i>a</i>	2.6031195	Ω	113.83624	-0.49348827		+0.81487075	
<i>e</i>	0.3226631	<i>i</i>	13.01417	-0.33873389		+0.14192884	
<i>P</i>	4.20	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

820522	381	0.8-	0.5+	970113	046	0.2-	0.5+	970117	046	0.3-	0.1-
820522	381	0.9+	0.4+	970114	046	0.5+	0.4-	970117	046	0.2+	0.2+
820523	381	0.4+	1.0-	970114	046	0.1+	0.1+	970117	046	0.1-	0.1-
820524	381	0.5-	0.2+	970115	046	0.6+	0.4-	970206	046	0.0	0.6+
970112	046	1.4+	0.4-	970115	046	0.2-	0.1+	970206	046	0.6+	0.2+
970112	046	0.3-	0.5+	970115	046	0.3-	0.0	970206	046	0.7+	0.4-
970113	046	0.0	0.3+	970116	046	0.4-	0.1-	970209	046	0.0	0.1+
970113	046	0.2-	0.3+	970116	046	0.4-	0.4-	970209	046	0.3-	0.0
970113	046	0.1-	0.1+	970116	046	0.5-	0.5-	970209	046	0.7-	0.2-

1997 AQ₁₆ = 1979 SK₅ = 1989 TW₁₄

Id. S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
53.04876				(2000.0)			
<i>n</i>	0.29712989	ω	258.76037	+0.98672864		-0.16228672	
<i>a</i>	2.2241897	Ω	110.57911	+0.15115450		+0.90576961	
<i>e</i>	0.2308474	<i>i</i>	0.33300	+0.05932032		+0.39146448	
<i>P</i>	3.32	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

790923	095	0.1-	0.3+	891004	809	0.7-	0.6-	970119	867	0.0	0.0
891002	809	0.2-	0.3+	891004	809	0.3-	0.6-	970119	867	0.7+	0.5+
891002	809	0.3+	0.4+	891004	809	0.3+	0.7-	970119	867	0.7-	0.4-
891002	809	0.9+	0.3+	970105	867	0.0	0.3+	970209	867	0.2-	0.1-
891003	809	0.7-	0.2+	970105	867	0.3+	0.2+	970209	867	0.1-	0.0
891003	809	0.1-	0.2+	970112	867	0.0	0.3-				
891003	809	0.6+	0.2+	970112	867	0.0	0.0				

1997 AS₁₇ = 1984 BU₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
112.26813				(2000.0)			
<i>n</i>	0.30032261	ω	222.07344	+0.88505997		+0.46191324	
<i>a</i>	2.2083981	Ω	110.33131	-0.40905877		+0.83076832	
<i>e</i>	0.1212684	<i>i</i>	3.51494	-0.22212559		+0.31058035	
<i>P</i>	3.28	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

840125	675	0.0	0.1+	970112	566	0.5-	0.2+	970115	595	0.0	0.1-
840126	675	0.0	0.0	970112	566	0.2-	0.1+	970127	595	0.2+	0.2+
961106	327	0.3-	0.1-	970112	566	0.7-	0.3+	970127	595	0.5+	0.5-

1997 FEB. 22

961106	327	0.7+	0.4-	970114	595	0.2+	0.0	970128	595	0.3+	0.4-
961106	327	0.1-	0.1+	970114	595	0.2-	0.3+	970128	595	0.1+	0.3-
961106	327	0.4-	0.2+	970115	595	0.4+	0.2+				

1997 AX₁₇ = 1977 XX

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

				<i>P</i>		<i>Q</i>	
<i>M</i>				(2000.0)			
<i>n</i>	0.31791170	ω	299.90574	+0.99355346		+0.10322861	
<i>a</i>	2.1261719	Ω	54.20804	-0.07339656		+0.90074213	
<i>e</i>	0.0422752	<i>i</i>	3.31147	-0.08639718		+0.42190931	
<i>P</i>	3.10	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

771207	675	0.0	0.2+	970115	411	0.7-	0.4+	970128	411	0.3-	0.1-
771208	675	0.0	0.2-	970116	411	0.1+	0.6+	970128	411	0.2+	0.2+
970115	411	0.1+	0.6-	970116	411	0.5+	0.6-				

1997 AK₁₈ = 1993 BT₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

				<i>P</i>		<i>Q</i>	
<i>M</i>				(2000.0)			
<i>n</i>	0.25586909	ω	27.26397	+0.61819437		-0.78584715	
<i>a</i>	2.4572962	Ω	24.56289	+0.71363085		+0.55220667	
<i>e</i>	0.1806499	<i>i</i>	2.30693	+0.32949466		+0.27840987	
<i>P</i>	3.85	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

930116	010	0.4+	0.6-	970115	046	0.2+	0.2+	970204	566	1.5+	0.3-
930116	010	0.0	0.2+	970115	046	0.4+	0.1+	970204	566	0.7-	0.3-
930116	010	0.4+	0.0	970115	046	0.2-	0.2+	970204	566	0.0	0.1-
930117	010	0.2+	0.3-	970116	046	0.0	0.2+	970207	046	0.4-	0.3-
930117	010	0.8-	0.1+	970116	046	0.0	0.1-	970207	046	0.4-	0.2-
930117	010	0.3-	0.1+	970116	046	0.2-	0.1+	970207	046	0.4+	0.0
970112	566	0.3+	0.2+	970116	046	0.0	0.4+	970209	046	0.1-	0.3-
970112	566	0.0	0.1+	970117	046	0.2-	0.0	970209	046	0.4-	0.0
970112	566	0.2+	0.1-	970117	046	0.1-	0.1+				
970115	046	0.1-	0.2+	970117	046	0.0	0.1+				

1997 AF₂₁ = 1939 UD = 1942 RG = 1986 RX₁₂ = 1986 SK₂ = 1989 NS

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

				<i>P</i>		<i>Q</i>	
<i>M</i>				(2000.0)			
<i>n</i>	0.31384514	ω	339.19509	+0.94808536		+0.31801134	
<i>a</i>	2.1444987	Ω	2.26431	-0.28529864		+0.85291671	
<i>e</i>	0.2035403	<i>i</i>	2.48761	-0.14049497		+0.41400710	
<i>P</i>	3.14	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

391018	062	0.1-	1.1+	890704	675	0.4-	0.6-	970109	399	0.5-	0.7-
391020	062	0.7+	1.3-	890704	675	1.0+	0.9-	970109	399	0.3+	1.3-
420911	024	0.1-	0.8+	961108	327	0.6+	0.8-	970112	399	0.3+	0.7+
420918	024	0.3-	0.9-	961108	327	0.5-	0.5-	970112	399	(3.0+	1.4+)
860909	095	1.7-	0.9-	961108	327	0.2-	0.6+	970116	399	0.4-	0.9+
860929	095	1.2+	1.6+	961202	691	0.4-	0.5-	970116	399	0.5+	0.8-
890702	675	0.6+	1.4-	961202	691	0.2-	0.3-				
890702	675	0.2+	0.1+	961202	691	0.4-	0.6-				

1997 AK₂₁ = 1970 CO = 1976 UL₂ = 1979 OW₁₁ = 1986 HE
= 1987 QX₁₂ = 1992 WA₉

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Nakano			
<i>M</i>	313.28337	(2000.0)		P	Q		
<i>n</i>	0.25534393	ω	300.66850	−0.92018815	−0.38765191		
<i>a</i>	2.4606642	Ω	216.60239	+0.38315425	−0.86322933		
<i>e</i>	0.0810711	<i>i</i>	5.25276	+0.08029062	−0.32335913		
<i>P</i>	3.86	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
700201 805	0.2−	1.7+	870825 809	1.0−	0.1+	970112 399	0.1+ 0.4+
761024 381	0.4+	0.9+	870825 809	0.3−	0.4+	970116 399	1.5+ 0.5+
761024 381	0.7−	0.1+	921128 675	0.1+	1.4−	970116 399	0.7− 1.3−
761026 095	0.3+	0.5+	921128 675	0.7−	0.9−	970202 399	0.0 0.3−
790726 675 (3.4+	0.4+)		921201 675	0.7−	1.9−	970202 399	1.1− 0.1−
790728 413	1.8+	1.0−	921201 675	1.9+	0.3+	970210 399	1.9− 0.8+
860429 675(12.8+	2.0−)		970109 399	1.1+	0.7+	970210 399	0.8+ 0.2+
860429 675(13.1+	1.1−)		970109 399	0.4−	0.1−		
870825 809	0.9−	0.2−	970112 399	0.3+	0.0		

1997 AN₂₁ = 1993 CY

Id. T. Urata				Nakano			
Epoch 1996 Nov. 13.0 TT = JDT 2450400.5							
<i>M</i>	27.56202	(2000.0)		P	Q		
<i>n</i>	0.23930943	ω	118.13261	+0.32502513	−0.93036559		
<i>a</i>	2.5693869	Ω	311.85110	+0.76798707	+0.36434254		
<i>e</i>	0.1313118	<i>i</i>	13.16430	+0.55186459	+0.04091917		
<i>P</i>	4.12	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
930215 399	1.5+	1.5+	970118 046	0.4+	0.1−	970131 098	0.9− 0.0
930215 399 (3.8+	1.7+)		970118 046	0.4+	0.1−	970131 098	(0.9+ 2.3−)
930216 399 (3.0−	0.7+)		970118 046	0.3+	0.2−	970201 905	1.0+ 0.2−
930216 399	1.1−	0.3−	970118 046	0.5+	0.2−	970201 905	0.9+ 0.3+
930225 399	0.3+	0.9−	970119 046	0.3+	0.2−	970211 385	0.7+ 0.2+
930225 399	0.6−	0.1−	970119 046	0.4+	0.2−	970211 385	1.0+ 0.2+
970113 905	1.0−	0.2+	970119 046	0.3+	0.1−	970214 691	1.1− 0.3+
970113 905	0.3+	1.2+	970119 046	0.3+	0.2−	970214 691	1.1− 0.3+
970116 905	0.9−	0.9−	970130 098	0.4−	0.8−	970214 691	1.4− 0.3−
970116 905	0.2+	0.2+	970130 098	0.4−	0.4+		

1997 AP₂₁ = 1979 WP₆ = 1992 SX₁₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Urata			
<i>M</i>	0.47097	(2000.0)		P	Q		
<i>n</i>	0.29764606	ω	43.09082	−0.19185987	−0.98095921		
<i>a</i>	2.2216175	Ω	57.99190	+0.89050079	−0.18691557		
<i>e</i>	0.0945124	<i>i</i>	2.03736	+0.41255076	−0.05274076		
<i>P</i>	3.31	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
791117 095	0.1−	0.3+	920928 033	0.8−	0.1−	970116 905	1.2− 0.5+
920926 033	0.5+	0.2−	970113 905	0.2+	0.5−	970201 905	0.7+ 1.4−
920926 033	0.2+	0.0	970113 905	0.9+	0.3+	970201 905	0.4+ 0.6−
920927 033	0.4+	0.2−	970116 905	1.1−	1.5+		

1997 AO₂₂ = 1990 VF₁₀ = 1992 EA₂₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Williams			
<i>M</i>	52.52409	(2000.0)		P	Q		
<i>n</i>	0.17686653	ω	242.60227	+0.88525095	−0.46450861		
<i>a</i>	3.1432020	Ω	145.06153	+0.44002347	+0.81988553		
<i>e</i>	0.2451376	<i>i</i>	2.37347	+0.15069871	+0.33469308		
<i>P</i>	5.57	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
901114 675	0.2+	0.3−	970111 327	0.3+	0.3+	970126 327	0.4+ 0.0
901114 675	0.2−	0.2−	970111 327	0.6−	0.1+	970126 327	0.6+ 0.2−
920306 691	1.1−	0.2−	970111 327	0.6+	0.4+	970127 327	0.0 0.2−
920306 691	0.9−	0.2+	970118 327	0.5−	1.0+	970127 327	0.0 0.4−
920306 691	1.5−	1.2−	970118 327	1.1−	0.1+	970127 327	0.3+ 0.2−
920308 809	0.8+	0.7+	970118 327	0.2−	0.2+		
920309 809	2.6+	0.0	970126 327	0.3+	0.2−		

1997 AQ₂₂ = 1993 HT

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5				Williams			
<i>M</i>	277.53835	(2000.0)		P	Q		
<i>n</i>	0.21276956	ω	86.28380	−0.87961074	+0.45836446		
<i>a</i>	2.7788369	Ω	120.95817	−0.47365600	−0.81920265		
<i>e</i>	0.1609610	<i>i</i>	8.53209	−0.04398789	−0.34468686		
<i>P</i>	4.63	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
930416 399	0.7+	1.0+	970118 327	0.7−	0.2−	970204 566	0.3+ 0.1+
930416 399	0.7+	0.9−	970131 691	0.8−	0.1−	970204 327	0.0 0.1+
930419 399	0.5−	0.3−	970131 691	0.9−	0.1+	970204 327	0.3+ 0.0
930419 399	0.9−	0.2+	970131 691	0.8−	0.2+	970204 327	0.6+ 0.2+
970111 327	0.2+	0.1+	970201 691	0.5+	0.9−	970206 327	0.1− 0.2−
970111 327	1.1+	0.1+	970201 691	0.2+	0.0	970206 327	0.6− 0.0
970111 327	0.4+	0.2+	970201 691	0.0	0.1+	970206 327	0.7+ 0.2−
970118 327	0.4−	0.1−	970204 566	0.1+	0.4+		
970118 327	0.4−	0.2−	970204 566	0.3+	0.3+		

1997 AR₂₂ = 1985 UB₆ = 1985 VV₅

Id. G. V. Williams, L. I. Chernykh (d)				Williams			
Epoch 1996 Nov. 13.0 TT = JDT 2450400.5							
<i>M</i>	57.89716	(2000.0)		P	Q		
<i>n</i>	0.28433993	ω	5.76068	+0.77680740	−0.62752384		
<i>a</i>	2.2903973	Ω	33.29335	+0.57386789	+0.67089694		
<i>e</i>	0.1234833	<i>i</i>	5.51598	+0.25931818	+0.39510901		
<i>P</i>	3.47	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
851018 095	1.6+	0.7−	970104 327	0.0	0.5−	970114 566	0.0 0.3−
851112 095	1.7−	0.5+	970104 327	0.3+	0.1−	970114 566	0.0 0.5−
961120 327	0.3+	0.0	970111 327	0.4−	0.0	970118 327	0.6− 0.1−
961120 327	0.2+	0.4+	970111 327	0.4+	0.4+	970118 327	0.9− 0.0
961120 327	0.4−	0.6+	970111 327	0.1−	0.2+	970118 327	0.2+ 0.6+
970104 327	1.3+	0.3−	970114 566	0.3−	0.4−		

1997 BX = 1992 WN₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	28.71479		(2000.0)	P	Q
<i>n</i>	0.26613034	ω	303.91050	+0.50685993	-0.86029073
<i>a</i>	2.3937188	Ω	115.54299	+0.80956319	+0.45324932
<i>e</i>	0.1542651	<i>i</i>	3.47617	+0.29614261	+0.23337720
<i>P</i>	3.70	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

921125 372	0.2+	0.3+	970109 691	0.3-	0.8-	970204 327	0.4-	0.3+
921125 372	0.2+	1.0+	970109 691	0.3-	0.9-	970204 327	0.1+	0.9+
921127 372	0.5-	0.7-	970118 327	0.6+	1.1-	970204 327	0.6+	0.8+
921127 372	(3.5+ 0.3-)		970118 327	0.2+	0.7-	970206 327	0.6-	0.6+
970102 327	0.2+	0.4-	970118 327	1.0+	0.8-	970206 327	1.0-	0.6+
970102 327	0.4+	0.6-	970126 327	1.0-	0.2+	970206 327	0.3+	0.6+
970102 327	0.8+	0.0	970126 327	0.0	0.6+			
970109 691	0.3-	0.4-	970126 327	0.6-	0.9+			

1997 BX₂ = 1994 LP₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	4.81520		(2000.0)	P	Q
<i>n</i>	0.26808084	ω	353.55770	-0.33844187	-0.93188384
<i>a</i>	2.3820938	Ω	116.15906	+0.86970184	-0.36275671
<i>e</i>	0.0696967	<i>i</i>	8.36476	+0.35927121	+0.00028298
<i>P</i>	3.68	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

940610 691	0.2+	0.2+	940613 691	0.0	0.2+	970131 411	0.1+	0.4+
940610 691	0.0	0.1+	940613 691	0.2-	0.1-	970131 411	0.5-	0.1-
940610 691	0.2+	0.1-	970130 411	0.2+	0.3-	970206 411	0.1+	0.1-
940613 691	0.2-	0.3-	970130 411	0.4+	0.0	970206 411	0.3-	0.1+

1997 BO₃ = 1989 EZ₁₁ = 1995 SP₅₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	354.20221		(2000.0)	P	Q
<i>n</i>	0.24525521	ω	44.76745	-0.61353238	-0.78714654
<i>a</i>	2.5276905	Ω	83.18044	+0.70554949	-0.58229657
<i>e</i>	0.0792314	<i>i</i>	3.64208	+0.35465185	-0.20330034
<i>P</i>	4.02	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

890303 808	0.3-	0.6+	950923 033	0.1-	0.6-	970201 411	0.5+	0.1+
890303 808	0.3+	0.5-	970131 411	0.3-	0.3-	970211 411	0.1+	0.3-
950921 033	0.4+	0.1+	970131 411	0.4-	0.1+	970211 411	0.2-	0.3-
950921 033	0.3-	0.5+	970201 411	0.4+	0.4+			

1997 BS₆ = 1979 YU₄ = 1987 FE₁

Id. T. Urata

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	359.20127		(2000.0)	P	Q
<i>n</i>	0.29568085	ω	344.55281	-0.36704524	-0.92398513
<i>a</i>	2.2314505	Ω	126.86200	+0.86703294	-0.38164454
<i>e</i>	0.1119668	<i>i</i>	7.71260	+0.33694460	-0.02447273
<i>P</i>	3.33	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

791218 095	0.0	0.0	970129 905	0.1-	0.5+	970204 566	0.1-	0.0
870321 033	0.3+	0.4-	970201 905	0.3+	0.4-	970209 385	0.4-	0.4-

870321 033	0.2-	0.5+	970201 905	0.2-	0.1+	970209 385	0.0	0.1-
870322 033	0.1-	0.1+	970204 566	0.0	0.1-			
970129 905	0.1+	0.4+	970204 566	0.2+	0.1-			

1997 BG₈ = 1994 CC₈ = 1995 SG₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	231.59561		(2000.0)	P	Q
<i>n</i>	0.31069695	ω	284.61682	-0.33537714	+0.94151635
<i>a</i>	2.1589606	Ω	325.73178	-0.84045484	-0.31469807
<i>e</i>	0.0919000	<i>i</i>	3.32906	-0.42562640	-0.12046608
<i>P</i>	3.17	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

940208 303	0.3+	0.6-	970206 610	1.0-	0.6+	970209 369	0.4+	0.4+
940209 303	0.2-	0.9+	970207 610	0.7-	1.1+	970209 610	0.4+	0.4+
950923 107	0.5-	0.1-	970207 610	0.5-	1.1+	970209 610	0.4+	0.2+
950923 107	0.4-	0.3+	970207 610	0.4-	1.1+	970209 610	0.5+	0.1+
950925 107	0.4+	0.2-	970208 566	1.0-	0.7-	970209 610	0.6+	0.1-
950925 107	0.3+	0.2-	970208 566	1.2-	0.8-	970210 610	0.2-	0.1-
950925 107	0.2+	0.3+	970208 566	1.0-	0.8-	970210 610	0.2-	0.1-
970131 610	0.4+	0.3+	970208 610	1.0+	0.5-	970210 610	0.1+	0.0
970201 610	0.8+	0.2-	970208 610	0.7+	0.5-	970210 610	0.3+	0.0
970201 610	1.2+	0.6-	970208 610	0.3+	0.4-	970213 369	0.2-	0.2-
970206 610	0.2-	0.0	970209 610	0.1-	0.2-	970213 369	0.1-	0.5-
970206 610	0.6-	0.2+	970209 369	0.0	0.2-			

1997 CA₁ = 1976 DC₁ = 1991 NK₈

Id. S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Williams

<i>M</i>	232.12290		(2000.0)	P	Q
<i>n</i>	0.28332986	ω	293.34024	-0.22699293	+0.97101680
<i>a</i>	2.2958375	Ω	323.28551	-0.84156832	-0.23424359
<i>e</i>	0.0811734	<i>i</i>	7.19124	-0.49013974	-0.04750066
<i>P</i>	3.48	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

760227 033	0.1-	0.7+	910714 675	0.1-	0.2+	970203 566	0.0	0.3-
760301 033	1.5+	0.8+	970201 411	0.2-	0.1+	970203 566	0.2-	0.5-
760302 033	(3.1+ 0.4+)		970201 411	0.2-	0.8+	970211 411	1.0-	0.2-
760303 033	1.6-	0.6+	970203 411	0.6+	0.1+	970211 411	(2.5- 0.8-)	
760303 033	0.6+	1.0-	970203 411	0.6+	0.1-			
910714 675	0.1-	0.2+	970203 566	0.1+	0.5-			

1997 CY₂ = 1979 YA₇ = 1995 VU₁₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

Nakano

<i>M</i>	3.15198		(2000.0)	P	Q
<i>n</i>	0.17988500	ω	3.57141	-0.56169736	-0.82540907
<i>a</i>	3.1079408	Ω	120.60987	+0.75743528	-0.54052402
<i>e</i>	0.1974186	<i>i</i>	3.76622	+0.33284811	-0.16289152
<i>P</i>	5.48	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

791218 095	0.0	0.1-	951120 691	0.1-	0.0	970204 411	0.3-	0.3+
951115 691	0.1+	0.1+	951120 691	0.4-	0.0	970211 411	0.1-	0.1-
951115 691	0.1+	0.1-	970203 411	0.7-	0.7+	970211 411	0.3-	0.3+
951115 691	0.1+	0.0	970203 411	0.6+	1.1-			
951120 691	0.2+	0.0	970204 411	0.8+	0.1-			

1997 CW₁₁ = 1994 GE₇

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	115.23468		(2000.0)	P		Q	
<i>n</i>	0.26692283	ω	322.97400	+0.97993329	+0.19803324		
<i>a</i>	2.3889785	Ω	25.63175	-0.16802403	+0.88185547		
<i>e</i>	0.1300144	<i>i</i>	3.00302	-0.10723190	+0.42791794		
<i>P</i>	3.69	<i>H</i>	17.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

940411 691	0.5+	0.2-	970203 691	0.1-	0.4-	970206 691	0.1+	0.4-
940411 691	0.8-	0.8+	970203 691	0.1+	0.1-	970206 691	0.1+	0.1-
940411 691	0.2+	0.5-	970203 691	0.1-	0.3+	970210 691	0.2-	0.2+
940419 691	0.8+	0.3-	970204 691	0.1-	0.3+	970210 691	0.2-	0.4+
940419 691	0.1-	0.2-	970204 691	0.1-	0.1-	970210 691	0.2+	0.1+
940419 691	0.6-	0.4+	970206 691	0.3+	0.1-			

1997 CK₁₂ = 1995 OU₅

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	30.81418		(2000.0)	P		Q	
<i>n</i>	0.25574201	ω	94.67145	+0.23693126	-0.97147019		
<i>a</i>	2.4581101	Ω	341.61288	+0.87770587	+0.21865099		
<i>e</i>	0.1789923	<i>i</i>	1.89891	+0.41652850	+0.09185542		
<i>P</i>	3.85	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

950722 691	0.1+	0.0	950727 691	0.3-	0.0	970207 691	0.5-	0.0
950722 691	0.2-	0.0	970203 691	0.2-	0.1-	970207 691	0.5-	0.3+
950722 691	0.7+	0.0	970203 691	0.6+	0.1-	970213 691	0.2+	0.4-
950727 691	0.1-	0.0	970203 691	0.2+	0.1-	970213 691	0.0	0.1+
950727 691	0.1-	0.1-	970207 691	0.3-	0.1-	970213 691	0.4+	0.3+

1997 CB₁₃ = 1976 UT₁₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	140.34887		(2000.0)	P		Q	
<i>n</i>	0.30649088	ω	189.21384	+0.74696181	+0.66259257		
<i>a</i>	2.1786678	Ω	129.14094	-0.60540248	+0.71199067		
<i>e</i>	0.1519908	<i>i</i>	4.06249	-0.27483792	+0.23246583		
<i>P</i>	3.22	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

761022 381	0.6-	0.1+	970114 566	1.0+	0.2-	970207 691	0.5-	0.1+
761022 381	0.2+	0.3-	970204 691	0.2-	0.1-	970207 691	0.7-	0.1+
761024 381	0.3+	0.2+	970204 691	0.0	0.1-	970214 691	0.1-	0.0
970114 566	0.5+	0.2-	970204 691	0.2-	0.2-	970214 691	0.0	0.1+
970114 566	0.7+	0.2-	970207 691	0.4-	0.2+	970214 691	0.2-	0.2+

1997 CX₁₃ = 1991 SG₃

Id. B. G. Marsden

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	238.59575		(2000.0)	P		Q	
<i>n</i>	0.26505369	ω	131.93630	-0.30936100	+0.94724034		
<i>a</i>	2.4001966	Ω	119.86076	-0.89858641	-0.26233299		
<i>e</i>	0.0947944	<i>i</i>	5.54866	-0.31118842	-0.18416610		
<i>P</i>	3.72	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

910930 691	0.2-	0.1+	970204 566	0.2+	0.3-	970211 709	0.2-	0.0
910930 691	0.2-	0.1-	970208 709	0.3-	0.1-	970211 709	0.4-	0.0

910930 691	0.2+	0.2-	970208 709	0.1-	0.2-	970211 709	0.3-	0.1+
911002 691	0.4-	0.2+	970208 709	0.3-	0.4-	970211 709	0.1-	0.2+
911002 691	0.4+	0.1+	970208 709	0.3-	0.2-	970211 709	0.1-	0.1+
911002 691	0.2+	0.0	970210 709	0.1+	0.2+	970215 709	0.3+	0.1-
970204 709	0.2+	0.1+	970210 709	0.0	0.2+	970215 709	0.4+	0.0
970204 709	0.4+	0.1-	970210 709	0.2+	0.0	970215 709	0.1+	0.0
970204 709	0.1+	0.2+	970210 709	0.1+	0.1+	970215 709	0.1-	0.1-
970204 566	0.0	0.0	970210 709	0.0	0.2+	970215 709	0.1+	0.1-
970204 566	0.0	0.0	970211 709	0.3-	0.2+			

1997 CZ₁₄ = 1992 XE₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	75.73167		(2000.0)	P		Q	
<i>n</i>	0.28720621	ω	335.23641	+0.97940946	-0.19990658		
<i>a</i>	2.2751332	Ω	36.33071	+0.19224728	+0.88090398		
<i>e</i>	0.2324408	<i>i</i>	2.72694	+0.06162860	+0.42900528		
<i>P</i>	3.43	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

921213 010	0.5-	0.2+	970206 691	0.4-	0.4-	970213 691	0.2+	0.1+
921214 010	0.5+	0.2-	970210 691	0.2+	0.0	970215 691	0.0	0.2+
970204 691	0.4-	0.0	970210 691	0.1+	0.0	970215 691	0.3-	0.2-
970204 691	0.3-	0.0	970210 691	0.2-	0.2+	970215 691	0.2+	0.6+
970206 691	0.0	0.1-	970213 691	0.6+	0.1-			
970206 691	0.3-	0.1-	970213 691	0.6+	0.1-			

1997 CD₁₇

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	256.11137		(2000.0)	P		Q	
<i>n</i>	0.82828055	ω	220.38850	-0.98554203	+0.03403698		
<i>a</i>	1.1229258	Ω	320.59797	+0.06758250	-0.81933731		
<i>e</i>	0.1403201	<i>i</i>	15.15795	-0.15536897	-0.57230049		
<i>P</i>	1.19	<i>H</i>	27.5	<i>G</i>	0.15	<i>U</i>	6

From 21 observations 1997 Feb. 9-11, mean residual 0".84.

2129 P-L = 1997 BC₇

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>	351.62745		(2000.0)	P		Q	
<i>n</i>	0.25246314	ω	279.12244	-0.50843345	-0.86037288		
<i>a</i>	2.4793475	Ω	201.54957	+0.82306671	-0.47347822		
<i>e</i>	0.0882081	<i>i</i>	5.53232	+0.25309408	-0.18861836		
<i>P</i>	3.90	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

600924 675	0.2+	0.4+	601025 675	0.6+	0.1+	970130 327	1.2-	0.2+
600926 675	0.7-	0.4+	601026 675	0.3-	0.4-	970130 327	1.0+	0.3+
600928 675	0.1+	0.4-	970128 327	0.5+	0.2-	970130 327	0.7-	0.3+
600929 675	0.6+	0.7-	970128 327	0.2-	0.1+			
601017 675	0.6-	0.6+	970128 327	0.6+	0.6-			

3560 P-L = 1974 DH₁ = 1994 RP₈ = 1997 CB₂₀

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	123.77250	ω	21.58318	+0.96208353	-0.27134399		
<i>a</i>	3.1803006	Ω	353.95576	+0.19545527	+0.75671368		
<i>e</i>	0.0931680	<i>i</i>	15.25658	+0.19024332	+0.59477462		
<i>P</i>	5.67	<i>H</i>	11.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

601022 675	0.5+	1.2-	940912 691	0.3-	0.6+	940914 691	0.3-	0.7+
601024 675	0.2+	0.4-	940912 691	0.3-	0.4+	970212 411	0.6-	0.2+
601026 675	0.5+	0.8-	940912 691	0.3-	0.4+	970212 411	1.1-	1.0+
740216 095	2.4+	1.5+	940912 691	0.1-	0.4+	970213 411	0.1-	0.9-
940912 691	0.4+	0.3+	940914 691	0.1-	1.3-	970213 411	0.2-	1.1-
940912 691	0.2-	0.4+	940914 691	0.4-	0.5+			

6636 P-L = 1990 WS₁₂

Id. T. Kobayashi (1997 observations), S. Nakano

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	333.13884	ω	49.19599	-0.96717107	-0.24722442		
<i>a</i>	2.8817765	Ω	116.41594	+0.20887410	-0.90520224		
<i>e</i>	0.0187370	<i>i</i>	3.76598	+0.14474713	-0.34567179		
<i>P</i>	4.89	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

600924 675	0.5+	0.8-	601022 675	1.8-	0.0	970131 411	0.3-	0.1-
600926 675	0.3+	0.7-	601024 675	0.0	0.6+	970131 411	0.6+	0.3-
600927 675	0.4+	0.5-	601026 675	0.1+	0.4+	970201 411	0.1-	0.5-
600928 675	0.4+	0.1+	901123 372	1.2+	0.3-	970201 411	0.3-	0.5+
601017 675	0.0	0.8+	901123 372	1.1-	0.2+			

6683 P-L = 1992 EK₃ = 1997 CQ₁₃

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	320.47885	ω	353.28552	-0.80065867	-0.59721180		
<i>a</i>	0.17115935	Ω	149.88203	+0.55401700	-0.76838631		
<i>e</i>	3.2126910	<i>i</i>	5.46501	+0.22805887	-0.23004465		
<i>P</i>	0.1172752	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

600924 675	0.4+	0.3-	920310 372	1.2-	0.2-	970202 106	1.1-	1.3+
600926 675	0.7+	0.3+	920310 372	1.3+	0.4+	970206 106	0.1-	1.7-
600927 675	0.9+	0.2-	970201 106	0.2+	1.6+	970208 106	0.3+	0.6-
600928 675	0.1-	0.3-	970201 106	0.8+	1.1+	970209 106	0.5+	1.2-
601017 675	1.2-	0.7+	970202 106	0.0	1.1+	970209 106	0.4+	1.4-
601022 675	0.9-	0.1-	970202 106	0.8-	0.2-			

9565 P-L = 1988 SZ₃ = 1995 SV₄Id. S. Nakano (*MPC* 25969), T. Kobayashi (*ibid.*)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	128.55589	ω	207.81273	+0.97257386	+0.22708716		
<i>a</i>	0.28174378	Ω	138.96114	-0.19664205	+0.91830661		
<i>e</i>	2.3044458	<i>i</i>	4.39497	-0.12422555	+0.32425977		
<i>P</i>	0.1426955	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

601017 675	0.3-	0.5+	950920 400	1.3+	0.6+	970131 691	0.3-	0.2+
601022 675	1.0-	0.2+	950920 400	0.5+	0.0	970131 691	0.6-	0.5+
601024 675	0.8+	0.2+	950921 400	0.5+	0.2+	970131 691	0.2-	0.2+
601026 675	0.3+	0.1+	950921 400	0.5-	0.6-	970208 566	0.2+	0.5-
880916 095	(3.0-	6.3-)	950930 400	0.6-	0.2+	970208 566	0.1+	0.5-
880916 095	0.1+	1.2-	950930 400	1.0-	0.3-	970208 566	0.6+	0.4-

1205 T-1 = 1997 CR₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	225.80073	ω	262.77239	-0.28488882	+0.95845338		
<i>a</i>	0.29903141	Ω	350.63788	-0.84102340	-0.25710334		
<i>e</i>	2.2147507	<i>i</i>	5.05548	-0.45991087	-0.12355159		
<i>P</i>	0.1328921	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

710324 675	(3.2+	2.2-)	710416 675	0.1+	0.3+	970203 566	0.2-	0.1-
710325 675	0.2-	0.6+	710416 675	0.1-	0.7-	970207 566	0.1+	0.0
710325 675	0.9-	0.3+	710513 675	0.3-	0.3+	970207 566	1.1+	0.1+
710326 675	0.7+	1.3-	710514 675	0.3+	0.3-	970207 566	0.6-	0.1+
710327 675	0.7+	1.0-	970203 566	0.3-	0.0			
710402 675	0.4-	1.8+	970203 566	0.1-	0.1-			

1285 T-1 = 1997 AB₁₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	3.71103	ω	174.16687	-0.03074461	-0.99921949		
<i>a</i>	0.26079252	Ω	277.59313	+0.91603381	-0.01823922		
<i>e</i>	2.4262709	<i>i</i>	1.43381	+0.39992102	-0.03503911		
<i>P</i>	0.1059839	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

710324 675	0.1-	0.0	961220 327	0.2+	0.2+	970115 599	0.4+	0.0
710324 675	0.4-	0.3+	970109 691	1.1-	0.9-	970116 587	0.6+	0.0
710325 675	1.7+	0.2+	970109 691	1.5-	0.2-	970116 587	0.7-	0.3+
710325 675	1.2+	1.6-	970109 691	1.7-	0.2-	970116 587	0.8+	0.2+
710325 675	0.3-	0.4+	970113 566	0.3+	0.1+	970116 587	0.4+	0.2-
710326 675	0.0	0.3+	970113 566	1.2+	0.0	970128 587	0.3+	0.9+
710326 675	0.7-	0.4-	970113 566	0.4-	0.2+	970128 587	0.4-	0.4+
710326 675	1.6-	0.1-	970114 566	0.1-	0.3-	970128 587	0.6+	0.4+
710327 675	0.7+	0.1+	970114 566	0.1+	0.2-	970129 587	0.6+	1.1+
710402 675	0.6-	0.6+	970114 566	0.3-	0.1-	970129 587	0.3-	0.2-
961220 327	0.2-	0.2+	970114 599	0.1+	1.5-			
961220 327	0.6+	0.4+	970115 599	0.6+	0.3-			

3249 T-1 = 1996 XZ

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	2.54547	ω	48.10180	+0.75790957	-0.65226721		
<i>a</i>	0.25437836	Ω	352.58733	+0.57049986	+0.67087468		
<i>e</i>	2.4668871	<i>i</i>	4.88241	+0.31639058	+0.35280964		
<i>P</i>	0.1066599	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

710324 675	1.3-	0.3-	961202 385	0.3+	1.0+	961208 385	(2.9+	0.8+)
710325 675	1.3+	0.8-	961202 385	0.7-	0.2+	961214 385	0.2-	0.3-

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710326	675	0.2+	0.3−	961202	385	0.3−	0.7−	961214	385	0.3−	0.6−
710326	675	1.4+	0.8−	961203	385	0.3+	0.1+	961214	385	0.7+	0.5−
710327	675	1.4−	1.2+	961203	385	0.2+	0.5+				
710402	675	0.1−	1.1+	961203	385	0.1+	0.4+				

1003 T-2 = 1985 XW₁ = 1995 ST₂₆Id. G. V. Williams (*MPC* 25970, unpublished)

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	348.41851		(2000.0)	P		Q	
<i>n</i>	0.18161520	ω	263.64265	−0.53103688		−0.84731381	
<i>a</i>	3.0881704	Ω	218.43609	+0.78223588		−0.48672141	
<i>e</i>	0.1605832	<i>i</i>	0.70880	+0.32574047		−0.21251254	
<i>P</i>	5.43	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

730919	675	0.5+	0.4+	731004	675	1.6+	0.8−	950930	691	0.3−	0.9+
730919	675	1.7−	1.4−	731004	675	1.7+	1.2−	951020	010	(3.4+	1.0+)
730920	675	1.4−	0.8+	731005	675	0.9−	1.3+	951020	010	(3.6+	1.4+)
730924	675	1.0+	1.8−	731005	675	0.2+	0.1+	951020	010	(2.9+	0.3+)
730924	675	1.1+	1.4−	851214	675	0.2+	0.7−	951023	010	(3.0+	1.6+)
730925	675	1.2−	0.3−	851214	675	0.3−	0.0	951023	010	(3.0+	0.3+)
730925	675	0.0	0.4+	950919	691	0.3−	1.0+	951023	010	(3.9+	1.0+)
730929	675	0.9+	0.2+	950919	691	0.4−	1.1+	970214	691	0.7−	0.4−
730929	675	1.1+	1.3−	950919	691	0.3−	1.1+	970214	691	1.0+	0.0
730930	675	0.2+	0.2−	950930	691	0.5−	0.9+	970214	691	0.6−	0.6−
730930	675	0.4−	1.4−	950930	691	0.4−	1.0+				

2097 T-2 = 1997 BZ₆

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	312.24284		(2000.0)	P		Q	
<i>n</i>	0.26671001	ω	161.52878	−0.88726195		−0.46089541	
<i>a</i>	2.3902492	Ω	350.95949	+0.40699445		−0.76338147	
<i>e</i>	0.0563590	<i>i</i>	6.75557	+0.21707546		−0.45257504	
<i>P</i>	3.70	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

730919	675	1.1+	0.2−	730929	675	1.1+	1.5+	970131	596	0.3−	1.8+
730919	675	0.7−	0.5−	730930	675	0.3+	0.7−	970131	596	0.0	0.4+
730920	675	1.7−	0.3−	730930	675	0.7+	1.5−	970201	596	0.2+	0.1−
730924	675	0.9−	1.2+	731004	675	0.1+	1.0+	970201	596	0.0	0.8−
730924	675	1.3−	0.5−	731004	675	0.8+	0.0	970201	596	0.2+	1.8−
730925	675	1.1+	0.9+	731005	675	0.2+	0.5+	970207	596	0.0	0.1−
730925	675	1.0−	1.9−	731005	675	0.2+	0.7−	970207	596	0.2−	0.7−
730929	675	0.0	1.1+	970131	596	0.9+	0.3+	970207	596	0.9−	0.9+

3256 T-2 = 1997 CU₁₁

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	180.25247		(2000.0)	P		Q	
<i>n</i>	0.27030433	ω	252.61027	+0.44324498		+0.89576762	
<i>a</i>	2.3690127	Ω	43.75091	−0.80283798		+0.41341276	
<i>e</i>	0.1097061	<i>i</i>	2.79155	−0.39872933		+0.16337156	
<i>P</i>	3.65	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

730919	675	0.8+	1.3−	730929	675	1.9+	0.1−	970203	691	0.4−	0.1−
730919	675	0.6+	0.1+	730929	675	0.6−	0.5−	970203	691	0.3−	0.1−
730920	675	1.1−	0.5−	730930	675	1.3−	0.5−	970204	691	0.2+	0.2+

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730924	675	0.5+	0.6+	730930	675	0.1+	0.4−	970204	691	0.0	0.0
730924	675	0.2+	0.7+	731004	675	1.2+	0.9−	970210	691	0.1+	0.1+
730925	675	0.8−	1.2+	731004	675	0.6−	0.2−	970210	691	0.1+	0.1−
730925	675	0.4−	0.5−	731005	675	0.9−	0.2−	970210	691	0.9+	0.0
730925	675	0.1−	1.8+	731005	675	0.5+	0.9+				
730925	675	0.1+	0.2−	970203	691	0.6−	0.1+				

4094 T-2 = 1997 CH₁₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	93.63098		(2000.0)	P		Q	
<i>n</i>	0.18360858	ω	248.82613	+0.91071760		−0.41242517	
<i>a</i>	3.0657782	Ω	135.52305	+0.38978994		+0.84033221	
<i>e</i>	0.1497857	<i>i</i>	1.82699	+0.13659157		+0.35177729	
<i>P</i>	5.37	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

730919	675	(1.6−	3.0−)	730925	675	1.2+	0.5−	731005	675	0.5−	0.6−
730919	675	0.2+	0.8+	730929	675	(1.9+	3.3−)	970207	691	0.1+	0.1+
730919	675	0.3−	1.4−	730929	675	(1.9+	3.3−)	970207	691	0.1+	0.1+
730919	675	0.0	0.5−	730930	675	0.7+	0.9−	970207	691	0.1+	0.2+
730920	675	1.7+	1.6+	730930	675	0.7+	1.2−	970211	691	0.1−	0.2−
730924	675	1.4−	1.5+	731004	675	0.5−	0.8+	970211	691	0.0	0.0
730924	675	1.7−	0.9+	731004	675	0.4+	0.4+	970211	691	0.1−	0.1−
730925	675	1.0−	0.2+	731005	675	0.4+	0.8−				

2315 T-3 = 1997 CE₁₇

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	41.72804		(2000.0)	P		Q	
<i>n</i>	0.26816375	ω	194.93798	+0.55323662		−0.83272057	
<i>a</i>	2.3816028	Ω	221.47945	+0.76772378		+0.52016015	
<i>e</i>	0.1429964	<i>i</i>	1.94564	+0.32331012		+0.18976270	
<i>P</i>	3.68	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

771007	675	0.7+	0.8+	771016	675	1.1+	2.5−	771022	675	0.7+	0.9−
771007	675	1.0−	0.4−	771016	675	0.7+	0.7+	771022	675	1.7+	1.2+
771011	675	0.3+	0.5+	771016	675	0.4+	2.3−	970201	691	0.4−	0.2−
771011	675	0.7−	2.6+	771016	675	0.3+	0.4−	970201	691	0.7−	0.3−
771011	675	0.8−	0.4+	771017	675	0.4−	1.1−	970201	691	0.3−	0.1−
771011	675	0.1−	1.5+	771017	675	0.2+	0.1−	970211	691	0.7+	0.2+
771012	675	0.6+	0.1−	771017	675	0.7−	1.2−	970211	691	0.4+	0.2+
771012	675	0.5+	0.7+	771017	675	0.3+	1.2−	970211	691	0.3+	0.3+
771012	675	0.2+	0.9−	771021	675	1.6−	1.0+				
771012	675	0.4−	0.1−	771021	675	1.9−	1.8+				

3102 T-3 = 1997 CB₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

				Williams			
<i>M</i>	70.89638		(2000.0)	P		Q	
<i>n</i>	0.26773299	ω	262.68328	+0.96718311		−0.25119459	
<i>a</i>	2.3841567	Ω	111.85901	+0.24632044		+0.89013573	
<i>e</i>	0.1819168	<i>i</i>	2.35801	+0.06231435		+0.38021003	
<i>P</i>	3.68	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

771007	675	0.3+	1.8−	771016	675	1.1+	0.1+	771021	675	0.9+	0.4+
771011	675	1.7−	1.4−	771016	675	0.7−	1.7+	771022	675	2.1−	1.7−
771011	675	2.0+	0.0	771016	675	0.1+	1.5+	771022	675	2.1+	1.6−

771011 675	1.2–	1.3+	771016 675	0.3+	2.5+	970202 691	0.8–	0.4+
771011 675	2.0+	1.0+	771017 675	1.1–	1.1+	970202 691	0.6–	0.5–
771012 675	0.6–	0.1–	771017 675	1.0–	0.6–	970202 691	0.2–	0.2+
771012 675	0.6+	1.9–	771017 675	0.5+	1.4+	970203 691	0.5+	0.2+
771012 675	1.1–	1.0–	771017 675	0.0	0.1–	970203 691	0.6+	0.3–
771012 675	0.4–	0.3–	771021 675	0.1–	0.5–	970203 691	0.6+	0.1–

3247 T-3 = 1997 CD₈

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.27468186	ω	143.25525	+0.69590525	+0.71808314				
<i>a</i>	2.3437758	Ω	170.83328	–0.67093866	+0.65435218				
<i>e</i>	0.1851384	<i>i</i>	3.06336	–0.25604139	+0.23702285				
<i>P</i>	3.59	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	6		

Residuals in seconds of arc

771007 675	0.2–	0.8–	771016 675	0.6–	0.2–	970201 691	0.2+	0.0
771011 675	0.4–	1.0+	771017 675	0.2–	0.2+	970201 691	0.4–	0.1+
771011 675	0.7–	1.2+	771017 675	0.8–	0.2–	970207 691	0.1+	0.0
771012 675	0.2+	0.1–	771021 675	0.7+	0.3+	970207 691	0.3+	0.1+
771012 675	1.6+	0.7–	771021 675	0.4–	1.1–	970207 691	0.2–	0.1+
771016 675	0.6+	0.4+	970201 691	0.0	0.3–			

4122 T-3 = 1997 CY₁₄

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.26810614	ω	13.44795	–0.22843102	–0.97193201				
<i>a</i>	2.3819440	Ω	89.77846	+0.88793682	–0.23169829				
<i>e</i>	0.1469437	<i>i</i>	3.22634	+0.39923361	–0.04079310				
<i>P</i>	3.68	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	6		

Residuals in seconds of arc

771011 675	1.1+	1.6+	771021 675	1.9+	0.4+	970210 691	0.1+	0.1+
771011 675	0.6–	1.9+	771021 675	1.9+	2.3+	970210 691	0.4–	0.5–
771012 675	1.3–	0.2–	970204 691	0.2–	0.1–	970213 691	0.5+	0.0
771012 675	0.2+	0.8–	970204 691	0.3–	0.1–	970213 691	0.4+	0.0
771016 675	0.9–	1.1–	970206 691	0.0	0.0	970213 691	0.5+	0.1+
771016 675	0.7+	1.6–	970206 691	0.2–	0.2+	970215 691	0.0	0.2+

771017 675	1.5–	0.8–	970206 691	0.0	0.2–	970215 691	0.2–	0.1+
771017 675	1.6–	1.4–	970210 691	0.1–	0.1+	970215 691	0.1–	0.2+

4220 T-3 = 1991 GU₁₀

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.17683138	ω	47.73092	+0.22429983	–0.95489506				
<i>a</i>	3.1436185	Ω	30.96477	+0.74511578	+0.03935197				
<i>e</i>	0.1277233	<i>i</i>	22.22238	+0.62808602	+0.29432437				
<i>P</i>	5.57	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	6		

Residuals in seconds of arc

771007 675	0.4+	0.4–	771017 675	0.0	0.3+	910409 033	0.1+	0.2–
771011 675	2.0+	0.8–	771017 675	0.4–	0.5+	910411 033	1.0–	0.2+
771011 675	0.8+	0.3+	771021 675	1.3–	0.1+	910411 033	0.5+	1.2+
771012 675	0.5–	0.9–	771021 675	0.8–	0.6+	910412 033	0.4+	0.2–
771012 675	1.5–	0.1+	771022 675	0.3+	1.3–	910413 033	0.7–	0.7–
771016 675	0.1+	1.8+	771022 675	1.3+	2.3–	910419 675	0.4+	0.5–
771016 675	0.0	1.7+	910409 033	0.5+	0.4+	910419 675	0.6–	0.7–

4237 T-3 = 1994 LG₈ = 1996 WR₂

Epoch 1996 Nov. 13.0 TT = JDT 2450400.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.27038618	ω	35.28901	–0.58629229	–0.80581618				
<i>a</i>	2.3685346	Ω	90.74712	+0.72282251	–0.56673140				
<i>e</i>	0.1487100	<i>i</i>	4.77273	+0.36577176	–0.17168520				
<i>P</i>	3.65	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

771007 675	(1.3+	3.3–)	771021 675	0.8–	0.4+	940609 809	0.1+	0.2+
771011 675	1.5+	2.3–	771021 675	0.4–	0.3–	961121 327	0.4+	1.8+
771011 675	0.2+	1.5–	771022 675	1.2–	0.7+	961121 327	0.2+	2.0+
771012 675	0.3+	0.7+	771022 675	0.5–	1.6+	961121 327	0.5+	1.8+
771012 675	0.5+	1.4–	940608 809	(5.1–	0.3+)	961121 327	0.1+	2.4+
771016 675	0.2+	0.6+	940608 809	(3.3–	0.3–)	970211 411	0.5–	1.0–
771016 675	0.4+	0.4+	940608 809	1.9–	0.1+	970211 411	0.1–	0.7–
771017 675	0.1+	0.7+	940609 809	1.8+	0.7+	970212 411	0.3–	1.4–
771017 675	0.1+	0.3–	940609 809	0.4+	1.4+	970212 411	0.0	1.1–

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
1969 TR ₁	13.5	961113	2.03324	346.53508	353.28085	1.94685	0.2692280	2.2670709	72	7	1928–1996	0.85	M-v	2	Williams	28881	1969 TR ₁
1973 QG ₂	13.0	961113	106.41359	329.19709	47.53344	2.83813	0.2012419	3.0505856	21	6	1973–1995	0.64	M-v	1	Williams	28610	1973 QG ₂
1975 EA ₃	13.5	961113	331.51957	175.66646	29.16429	3.54754	0.1445738	2.3593417	30	8	1954–1995	0.83	M-v	2	Williams	28881	1975 EA ₃
1975 SK	13.0	961113	265.94141	324.04130	69.80787	2.41106	0.1921252	3.1644005	21	5	1975–1994	0.51	M-v	1	Williams	24580	1975 SK
1975 SZ ₁	16.0	961113	25.21211	248.23710	173.48565	2.93638	0.1720391	2.2729244	12	3	1975–1997	0.62	M-v	5	Williams	22696	1975 SZ ₁
1976 DA ₁	14.5	961113	308.40947	58.86691	134.64778	4.87247	0.1167973	2.2891880	16	3	1976–1997	0.80	M-v	5	Williams	27441	1976 DA ₁
1976 DJ ₁	12.0	961113	157.72402	96.00646	114.01982	5.97588	0.1357947	3.9850274	22	6	1954–1995	0.69	M-v	1	Williams	25972	1976 DJ ₁
1976 QL ₂	12.5	961113	139.50372	7.67954	35.71125	9.92256	0.0932092	3.1642312	22	4	1976–1994	0.96	M-v	2	Williams	28881	1976 QL ₂
1976 UG ₂	14.5	961113	125.90027	23.70511	326.72379	2.21986	0.1999688	2.4373247	16	4	1953–1997	0.75	M-v	2	Williams	23787	1976 UG ₂
1977 AW ₂	12.5	961113	192.79032	6.01890	346.50228	3.41094	0.1087337	2.7948190	29	6	1977–1996	0.62	M-v	2	Williams	27930	1977 AW ₂
1977 EL	14.0	961113	259.69155	121.63305	131.17183	6.14785	0.1478601	2.2189444	25	6	1975–1997	0.79	M-v	1	Williams	28610	1977 EL
1977 QF ₁	12.5	961113	157.65843	344.88079	355.77585	13.36141	0.1778942	2.6633721	29	4	1977–1997	0.72	M-v	3	Williams	23535	1977 QF ₁
1978 NS	14.5	961113	137.62726	276.43869	71.33222	0.44985	0.2062237	3.0256955	22	4	1978–1997	0.61	M-v	4	Williams	23778	1978 NS
1978 OB	15.0	961113	133.34705	199.60204	115.04689	6.52116	0.2325864	2.2624443	19	3	1978–1997	0.66	M-v	4	Williams	28881	1978 OB

1978 QC ₃	12.0	961113	213.99667	292.18336	133.68732	12.65491	0.1667798	2.8481062	29	8	1966–1995	0.78	M-v	1	Williams	25338	1978 QC ₃
1978 RN ₅	13.5	961113	14.42599	14.31800	356.40396	11.16080	0.3320203	2.7215474	28	4	1960–1997	0.79	M-v	2	Williams	28881	1978 RN ₅
1978 RY ₆	12.5	961113	301.27205	118.13896	332.07516	9.44936	0.0736753	3.2301036	35	6	1978–1996	0.72	M-v	1	Williams	28882	1978 RY ₆
1978 SJ ₅	14.5	961113	332.22389	330.63622	31.48402	5.77213	0.2131490	2.3923472	12	3	1978–1993	0.64	M-v	4	Williams	28882	1978 SJ ₅
1978 SP ₅	13.0	961113	330.72669	195.40460	186.52013	3.94191	0.1088417	2.7739065	12	4	1978–1996	0.87	M-v	3	Williams	27725	1978 SP ₅
1978 UF ₆	14.0	961113	189.00298	280.40769	3.47970	6.48821	0.1323424	2.2675354	30	6	1954–1997	0.64	M-v	1	Williams	28882	1978 UF ₆
1978 VP ₁₁	12.5	961113	123.07290	259.31752	93.97565	3.11143	0.1798048	3.1670106	29	6	1978–1997	0.99	M-v	1	Williams	26755	1978 VP ₁₁
1979 MD ₂	14.0	961113	227.29765	248.04925	186.26605	3.37944	0.1805852	2.2998757	13	5	1954–1996	0.90	M-v	2	Williams	27453	1979 MD ₂
1979 MM ₈	14.5	961113	159.47612	154.58518	178.35226	3.64406	0.1253235	2.4506797	27	5	1978–1997	0.81	M-v	2	Williams	26187	1979 MM ₈
1979 QR ₁	14.0	961113	253.43631	257.91021	347.57953	1.56400	0.0685769	2.8961945	36	5	1979–1997	0.85	M-v	1	Williams	26755	1979 QR ₁
1979 QT ₈	14.0	961113	16.70669	1.71220	338.38013	2.57891	0.1612269	2.2695836	18	6	1979–1993	0.85	M-v	2	Williams	27930	1979 QT ₈
1979 SG ₂	15.5	961113	79.00565	58.82532	301.05879	5.52645	0.2107127	2.2121254	31	3	1979–1997	0.86	M-v	4	Williams	28882	1979 SG ₂
1979 XJ	14.0	961113	121.45894	246.37606	107.08354	6.06828	0.2384129	2.1924924	49	3	1979–1992	0.62	M-v	3	Williams	21252	1979 XJ
1980 FY	14.0	961113	27.74524	277.78917	321.12483	1.89920	0.0383829	2.1612260	38	7	1950–1996	0.52	M-v	2	Williams	26913	1980 FY
1980 PB ₂	12.0	961113	343.17172	114.47895	190.28573	10.50068	0.1024747	3.1862904	36	6	1955–1996	0.76	M-v	1	Williams	27323	1980 PB ₂
1980 UM ₁	14.5	961113	228.59542	174.48280	269.59424	4.83946	0.0981395	2.2518634	13	6	1953–1995	0.71	M-v	2	Marsden	22492	1980 UM ₁
1981 EG ₁	13.5	961113	198.25229	226.09522	22.19609	3.63107	0.0694568	2.6146014	47	4	1981–1994	0.83	M-v	1	Williams	28882	1981 EG ₁
1981 EY ₉	15.0	961113	260.06111	177.06481	298.89017	3.69708	0.1429724	2.2658498	34	3	1981–1993	0.83	M-v	3	Williams	22968	1981 EY ₉
1981 EF ₁₄	16.0	961113	174.21287	338.64046	267.25209	2.52422	0.1095420	2.2518598	24	4	1979–1997	0.87	M-v	2	Williams	25078	1981 EF ₁₄
1981 EQ ₁₄	15.0	961113	167.53968	63.83620	319.32004	7.36870	0.1653372	2.4657727	29	4	1981–1996	0.82	M-v	2	Williams	26755	1981 EQ ₁₄
1981 ES ₁₄	14.5	961113	214.17191	318.38777	299.64760	4.24168	0.1321746	2.5852279	29	5	1978–1997	0.90	M-v	2	Williams	26578	1981 ES ₁₄
1981 EC ₁₈	14.5	961113	181.21809	107.17764	176.83904	6.14963	0.0953545	3.1724395	22	3	1981–1994	1.03	M-v	4	Williams	24557	1981 EC ₁₈
1981 EM ₁₈	14.0	961113	193.32060	201.44355	337.80115	5.86615	0.1002526	2.2803385	30	4	1979–1996	0.82	M-v	2	Williams	27908	1981 EM ₁₈
1981 EL ₂₀	14.0	961113	224.44758	315.36499	343.37987	9.21498	0.1070096	3.0570614	30	3	1981–1994	0.91	M-v	4	Williams	15407	1981 EL ₂₀
1981 EO ₂₁	15.5	961113	191.69027	84.24175	316.88331	1.62038	0.2127171	2.4006782	17	5	1953–1994	0.83	M-v	2	Williams	22598	1981 EO ₂₁
1981 EV ₂₂	13.5	961113	276.37702	220.29440	168.74834	3.29385	0.2046486	2.7744937	17	3	1981–1994	1.11	M-v	3	Williams	22949	1981 EV ₂₂
1981 ES ₂₃	15.5	961113	59.59170	242.87075	155.55329	1.49116	0.0999784	2.5702516	18	3	1981–1997	0.75	M-v	5	Williams	21931	1981 ES ₂₃
1981 EU ₂₆	14.0	961113	90.67765	191.41990	176.57566	5.40339	0.1596988	3.1666425	18	4	1981–1997	0.69	M-v	2	Marsden	23857	1981 EU ₂₆
1981 EB ₂₇	15.5	961113	351.76557	324.27377	159.82688	3.48263	0.0635592	2.5534849	37	5	1981–1997	0.63	M-v	2	Williams	26395	1981 EB ₂₇
1981 EY ₂₇	14.0	961113	214.66677	301.78764	5.89216	11.78211	0.1829231	2.5273616	32	3	1981–1994	0.85	M-v	3	Williams	28611	1981 EY ₂₇
1981 EF ₃₀	14.5	961113	168.36595	333.54737	162.59309	6.09006	0.0648983	2.3427936	33	5	1951–1993	0.95	M-v	2	Williams	28611	1981 EF ₃₀
1981 EG ₃₉	14.5	961113	119.28956	358.00128	350.07054	4.98051	0.1585129	3.1473584	17	6	1981–1997	0.92	M-v	2	Williams	27726	1981 EG ₃₉
1981 EA ₄₀	14.5	961113	160.09305	174.82969	133.21594	2.79550	0.1773645	3.1858656	19	4	1977–1997	0.95	M-v	3	Williams	23788	1981 EA ₄₀
1981 ER ₄₇	14.0	961113	126.63134	344.03607	36.19302	2.48117	0.1750638	2.5149365	22	5	1951–1997	0.82	M-v	4	Marsden	26188	1981 ER ₄₇
1981 JS ₂	14.5	961113	22.83987	295.09045	0.14878	2.14640	0.2005191	2.3914595	29	4	1978–1995	0.53	M-v	1	Williams	24911	1981 JS ₂
1981 QF	14.5	961113	251.93553	19.72712	341.99244	3.64720	0.2477082	2.5546789	26	6	1976–1993	0.94	M-v	2	Williams	28611	1981 QF
1981 QE ₂	14.5	961113	140.19916	173.93602	152.26268	7.56390	0.2261454	2.2989991	18	3	1981–1997	0.81	M-v	3	Williams	22430	1981 QE ₂
1981 QW ₂	15.0	961113	248.27591	271.64528	40.77937	3.72780	0.1773209	2.2106983	37	2	1981–1991	0.78	M-v	5	Williams	20329	1981 QW ₂
1981 SZ ₆	14.5	961113	63.90840	315.11356	72.94981	2.08312	0.1992189	2.3483253	16	4	1981–1997	0.66	M-v	2	Williams	28882	1981 SZ ₆
1981 TZ	14.0	961113	91.24871	350.02826	357.66838	9.18126	0.1596558	2.8034350	26	4	1981–1997	0.53	M-v	2	Williams	27553	1981 TZ
1981 UT ₇	12.5	961113	304.02707	207.16663	137.23430	1.73784	0.2034117	3.1344098	15	4	1953–1996	0.83	M-v	1	Williams	27324	1981 UT ₇
1981 UM ₁₁	14.5	961113	90.11614	186.18508	185.00102	2.76385	0.1535187	2.3410758	22	4	1981–1997	0.85	M-v	3	Williams	25734	1981 UM ₁₁
1981 UD ₂₃	14.0	961113	76.92158	299.75165	77.41441	3.32197	0.0825631	2.3592308	15	4	1981–1997	0.51	M-v	2	Williams	28611	1981 UD ₂₃
1981 UC ₂₆	13.5	961113	305.87393	222.53266	159.62019	3.81426	0.1217756	3.0625304	8	3	1949–1992	0.96	M-v	4	Williams	22075	1981 UC ₂₆
1981 WS ₁	14.0	961113	268.31337	220.26167	66.50419	5.96189	0.1823845	2.2498565	14	3	1981–1994	0.92	M-v	4	Williams	28611	1981 WS ₁
1982 BE ₁	13.5	961113	268.75380	302.82848	131.16423	6.49617	0.1883234	2.5553436	21	4	1982–1993	0.82	M-v	4	Williams	23347	1982 BE ₁
1982 JM ₁	13.0	961113	219.57191	207.75059	77.32332	3.53034	0.1643407	3.0562278	24	5	1978–1997	0.48	M-v	1	Marsden	26578	1982 JM ₁
1982 UE ₇	13.0	961113	225.48056	222.47651	173.17537	1.31798	0.1869512	3.0860621	31	5	1982–1996	0.76	M-v	2	Williams	28084	1982 UE ₇
1983 CA ₁	13.0	961113	334.76047	180.94536	337.73457	7.47146	0.1578365	2.7823635	31	7	1955–1997	0.79	M-v	2	Williams	27931	1983 CA ₁
1983 RV ₃	13.5	961113	345.38653	144.22130	175.85218	5.40989	0.1699408	2.7299439	40	2	1983–1991	0.88	M-v	5	Williams	27931	1983 RV ₃
1983 RR ₄	13.5	961113	193.57317	196.61614	169.25245	13.88538	0.1841647	2.3710003	26	6	1932–1996	0.70	M-v	2	Williams	26923	1983 RR ₄
1983 UG	14.0	961113	319.27811	301.67259	77.72502	5.78136	0.2220167	2.2538839	22	5	1966–1995	0.75	M-v	2	Williams	28883	1983 UG

1983 VH ₁	11.5	961113	146.72964	320.14802	79.22238	11.10885	0.1106993	3.0786428	51	4	1954–1996	0.83	M-v	3	Williams	27324	1983 VH ₁
1984 BC	16.0	961113	339.53510	43.79509	129.49155	21.38620	0.5347302	3.4920408	47	2	1984–1997	0.61	M-v	2	Williams	28883	1984 BC
1984 DQ	14.0	961113	352.36602	251.02436	330.85702	11.07553	0.2242562	2.5523261	60	6	1980–1994	0.57	M-v	1	Williams	22076	1984 DQ
1984 DD ₁	15.0	961113	217.16262	279.94376	328.28695	3.25020	0.1072157	2.2310936	39	3	1984–1997	0.56	M-v	3	Williams	28839	1984 DD ₁
1984 HO ₁	15.0	961113	317.63703	233.04412	22.99652	3.39910	0.1017086	2.1483326	22	5	1984–1994	0.87	M-v	2	Williams	27726	1984 HO ₁
1984 MR	13.5	961113	152.81273	184.17028	147.96659	7.69012	0.1507133	2.2999526	14	5	1981–1997	0.85	M-v	2	Williams	26188	1984 MR
1984 SB ₁	14.5	961113	280.34111	330.25094	351.95847	5.98197	0.1867209	2.2109295	38	4	1984–1996	0.66	M-v	2	Williams	27119	1984 SB ₁
1984 SS ₅	13.0	961113	77.33882	277.76485	83.88476	6.18386	0.1628494	3.1201225	45	3	1984–1997	0.64	M-v	3	Williams	26578	1984 SS ₅
1984 UX	13.5	961113	0.07786	22.16630	10.32886	6.84080	0.3150467	2.5374907	50	4	1984–1997	0.78	M-v	2	Williams	28883	1984 UX
1985 CN ₁	14.0	961113	129.95355	144.21338	13.12172	3.17661	0.0993995	2.3002722	66	5	1978–1994	0.57	M-v	1	Williams	24581	1985 CN ₁
1985 GA ₁	14.0	961113	127.72171	141.25830	132.84418	5.90512	0.1715343	2.2244377	35	6	1955–1996	0.65	M-v	1	Williams	28883	1985 GA ₁
1985 PL	13.5	961113	245.39036	31.66043	320.54215	12.79695	0.2252818	2.5712052	24	6	1950–1995	0.83	M-v	2	Williams	24759	1985 PL
1985 RQ	15.0	961113	286.15107	329.71443	18.47176	6.38668	0.2967314	2.5218344	19	5	1973–1996	0.95	M-v	3	Williams	27454	1985 RQ
1985 RU ₂	14.5	961113	85.07856	8.47682	16.94659	2.66544	0.1585792	2.2397523	49	6	1950–1997	0.67	M-v	1	Williams	26418	1985 RU ₂
1985 RW ₂	13.5	961113	137.53959	249.52739	96.25687	1.77636	0.0799650	2.7865583	37	6	1985–1997	0.52	M-v	2	Williams	28883	1985 RW ₂
1985 RA ₄	14.0	961113	206.38548	305.22214	350.14948	7.25992	0.1002266	2.7486043	36	3	1985–1997	0.54	M-v	3	Williams	24911	1985 RA ₄
1985 SR	14.0	961113	49.09275	248.97810	39.33736	2.90668	0.1943561	2.3902890	14	4	1977–1996	0.81	M-v	2	Williams	28612	1985 SR
1985 UH ₂	13.5	961113	55.32135	292.65111	65.88887	3.18101	0.1042008	2.3420760	26	3	1985–1996	0.59	M-v	4	Williams	28840	1985 UH ₂
1985 VL	12.0	961113	195.95977	346.87913	209.48257	14.44107	0.0268959	3.1711585	20	3	1985–1997	0.60	M-v	3	Williams	28883	1985 VL
1986 AJ	14.0	961113	56.93791	91.12738	290.77375	16.86169	0.1045553	1.9551500	29	4	1986–1997	0.66	M-v	2	Williams	25537	1986 AJ
1986 ED	13.5	961113	305.52093	173.11691	45.13041	3.75836	0.2009006	2.3662034	35	5	1986–1997	0.79	M-v	2	Williams	26418	1986 ED
1986 QA ₁	13.5	961113	290.68885	121.45931	51.60571	3.32865	0.0341563	2.6586499	43	3	1986–1997	0.63	M-v	3	Williams	28840	1986 QA ₁
1986 QL ₂	12.5	961113	343.57674	278.25930	345.22188	3.55090	0.1468936	3.1678749	44	3	1986–1996	0.71	M-v	4	Williams	27324	1986 QL ₂
1986 RE ₁	14.5	961113	26.63650	153.46637	199.54215	3.20474	0.2431973	2.2132839	51	3	1986–1996	0.67	M-v	3	Williams	28883	1986 RE ₁
1986 WV ₁	12.5	961113	262.49438	297.10640	156.61631	1.66999	0.1625674	3.1431029	16	4	1969–1996	1.00	M-v	2	Williams	27910	1986 WV ₁
1987 DO ₆	12.0	961113	65.70434	50.35139	328.32175	7.89980	0.0908749	3.0689785	48	5	1950–1995	0.65	M-v	1	Williams	25954	1987 DO ₆
1987 MC	13.0	961113	224.41590	125.62567	170.87986	7.58803	0.2410645	2.3123499	66	5	1955–1997	0.92	M-v	2	Marsden	26756	1987 MC
1987 OA	19.0	961113	345.48897	235.45411	180.33553	9.01477	0.5952759	1.4967707	49	3	1987–1997	0.71	M-v	2	Marsden	27566	1987 OA
1987 QF ₃	14.0	961113	175.64277	169.23632	135.31440	5.41640	0.0994840	2.4442147	26	3	1987–1997	1.01	M-v	5	Williams	25537	1987 QF ₃
1987 RG	12.5	961113	272.41704	205.05545	120.80232	3.52826	0.1807318	3.0918599	40	6	1954–1993	0.83	M-v	1	Williams	25338	1987 RG
1987 RQ ₂	14.5	961113	91.95800	298.28089	60.29805	3.04679	0.2628340	2.5343323	19	6	1955–1997	0.62	M-v	3	Williams	25648	1987 RQ ₂
1987 SC ₁	14.0	961113	46.75896	262.01427	139.70513	5.35289	0.2543702	2.5889771	24	3	1987–1997	0.69	M-v	2	Williams	28883	1987 SC ₁
1987 SS ₉	13.0	961113	198.64527	290.16706	113.51345	2.62374	0.1931748	3.1678205	25	7	1954–1996	0.70	M-v	1	Williams	28613	1987 SS ₉
1987 WO ₁	13.5	961113	83.77211	158.31180	234.60197	6.64536	0.0367184	2.5748783	31	5	1987–1997	0.73	M-v	2	Williams	26419	1987 WO ₁
1988 BC	12.5	961113	346.51134	53.43149	83.69736	12.67165	0.2277965	2.6788953	30	4	1988–1997	0.85	M-v	1	Williams	22272	1988 BC
1988 DF ₂	13.0	961113	34.88547	93.23832	350.95241	2.95830	0.0662577	2.6787297	33	5	1971–1997	0.78	M-v	1	Williams	26188	1988 DF ₂
1988 FM	13.0	961113	19.95326	182.27674	15.27857	13.70685	0.1124106	2.5632740	17	5	1951–1996	1.10	M-v	3	Williams	26924	1988 FM
1988 JB ₁	14.0	961113	195.91709	83.95922	149.92899	20.06336	0.4004620	3.1374668	45	3	1988–1997	0.74	M-v	2	Williams	28613	1988 JB ₁
1988 LH	13.5	961113	261.12866	321.62092	237.77567	5.85331	0.2156773	3.0228936	19	6	1956–1994	0.63	M-v	1	Williams	22825	1988 LH
1988 NR	13.0	961113	312.20083	85.38303	260.20779	13.59070	0.1509747	2.6179478	20	4	1988–1996	0.67	M-v	2	Williams	27119	1988 NR
1988 PA	17.0	961113	229.12461	137.02610	162.41512	8.20724	0.4078497	2.1501962	17	1	41 days	0.97	M-v	6	Williams	28315	1988 PA
1988 PG ₂	15.5	961113	72.59999	255.47772	133.40875	3.03786	0.2193392	2.3485214	30	4	1981–1997	0.74	M-v	2	Williams	20502	1988 PG ₂
1988 PO ₂	15.0	961113	123.57877	190.78654	149.84028	5.30471	0.1486087	2.3145736	25	4	1988–1997	0.90	M-v	2	Williams	28315	1988 PO ₂
1988 QB	13.0	961113	319.03839	240.15194	153.12176	9.19663	0.2091756	2.5563879	28	6	1964–1996	0.87	M-v	2	Williams	27932	1988 QB
1988 QU	13.0	961113	348.80333	148.61026	149.33108	15.26190	0.0336297	2.6611061	46	3	1988–1996	0.76	M-v	3	Williams	27727	1988 QU
1988 RV ₁	14.5	961113	5.45578	91.79026	11.22453	4.55653	0.0812466	2.3265566	19	3	1983–1997	0.60	M-v	4	Williams	22401	1988 RV ₁
1988 RQ ₂	12.5	961113	67.19296	252.55870	311.56183	10.90823	0.0681068	2.7829060	25	6	1954–1996	0.71	M-v	1	Williams	27933	1988 RQ ₂
1988 RF ₄	14.5	961113	151.77056	336.58882	341.97713	4.72388	0.1741767	2.2741113	32	3	1988–1997	0.98	M-v	4	Williams	28841	1988 RF ₄
1988 RK ₉	12.0	961113	215.75749	177.00662	145.61977	14.29015	0.1396666	2.9730098	27	3	1988–1994	0.64	M-v	3	Williams	28884	1988 RK ₉
1988 RL ₉	13.5	961113	122.03520	63.41494	328.13410	5.12377	0.1066732	2.2141955	26	2	1988–1990	0.86	M-v	5	Williams	17442	1988 RL ₉
1988 RA ₁₁	13.5	961113	130.69712	209.67271	121.48081	3.10979	0.0814110	3.3347690	30	6	1977–1997	0.75	M-v	1	Williams	28884	1988 RA ₁₁
1988 RV ₁₁	15.5	961113	219.56761	97.08748	165.68775	2.93427	0.1534309	2.2471497	17	2	1988–1997	0.18	M-v	4	Williams	28842	1988 RV ₁₁

1988 RJ ₁₃	14.5	961113	51.41731	241.75430	37.61304	14.43804	0.0715631	2.5813807	20	4	1971–1992	0.90	M-v	2	Williams	21972	1988 RJ ₁₃
1988 TE	13.5	961113	73.08081	97.53144	261.73136	1.17427	0.2239724	2.4036814	26	3	1976–1997	1.10	M-v	4	Williams	28842	1988 TE
1988 VJ ₂	14.0	961113	357.79406	197.03418	212.28991	5.28026	0.3311240	2.5289260	58	4	1988–1997	0.69	M-v	2	Marsden	28884	1988 VJ ₂
1988 VK ₂	13.0	961113	13.70577	305.42470	75.66916	7.48749	0.1341143	2.5518323	22	4	1988–1996	0.80	M-v	4	Williams	28884	1988 VK ₂
1988 VS ₂	13.0	961113	15.72843	154.04195	211.65971	13.13675	0.1893073	2.5753554	32	4	1988–1996	0.68	M-v	3	Williams	28884	1988 VS ₂
1988 VR ₃	14.0	961113	74.39530	194.21408	183.34835	2.24892	0.2038147	2.4145312	22	3	1988–1997	0.71	M-v	3	Williams	25648	1988 VR ₃
1988 VM ₉	14.0	961113	357.69304	60.54987	27.78420	7.10039	0.1730443	2.4420698	43	5	1969–1997	0.76	M-v	2	Williams	28884	1988 VM ₉
1988 XJ ₁	12.5	961113	180.68848	320.95935	73.83218	13.64438	0.0506912	3.1395895	24	6	1954–1996	0.92	M-v	2	Williams	25439	1988 XJ ₁
1988 XB ₅	14.0	961113	43.91624	100.87064	63.42431	4.79770	0.1031239	2.2448078	27	6	1981–1996	0.87	M-v	2	Williams	28613	1988 XB ₅
1989 CP	13.5	961113	35.45289	115.62005	350.58448	2.36137	0.1379842	2.4495256	29	5	1966–1997	1.02	M-v	2	Williams	26189	1989 CP
1989 FG	13.0	961113	2.00163	69.27497	53.60605	3.84517	0.1309676	2.5563409	27	6	1955–1997	0.63	M-v	1	Williams	26189	1989 FG
1989 GC ₁	14.5	961113	248.38179	29.77251	294.45934	2.83680	0.1279888	2.4439808	29	5	1989–1996	0.71	M-v	2	Williams	28884	1989 GC ₁
1989 GJ ₂	14.0	961113	199.73780	166.47903	229.88160	7.18883	0.1126539	2.3613204	21	4	1976–1994	0.81	M-v	2	Williams	24582	1989 GJ ₂
1989 KE	14.0	961113	272.45081	94.13824	151.51357	14.00482	0.1342466	2.6100090	15	4	1989–1997	0.78	M-v	3	Williams	22228	1989 KE
1989 QV	13.0	961113	10.81451	37.01661	24.76550	23.56418	0.1329131	3.1656095	19	2	1989–1996	0.72	M-v	5	Marsden	28884	1989 QV
1989 SF	13.5	961113	50.05705	92.88963	325.84761	3.75342	0.0884097	2.1585883	64	5	1989–1997	0.88	M-v	1	Marsden	27728	1989 SF
1989 SW ₂	13.0	961113	325.87327	129.33900	83.91099	5.72673	0.1487891	2.8728616	31	4	1989–1995	0.68	M-v	2	Williams	26419	1989 SW ₂
1989 SY ₁₃	14.0	961113	113.46841	215.27267	296.71569	12.07151	0.1079785	2.6565175	11	2	1989–1995	0.68	M-v	4	Williams	27933	1989 SY ₁₃
1989 TZ ₁₅	12.5	961113	295.04592	257.04888	353.85682	8.59579	0.1142789	2.7935189	25	6	1975–1994	0.75	M-v	2	Williams	20636	1989 TZ ₁₅
1989 UN ₃	13.0	961113	103.79954	219.60176	150.96556	2.30047	0.1771479	3.2165880	36	5	1989–1997	0.65	M-v	1	Williams	26925	1989 UN ₃
1989 VQ	13.5	961113	337.77257	291.33030	65.03481	2.66707	0.2211268	2.4192839	19	4	1974–1993	0.77	M-v	3	Bardwell	22081	1989 VQ
1989 WT	13.5	961113	289.66367	69.18121	67.25281	4.42863	0.0323664	2.2683326	22	4	1984–1996	0.69	M-v	2	Williams	28884	1989 WT
1989 WS ₂	13.0	961113	18.46473	318.50380	107.21577	7.40255	0.1355645	2.2548084	18	3	1989–1997	0.88	M-v	4	Williams	28884	1989 WS ₂
1990 BN	12.5	961113	158.27308	344.88799	152.93979	9.91304	0.0976958	2.7888445	28	3	1990–1996	0.79	M-v	3	Williams	27566	1990 BN
1990 EL ₈	13.5	961113	189.93231	290.18135	352.46131	4.21788	0.0364772	2.3825578	18	4	1990–1997	0.65	M-v	2	Williams	26168	1990 EL ₈
1990 FR ₁	12.5	961113	239.46112	256.05500	107.71921	16.68103	0.0226364	3.1585399	13	4	1990–1996	0.71	M-v	1	Williams	27119	1990 FR ₁
1990 JN ₁	13.0	961113	127.04626	28.69677	239.31764	1.21781	0.0173539	2.8291719	14	4	1953–1996	0.73	M-v	2	Williams	22592	1990 JN ₁
1990 OW ₂	14.0	961113	229.45904	300.94001	81.82556	8.34694	0.1354420	3.2303463	24	5	1954–1995	0.64	M-v	1	Williams	28885	1990 OW ₂
1990 QM ₁	13.0	961113	358.03970	245.67112	147.29398	2.52640	0.1780546	3.1760573	40	3	1979–1997	0.97	M-v	4	Williams	28072	1990 QM ₁
1990 QR ₁	13.5	961113	139.76240	193.59553	129.45860	1.13146	0.0654749	2.7845451	48	2	1990–1997	0.71	M-v	5	Williams	28843	1990 QR ₁
1990 RV	12.5	961113	294.39008	353.84563	119.86640	2.66752	0.1431116	3.0804371	22	4	1990–1997	0.93	M-v	1	Williams	28885	1990 RV
1990 RK ₇	14.0	961113	3.45705	356.90028	105.36318	2.08596	0.1344560	2.8359014	30	7	1952–1997	0.86	M-v	2	Williams	25974	1990 RK ₇
1990 RW ₇	13.0	961113	359.38374	227.02605	164.62731	3.59340	0.1749036	3.1703071	24	2	1990–1997	0.61	M-v	4	Williams	28298	1990 RW ₇
1990 RP ₉	13.5	961113	292.84737	44.40720	247.54292	5.61748	0.1147031	2.3591974	22	4	1971–1994	0.71	M-v	3	Williams	24582	1990 RP ₉
1990 RM ₁₇	12.5	961113	51.85539	47.36822	342.97783	10.24003	0.1114978	2.9994949	17	4	1977–1997	0.82	M-v	3	Williams	20926	1990 RM ₁₇
1990 SE ₁₁	13.0	961113	152.33084	0.97066	312.74524	8.30794	0.1475728	2.7849826	18	3	1990–1997	0.46	M-v	4	Williams	25956	1990 SE ₁₁
1990 TO ₃	13.5	961113	210.23063	55.65330	216.83047	1.24902	0.0290040	2.8418828	21	4	1990–1997	0.59	M-v	2	Williams	28885	1990 TO ₃
1990 TH ₇	13.5	961113	58.48415	314.63042	6.17250	1.00552	0.2332832	3.2820774	21	5	1954–1997	0.41	M-v	3	Marsden	28885	1990 TH ₇
1990 TP ₇	13.5	961113	29.61684	63.35946	9.99243	1.43248	0.1036428	3.0050323	33	4	1987–1997	0.65	M-v	1	Williams	27728	1990 TP ₇
1990 TH ₁₂	14.0	961113	186.17372	231.02488	245.30728	4.15842	0.1457546	2.3712781	19	3	1990–1995	0.64	M-v	4	Marsden	23991	1990 TH ₁₂
1990 TR ₁₂	12.5	961113	140.47672	84.04520	240.45790	9.47620	0.0988340	2.9899614	51	5	1985–1997	0.64	M-v	1	Marsden	27325	1990 TR ₁₂
1990 UT ₁₀	13.0	961113	42.83558	269.86755	139.97820	1.30286	0.1569654	2.9989696	29	4	1990–1997	0.78	M-v	2	Williams	26420	1990 UT ₁₀
1990 VL ₁	13.5	961113	209.33888	111.75152	239.17957	8.44872	0.2165528	2.5566767	13	2	1990–1994	0.77	M-v	5	Williams	24389	1990 VL ₁
1990 VQ ₆	13.0	961113	115.74255	237.28226	118.55924	10.62582	0.0836073	2.9921523	40	3	1990–1997	0.62	M-v	3	Williams	26757	1990 VQ ₆
1990 VY ₁₃	12.0	961113	9.89764	31.69722	61.12808	3.62811	0.1440886	3.1238416	24	5	1989–1997	0.71	M-v	1	Bardwell	27711	1990 VY ₁₃
1990 WD ₂	14.0	961113	146.33897	7.43627	103.33621	7.32583	0.0796939	2.4772039	21	3	1990–1994	0.85	M-v	4	Williams	24565	1990 WD ₂
1990 WB ₄	12.0	961113	5.03194	205.63478	270.61326	9.59743	0.0804586	3.0107135	21	3	1990–1997	0.76	M-v	3	Williams	26420	1990 WB ₄
1990 YX	14.5	961113	170.13339	77.29760	8.40207	5.24249	0.1386228	2.5530275	12	4	1977–1993	0.61	M-v	4	Williams	22083	1990 YX
1991 AC	12.5	961113	63.22894	62.19858	58.07329	2.88370	0.0154507	2.8874251	22	3	1989–1996	0.83	M-v	5	Williams	26757	1991 AC
1991 AJ	12.0	961113	9.53888	2.46070	112.09267	10.35503	0.1737309	3.1995002	36	6	1951–1996	0.60	M-v	1	Williams	28885	1991 AJ
1991 AH ₁	14.5	961113	175.88638	256.38150	267.30379	1.16770	0.1402143	2.3958005	29	4	1989–1996	0.75	M-v	3	Williams	28885	1991 AH ₁
1991 AQ ₂	14.5	961113	195.87784	178.24839	287.80169	0.06905	0.1740409	2.4625379	16	2	1991–1993	0.95	M-v	6	Williams	23781	1991 AQ ₂

1991 AV ₂	14.0	961113	180.06303	188.73066	319.62749	1.56975	0.1444336	2.4184796	12	2	1991–1995	0.54	M-v	5	Williams	25063	1991 AV ₂
1991 AC ₃	14.0	961113	14.52293	119.63755	136.06875	4.52215	0.1575718	2.6455450	40	3	1991–1996	0.73	M-v	3	Williams	27325	1991 AC ₃
1991 BK	13.0	961113	132.39983	47.18891	67.70545	5.74744	0.2837047	2.6270348	26	3	1991–1996	0.81	M-v	2	Williams	27934	1991 BK
1991 CS	17.5	961113	11.96440	249.44736	156.91997	37.12123	0.1645788	1.1228157	145	2	1991–1997	0.60	M-v	1	Williams	28316	1991 CS
1991 CU ₁	14.0	961113	242.23585	228.07450	276.87382	3.87676	0.1334479	2.2855538	35	8	1955–1996	0.95	M-v	2	Williams	28316	1991 CU ₁
1991 DU	13.0	961113	161.86591	15.62102	31.67017	2.27201	0.0821395	2.8772895	33	3	1991–1996	0.54	M-v	3	Williams	26925	1991 DU
1991 FO ₁	13.0	961113	158.87149	68.82550	356.00930	1.53873	0.0637271	2.8593098	27	4	1979–1996	0.95	M-v	2	Williams	26925	1991 FO ₁
1991 FB ₄	13.0	961113	39.82122	262.27007	352.45249	4.40619	0.1127229	2.7428798	28	5	1974–1995	0.74	M-v	1	Williams	28085	1991 FB ₄
1991 GY ₄	15.0	961113	192.07987	196.62449	59.05090	2.08017	0.0642736	2.2396416	26	3	1991–1994	0.77	M-v	4	Williams	28085	1991 GY ₄
1991 GM ₉	13.0	961113	11.11972	43.81893	130.27812	2.09455	0.1285410	3.2049572	31	5	1949–1996	0.93	M-v	1	Williams	27934	1991 GM ₉
1991 GG ₁₀	14.5	961113	304.46816	345.85857	115.85234	4.03591	0.1444491	2.2790056	26	4	1991–1996	0.59	M-v	3	Williams	28316	1991 GG ₁₀
1991 GK ₁₀	13.5	961113	151.35908	340.36301	108.74318	3.26388	0.0764858	2.8838933	30	4	1979–1996	0.53	M-v	2	Williams	27120	1991 GK ₁₀
1991 GM ₁₀	11.5	961113	126.43912	234.87955	105.81423	4.64668	0.2265156	3.9971458	18	3	1978–1997	0.54	M-v	3	Williams	28845	1991 GM ₁₀
1991 GH ₁₁	14.0	961113	49.02297	2.53095	144.20433	2.44750	0.2058215	3.0794767	14	2	1980–1991	0.73	M-v	7	Williams	20638	1991 GH ₁₁
1991 HC	13.5	961113	178.60457	184.81428	88.89743	4.66211	0.1434007	2.2690252	21	5	1954–1997	0.85	M-v	2	Williams	27728	1991 HC
1991 PY ₂	13.5	961113	331.46595	168.57492	324.21809	9.44622	0.1257538	2.3919772	15	4	1975–1997	0.75	M-v	2	Williams	23516	1991 PY ₂
1991 PT ₁₄	14.5	961113	284.07808	50.86026	141.82453	2.82614	0.0479146	2.3732123	27	3	1991–1997	0.81	M-v	3	Williams	28886	1991 PT ₁₄
1991 PG ₁₅	14.5	961113	126.75684	247.04409	102.59082	1.66827	0.2033262	2.4313179	18	3	1991–1997	0.65	M-v	4	Williams	27120	1991 PG ₁₅
1991 PG ₁₇	13.5	961113	219.62827	311.43903	308.04237	12.14047	0.1786879	2.3324071	18	3	1991–1997	0.54	M-v	3	Williams	27120	1991 PG ₁₇
1991 QF	14.5	961113	83.17137	316.52874	42.27223	16.91152	0.3159234	2.5269420	18	3	1991–1997	0.38	M-v	3	Marsden	23339	1991 QF
1991 RH ₇	13.5	961113	123.71459	30.94282	249.91220	6.88536	0.1904046	2.7806149	30	4	1986–1997	0.70	M-v	3	Williams	28615	1991 RH ₇
1991 RB ₁₁	13.0	961113	318.09658	240.18965	158.17914	1.53699	0.1447471	3.1190058	35	5	1975–1996	0.53	M-v	1	Williams	27913	1991 RB ₁₁
1991 RB ₁₉	14.0	961113	76.00462	45.57701	334.91852	10.56787	0.1087564	2.5444954	19	4	1987–1997	0.73	M-v	3	Williams	28316	1991 RB ₁₉
1991 RW ₁₉	14.5	961113	191.76995	44.99902	247.34461	2.39915	0.2000592	2.3734303	24	5	1969–1997	0.54	M-v	1	Williams	25974	1991 RW ₁₉
1991 RD ₂₄	14.0	961113	207.09906	138.24513	121.43759	5.61066	0.1055537	2.4193497	29	6	1982–1997	0.74	M-v	1	Williams	25974	1991 RD ₂₄
1991 SN ₁	14.5	961113	204.41217	160.36795	203.41717	5.79013	0.1676068	2.2193624	32	5	1951–1996	0.76	M-v	1	Williams	26925	1991 SN ₁
1991 SM ₂	14.0	961113	126.51795	57.89074	15.92236	6.94636	0.0658207	2.2719153	17	2	1991–1993	0.82	M-v	4	Williams	23517	1991 SM ₂
1991 TL	15.5	961113	265.10413	171.60745	140.88255	5.64464	0.1348269	2.1655138	24	3	1991–1995	0.50	M-v	3	Williams	26580	1991 TL
1991 TV ₁	14.0	961113	92.81317	329.72823	52.34585	8.40196	0.3085363	2.5437965	30	4	1987–1997	0.73	M-v	3	Marsden	26420	1991 TV ₁
1991 TE ₅	12.5	961113	160.71822	295.68585	15.39324	13.99463	0.0908335	2.5456238	26	6	1969–1997	0.66	M-v	2	Marsden	26420	1991 TE ₅
1991 UL ₄	14.5	961113	58.14542	316.82692	75.73850	4.89294	0.2252524	2.6747112	14	3	1978–1997	0.73	M-v	4	Williams	20028	1991 UL ₄
1991 VH	16.5	961113	87.84187	207.08191	139.49096	13.91692	0.1438039	1.1365815	76	2	1991–1997	0.62	M-v	3	Williams	28886	1991 VH
1991 VD ₁	13.5	961113	94.38336	4.09975	32.46134	16.03199	0.0929825	2.5316549	49	4	1987–1997	0.56	M-v	3	Williams	27567	1991 VD ₁
1991 VP ₁	14.0	961113	143.19990	316.86752	123.16282	4.92093	0.1293739	2.2548363	22	3	1991–1996	0.78	M-v	3	Williams	26758	1991 VP ₁
1991 VE ₄	14.5	961113	230.61316	205.60807	147.27368	4.83237	0.1882340	2.1974451	31	4	1988–1996	0.72	M-v	3	Williams	27120	1991 VE ₄
1991 VH ₄	12.5	961113	33.11464	259.86198	100.69109	5.97905	0.1245787	2.9906451	15	2	1991–1997	0.91	M-v	5	Williams	28585	1991 VH ₄
1991 VU ₄	14.0	961113	83.51065	252.49363	129.44516	3.77119	0.2311880	2.6211947	20	5	1974–1997	0.47	M-v	1	Williams	25974	1991 VU ₄
1991 VV ₅	12.0	961113	80.75276	222.86856	90.30190	11.04203	0.0439205	3.0071948	24	4	1990–1997	0.68	M-v	2	Williams	25530	1991 VV ₅
1991 WA	17.0	961113	214.43206	241.75298	66.75762	39.65300	0.6426404	1.5753597	119	5	1991–1997	0.71	M-v	3	Marsden	27325	1991 WA
1992 CC ₁	15.0	961113	71.00958	21.89630	349.30822	36.89242	0.3749526	1.3915798	101	4	1992–1997	0.63	M-v	2	Williams	28886	1992 CC ₁
1992 CF ₁	13.5	961113	336.64612	271.61603	356.64024	6.21507	0.1509040	2.4697702	30	4	1982–1996	0.72	M-v	3	Williams	27445	1992 CF ₁
1992 CU ₂	13.5	961113	42.42391	98.55435	277.13830	8.11260	0.0802408	3.1724608	18	3	1988–1995	0.78	M-v	3	Williams	25639	1992 CU ₂
1992 ER	14.0	961113	171.80699	116.13135	6.45350	7.61130	0.0621860	2.2941624	19	5	1954–1993	0.90	M-v	2	Williams	27729	1992 ER
1992 EM ₈	14.0	961113	121.95614	285.15148	110.41961	7.03383	0.1274364	2.7436958	17	4	1990–1994	0.78	M-v	2	Williams	23783	1992 EM ₈
1992 EQ ₈	12.5	961113	137.17321	270.56967	91.50014	3.34405	0.0788917	2.8950831	32	7	1950–1995	0.90	M-v	2	Williams	26580	1992 EQ ₈
1992 ER ₉	12.5	961113	176.03922	153.85361	141.27648	0.96835	0.1415527	3.1474331	30	4	1992–1997	0.74	M-v	2	Williams	26421	1992 ER ₉
1992 EC ₁₈	15.5	961113	244.65983	168.35831	219.96006	3.27968	0.0906046	2.3090962	12	2	1992–1996	0.74	M-v	5	Williams	28847	1992 EC ₁₈
1992 FS	13.0	961113	291.27108	245.66521	36.34169	5.71700	0.1403810	2.7228342	20	6	1951–1996	0.82	M-v	1	Williams	26926	1992 FS
1992 FJ ₁	11.0	961113	268.24144	258.57899	320.74686	20.67099	0.1599796	3.2025476	35	9	1954–1997	0.80	M-v	1	Williams	27935	1992 FJ ₁
1992 FL ₁	16.5	961113	53.67598	237.82185	317.68761	5.28873	0.4186450	2.5333191	111	3	1988–1996	0.56	M-v	1	Williams	27729	1992 FL ₁
1992 FY ₁	13.5	961113	146.27049	83.45980	49.84043	8.80176	0.0730883	2.3446825	21	8	1976–1996	0.80	M-v	1	Williams	27326	1992 FY ₁
1992 GB ₁	14.0	961113	82.76708	136.51414	39.11653	24.22161	0.2106120	2.4284956	25	4	1988–1996	0.77	M-v	3	Williams	28615	1992 GB ₁

1992 HK ₁	13.5	961113	207.78273	298.89755	39.69115	2.70558	0.0651855	2.9078508	26	5	1969–1994	0.81	M-v	1	Williams	28615	1992 HK ₁
1992 HA ₅	12.0	961113	199.92791	236.52664	88.37027	2.13124	0.1665238	3.1930796	26	7	1953–1994	0.69	M-v	1	Williams	27729	1992 HA ₅
1992 NA	16.5	961113	45.52980	7.86140	349.56962	9.76007	0.5600737	2.3920502	111	3	1992–1997	0.71	M-v	1	Marsden	28615	1992 NA
1992 OV ₂	14.5	961113	343.28656	289.90860	128.77332	8.58675	0.0871525	2.3159981	25	5	1987–1996	0.80	M-v	2	Williams	28886	1992 OV ₂
1992 PH ₁	15.5	961113	163.37561	320.89386	305.61757	4.16428	0.1008538	2.1709192	18	2	1991–1992	0.68	M-v	5	Williams	22085	1992 PH ₁
1992 RM	14.5	961113	96.00923	353.68862	5.43468	2.53297	0.1938643	2.2010942	18	3	1979–1997	0.57	M-v	4	Williams	27729	1992 RM
1992 RX	14.0	961113	204.58951	215.92332	22.70893	4.19555	0.1530097	2.2002935	24	4	1978–1995	0.59	M-v	2	Williams	25640	1992 RX
1992 RZ ₅	14.5	961113	241.33980	77.41573	83.17649	3.06173	0.1657540	2.4034723	19	3	1992–1996	0.71	M-v	5	Williams	23350	1992 RZ ₅
1992 RF ₇	12.5	961113	344.94615	220.21771	41.86512	5.10791	0.0797415	3.1914931	19	5	1956–1996	0.96	M-v	1	Williams	27121	1992 RF ₇
1992 RL ₇	15.0	961113	358.71471	312.52451	112.07100	2.75370	0.1777074	2.3659556	21	3	1974–1997	0.81	M-v	3	Williams	28615	1992 RL ₇
1992 SR ₁	14.0	961113	25.92513	147.42173	290.09684	5.98895	0.1422391	2.2856287	20	5	1985–1997	0.82	M-v	1	Williams	25538	1992 SR ₁
1992 SM ₁₂	13.0	961113	102.00147	150.91762	149.85965	6.21915	0.1385752	2.3850072	14	4	1987–1992	0.79	M-v	2	Williams	28848	1992 SM ₁₂
1992 SV ₁₂	13.5	961113	136.80817	285.29653	6.50522	7.42356	0.1826812	2.2599602	17	6	1955–1996	0.86	M-v	2	Williams	28887	1992 SV ₁₂
1992 SK ₁₃	14.5	961113	75.17186	59.54589	308.03031	4.56908	0.1805163	2.2753128	28	3	1954–1997	0.62	M-v	4	Williams	28848	1992 SK ₁₃
1992 SK ₂₆	15.0	961113	8.41549	211.75175	167.50424	4.54275	0.1600540	2.5416833	14	3	1980–1996	0.57	M-v	4	Williams	28317	1992 SK ₂₆
1992 SP ₂₆	14.5	961113	50.82362	275.54729	84.21644	4.03378	0.1898444	2.4132505	24	4	1988–1996	0.68	M-v	3	Williams	28848	1992 SP ₂₆
1992 UQ	13.0	961113	88.32908	111.81545	174.49835	4.58335	0.1518238	2.5302049	48	6	1980–1996	0.90	M-v	2	Williams	28615	1992 UQ
1992 UL ₂	14.0	961113	96.83810	65.70756	316.07622	2.97074	0.1745567	2.1924173	15	3	1979–1997	0.55	M-v	4	Williams	28317	1992 UL ₂
1992 UU ₂	13.5	961113	58.69714	324.58305	73.93338	6.30375	0.1849861	2.2646434	21	4	1975–1997	0.66	M-v	2	Williams	23685	1992 UU ₂
1992 UY ₂	14.0	961113	44.80611	212.04492	205.44185	4.97223	0.0742341	2.2958271	19	2	1992–1997	0.63	M-v	5	Williams	28849	1992 UY ₂
1992 UZ ₂	12.5	961113	289.82768	337.87412	70.19960	3.12551	0.0695913	2.9002428	25	6	1955–1996	0.80	M-v	1	Williams	28616	1992 UZ ₂
1992 UT ₃	13.5	961113	33.07783	18.40318	58.54843	6.20979	0.1372518	2.3003058	21	5	1955–1997	0.82	M-v	2	Williams	23685	1992 UT ₃
1992 UY ₃	14.0	961113	111.96918	312.88992	29.25446	5.16075	0.1847985	2.2575742	26	6	1975–1997	0.83	M-v	2	Williams	27936	1992 UY ₃
1992 UE ₄	14.5	961113	32.95098	313.77492	90.88978	3.74096	0.2382104	2.3804141	14	3	1981–1997	0.72	M-v	4	Williams	21590	1992 UE ₄
1992 UG ₄	12.5	961113	330.46662	270.99239	62.33048	6.76461	0.1621879	3.0076956	19	6	1971–1996	0.85	M-v	2	Williams	28887	1992 UG ₄
1992 UP ₄	13.5	961113	9.42325	352.25641	127.29394	6.38257	0.0965434	2.2249575	20	4	1992–1997	0.54	M-v	1	Williams	25975	1992 UP ₄
1992 UH ₆	13.0	961113	113.30514	292.28438	64.80094	6.23789	0.1948665	2.2204000	16	3	1992–1997	0.67	M-v	4	Williams	23341	1992 UH ₆
1992 UJ ₆	14.5	961113	70.84507	185.31226	205.56250	6.55530	0.1969909	2.2851600	14	3	1985–1997	0.79	M-v	4	Williams	21592	1992 UJ ₆
1992 UM ₆	14.0	961113	24.21404	131.78469	303.31428	3.72665	0.1839906	2.3366707	16	4	1979–1997	0.82	M-v	2	Williams	22273	1992 UM ₆
1992 UP ₈	15.0	961113	37.16189	114.06212	298.33725	2.03170	0.2203504	2.3429421	26	3	1990–1997	0.68	M-v	4	Williams	28849	1992 UP ₈
1992 WG ₃	14.5	961113	4.82352	237.96340	207.23257	1.49577	0.1768265	2.4132640	19	3	1982–1997	0.93	M-v	3	Williams	22274	1992 WG ₃
1992 WU ₃	14.0	961113	41.36049	64.77044	334.87137	1.76898	0.2005207	2.4044988	26	5	1987–1997	0.86	M-v	3	Williams	23539	1992 WU ₃
1992 WP ₅	13.5	961113	248.66282	144.99313	104.52257	3.43539	0.0690948	2.2124412	30	4	1988–1995	0.82	M-v	3	Williams	28317	1992 WP ₅
1992 YE	14.0	961113	83.42884	99.46941	300.63156	6.81663	0.1123520	2.2935951	29	5	1953–1997	0.54	M-v	1	Williams	25975	1992 YE
1992 YS	14.0	961113	97.16959	249.08767	116.22901	4.80794	0.1610550	2.3080881	15	4	1983–1997	0.89	M-v	2	Williams	25641	1992 YS
1992 YC ₂	14.5	961113	11.07214	105.29725	287.15697	1.62666	0.2195975	2.6199819	19	3	1989–1997	0.84	M-v	5	Williams	22595	1992 YC ₂
1992 YU ₂	14.5	961113	358.39993	199.42263	228.00220	4.02166	0.2642949	2.5759411	25	3	1971–1997	0.61	M-v	3	Williams	28887	1992 YU ₂
1993 AA	14.0	961113	59.94526	150.48720	233.06328	4.19221	0.2661366	2.4656474	30	5	1980–1997	0.99	M-v	2	Williams	25538	1993 AA
1993 BF	12.5	961113	153.23345	39.73123	309.69674	9.49927	0.1570841	2.2584379	37	4	1981–1997	0.54	M-v	2	Williams	26190	1993 BF
1993 BJ	13.5	961113	144.37800	22.63143	326.21006	5.52273	0.1862825	2.2845634	30	6	1950–1997	0.79	M-v	2	Williams	27730	1993 BJ
1993 BN	13.0	961113	293.47860	200.78301	319.51915	9.51366	0.1369612	2.6665308	40	4	1986–1997	0.63	M-v	2	Williams	28887	1993 BN
1993 BF ₃	14.0	961113	337.33931	150.02915	332.86990	4.88678	0.1577154	2.5568281	19	5	1985–1997	0.86	M-v	4	Williams	28887	1993 BF ₃
1993 BN ₄	14.5	961113	95.93108	267.64557	118.22822	3.18024	0.2211566	2.3754755	21	4	1993–1997	0.52	M-v	2	Williams	26190	1993 BN ₄
1993 BM ₁₂	13.5	961113	311.40215	229.01503	322.47599	1.79644	0.1271597	2.4319404	26	5	1974–1995	0.65	M-v	3	Williams	26421	1993 BM ₁₂
1993 CJ ₁	13.5	961113	339.58655	345.53402	161.81030	13.38844	0.1000882	2.5670538	22	4	1989–1997	0.64	M-v	3	Williams	28587	1993 CJ ₁
1993 CP ₁	14.0	961113	268.95981	60.50177	164.86851	13.06641	0.1260820	2.5696269	23	6	1953–1997	0.95	M-v	2	Williams	24119	1993 CP ₁
1993 DV	13.5	961113	355.69427	199.25313	262.76064	2.51689	0.1856213	2.6082587	16	2	1993–1997	0.82	M-v	6	Williams	28850	1993 DV
1993 DT ₁	15.5	961113	238.53610	55.13788	200.04811	3.19338	0.2407718	2.5968054	23	4	1981–1997	0.30	M-v	2	Williams	26580	1993 DT ₁
1993 DD ₂	12.5	961113	45.78590	66.08318	14.18835	14.83831	0.0680375	2.5833212	24	3	1993–1997	0.62	M-v	3	Williams	26421	1993 DD ₂
1993 EL	15.0	961113	287.82710	88.15604	104.04396	15.92592	0.3442858	2.7039856	33	3	1993–1997	0.65	M-v	2	Marsden	28587	1993 EL
1993 EP	13.0	961113	328.60945	178.90431	345.24313	12.82189	0.1257286	2.5895698	27	3	1993–1997	0.62	M-v	3	Williams	26190	1993 EP
1993 FO ₈	13.0	961113	4.29856	12.29352	88.25374	4.61429	0.0691857	2.7414344	13	2	1993–1997	0.57	M-v	5	Williams	28850	1993 FO ₈

1993 FS ₉	14.0	961113	211.96700	207.12632	135.45405	6.13609	0.2503317	2.3799553	27	5	1971–1995	0.63	M-v	2	Williams	26421	1993 FS ₉
1993 FT ₁₄	13.5	961113	359.22006	344.27187	131.73395	5.54199	0.2462567	2.5955609	17	2	1993–1997	0.33	M-v	4	Williams	28850	1993 FT ₁₄
1993 FN ₂₀	14.0	961113	63.90665	130.37340	276.65409	1.75185	0.0820344	2.7190784	16	3	1993–1997	0.53	M-v	4	Williams	26173	1993 FN ₂₀
1993 FO ₂₁	14.0	961113	82.56317	31.20768	6.19003	4.92959	0.0562832	2.7300477	22	4	1990–1997	0.49	M-v	3	Williams	27915	1993 FO ₂₁
1993 FB ₂₂	15.5	961113	85.20347	74.52700	8.16654	1.18281	0.1581018	2.3963842	14	2	1991–1993	0.65	M-v	4	Williams	23524	1993 FB ₂₂
1993 FS ₂₃	14.0	961113	130.88715	19.05483	329.99847	2.31627	0.0854931	2.7905543	16	4	1990–1997	0.46	M-v	2	Williams	25975	1993 FS ₂₃
1993 FS ₂₄	14.5	961113	298.81103	207.83054	353.28868	4.52449	0.0838994	2.6207190	13	3	1993–1997	0.20	M-v	3	Williams	26401	1993 FS ₂₄
1993 FT ₃₃	13.0	961113	175.79301	258.17945	46.84436	4.49207	0.0812472	2.7983523	18	6	1976–1997	0.50	M-v	1	Williams	26421	1993 FT ₃₃
1993 FU ₃₃	13.0	961113	326.95119	88.65188	55.11264	4.63741	0.0905362	2.7542781	23	5	1970–1997	0.60	M-v	1	Williams	26421	1993 FU ₃₃
1993 FS ₃₉	12.5	961113	143.68706	147.21407	171.21065	1.85097	0.1088334	2.9345382	24	6	1979–1997	0.63	M-v	1	Williams	28887	1993 FS ₃₉
1993 FZ ₅₇	14.5	961113	95.09288	162.60626	216.44613	2.20462	0.1018519	2.7106819	13	2	1993–1995	0.50	M-v	4	Williams	27916	1993 FZ ₅₇
1993 FF ₇₆	14.5	961113	96.10936	133.80950	235.32248	1.20173	0.0057350	2.8498351	15	3	1993–1997	0.34	M-v	4	Williams	28087	1993 FF ₇₆
1993 FK ₈₀	13.0	961113	347.47636	16.93171	38.55123	4.70427	0.2046515	3.1303877	23	4	1979–1997	0.47	M-v	1	Williams	28887	1993 FK ₈₀
1993 JG	13.5	961113	313.62137	252.18609	58.87486	9.06776	0.1525479	2.2165417	27	4	1986–1996	0.67	M-v	2	Williams	27326	1993 JG
1993 MZ	13.5	961113	196.78630	352.43722	345.91208	13.01362	0.1904422	2.6935918	13	4	1985–1997	0.89	M-v	3	Williams	24109	1993 MZ
1993 OD	14.0	961113	40.70615	104.73893	302.12477	20.29787	0.1499581	1.8205512	35	3	1992–1997	0.75	M-v	2	Williams	24763	1993 OD
1993 OF ₉	13.0	961113	280.32208	296.81305	301.67371	8.92489	0.0435330	3.0181910	12	3	1984–1993	0.84	M-v	5	Williams	28616	1993 OF ₉
1993 PV ₆	14.5	961113	276.57949	50.89413	317.29497	3.76302	0.1979551	2.4765856	16	2	1991–1993	0.92	M-v	5	Williams	28616	1993 PV ₆
1993 PB ₇	12.5	961113	283.18995	73.77395	172.67657	0.49356	0.1332265	3.1556149	22	4	1988–1997	0.75	M-v	1	Williams	28616	1993 PB ₇
1993 PW ₇	13.5	961113	271.38621	340.12732	330.37256	2.80096	0.1560923	2.7716415	26	5	1984–1996	0.85	M-v	2	Williams	28616	1993 PW ₇
1993 QH ₃	13.0	961113	195.39302	119.07691	278.54674	0.91825	0.0869078	2.8411560	19	6	1987–1996	0.82	M-v	2	Williams	28888	1993 QH ₃
1993 SG ₁	13.5	961113	278.59615	175.48013	174.77222	13.86193	0.2924293	2.5818932	13	2	1989–1994	0.58	M-v	3	Williams	28851	1993 SG ₁
1993 SR ₁	14.0	961113	324.85799	329.71263	37.93077	3.85815	0.2163470	2.2918429	9	4	1958–1993	0.47	M-v	3	Williams	28616	1993 SR ₁
1993 SH ₂	14.0	961113	266.81635	48.32874	356.18356	3.27708	0.1987671	2.4367225	23	4	1974–1995	0.80	M-v	3	Williams	28616	1993 SH ₂
1993 SQ ₂	13.5	961113	295.72434	140.90718	178.20363	13.94696	0.1896847	2.6077563	20	4	1975–1996	0.66	M-v	2	Williams	28888	1993 SQ ₂
1993 SA ₆	13.0	961113	119.88447	322.85263	151.87803	1.79593	0.1391626	3.0513877	18	3	1988–1996	0.82	M-v	4	Williams	28589	1993 SA ₆
1993 TM ₁₂	14.0	961113	291.02860	295.33520	134.39668	2.44924	0.1144055	2.2322356	24	4	1986–1996	0.86	M-v	2	Williams	27715	1993 TM ₁₂
1993 TU ₃₈	13.5	961113	172.26053	357.67033	98.56480	5.53064	0.0257590	2.7994681	20	3	1991–1995	0.62	M-v	3	Williams	24899	1993 TU ₃₈
1993 US	14.0	961113	289.30197	170.00706	166.78603	1.85799	0.0948124	2.6891890	31	2	1993–1996	0.77	M-v	5	Williams	28589	1993 US
1993 WQ	13.5	961113	275.62860	359.44893	47.62858	5.06070	0.2235656	2.5550646	22	3	1985–1994	0.59	M-v	4	Williams	25539	1993 WQ
1993 XF	13.5	961113	272.17665	268.27739	115.31685	3.30439	0.0845408	2.7600334	33	6	1979–1996	0.73	M-v	1	Williams	27456	1993 XF
1993 YH	13.0	961113	63.83316	144.33965	97.54088	2.47489	0.1123519	3.0935143	40	5	1989–1996	0.77	M-v	1	Williams	28888	1993 YH
1993 YJ	14.0	961113	17.29338	91.51010	296.72319	3.48954	0.1801140	2.1789803	40	3	1986–1997	0.80	M-v	4	Williams	28888	1993 YJ
1994 AQ	12.5	961113	314.79433	254.37994	126.64741	13.79157	0.1940640	2.5989153	39	3	1992–1995	0.60	M-v	3	Williams	25442	1994 AQ
1994 AH ₃	13.5	961113	262.40178	231.69067	267.21216	4.40172	0.0495809	2.4021964	24	8	1972–1997	0.62	M-v	2	Williams	28851	1994 AH ₃
1994 AM ₃	14.0	961113	265.42445	166.07372	2.65177	6.76559	0.0863728	2.2198355	43	3	1981–1997	0.69	M-v	3	Williams	28888	1994 AM ₃
1994 CA	14.0	961113	103.70873	56.25820	333.10877	21.66250	0.0892051	1.9390171	43	3	1986–1997	0.53	M-v	4	Williams	23350	1994 CA
1994 CM ₂	13.5	961113	2.41314	132.28315	295.47455	6.46364	0.0416369	2.2674451	30	5	1982–1997	0.77	M-v	3	Marsden	28888	1994 CM ₂
1994 CS ₈	9.5	961113	73.01214	22.91815	120.11417	6.91106	0.0206011	5.2616797	16	4	1988–1995	0.62	M-v	1	Williams	28852	1994 CS ₈
1994 CP ₁₀	13.0	961113	14.83158	327.07316	355.34174	5.10120	0.1342679	3.1416512	24	5	1974–1995	0.96	M-v	2	Williams	27121	1994 CP ₁₀
1994 CO ₁₇	14.0	961113	148.11830	205.92555	75.75905	4.02187	0.1417555	2.4536131	20	4	1975–1996	0.75	M-v	2	Williams	28617	1994 CO ₁₇
1994 EL ₃	14.0	961113	140.38030	147.29324	165.89948	12.97916	0.0837526	2.3911128	25	3	1994–1997	0.81	M-v	4	Williams	28888	1994 EL ₃
1994 EG ₆	14.0	961113	127.85183	212.76054	118.16527	6.17838	0.1982931	2.2457829	25	5	1985–1997	0.76	M-v	2	Williams	25643	1994 EG ₆
1994 EJ ₇	13.5	961113	50.91542	293.00294	90.19501	5.99964	0.1438894	2.2901999	26	2	1994–1997	0.55	M-v	4	Williams	28888	1994 EJ ₇
1994 FB	14.5	961113	358.93214	259.98032	193.60948	2.27897	0.0513002	2.2436826	45	3	1994–1997	0.75	M-v	3	Williams	28888	1994 FB
1994 FF	13.5	961113	265.15618	79.04252	129.17860	6.03355	0.1353285	2.2599888	14	2	1994–1997	0.53	M-v	4	Williams	28852	1994 FF
1994 FZ	13.5	961113	234.35693	131.91348	100.58594	5.68937	0.1887716	2.3719545	24	6	1954–1996	0.81	M-v	2	Williams	28888	1994 FZ
1994 GD ₉	14.5	961113	282.49107	303.10141	198.56065	22.58250	0.3172859	2.4457549	20	4	1989–1996	0.71	M-v	2	Williams	28617	1994 GD ₉
1994 HA	12.5	961113	180.84178	69.68384	201.38241	14.37351	0.1409190	2.5888409	20	4	1990–1995	0.69	M-v	2	Williams	28853	1994 HA
1994 JK ₉	13.0	961113	227.49810	132.36746	78.62784	15.15900	0.1619083	2.6096656	16	5	1954–1997	0.45	M-v	2	Williams	28888	1994 JK ₉
1994 LL	13.0	961113	278.30728	19.35384	148.93825	27.18094	0.0620720	2.7008274	24	3	1994–1996	0.65	M-v	3	Marsden	25735	1994 LL
1994 NT ₁	13.0	961113	306.36501	46.56255	125.16711	14.08511	0.0960918	2.7084766	28	4	1980–1997	0.89	M-v	2	Williams	28853	1994 NT ₁

1994 OC	11.5	961113	99.47991	62.72124	322.92586	11.97433	0.1371835	3.0401488	44	3	1994–1997	0.55	M-v	3	Williams	26581	1994 OC
1994 PK ₇	14.5	961113	173.17528	229.05994	150.28904	6.47362	0.1260809	2.4429358	23	3	1979–1996	0.59	M-v	3	Williams	26759	1994 PK ₇
1994 PO ₇	14.0	961113	298.60092	83.61504	147.41789	0.69583	0.1601318	2.4033398	24	3	1994–1997	0.72	M-v	4	Williams	26403	1994 PO ₇
1994 PV ₂₄	12.0	961113	84.73413	337.67474	23.72982	2.88281	0.2610920	3.9469927	35	4	1987–1997	0.75	M-v	1	Williams	28888	1994 PV ₂₄
1994 PN ₂₅	15.0	961113	313.68874	118.00938	101.43110	2.22406	0.1278280	2.3951514	19	2	1991–1994	0.69	M-v	6	Williams	24901	1994 PN ₂₅
1994 PC ₂₆	16.0	961113	231.11230	188.64700	134.25927	5.94871	0.1628219	2.3302574	20	2	1994–1995	0.62	M-v	4	Williams	27448	1994 PC ₂₆
1994 PP ₂₆	14.0	961113	283.07767	218.33142	23.97237	2.83085	0.1528376	2.4304155	20	2	1993–1994	0.79	M-v	4	Williams	24901	1994 PP ₂₆
1994 PW ₂₆	14.0	961113	126.98010	261.86128	143.68939	9.22527	0.2596126	2.7729756	23	2	1994–1996	0.94	M-v	4	Williams	26905	1994 PW ₂₆
1994 PO ₃₇	16.5	961113	208.30989	158.44771	199.56455	1.85367	0.2441814	2.3337188	17	2	1987–1994	0.71	M-v	5	Williams	24570	1994 PO ₃₇
1994 PA ₃₉	15.5	961113	278.60902	41.08817	217.62968	2.38878	0.1901334	2.3247986	15	3	1973–1994	0.90	M-v	5	Williams	27568	1994 PA ₃₉
1994 PC ₃₉	13.0	961113	313.53997	300.34331	259.14644	2.32263	0.1039917	2.6018750	22	3	1993–1995	0.64	M-v	4	Williams	26566	1994 PC ₃₉
1994 RX	13.5	961113	180.71519	257.10145	125.88537	8.17973	0.2501812	2.4283058	25	4	1977–1996	0.48	M-v	2	Williams	28617	1994 RX
1994 RB ₁	13.5	961113	124.00988	186.89868	220.91848	8.56688	0.0241060	2.7102536	51	4	1990–1997	0.75	M-v	1	Williams	27122	1994 RB ₁
1994 RM ₁	11.5	961113	187.58177	97.72031	199.51795	16.71520	0.0956392	3.2358904	41	3	1994–1997	0.68	M-v	3	Williams	28888	1994 RM ₁
1994 SC	14.0	961113	287.00034	45.62823	206.70031	3.63251	0.1240172	2.3403317	77	4	1980–1996	0.73	M-v	3	Williams	26927	1994 SC
1994 TU ₁	14.5	961113	253.95576	357.62629	331.60682	6.87077	0.1439904	2.3528385	42	3	1990–1996	0.79	M-v	4	Williams	27122	1994 TU ₁
1994 TA ₃	14.5	961113	229.86757	354.51560	9.25841	5.45741	0.2100651	2.2895500	19	3	1982–1994	0.74	M-v	3	Williams	24409	1994 TA ₃
1994 TX ₁₂	13.5	961113	185.93540	320.85738	353.51203	0.79497	0.1687237	3.1764735	21	3	1977–1997	0.33	M-v	4	Williams	24902	1994 TX ₁₂
1994 UW	14.5	961113	214.41531	359.71592	13.23385	6.27613	0.1516231	2.3943798	23	4	1953–1995	0.49	M-v	2	Williams	25084	1994 UW
1994 UY	14.0	961113	202.75419	49.26103	318.61600	2.88991	0.1740015	2.5220854	21	3	1950–1994	0.57	M-v	4	Williams	25430	1994 UY
1994 UZ	14.5	961113	200.65354	52.21489	342.98206	1.94455	0.2105883	2.3760771	33	3	1954–1996	0.58	M-v	3	Williams	27107	1994 UZ
1994 UJ ₂	12.5	961113	158.96327	327.47938	55.90773	14.02398	0.1566937	2.9743734	16	5	1968–1994	0.89	M-v	2	Williams	24400	1994 UJ ₂
1994 VK ₈	6.5	961113	231.47340	123.05323	72.39407	1.48486	0.0307644	42.7036056	56	3	1994–1997	0.66	M-v	5	Marsden	28617	1994 VK ₈
1994 WM	13.5	961113	70.02970	126.73293	60.90318	8.94298	0.1536500	2.5594405	56	3	1993–1996	0.63	M-v	3	Williams	27937	1994 WM
1994 XC ₁	14.0	961113	61.51266	124.08858	91.71821	14.08855	0.1264900	2.5734129	35	3	1991–1996	0.58	M-v	3	Williams	27456	1994 XC ₁
1995 CE ₂	12.5	961113	48.87095	331.52288	291.16053	28.52362	0.0413547	2.6092095	16	3	1989–1995	0.53	M-v	3	Williams	27731	1995 CE ₂
1995 DA	13.5	961113	225.99000	6.92860	49.53975	8.31655	0.1159081	2.7084269	48	4	1987–1995	0.64	M-v	3	Williams	25341	1995 DA
1995 DE	12.5	961113	351.63208	173.97023	151.36899	15.68265	0.1316610	2.5847489	18	3	1988–1995	0.56	M-v	3	Williams	28855	1995 DE
1995 DJ ₁	13.5	961113	84.62432	302.72221	311.41113	1.95457	0.1433121	2.4572078	23	4	1991–1996	0.73	M-v	1	Bardwell	27731	1995 DJ ₁
1995 DC ₂	7.0	961113	247.39087	120.73643	154.17967	2.34303	0.0712811	43.9095113	44	3	1995–1997	0.59	M-v	5	Marsden	27122	1995 DC ₂
1995 EN	15.5	961113	102.63364	254.67411	11.91154	5.20947	0.1082122	2.1637026	67	3	1992–1996	0.48	M-v	2	Williams	28087	1995 EN
1995 EF ₁	14.0	961113	186.31731	92.83057	50.69449	2.98362	0.1498891	2.3856750	19	4	1958–1995	0.78	M-v	2	Williams	26760	1995 EF ₁
1995 EZ ₈	14.5	961113	121.07235	64.82163	166.67074	2.54617	0.1655881	2.3824049	16	4	1988–1996	0.81	M-v	2	Williams	28617	1995 EZ ₈
1995 GO	9.0	961113	333.42526	290.04035	6.11262	17.62942	0.6221766	18.1202986	78	3	1995–1997	0.55	M-v	2	Marsden	27568	1995 GO
1995 HC	14.5	961113	51.73598	134.39771	179.85135	2.36455	0.1746031	2.2496129	21	2	1995–1997	0.51	M-v	3	Williams	28889	1995 HC
1995 HM ₅	8.0	961113	324.39751	60.67641	186.68298	4.81819	0.2543452	39.5494699	17	3	1995–1997	0.38	M-v	4	Marsden	27122	1995 HM ₅
1995 JG	14.5	961113	316.47917	49.83066	35.38803	21.68336	0.0527288	1.9791874	35	2	1995–1997	0.59	M-v	3	Williams	28889	1995 JG
1995 KZ	14.5	961113	111.00426	154.47316	138.74078	24.39198	0.1932296	2.3483647	44	3	1988–1997	0.45	M-v	2	Marsden	25434	1995 KZ
1995 KA ₁	14.5	961113	111.00018	111.93564	185.94412	19.84617	0.2315592	2.3742849	52	3	1988–1997	0.64	M-v	2	Marsden	25735	1995 KA ₁
1995 KO ₁	15.5	961113	135.31039	151.53716	119.94682	24.55285	0.1928454	2.3019453	26	3	1988–1996	0.54	M-v	2	Williams	28591	1995 KO ₁
1995 LH	14.0	961113	101.60073	265.94629	49.68419	11.45032	0.4079878	2.6944435	83	2	1995–1996	0.56	M-v	2	Williams	28889	1995 LH
1995 OA	14.5	961113	37.31010	150.69859	275.04566	6.15635	0.0861596	2.3270211	42	2	1995–1997	0.57	M-v	4	Williams	28592	1995 OA
1995 OD	15.0	961113	140.37865	341.21598	323.31564	1.29222	0.0524407	2.2951801	50	2	1995–1997	0.59	M-v	4	Williams	28889	1995 OD
1995 OE	13.0	961113	275.64149	217.54712	255.80773	8.89916	0.0567826	3.0601682	51	2	1995–1997	0.44	M-v	3	Marsden	28889	1995 OE
1995 OK	15.5	961113	115.64344	204.17131	125.09905	6.96333	0.1402369	2.3068161	31	3	1994–1997	0.43	M-v	3	Williams	25652	1995 OK
1995 OT	14.0	961113	137.21577	268.73560	33.29743	4.14950	0.2047940	2.2823309	16	3	1985–1997	0.65	M-v	3	Williams	28889	1995 OT
1995 OX ₁	14.0	961113	121.43251	249.86027	70.11619	6.02074	0.2206543	2.3427677	20	3	1981–1997	0.62	M-v	3	Marsden	28855	1995 OX ₁
1995 OA ₂	13.0	961113	140.09994	32.83809	216.79915	9.61163	0.0604007	2.9784386	31	5	1985–1997	0.68	M-v	2	Williams	28618	1995 OA ₂
1995 PG	15.5	961113	4.44632	124.40506	332.54226	14.56206	0.1387729	2.5500162	31	2	1995–1997	0.40	M-v	3	Williams	28889	1995 PG
1995 PK	14.5	961113	94.38909	235.10719	132.33665	5.20557	0.1289144	2.2281676	18	3	1992–1997	0.47	M-v	4	Williams	26192	1995 PK
1995 PV	13.5	961113	142.40733	322.15205	343.04312	7.81714	0.1738031	2.2851098	35	2	1995–1997	0.41	M-v	3	Williams	28856	1995 PV
1995 QJ	16.0	961113	54.40234	271.56317	147.94540	2.82762	0.1722828	2.3832301	30	4	1988–1997	0.48	M-v	1	Williams	25964	1995 QJ

1995 QP	14.0	961113	76.34550	35.52699	348.76552	7.47561	0.2317059	2.7607773	25	3	1993–1997	0.42	M-v	3	Williams	28618	1995 QP
1995 QG ₂	13.5	961113	189.69482	177.29330	75.36980	7.23903	0.0972340	2.3577785	22	4	1985–1997	0.72	M-v	2	Williams	28889	1995 QG ₂
1995 QM ₂	13.0	961113	106.62552	215.55228	109.26872	4.56689	0.0972416	2.7712401	26	4	1989–1997	0.92	M-v	4	Williams	28889	1995 QM ₂
1995 QY ₂	13.5	961113	53.46103	266.29468	147.35967	20.43554	0.5725922	3.1193043	127	3	1984–1996	0.61	M-v	1	Williams	28618	1995 QY ₂
1995 QJ ₃	14.0	961113	64.32415	183.93968	188.38973	13.35733	0.0714962	2.9385726	30	2	1995–1997	0.56	M-v	3	Williams	28856	1995 QJ ₃
1995 QQ ₃	14.5	961113	84.66992	231.78263	134.44922	5.64163	0.1515875	2.5558992	29	5	1987–1997	0.64	M-v	2	Williams	28889	1995 QQ ₃
1995 SL	14.5	961113	76.06374	87.50630	313.67711	5.71880	0.1263941	2.4550728	33	3	1993–1997	0.49	M-v	2	Williams	28856	1995 SL
1995 ST	14.0	961113	236.76413	260.70726	339.54472	7.32917	0.0802672	2.2941492	22	2	1995–1997	0.40	M-v	4	Williams	28857	1995 ST
1995 SU	14.5	961113	244.75091	273.02532	318.39505	5.05658	0.0832863	2.3194865	33	4	1983–1997	0.88	M-v	2	Williams	28857	1995 SU
1995 SV ₂	14.5	961113	52.60379	24.98702	42.99038	2.64248	0.1540591	2.4497095	21	6	1976–1997	0.80	M-v	1	Williams	26177	1995 SV ₂
1995 SE ₄	13.0	961113	81.88164	110.84544	270.29667	13.66511	0.1162031	2.6503342	25	3	1991–1997	0.66	M-v	3	Williams	27731	1995 SE ₄
1995 SN ₂₉	12.5	961113	60.34353	251.16924	143.65165	1.71318	0.1895436	3.1942911	31	5	1978–1997	1.00	M-v	1	Williams	26422	1995 SN ₂₉
1995 SK ₅₃	13.0	961113	116.10369	316.09739	30.09326	10.62199	0.1324650	2.9228345	25	3	1993–1997	0.57	M-v	3	Williams	26760	1995 SK ₅₃
1995 TF	14.0	961113	133.22732	328.63646	9.81568	15.26093	0.1034679	2.5833870	45	2	1995–1997	0.50	M-v	3	Marsden	28858	1995 TF
1995 TB ₁	13.0	961113	78.50572	254.33177	134.97041	4.85348	0.2366585	2.5665260	16	4	1954–1997	0.65	M-v	2	Williams	26760	1995 TB ₁
1995 UL	12.5	961113	134.62000	329.39127	357.21658	4.65385	0.0687102	2.7551719	30	2	1995–1997	0.41	M-v	4	Williams	28858	1995 UL
1995 UR ₁	13.5	961113	116.94373	328.04486	32.72877	16.26013	0.1197857	2.6285142	56	4	1981–1997	0.49	M-v	2	Marsden	28889	1995 UR ₁
1995 UD ₂	13.5	961113	130.21167	100.30301	232.39258	8.71942	0.1442682	2.5385237	25	4	1979–1997	1.10	M-v	3	Williams	28889	1995 UD ₂
1995 UP ₂	13.5	961113	352.40255	101.82040	25.23993	10.59286	0.0615067	2.9922015	42	2	1995–1997	0.29	M-v	3	Williams	28859	1995 UP ₂
1995 UR ₂	14.5	961113	96.80410	97.62229	273.95864	4.68372	0.2636891	2.7132972	36	2	1995–1997	0.39	M-v	3	Marsden	28859	1995 UR ₂
1995 UL ₃	12.0	961113	120.56204	326.53222	7.88659	12.15374	0.1122392	3.2551929	24	2	1995–1997	0.66	M-v	4	Williams	28859	1995 UL ₃
1995 UP ₄	13.0	961113	111.46968	330.76201	63.11353	7.94467	0.1361171	2.4154177	29	4	1976–1995	0.52	M-v	2	Williams	26818	1995 UP ₄
1995 UE ₆	13.0	961113	54.34819	289.46724	129.12652	3.64095	0.1018727	2.9946336	31	4	1992–1997	0.66	M-v	1	Williams	26760	1995 UE ₆
1995 UL ₆	15.0	961113	149.89128	353.94457	340.25024	2.21826	0.1884980	2.4257186	24	6	1971–1997	0.91	M-v	2	Williams	26423	1995 UL ₆
1995 UP ₆	14.5	961113	133.60657	92.02832	229.99044	13.42097	0.1627306	2.5649414	45	2	1995–1997	0.55	M-v	4	Williams	28859	1995 UP ₆
1995 UW ₆	13.0	961113	7.25177	59.87741	29.92405	8.43382	0.0141049	3.0798156	32	2	1995–1997	0.63	M-v	4	Williams	28859	1995 UW ₆
1995 UA ₇	13.5	961113	182.87562	203.57535	98.02622	5.67777	0.2502544	2.2948886	42	5	1988–1997	0.68	M-v	1	Williams	26760	1995 UA ₇
1995 UC ₇	13.0	961113	220.88195	175.28469	99.14047	7.44723	0.1205738	2.4133295	19	3	1991–1997	0.64	M-v	3	Williams	26760	1995 UC ₇
1995 UY ₄₄	14.5	961113	120.56046	332.57803	34.98250	10.02242	0.2058655	2.4890108	47	3	1991–1997	0.60	M-v	3	Marsden	26760	1995 UY ₄₄
1995 VL ₂	14.5	961113	111.42730	133.22853	264.68653	3.59514	0.0715756	2.3620573	24	3	1991–1997	0.58	M-v	3	Williams	26582	1995 VL ₂
1995 VU ₁₈	12.0	961113	290.61252	143.74752	117.31041	10.82739	0.0450986	3.0235684	32	3	1992–1997	0.51	M-v	3	Williams	27456	1995 VU ₁₈
1995 WE ₁	13.5	961113	252.37096	180.12258	62.66639	4.56983	0.1227332	3.0794737	27	2	1995–1997	0.43	M-v	4	Williams	28860	1995 WE ₁
1995 WX ₁	12.0	961113	297.00584	318.66826	239.64696	14.47399	0.1631565	3.1730174	34	2	1995–1997	0.68	M-v	4	Williams	28860	1995 WX ₁
1995 WU ₂	12.5	961113	41.43006	51.01239	40.14948	6.66207	0.0653493	3.0365498	30	4	1989–1997	0.60	M-v	1	Williams	28890	1995 WU ₂
1995 WZ ₃	12.5	961113	343.72411	142.70655	61.70443	7.20053	0.1478916	2.2973694	16	5	1976–1995	0.66	M-v	2	Williams	28618	1995 WZ ₃
1995 WN ₅	13.0	961113	81.01058	5.10823	67.21086	6.12334	0.0323767	2.7420339	24	6	1974–1997	0.72	M-v	1	Williams	28618	1995 WN ₅
1995 WB ₇	11.5	961113	194.72511	353.21500	304.19964	12.58762	0.1502850	2.8524389	17	6	1978–1997	0.67	M-v	2	Williams	28890	1995 WB ₇
1995 WO ₈	11.5	961113	313.54710	58.03586	145.56395	14.28706	0.2378954	3.1662439	18	4	1952–1997	0.71	M-v	2	Williams	27938	1995 WO ₈
1995 WO ₁₅	14.0	961113	316.59066	130.04053	27.28429	2.39151	0.0174710	2.7606506	15	3	1993–1997	0.27	M-v	4	Williams	27919	1995 WO ₁₅
1995 XT	13.0	961113	43.43801	348.54956	115.25707	2.29190	0.1355936	3.0808017	16	4	1989–1995	0.60	M-v	2	Williams	26413	1995 XT
1995 XN ₁	12.5	961113	281.28752	174.62761	72.74576	14.10099	0.1325616	2.5942888	19	4	1978–1997	0.69	M-v	3	Williams	26582	1995 XN ₁
1995 YA	12.0	961113	256.70115	158.69606	74.27170	7.49774	0.0547248	3.0095570	16	3	1992–1997	0.48	M-v	4	Williams	26413	1995 YA
1995 YG	13.5	961113	239.58078	78.69570	212.47010	2.52611	0.1724836	2.2894568	16	3	1984–1995	0.81	M-v	5	Williams	26761	1995 YG
1995 YC ₃	11.5	961113	52.96168	4.09091	109.60148	2.99362	0.1168402	3.0489287	25	7	1959–1996	0.57	M-v	1	Williams	28595	1995 YC ₃
1995 YU ₉	14.0	961113	176.96533	65.71676	290.09695	9.25453	0.0664404	3.0085723	28	4	1988–1996	0.72	M-v	1	Williams	28890	1995 YU ₉
1996 AO ₃	11.0	961113	145.21906	78.20486	266.23280	5.38959	0.0477256	3.8959608	23	4	1981–1997	0.69	M-v	1	Williams	26907	1996 AO ₃
1996 AG ₇	14.5	961113	171.13395	258.16430	87.43917	4.23862	0.2401813	3.0747918	22	5	1978–1997	0.61	M-v	2	Williams	26928	1996 AG ₇
1996 BD ₂	15.5	961113	327.85755	239.93687	16.75177	1.71033	0.0415510	2.1801227	24	2	1991–1996	0.55	M-v	5	Williams	26752	1996 BD ₂
1996 BK ₂	11.5	961113	172.15465	204.03786	153.09004	12.93972	0.1417351	3.1910809	26	6	1962–1997	0.74	M-v	1	Williams	28890	1996 BK ₂
1996 BO ₂	12.5	961113	32.81452	187.79346	337.30217	3.66042	0.0360405	3.0758540	41	4	1977–1996	0.61	M-v	2	Williams	28890	1996 BO ₂
1996 CQ ₁	14.5	961113	198.78534	40.81471	319.37861	6.21463	0.1319672	2.3649480	25	3	1987–1996	0.86	M-v	4	Williams	26909	1996 CQ ₁
1996 CL ₂	12.0	961113	92.03293	80.07722	10.14427	13.05725	0.1155179	3.0789190	21	3	1991–1996	0.84	M-v	3	Williams	27123	1996 CL ₂

1996 EW ₂	14.0	961113	322.62054	305.86460	334.60975	3.28467	0.1303780	2.2304210	28	3	1977–1996	0.65	M-v	2	Williams	27457	1996 EW ₂
1996 FG ₃	18.5	961113	104.15857	23.38580	300.48452	1.98165	0.3496975	1.0543567	150	2	1996–1997	0.61	M-v	5	Marsden	28861	1996 FG ₃
1996 GG ₂	14.0	961113	243.05623	64.14506	283.92166	1.15569	0.2547100	2.6424742	28	4	1976–1996	0.59	M-v	2	Williams	27451	1996 GG ₂
1996 GA ₁₈	14.5	961113	46.60637	10.87818	205.37354	7.22635	0.1409999	2.5822517	18	3	1971–1996	0.85	M-v	3	Williams	28890	1996 GA ₁₈
1996 GV ₁₈	14.0	961113	258.14079	332.25277	44.08944	7.52313	0.1210643	2.3459757	18	2	1990–1996	0.69	M-v	4	Williams	28862	1996 GV ₁₈
1996 JF	15.0	961113	85.51975	117.71746	71.22745	5.43119	0.1406260	2.3043747	25	3	1982–1996	0.41	M-v	4	Williams	27569	1996 JF
1996 NG	12.0	961113	341.77165	242.48638	108.29197	6.29180	0.1623434	3.1347379	21	3	1991–1996	0.75	M-v	4	Williams	28890	1996 NG
1996 OJ	14.5	961113	36.79650	159.59183	126.64358	2.15288	0.1757602	3.1067216	32	2	1991–1996	0.35	M-v	4	Williams	27938	1996 OJ
1996 OR ₁	14.0	961113	257.82163	168.29635	3.34557	5.94802	0.0766504	2.2951991	25	3	1987–1997	0.48	M-v	3	Williams	28595	1996 OR ₁
1996 PA ₇	14.0	961113	1.52981	303.42987	85.97834	25.39766	0.3516779	2.3245735	31	1	171 days	0.56	M-v	3	Williams	28890	1996 PA ₇
1996 QN ₁	14.0	961113	48.15900	322.03381	338.97645	9.80693	0.0817508	2.9828427	38	3	1986–1996	0.69	M-v	4	Williams	28319	1996 QN ₁
1996 QU ₁	14.0	961113	10.22101	47.83602	324.75701	5.87033	0.3013620	2.3860189	56	3	1948–1997	0.56	M-v	2	Williams	28319	1996 QU ₁
1996 RG ₁	14.5	961113	22.17395	18.12558	9.14163	5.75472	0.1647782	2.1811330	27	3	1991–1996	0.55	M-v	3	Williams	28079	1996 RG ₁
1996 RG ₃	18.5	961113	343.10402	299.90983	158.47611	3.56530	0.6048721	2.0002777	65	1	149 days	0.52	M-v	4	Williams	28619	1996 RG ₃
1996 SR	16.5	961113	5.98896	189.68400	165.32167	4.83386	0.2004551	2.5686832	19	2	1992–1996	0.44	M-v	4	Williams	28080	1996 SR
1996 SS ₄	15.5	961113	181.71273	8.51674	202.21178	3.74203	0.0614882	2.3527543	33	2	1995–1997	0.32	M-v	3	Williams	28319	1996 SS ₄
1996 SS ₆	13.0	961113	79.19928	249.34868	67.54722	3.05803	0.0538777	2.9134487	28	3	1981–1997	0.56	M-v	4	Williams	28596	1996 SS ₆
1996 TG	14.0	961113	34.88850	25.71558	323.06200	3.40456	0.1275693	2.2275638	30	4	1986–1996	0.53	M-v	2	Williams	28597	1996 TG
1996 TO ₅	17.0	961113	346.95787	249.75634	167.78148	20.99471	0.5162708	2.3805274	44	1	123 days	0.65	M-v	4	Williams	28864	1996 TO ₅
1996 TV ₁₀	14.0	961113	112.55208	221.23841	43.92348	5.91731	0.1236149	2.2335205	14	3	1976–1996	0.69	M-v	5	Williams	28597	1996 TV ₁₀
1996 TW ₁₀	13.5	961113	59.89379	193.99345	126.17883	2.19909	0.1044386	2.3857839	18	3	1981–1997	0.78	M-v	3	Williams	28598	1996 TW ₁₀
1996 TE ₁₁	16.0	961113	351.63164	261.93005	176.45204	24.96001	0.4709013	2.5703161	81	1	147 days	0.57	M-v	3	Williams	28890	1996 TE ₁₁
1996 TC ₁₅	14.0	961113	96.10914	268.23841	85.05706	9.87236	0.1403625	2.6996759	22	1	116 days	0.32	M-v	4	Williams	28865	1996 TC ₁₅
1996 TK ₁₅	13.5	961113	45.52133	132.71177	195.91521	13.40714	0.1882090	2.6165002	19	2	1975–1997	0.66	M-v	4	Williams	28619	1996 TK ₁₅
1996 TN ₁₉	15.5	961113	60.92942	282.08672	36.83047	0.66474	0.2023269	2.3696039	18	3	1978–1996	0.39	M-v	3	Williams	28598	1996 TN ₁₉
1996 UR	13.0	961113	8.44864	190.25750	194.46390	5.87299	0.1607227	2.6917241	24	1	99 days	0.40	M-v	4	Williams	28865	1996 UR
1996 UL ₁	13.5	961113	44.21413	140.50043	206.05779	11.67200	0.0701570	3.0378820	39	1	102 days	0.75	M-v	5	Williams	28866	1996 UL ₁
1996 VO ₁	12.5	961113	42.07587	329.63016	34.58340	14.12762	0.1767078	2.5930780	18	2	1979–1997	0.46	M-v	4	Williams	28891	1996 VO ₁
1996 VY ₁	14.5	961113	303.54385	225.82479	270.66930	10.89692	0.1991199	2.6865698	25	2	1995–1997	0.36	M-v	3	Williams	28891	1996 VY ₁
1996 VC ₂	14.5	961113	55.24935	88.09627	254.10226	1.23451	0.1818671	2.1449242	35	5	1955–1997	0.74	M-v	2	Williams	28891	1996 VC ₂
1996 VE ₆	14.0	961113	32.31578	198.71807	184.45042	2.51485	0.1851520	2.3641096	25	5	1981–1996	0.82	M-v	2	Williams	28891	1996 VE ₆
1996 VJ ₈	13.5	961113	349.97623	79.10253	344.66561	4.42893	0.1694411	2.5354582	14	3	1976–1997	0.64	M-v	3	Williams	28867	1996 VJ ₈
1996 VF ₉	14.5	961113	20.97300	270.10953	113.71296	3.20055	0.2197494	2.3686713	24	4	1985–1996	0.84	M-v	3	Williams	28891	1996 VF ₉
1996 VT ₃₀	14.0	961113	22.31314	128.79549	255.11790	1.23659	0.2225008	2.3663458	21	3	1963–1997	0.79	M-v	2	Williams	28869	1996 VT ₃₀
1996 WC ₂	14.0	961113	226.91436	120.12078	69.91324	8.02769	0.0331881	2.3835793	34	2	1991–1997	0.81	M-v	4	Williams	28869	1996 WC ₂
1996 XC	14.0	961113	162.35354	167.38777	96.11064	6.70628	0.1907591	2.4370588	28	2	1991–1997	0.36	M-v	4	Marsden	28869	1996 XC
1996 XB ₂	14.0	961113	11.53147	158.35056	264.17434	24.35589	0.2379589	2.3500974	26	2	1985–1997	0.57	M-v	4	Williams	28870	1996 XB ₂
1996 XE ₂	14.0	961113	294.29759	51.35681	75.28148	7.35075	0.0585698	2.3812676	25	2	1985–1997	0.69	M-v	5	Williams	28891	1996 XE ₂
1996 XQ ₅	14.5	961113	331.17009	39.77733	75.44564	2.68062	0.1012533	2.2010200	17	2	1991–1997	0.39	M-v	5	Williams	28871	1996 XQ ₅
1996 XA ₉	13.5	961113	346.77021	289.47868	157.02620	2.33137	0.0348050	2.8738299	30	4	1976–1997	0.54	M-v	3	Williams	28891	1996 XA ₉
1996 XX ₁₄	19.5	961113	3.62694	184.96936	195.68099	10.58364	0.6516395	2.5474217	50	1	46 days	0.71	M-v	6	Williams	28872	1996 XX ₁₄
1996 XW ₁₈	14.0	961113	154.39229	192.00429	115.45237	7.77479	0.1308909	2.2963288	35	2	1995–1997	0.41	M-v	4	Williams	28872	1996 XW ₁₈
1996 XV ₁₉	13.0	961113	93.51190	151.19911	186.63154	1.93130	0.1913158	2.4811584	18	5	1929–1997	0.85	M-v	4	Marsden	28873	1996 XV ₁₉
1996 XR ₂₅	13.5	961113	18.12631	267.73467	134.56812	4.67303	0.0928737	2.2898388	23	6	1975–1996	0.91	M-v	2	Williams	28873	1996 XR ₂₅
1996 XH ₂₆	15.5	961113	0.08019	250.63139	200.45955	0.57059	0.1076744	2.3416094	18	2	1994–1997	0.26	M-v	4	Marsden	28874	1996 XH ₂₆
1996 XW ₃₀	13.5	961113	153.30068	32.41503	261.53173	3.80109	0.1181890	2.1666988	17	4	1989–1997	0.54	M-v	2	Williams	28874	1996 XW ₃₀
1996 XG ₃₂	13.5	961113	184.50187	8.84838	235.16287	1.95387	0.1340973	2.2504323	18	3	1981–1997	0.72	M-v	4	Williams	28875	1996 XG ₃₂
1996 YD	13.5	961113	325.53984	87.09430	43.72342	2.48419	0.0901893	2.2591315	17	3	1984–1997	0.62	M-v	3	Williams	28875	1996 YD
1996 YF	14.0	961113	9.78490	358.03212	77.96085	5.72381	0.1208363	2.2574437	15	3	1980–1997	0.66	M-v	3	Williams	28875	1996 YF
1996 YJ	14.0	961113	69.77987	89.65582	280.99182	6.26555	0.1357525	2.3252663	14	3	1989–1997	0.40	M-v	4	Williams	28875	1996 YJ
1996 YK	12.5	961113	108.41474	156.40549	187.87907	0.45883	0.1191508	3.2568841	19	3	1989–1997	0.75	M-v	5	Williams	28876	1996 YK
1996 YM	14.0	961113	43.99529	299.84683	87.98809	3.53131	0.2083448	2.4105002	15	3	1991–1997	0.70	M-v	5	Williams	28876	1996 YM

1996 YO	15.0	961113	5.06748	192.55924	252.20672	2.08123	0.0903949	2.1723047	18	3	1979–1997	0.47	M-v	4	Williams	28876	1996 YO
1996 YR	14.5	961113	38.69523	298.16451	100.31103	7.05196	0.1670523	2.2382601	19	3	1989–1997	0.48	M-v	4	Williams	28876	1996 YR
1996 YY	12.5	961113	238.44871	318.56647	287.28117	10.22496	0.2588731	2.5509804	12	2	1986–1997	0.48	M-v	5	Williams	28876	1996 YY
1996 YB ₁	13.0	961113	29.04401	88.15843	335.58917	2.72914	0.0803029	2.7910377	16	2	1991–1997	0.46	M-v	5	Williams	28876	1996 YB ₁
1996 YC ₁	14.5	961113	274.59390	287.95796	273.47939	6.38155	0.1501695	2.4816955	16	2	1995–1997	0.45	M-v	4	Williams	28876	1996 YC ₁
1996 YO ₁	14.0	961113	262.52279	299.11073	274.11327	1.54131	0.1196864	2.4217375	17	2	1982–1997	0.38	M-v	5	Williams	28877	1996 YO ₁
1996 YU ₁	13.0	961113	82.14270	251.68738	113.17083	14.67309	0.1692840	2.6112714	30	4	1990–1997	0.51	M-v	2	Williams	28877	1996 YU ₁
1996 YF ₂	13.0	961113	65.90125	83.69382	288.21270	4.71524	0.2252380	2.5214912	21	2	1991–1997	0.50	M-v	5	Williams	28877	1996 YF ₂
1996 YK ₂	13.5	961113	331.36099	126.48453	10.72136	7.60454	0.1539338	2.3367850	21	6	1958–1997	0.91	M-v	2	Williams	28877	1996 YK ₂
1996 YU ₂	12.5	961113	42.58902	188.51414	186.76448	13.52381	0.1913564	3.0959179	22	4	1979–1997	0.61	M-v	2	Williams	28877	1996 YU ₂
1996 YW ₂	13.0	961113	159.90601	353.19607	297.31963	5.02606	0.1625830	2.2052379	20	5	1969–1997	0.76	M-v	2	Williams	28877	1996 YW ₂
1997 AG	14.0	961113	33.50526	99.69893	315.83000	3.98428	0.0779027	2.3185636	17	2	1989–1997	0.41	M-v	5	Williams	28877	1997 AG
1997 AH	13.5	961113	35.08301	311.98784	93.03710	6.25950	0.1793084	2.4605512	13	3	1988–1997	0.56	M-v	4	Williams	28878	1997 AH
1997 AU	12.5	961113	99.76133	339.61575	20.67214	2.17383	0.0866547	2.8826574	13	2	1993–1997	0.64	M-v	6	Williams	28878	1997 AU
1997 AY	12.0	961113	88.79838	290.40364	63.85887	4.12035	0.2085227	3.1350120	21	5	1951–1997	0.76	M-v	2	Williams	28878	1997 AY
1997 AK ₁	14.5	961113	351.94678	15.47212	89.11425	5.40501	0.0805482	2.2756864	24	3	1989–1997	0.77	M-v	5	Williams	28878	1997 AK ₁
1997 AV ₁	14.5	961113	60.77772	69.82406	317.10129	6.97643	0.1177654	2.4403905	17	2	1994–1997	0.48	M-v	4	Williams	28878	1997 AV ₁
1997 AY ₁	13.0	961113	15.83286	27.77438	56.02415	5.51703	0.0339227	2.4836123	18	4	1954–1997	0.44	M-v	1	Williams	28878	1997 AY ₁
1997 AA ₂	13.5	961113	312.77530	133.26115	28.78633	2.82858	0.1435612	2.6823066	16	4	1984–1997	0.49	M-v	2	Williams	28879	1997 AA ₂
1997 AO ₂	13.0	961113	0.01556	13.31562	92.61730	11.80282	0.0723700	2.9790233	12	2	1980–1997	0.46	M-v	5	Williams	28879	1997 AO ₂
1997 AV ₂	14.0	961113	326.61224	83.25344	69.06868	2.98072	0.2888832	2.7043280	12	2	1984–1997	0.31	M-v	5	Williams	28879	1997 AV ₂
1997 AT ₄	14.0	961113	66.13206	87.88985	299.85303	5.15223	0.1213643	2.3900297	22	2	1990–1997	0.46	M-v	4	Williams	28879	1997 AT ₄
1997 AB ₅	14.5	961113	356.34522	61.91629	30.80302	6.51672	0.1655613	2.4182147	17	3	1973–1997	0.66	M-v	4	Williams	28879	1997 AB ₅
1997 AD ₁₃	13.0	961113	280.08666	123.62097	94.06382	12.09865	0.2492316	2.5949098	16	3	1977–1997	0.71	M-v	5	Williams	28880	1997 AD ₁₃
2023 P-L	13.5	961113	273.26321	359.22889	322.75788	0.61850	0.1651028	3.0781505	32	8	1954–1996	0.87	M-v	1	Williams	26929	2023 P-L
2207 P-L	14.0	961113	177.46060	177.60264	334.75466	6.15223	0.0489585	2.3731379	18	3	1960–1995	0.62	M-v	3	Williams	25075	2207 P-L
2574 P-L	13.5	961113	72.25384	93.50416	13.05205	22.29057	0.0839169	3.1544138	30	4	1960–1994	0.86	M-v	2	Williams	27938	2574 P-L
2590 P-L	15.0	961113	251.95273	264.60303	11.10440	4.65834	0.1755689	2.4359708	15	2	1960–1994	0.70	M-v	6	Williams	24909	2590 P-L
2702 P-L	13.5	961113	297.30781	152.15177	38.75209	1.13750	0.1487756	3.1979376	19	4	1960–1997	0.65	M-v	1	Williams	22971	2702 P-L
3045 P-L	13.0	961113	187.06793	337.16568	332.82897	12.73434	0.1595015	2.6464922	36	4	1960–1997	0.73	M-v	2	Williams	28891	3045 P-L
4030 P-L	13.5	961113	350.22159	68.21726	292.71591	2.74999	0.0923799	2.7411851	21	4	1960–1996	0.57	M-v	4	Williams	28088	4030 P-L
4041 P-L	15.0	961113	318.99694	96.31946	292.46182	1.86753	0.1702867	2.3657501	15	4	1960–1996	0.70	M-v	3	Williams	27569	4041 P-L
4119 P-L	15.5	961113	91.94505	138.60876	191.51084	4.44379	0.2166828	2.1845270	20	3	1951–1989	0.70	M-v	4	Williams	22086	4119 P-L
4206 P-L	14.5	961113	131.83125	328.38798	350.21541	11.77376	0.1713565	2.3132216	49	5	1960–1997	0.70	M-v	2	Marsden	28892	4206 P-L
4603 P-L	13.0	961113	59.29088	353.96379	81.97136	3.04069	0.1992078	3.1959078	22	4	1960–1995	0.60	M-v	1	Williams	26423	4603 P-L
4606 P-L	14.5	961113	230.53050	214.90683	51.88011	2.05733	0.0806651	2.2943257	21	4	1960–1997	0.72	M-v	2	Williams	28892	4606 P-L
4661 P-L	14.0	961113	68.00522	17.84230	54.34754	2.70829	0.0413321	2.8855649	26	3	1960–1994	0.70	M-v	3	Williams	25652	4661 P-L
4831 P-L	14.5	961113	109.10192	108.34751	12.17150	13.44594	0.1559324	2.6071199	25	4	1960–1996	0.87	M-v	2	Williams	27328	4831 P-L
5004 P-L	13.0	961113	324.85608	120.93108	209.27195	10.97485	0.2283169	3.0300053	15	3	1960–1996	0.55	M-v	3	Williams	27328	5004 P-L
6030 P-L	12.5	961113	27.57248	217.59592	182.26420	3.30741	0.0150288	3.6517477	29	4	1960–1994	0.82	M-v	1	Williams	28620	6030 P-L
6071 P-L	13.5	961113	107.78629	341.44123	196.84157	8.89286	0.0905098	2.7842230	16	4	1954–1995	0.62	M-v	2	Williams	27732	6071 P-L
6130 P-L	14.0	961113	59.80300	293.36879	193.46800	4.20204	0.1054698	2.4387978	18	3	1949–1994	0.75	M-v	4	Williams	24578	6130 P-L
6516 P-L	16.0	961113	313.95910	1.96479	13.25153	6.45553	0.2435654	2.2241566	13	3	1960–1993	0.49	M-v	3	Williams	21978	6516 P-L
6543 P-L	12.5	961113	158.24018	250.23544	82.29334	2.08999	0.1742658	3.1734290	30	5	1954–1991	0.65	M-v	1	Williams	28620	6543 P-L
6588 P-L	13.5	961113	40.22594	330.10366	89.63250	0.66135	0.1413398	3.2151266	31	5	1960–1997	0.69	M-v	1	Williams	28892	6588 P-L
6594 P-L	15.0	961113	173.06713	196.27088	177.79362	6.35466	0.0721421	2.4335482	16	2	1960–1994	0.89	M-v	5	Williams	24578	6594 P-L
6600 P-L	15.0	961113	203.97517	137.25944	64.41194	1.96055	0.0645297	2.1919084	32	4	1960–1996	0.89	M-v	3	Williams	28620	6600 P-L
6615 P-L	14.5	961113	95.00329	180.49069	19.14588	4.70601	0.0935830	2.2331427	16	4	1954–1993	0.81	M-v	3	Williams	22827	6615 P-L
6624 P-L	16.0	961113	59.95878	334.35425	58.94518	3.07539	0.0917895	2.3172492	18	4	1960–1997	0.64	M-v	3	Williams	28892	6624 P-L
6703 P-L	15.0	961113	5.60193	309.57339	168.37543	4.09396	0.0231150	2.6583474	20	4	1960–1997	0.57	M-v	1	Williams	26754	6703 P-L
7610 P-L	14.5	961113	0.86856	77.03192	115.80067	4.27116	0.1325619	2.2748765	22	4	1960–1994	0.75	M-v	2	Williams	25652	7610 P-L
7633 P-L	13.5	961113	241.62302	208.37823	109.00357	3.30820	0.0583480	2.8371917	14	4	1951–1993	0.64	M-v	3	Williams	22495	7633 P-L

9073 P-L	12.5	961113	150.38199	22.45102	345.02019	4.91748	0.1502315	3.1495161	17	6	1954–1994	0.68	M-v	1	Williams	24120	9073 P-L
1104 T-1	14.0	961113	138.50179	73.46520	352.88515	11.67876	0.1289542	2.3538379	11	3	1971–1994	0.75	M-v	4	Williams	22701	1104 T-1
1163 T-1	13.5	961113	168.69694	4.47860	250.56611	3.15755	0.0905321	2.2420022	20	2	1971–1997	0.78	M-v	5	Williams	28892	1163 T-1
1222 T-1	14.0	961113	120.59791	354.71554	347.18404	11.28972	0.2332215	2.4391977	17	3	1971–1997	0.86	M-v	4	Williams	26423	1222 T-1
1251 T-1	12.5	961113	82.80119	37.40082	350.02253	9.12769	0.1039142	3.0540972	26	6	1971–1997	0.90	M-v	1	Williams	28892	1251 T-1
2120 T-1	15.0	961113	248.77955	97.74653	135.92345	2.76689	0.1241621	2.4216148	21	3	1971–1997	0.94	M-v	5	Williams	28880	2120 T-1
3057 T-1	14.5	961113	56.21796	40.62414	230.93416	2.45029	0.0454320	2.5280364	21	5	1971–1996	0.89	M-v	2	Williams	27732	3057 T-1
4161 T-1	13.0	961113	289.49158	143.23851	182.96582	14.77314	0.1439482	2.5867738	22	4	1971–1996	0.77	M-v	2	Williams	28880	4161 T-1
4825 T-1	14.5	961113	324.97943	275.51647	121.71479	3.15486	0.1581677	2.2674971	17	4	1971–1996	0.75	M-v	2	Williams	27732	4825 T-1
4886 T-1	14.0	961113	154.26899	289.32426	30.65698	6.68561	0.1486169	2.4358151	31	5	1971–1997	0.67	M-v	2	Williams	26423	4886 T-1
1125 T-2	14.0	961113	19.08980	179.31782	192.71837	0.96080	0.1725234	3.1859992	26	3	1973–1996	0.87	M-v	4	Williams	28088	1125 T-2
1274 T-2	14.5	961113	336.98904	69.34452	10.47395	1.90155	0.0357521	2.7272086	32	4	1973–1997	0.80	M-v	4	Williams	28892	1274 T-2
1277 T-2	13.5	961113	67.26718	203.28597	162.42366	1.56676	0.1942190	3.1228302	28	2	1973–1997	0.71	M-v	5	Marsden	28880	1277 T-2
1324 T-2	14.0	961113	216.45918	248.57241	19.99751	4.91362	0.1283711	2.3612264	39	6	1954–1997	0.94	M-v	1	Williams	27732	1324 T-2
2216 T-2	13.0	961113	66.24729	275.02173	31.37212	0.84572	0.2193337	3.1893825	28	3	1973–1996	0.72	M-v	4	Williams	27939	2216 T-2
2256 T-2	13.5	961113	0.96909	329.96540	136.35573	0.75730	0.1483220	3.1021613	41	3	1973–1997	0.78	M-v	5	Williams	26193	2256 T-2
2277 T-2	14.0	961113	77.57569	317.68692	30.16519	3.46786	0.0955255	2.7155031	24	3	1973–1991	1.11	M-v	6	Williams	22088	2277 T-2
3024 T-2	15.0	961113	27.45997	84.78471	7.98853	22.10943	0.0311562	2.6626298	21	4	1960–1997	0.75	M-v	2	Marsden	23988	3024 T-2
3187 T-2	14.0	961113	358.82997	30.95234	16.97122	7.00116	0.0977302	2.4311485	29	5	1973–1996	1.06	M-v	2	Williams	28893	3187 T-2
3270 T-2	14.5	961113	333.00252	65.13431	72.69080	3.34591	0.1367031	2.3891112	20	2	1973–1997	0.89	M-v	5	Williams	28881	3270 T-2
3295 T-2	15.0	961113	36.91287	179.50855	160.24664	6.80716	0.1402916	2.4439615	30	3	1973–1992	0.97	M-v	4	Williams	21126	3295 T-2
3357 T-2	15.0	961113	327.06399	50.31292	44.66732	1.03504	0.1148336	2.1908113	27	4	1973–1997	0.64	M-v	1	Williams	28893	3357 T-2
4216 T-2	12.0	961113	23.25037	143.81689	169.28614	9.29894	0.1529560	3.9603537	30	5	1973–1996	0.72	M-v	1	Williams	28893	4216 T-2
4221 T-2	12.5	961113	15.22197	343.96746	111.49690	2.09465	0.1485080	3.0947011	32	4	1973–1997	0.85	M-v	2	Williams	26186	4221 T-2
4240 T-2	14.5	961113	75.23477	319.42795	85.45131	3.47914	0.1885089	2.3835637	39	5	1973–1997	0.77	M-v	1	Williams	26193	4240 T-2
4314 T-2	14.5	961113	2.10916	323.53346	96.08791	3.64155	0.1700839	2.4275337	19	5	1962–1996	0.87	M-v	2	Williams	28893	4314 T-2
5148 T-2	14.0	961113	243.31572	39.62530	309.00875	6.34758	0.2175303	2.2964183	23	4	1973–1994	0.81	M-v	4	Williams	24410	5148 T-2
5162 T-2	12.5	961113	162.25192	353.12256	316.59822	8.69430	0.0743146	3.0678765	23	3	1973–1997	1.04	M-v	5	Williams	27732	5162 T-2
1039 T-3	14.5	961113	202.11394	322.79487	346.43017	12.81194	0.1286961	2.6590929	23	3	1977–1994	0.70	M-v	5	Williams	24915	1039 T-3
2287 T-3	13.5	961113	196.81769	336.97478	300.89237	3.43215	0.2038653	2.6908070	32	5	1977–1997	0.71	M-v	2	Williams	26423	2287 T-3
2372 T-3	14.5	961113	231.68241	60.23180	247.80929	2.98016	0.2945134	3.0718048	30	4	1976–1996	0.70	M-v	1	Williams	28893	2372 T-3
4019 T-3	13.5	961113	150.39605	177.10810	166.08170	4.84471	0.1121312	2.6856373	31	6	1971–1997	0.92	M-v	2	Williams	23792	4019 T-3
4071 T-3	15.0	961113	138.44011	17.90272	62.75419	4.98243	0.1459824	2.2868677	22	7	1977–1996	0.97	M-v	2	Williams	27939	4071 T-3
5124 T-3	14.0	961113	316.40290	57.27068	103.02618	7.18201	0.0607541	2.3638294	18	2	1977–1997	0.77	M-v	5	Williams	28881	5124 T-3

NEW NAMES OF MINOR PLANETS

(3303) Merta = 1967 UN

Discovered 1967 Oct. 30 by L. Kohoutek at Bergedorf.

Named by the discoverer in memory of his grandfather, František Merta (1872–1953), elementary-school teacher and pedagogic journalist, a writer and translator who propagated humanistic ideas.

(3382) Cassidy = 1948 RD

Discovered 1948 Sept. 7 by H. L. Giclas at the Lowell Observatory.

Named in honor of William A. Cassidy (b.1928), geologist at the University of Pittsburgh. He was a pioneer investigator of tektite strewn fields and meteorite-impact craters. At the Campo del Cielo in Argentina he documented one of the first known occurrences of multiple impact craters intimately associated with meteorite masses. For 15 years he led meteorite recovery teams on glacial stranding surfaces in Antarctica and was responsible for the acquisition of several thousand meteorites there, including lunar and martian specimens. He has investigated crystallization in

plasmas simulating dust condensation in stellar atmospheres and vapor-deposition processes on surfaces simulating the moon and planets. Named by the discoverer following a suggestion by T. P. Kohman and B. W. Hapke, who wrote the citation.

(3476) Dongguan = 1978 UF₂

Discovered 1978 Oct. 28 at the Purple Mountain Observatory.

Named for the “Town of Fish and Rice and Fruit”, a developing industrial city with modernized construction and natural rural scenery.

(3833) Calingasta = 1971 SC

Discovered 1971 Sept. 27 by J. Gibson and C. U. Cesco at the Yale-Columbia Southern Station, El Leoncito.

Named for the region of Argentina where the discovery site is located. The region has good astronomical seeing, and a large area has been declared as both an astronomical and an ecological reserve in order to preserve the observing conditions. Name proposed by the first discoverer following a suggestion by J. G. Sanguin.

(3884) Alferov = 1977 EM₁

Discovered 1977 Mar. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of the outstanding physicist and academician Zhores Ivanovich Alferov (b.1930), director of the Ioffe Physical and Technical Institute in St. Petersburg. Alferov made fundamental contributions to the physics of solid bodies and semiconductors, semiconductor heterostructures and semiconductor and quantum electronics. Named by the discoverer following a suggestion by the Institute of Theoretical Astronomy.

(3934) Tove = 1987 DF₁

Discovered 1987 Feb. 23 by P. Jensen, K. Augustesen and H. J. Fogh Olsen at Brorfelde.

Named in honor of Tove Augustesen, wife of the second discoverer.

(4140) Branham = 1976 VA

Discovered 1976 Nov. 11 at the Felix Aguilar Observatory, El Leoncito.

Named in honor of Richard L. Branham Jr. (b.1943), a U.S. astronomer who works in meridian astronomy and celestial mechanics. Branham worked in the 7-inch Transit Circle Division of the U.S. Naval Observatory from 1968 to 1982, toward the end of which time he was resident director of the Yale-Columbia Southern Station at El Leoncito and also in charge of the Naval Observatory's Austral Expedition. Since 1982 he has continued his astronomical research and teaching in Argentina.

(4185) Phystech = 1975 ED

Discovered 1975 Mar. 4 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Named in honor of the Moscow Physical and Technical Institute, the key institute in Russia for training experts and investigators in the domains of modern physics, mathematics and engineering. Name proposed by the Institute of Theoretical Astronomy on the occasion of the 50th anniversary of the Institute in 1996.

(4267) Basner = 1971 QP

Discovered 1971 Aug. 18 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Named in memory of Veniamin Efimovich Basner (1925–1996), outstanding Russian composer, author of operas, ballets, operettas, excellent songs, symphonic and chamber compositions and music for many movies. Name proposed by the Russian St. Petersburg Composers' Union.

(4307) Cherepashchuk = 1976 UK₂

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

Named in honor of Anatolij Mikhajlovich Cherepashchuk (b.1941), professor at Moscow State University and director of the Sternberg Astronomical Institute, respected worldwide for his work in theoretical and observational astrophysics. From an analysis of eclipses in close-binary systems he obtained correct estimates of the radii and temperatures of Wolf-Rayet stars, predicted x-ray emission in such systems, discovered optical eclipses in the unique binary system V1343 Aql and developed a commonly-adopted model of this object as a massive x-ray binary. He also discovered fast emission-line variability in the nuclei of Seyfert galaxies. Name proposed by the Institute of Theoretical Astronomy.

(4504) Jenkinson = 1989 YO

Discovered 1989 Dec. 21 by R. H. McNaught at Siding Spring.

Named for Nora Jenkinson, Scottish astronomy educator. In the town of Haddington, near Edinburgh, she conducted weekly classes in astronomy for youngsters for the past 22 years (missing only six weeks because of severe weather). In her retirement, she has expanded the classes, and her boundless cheerfulness and enthusiasm are communicated to all those whom she teaches, many of them having gone on to study astronomy at a university.

(4513) Louvre = 1971 QW₁

Discovered 1971 Aug. 30 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Named in honor of the stately architectural ensemble in Paris, the former residence of French kings, now one of the most famous museums and largest collections of works of art in the world. Name suggested by M. B. Piotrovsky.

(4638) Estens = 1989 EG

Discovered 1989 Mar. 2 by R. H. McNaught at Siding Spring.

Named for John (Jack) Locke Estens (b.1919), Australian astronomy educator. Following a life of farming, he devoted his retirement to bring astronomy to the public with his handsomely constructed observatory and lecture room in Gilgandra, N.S.W. Opened in 1975, the observatory saw a steady stream of visitors until his second retirement in 1996. Always friendly and enthusiastic, he provided a service missing at the professional observatories, with his personal tours of the night sky.

(4704) Sheena = 1988 BE₅

Discovered 1988 Jan. 28 by R. H. McNaught at Siding Spring.

Named for Sheena Fleming Phillips (b.1952), sister of the discoverer and a landscape artist living in Haddington, Scotland.

(4710) Wade = 1989 AX₂

Discovered 1989 Jan. 4 by R. H. McNaught at Siding Spring.

Named for Wade Richard Butler (b.1949), a friend of the discoverer. Son of the famous "bare-foot" bushwalker Dot Butler, he had a long-time interest in the bush and remote places. After graduating in engineering, he overwintered in Antarctica working in cosmic-ray physics. His romantic passion for astronomy brought him to the Warrumbungle Mountains, in the shadow of Siding Spring, where he and his wife Margaret, with many friends, built a home and an observatory. In December 1995 he disappeared during a solo bushwalk in a very rugged part of southeastern Tasmania. This minor planet places Wade Butler in the sky with his children Lyra, Rigel, Leo and Eric Antares Butler, as he would have wished.

(4758) Hermitage = 1978 SN₄

Discovered 1978 Sept. 27 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Named for one of the largest museums in the world, the unique depository in St. Petersburg of works of the world's art and culture. Name proposed by the discoverer following a suggestion by the Institute of Theoretical Astronomy.

(4777) Aksenov = 1976 SM₂

Discovered 1976 Sept. 24 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in memory of a well-known authority on celestial mechanics, Evgenij Petrovich Aksenov (1933–1995), director of the Sternberg Astronomical Institute in Moscow for many years. With Grebenikov and Demin he investigated and found a general solution for the generalized problem of two fixed centers, carrying out a qualitative investigation of all possible types of motion within the problem and

considering their stability. He also developed an analytical theory for the motions of artificial satellites based on a non-Keplerian intermediate orbit, and he proved the existence of several new classes of periodic solutions within the circular restricted three-body problem. Name suggested by the Institute of Theoretical Astronomy.

(4869) Piotrovsky = 1989 UE_s

Discovered 1989 Oct. 26 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Named in memory of the outstanding archaeologist Boris Borisovich Piotrovsky (1908–1990), director of the Hermitage museum in St. Petersburg for many years. The name also honors his son Mikhail Borisovich Piotrovsky (b. 1944), a well-known orientalist who succeeded his father as Hermitage director. Name proposed by the discoverer following a suggestion by the Institute of Theoretical Astronomy.

(4930) Rephiltim = 1983 AO₂

Discovered 1983 Jan. 10 by S. L. Salyards at Palomar.

A composite name to honor the children of the discoverer: Rebecca Anne Salyards (b. 1988), Philip Stephen Salyards (b. 1991) and Timothy Theodore Salyards (b. 1995), all of whom enjoy studying the night sky.

(4974) Elford = 1990 LA

Discovered 1990 June 14 by R. H. McNaught at Siding Spring.

Named in honor of W. Graham Elford (b. 1926), past president of IAU Commission 22. Since entering radar meteor research soon after taking his bachelor's degree in 1949, he has spent his entire career at the University of Adelaide working in that area, apart from periods spent as a visiting scientist at Cambridge, Lund and with the Harvard Radio Meteor Project in the 1960s. Elford has made a number of major contributions to our understanding of meteor astronomy, meteor physics and atmospheric physics. Name proposed by the discoverer following a suggestion by D. I. Steel, who prepared the citation.

(5007) Keay = 1990 UH₂

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

Named in honor of Colin Stewart Lindsay Keay (b. 1930), past president of IAU Commission 22 and chairman of the IAU Working Group on the Prevention of Interplanetary Pollution, who has made several major contributions to our understanding of the meteoroidal flux to the earth. His well-controlled radar patrol from the University of Canterbury during 1960–65 in collaboration with Clifton Ellyett remains our best knowledge of the southern-hemisphere influx. Since 1965 Keay has worked at the University of Newcastle (N.S.W.), one of his most noteworthy achievements being the development of a physical theory for the production of electrophonic sounds by bright fireballs. Name proposed by the discoverer following a suggestion by D. I. Steel, who prepared the citation, and an endorsement by B. G. Marsden.

(5066) Garradd = 1990 MA

Discovered 1990 June 22 by R. H. McNaught at Siding Spring.

Named for Gordon John Garradd (b. 1959), amateur astronomer and photographer who has wide-ranging interests in astronomy and natural history, amply demonstrated by his discovery of four novae in the Large Magellanic Cloud, a photographic fireball patrol and outstanding photographs of wildlife and storms. He has made extensive astrometric observations of minor planets and comets that have otherwise often gone unobserved in the southern hemisphere. He has produced some spectacular astronomical photographs and CCD images, been an observer with Spaceguard Australia and served as coordinator of a storm-spotter network. Named by the discoverer, endorsed by D. I. Steel, B. G. Marsden and G. V. Williams.

(5086) Demin = 1978 RH₁

Discovered 1978 Sept. 5 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in memory of Vladimir Grigor'evich Demin (1929–1996), well-known expert on celestial mechanics and dynamics of rigid bodies, professor at Moscow University for many years and member of the editorial board of *Kosmicheskie Issledovaniya* (Cosmic Researches). With Aksekov and Grebenikov he investigated the generalized problem of two fixed centers, and he was among the first to develop theories of the motions of artificial satellites. He was also known for numerous monographs and textbooks on celestial mechanics, and he blazed the way to science for many students. Name proposed by the discoverer following a suggestion by the Institute of Theoretical Astronomy.

(5133) Phillipadams = 1990 PA

Discovered 1990 Aug. 12 by R. H. McNaught at Siding Spring.

Named in honor of Phillip Adams (b. 1939), Australian broadcaster, writer, journalist, wit and philosopher. Amongst his multifarious good works, he helped promote the Australian search and follow-up program on near-earth asteroids from 1990 until its cessation in 1996. Name proposed by the discoverer following a suggestion by D. I. Steel, who prepared the citation.

(5136) Baggaley = 1990 UG₂

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

Named in honor of W. Jack Baggaley (b. 1938), radar meteor researcher at the University of Canterbury. Born and educated in Sheffield (England), where he took his Ph.D. in the mid-1960s under Tom Kaiser, he then moved to Christchurch, where he currently has the rank of professor of physics. Baggaley's research has encompassed many distinct areas of radio studies of meteors, and during the 1990s he has measured more meteoroid orbits than in all previous experiments combined. Name proposed by the discoverer following a suggestion by D. I. Steel, who prepared the citation.

(5252) Vikrymov = 1985 PZ₁

Discovered 1985 Aug. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Viktor Aleksandrovich Krymov (b. 1929), deputy director of the Institute of Theoretical Astronomy for many years. His skillful and energetic work contributes much to the proper functioning of the Institute. Name proposed by the discoverer following a suggestion by the Institute of Theoretical Astronomy.

(5320) Lisbeth = 1985 VD

Discovered 1985 Nov. 14 by P. Jensen, K. Augustesen and H. J. Fogh Olsen at Brorfelde.

Named in honor of Lisbeth Fogh Olsen, daughter of the third discoverer, currently graduating in astronomy at the Copenhagen Observatory.

(5321) Jagras = 1985 VN

Discovered 1985 Nov. 14 by P. Jensen, K. Augustesen and H. J. Fogh Olsen at Brorfelde.

Named in honor of Jakob Grove Rasmussen, fiancé of the daughter of the third discoverer, currently graduating in astronomy at the Copenhagen Observatory.

(5378) Ellyett = 1991 GD

Discovered 1991 Apr. 9 by R. H. McNaught at Siding Spring.

Named in honor of Clifton Darfield Ellyett (b. 1915), pioneer of radar meteor research in New Zealand. After taking his Ph.D. at Jodrell Bank in the late 1940s,

Ellyett returned to his native country and began a research program in radar meteors at what is now the University of Canterbury. In the early 1960s he carried out with Colin Keay the important southern-hemisphere radar patrol of meteors from near Christchurch. In 1965 Ellyett left to become professor of physics in the University of Newcastle (N.S.W.), starting there a new research group in atmospheric science. Name proposed by the discoverer following a suggestion by D. I. Steel, who prepared the citation.

(5414) Sokolov = 1977 RW₆

Discovered 1977 Sept. 11 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Viktor Georgievich Sokolov (b. 1946), specialist in analytical methods of celestial mechanics and scientific secretary of the Institute of Theoretical Astronomy. His scientific and organizational work is an essential constituent of the Institute's activity and contributes significantly to its successful operation. Name proposed by the discoverer following a suggestion by the Institute of Theoretical Astronomy.

(5417) Solovaya = 1981 QT

Discovered 1981 Aug. 24 by L. Brožek at Kleť.

Named in honor of Nina A. Solovaya (b. 1940), an astronomer in the celestial mechanics department of the Sternberg State Astronomical Institute in Moscow. Her general field of work involves analytical and qualitative methods of celestial mechanics, especially the three-body problem. She has applied the results to triple-star systems, to planetary satellites and to minor planets in the outer part of the main belt. Name proposed by the Kleť Observatory following a suggestion by E. M. Pittich.

(5456) Merman = 1979 HH₃

Discovered 1979 Apr. 25 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Grigorij (Hirsh) Aronovich Merman (b. 1921), staff member of the Institute of Theoretical Astronomy from 1951 to 1985. Merman has obtained important results in different areas of celestial mechanics. His work on the three-body problem involved the construction of a rigorous theory of capture, establishment of criteria for the feasibility of various types of end motions and derivation of a general solution in the form of a convergent series of polynomials. He also investigated the stability of canonical equations and estimated the remainders of the infinite series used in celestial mechanics. Name proposed by the discoverer following a suggestion by the Institute of Theoretical Astronomy.

(5687) Yamamotoshinobu = 1991 AB₁

Discovered 1991 Jan. 13 by Y. Kushida and O. Muramatsu at the Yatsugatake South Base Observatory.

Named in honor of Shinobu Yamamoto (b. 1911), who served as director of the Gotoh Planetarium in Tokyo from 1987 to 1990. In the 1950s, he had made a great effort to establish that planetarium, following the destruction of its predecessor during World War II. Completed in 1957, the Gotoh Planetarium immediately attracted many people, as the first artificial satellites were launched at that time.

(5706) Finkelstein = 1971 SS₁

Discovered 1971 Sept. 23 at the Crimean Astrophysical Observatory.

Named in honor of Andrej Mikhajlovich Finkelstein (b. 1942), expert in relativistic celestial mechanics and radioastrometry, founder and director of the Russian Academy of Sciences' Institute of Applied Astronomy in St. Petersburg. Name proposed by the Institute of Theoretical Astronomy.

(5734) Noguchi = 1989 AL₁

Discovered 1989 Jan. 15 by K. Endate and K. Watanabe at Kitami.

Named in honor of Souichi Noguchi (b. 1965), an astronaut working for the Japanese Aerospace Development Agency NASDA, chosen among 572 applicants for the position in 1996. He obtained a master's degree in aeronautics at the University of Tokyo and has been training as a mission specialist for NASA. Name proposed by the second discoverer following a suggestion by K. Tomita.

(5750) Kandatai = 1991 GG₁

Discovered 1991 Apr. 11 by A. Takahashi and K. Watanabe at Kitami.

Named in honor of Tai Kanda (b. 1938), a staff member of the Japanese National Astronomical Observatory who works for the Public Service Division and as the editor of *Rika Nenpyo* (Chronological Science Tables), published by the Observatory. He grew up in a family of astronomers as a son of Kiyoshi Kanda and a nephew of Shigera Kanda. Name proposed by the second discoverer following a suggestion by K. Tomita.

(5753) Yoshidatadahiko = 1992 EM

Discovered 1992 Mar. 4 by K. Endate and K. Watanabe at Kitami.

Named in honor of Tadahiko Yoshida (b. 1941), the director of the Tsukuba regional office of the company Advanced Engineering Service, which supports space development for NASDA.

(5847) Wakiya = 1989 YB

Discovered 1989 Dec. 18 by K. Endate and K. Watanabe at Kitami.

Named in honor of Nanayo Wakiya (b. 1953), who joined the Japan Planetarium Laboratory in 1985 with the space artist Numazawa, after working for the Mito and Niigata planetaria. Among her many activities she writes articles for astronomical magazines and directs programs about space on television.

(5850) Masaharu = 1990 XM

Discovered 1990 Dec. 8 by K. Endate and K. Watanabe at Kitami.

Named in honor of Masaharu Suzuki (b. 1949), who is in charge of the Planetarium Programs Production Division at the Gotoh Optical Laboratory. He is also known for his production of 70-mm large-format films.

(5868) Ohta = 1988 TQ

Discovered 1988 Oct. 13 by K. Endate and K. Watanabe at Kitami.

Named in honor of Kentaro Ohta (b. 1942), who was in charge of designing optical telescopes at the Gotoh Optical Laboratory for many years and who now leads the large-format film section. He has also written many articles in astronomical magazines for amateur astronomers.

(5875) Kuga = 1989 XO

Discovered 1989 Dec. 5 by K. Endate and K. Watanabe at Kitami.

Named in honor of Naoto Kuga (b. 1964), who produces planetarium programs at the Gotoh Optical Laboratory.

(5923) Liedeke = 1992 WC₈

Discovered 1992 Nov. 26 by Spacewatch at Kitt Peak.

Named in honor of Liedeke Gehrels-de Stoppelaar on the occasion of her completion of 21 years teaching Art History and French at University High School, a magnet school in Tucson that gives students the opportunity to pass advanced-placement examinations for credit at universities. She guided these programs through their formative years when this type of school was new in the United States, after her own preparation with a Ph.D. on the theme of justice in the writings of Albert Camus.

and with 13 years of teaching elsewhere. Named following a suggestion by C. J. van Houten and I. van Houten-Groeneveld.

(5975) Otakemayumi = 1992 SG

Discovered 1992 Sept. 21 by K. Endate and K. Watanabe at Kitami.

Named in honor of Mayumi Otake (b. 1967), well known for her work as sound producer of planetarium programs.

(5978) Kaminokuni = 1992 WT

Discovered 1992 Nov. 16 by K. Endate and K. Watanabe at Kitami.

Named for one of the oldest towns in Hokkaido, with a population of 8000. The history of the town can be traced for 800 years, which is unusually long in Hokkaido.

(5995) Saint-Aignan = 1982 DK

Discovered 1982 Feb. 20 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Charles P. de Saint-Aignan on the occasion of his 20th birthday, 1997 February 16. During two seasons as a summer student of the discoverer, de Saint-Aignan worked on measuring minor planet positions for orbit improvement. He has also worked at the Minor Planet Center and is currently a student at Brown University. Name proposed by the discoverer, following a suggestion by B. G. Marsden, endorsed by G. V. Williams.

(6024) Ochanomizu = 1992 UT₄

Discovered 1992 Oct. 27 by A. Sugie at Dynic Astronomical Observatory.

Named for the area in Tokyo that includes Kanda-Surugadai and Yushima. The name means 'water of tea', because during the Edo period high-quality water sprang out from the cliff there and was used for the tea ceremony by Tokugawa Shogunate.

(6049) Toda = 1991 VP

Discovered 1991 Nov. 2 by A. Takahashi and K. Watanabe at Kitami.

Named in memory of Kojun Toda (1879–1951), an observer of the Tokyo Astronomical Observatory during 1902–1940 who assisted Shin Hirayama in making a photographic survey of the Milky Way. He discovered the minor planet (804) Hispania at its 1903 predisccovery opposition.

(6140) Kubokawa = 1992 AT₁

Discovered 1992 Jan. 6 by K. Endate and K. Watanabe at Kitami.

Named in memory of Kazuo Kubokawa (1903–1943), a staff member of Tokyo Astronomical Observatory who made photographic observations of minor planets and comets with the Brashear astrograph at Mitaka. He and O. Oikawa discovered (1139) Atami in 1929.

(6193) Manabe = 1990 QC₁

Discovered 1990 Aug. 18 by K. Endate and K. Watanabe at Kitami.

Named in memory of Ryonosuke Manabe (1926–1983), who worked for many years as a computer assistant for H. Hirose at the Tokyo Astronomical Observatory. In 1974 he went to work for NASDA, where he was involved with the Japanese geodesy satellite. Name proposed by the second discoverer following a suggestion by K. Tomita.

(6195) Nukariya = 1990 VL₂

Discovered 1990 Nov. 13 by K. Endate and K. Watanabe at Kitami.

Named in honor of Motoi Nukariya (b. 1943), who was active in software development at the Tokyo Astronomical Observatory before moving to NASDA in 1971 to develop their orbit-determination system for satellites. Name proposed by the second discoverer following a suggestion by K. Tomita.

(6201) Ichiroshimizu = 1993 HY

Discovered 1993 Apr. 16 by K. Endate and K. Watanabe at Kitami.

Named in honor of Ichiro Shimizu (1923–1996), who began work for the Tokyo Astronomical Observatory in 1945 and was heavily involved in the construction of the Corona Observing Station on Mt. Norikura. He was later a key astronomer in the solar physics division of the Observatory until he retired in 1984. Name proposed by the second discoverer following a suggestion by K. Tomita.

(6208) Wakata = 1988 XT

Discovered 1988 Dec. 3 by K. Endate and K. Watanabe at Kitami.

Named in honor of Kouichi Wakata, chosen by NASDA as the astronaut in 1992 among 372 applicants, after receiving a master's degree in applied dynamics at the University of Kyushu and working for Japan Air Lines. In January 1996 he was on board the space shuttle Endeavor and succeeded in recovering a Japanese satellite.

(6247) Amanogawa = 1990 WY₃

Discovered 1990 Nov. 21 by K. Endate and K. Watanabe at Kitami.

Named for a river that runs through the Hokkaido town of Kaminokuni. It is also the Japanese word for the Milky Way.

(6274) Taizaburo = 1992 FV

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

Named in honor of Taizaburo Koyama (b. 1927), a pioneer amateur astrophotographer who in 1973 invented the portable automatic equatorial telescope Sky Memo.

(6323) Karoji = 1991 CY₁

Discovered 1991 Feb. 14 by K. Endate and K. Watanabe at Kitami.

Named in honor of Hiroshi Karoji (b. 1946), a professor at the Japanese National Astronomical Observatory and one of the leading astronomers in the team to construct the 8-meter Subaru telescope at Mauna Kea. He spent more than ten years at the Institut d'Astrophysique in Paris before joining the Subaru team. His main interests are the redshift distribution of galaxies and activity in infrared galaxies.

(6330) Koen = 1992 FN

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

Named in honor of Koen Yanagiya (b. 1954), a professional comic story teller, 'rakugoka' in Japanese. His style is different from that of other 'rakugokas', as he is very interested in astronomy, and his topics include astronomical events. He often appears at star parties to entertain the participants.

(6337) Shiota = 1992 UC₄

Discovered 1992 Oct. 26 by K. Endate and K. Watanabe at Kitami.

Named in honor of Kazuo Shiota (b. 1949), a Japanese amateur astronomer who developed image-processing technology for astronomical photographs. He is also interested in total solar eclipses and developed a special filter for use in observing these eclipses.

(6345) Hideo = 1994 AX₁

Discovered 1994 Jan. 5 by K. Endate and K. Watanabe at Kitami.

Named in honor of Hideo Fukushima (b. 1953), a staff member in the public information office of the Japanese National Astronomical Observatory. Long active as an amateur astronomer, he has experimented extensively with CCD techniques and has published a book on the subject.

(6389) Ogawa = 1990 BX

Discovered 1990 Jan. 21 by K. Endate and K. Watanabe at Kitami.

Named in honor of Shigeo Ogawa (b.1932), president of Seibundo Shinkosha Company, which publishes the monthly astronomical magazine *Tenmon Guide*, and many astronomical books.

(6390) Hirabayashi = 1990 BG₁

Discovered 1990 Jan. 26 by K. Endate and K. Watanabe at Kitami.

Named in honor of Shigeto Hirabayashi (b. 1953), amateur astronomer known for his expertise in astronomical photography. His method for increasing the sensitivity of photographic films has been used by many amateurs.

(6408) Saijo = 1992 UT₅

Discovered 1992 Oct. 28 by K. Endate and K. Watanabe at Kitami.

Named in honor of Yoshihiro Saijo (b.1959), amateur astronomer and editor of a monthly magazine, known for his work in astrophotography.

(6464) Kaburaki = 1994 CK

Discovered 1994 Feb. 1 by Y. Kushida and O. Muramatsu at the Yatsugatake South Base Observatory.

Named in memory of Masaki Kaburaki (1902–1987), a professor of astronomy at the University of Tokyo before he retired in 1963. He taught spherical and practical astronomy there, and his main interest was in kinematics of our Galaxy. He served as the president of the Japanese Astronomical Society around 1955 and was the director of Gotoh Astronomical Museum during 1974–1987.

(6465) Zvezdotchet = 1995 EP

Discovered 1995 Mar. 3 by T. V. Kryachko at the Zelenchukskaya Station of the Engelhardt Observatory.

Named for the Russian amateur astronomers' magazine *Zvezdotchet* (Stargazer) and its readers.

(6523) Clube = 1991 TC

Discovered 1991 Oct. 1 by R. H. McNaught at Siding Spring.

Named for the English astronomer S. Victor M. Clube (b.1934), renowned for his heterodox views on various areas of astrophysics and planetary science. Clube was a student at Oxford, where he was a cricketer of note, his bowling bamboozling various famous West Indian batsmen before the young Gary Sobers hit him for six. After working for many years at the Royal Observatory, Edinburgh, Clube returned to Oxford, where he continues research on the small bodies in the solar system, their putative giant comet origin, and their influence upon the terrestrial climate and human civilizations. He also has interests in various other areas of astrophysics and general relativity. Name proposed by the discoverer following a suggestion by D. I. Steel, who prepared the citation.

(6524) Baalke = 1992 AO

Discovered 1992 Jan. 9 by E. F. Helin at Palomar.

Named in honor of Ron Baalke, software engineer at the Jet Propulsion Laboratory who works on telemetry systems for the Deep Space Network. Since 1989 he has been performing public outreach services on the Internet on the behalf of NASA. His numerous homepages on the World Wide Web have reached millions of people around the world and have been among the most popular home pages from NASA. These pages have been instrumental in promoting the World Wide Web as a vehicle for distributing information and images. Name proposed by the discoverer following a suggestion by A. Beresford.

(6564) Asher = 1992 BB

Discovered 1992 Jan. 25 by R. H. McNaught at Siding Spring.

Named in honor of David John Asher (b.1966), researcher on the dynamics of the small bodies in the solar system. Born in Scotland, Asher took degrees at the universities of Cambridge, Oxford and Edinburgh. Following this, he took the words of Douglas Adams in *The Hitchhiker's Guide to the Galaxy* to heart—"With a degree in maths, and another in astrophysics, it was either that or back to the dole queue on Monday"—and moved to Australia, where he spent two years at the Anglo-Australian Observatory. He is currently working at the National Astronomical Observatory in Japan. Name proposed the discoverer following a suggestion by D. I. Steel, who prepared the citation.

(6643) Morikubo = 1990 VZ

Discovered 1990 Nov. 7 by Y. Kushida and O. Muramatsu at Yatsugatake South Base Observatory.

Named in honor of Shigeru Morikubo (b.1913), since 1930 an amateur astronomer, observer of variable stars, sunspots, meteors and occultations, and a pioneer in observing meteoric dust. Since 1955 he has been continuing to study meteoric dust through his medical microscope. In 1967 he became the first chairman of the Japan Amateur Astronomers' Convention, and he continues to edit a history of amateur astronomy in Japan. Name proposed by the discoverers following a suggestion by S. Sakuma.

(6865) Dunkerley = 1991 TE₂

Discovered 1991 Oct. 2 by Y. Kushida and O. Muramatsu at the Yatsugatake South Base Observatory.

Named in honor of Charlotte Herschel Dunkerley, a descendant of William Herschel who recently completed the Herschel family genealogy as a result of the family reunion that took place in Bath in 1988 to celebrate the 250th anniversary of William Herschel's birth. More than 80 descendants attended the occasion and amended the family records upon which the revised genealogy is based. The record of the Herschel family began around the year 1600 and is a valuable resource for researchers and historians in the field of astronomy. Name proposed by the discoverers following a suggestion by S. Kimura.

(6884) Takeshisato = 9521 P-L

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Named in honor of Takeshi (Ken) Sato, a devoted educator who is currently director of the planetarium at Hiroshima's Children's Museum. He is an amateur planetary observer who served as director of the Jupiter-Saturn Section of the Oriental Astronomical Association during 1960–1971. He initiated the ordinance to minimize light pollution in the town of Bisei, Okayama Prefecture. Enacted in 1989, this ordinance was the first of its kind in Japan.

(6885) Nitardy = 9570 P-L

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Named in honor of John H. Nitardy, who has worked in communications engineering for the Boeing Company since 1965 and is currently a consultant to them. Together with his wife Ilene, he saved the Spacewatch program in an intricate financial situation in early 1996. They are also known for their hospitality for and endorsement of foreign exchange students.

(6939) Lestone = 1952 SW₁

Discovered 1952 Sept. 22 by L. E. Cunningham at Mount Wilson.

Named for Leighton Buzzard, a small market town in south Bedfordshire, England. The town is recorded in the Domesday Book (1086) as Lestone, and later variations of the name include Leyton and Leighton. The suffix Buzzard is believed to have been added in the twelfth century and to be a corruption of the family name of the first town prebendary, Theobald de Busar. Name suggested by G. V. Williams, who made the identifications for this object and who grew up in the town.

(7014) Nietzsche = 1989 GT₄

Discovered 1989 Apr. 3 by E. W. Elst at the European Southern Observatory. Named in memory of the great German philosopher Friedrich Nietzsche (1844–1900), renowned for his criticisms on religion, philosophy and morality. One of his early writings, *The Birth of Tragedy from the Spirit of Music* (1872), remains a classic in the history of esthetics. His best-known work is *Thus spoke Zarathustra* (1883–1885), in which he noted that most men can not accept the intrinsic meaninglessness of existence: they therefore seek supplanting absolutes to invest life with meaning (philosophy and religion). But now “God is dead”. The slaughter of rivals and the conquest of the earth will proceed, under the banners of universal brotherhood, democracy and socialism.

(7015) Schopenhauer = 1990 QC₈

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

Named for the celebrated German philosopher of pessimism, Arthur Schopenhauer (1788–1860). In 1813 he went to Weimar and came in intimate association with Goethe. Later he considered that Hindu scriptures, together with Plato and Kant, should constitute the foundations on which to erect his own philosophical system. In *On Vision and Colours* (1816) he supported Goethe against Newton. His main work was *The World as Will and Idea* (1819), wherein he develops the fundamental idea that “the world is my representation”. The world is only comprehensible with the aid of the constructs of man’s intellect—space, time and causality.

(7039) Yamagata = 1996 GO₂

Discovered 1996 Apr. 14 by T. Okuni at Nanyo.

Named for one of the six prefectures in the Tohoku (northeast) district in Japan, its capital being Yamagata city with a population of 1.25 million. The prefecture is famous for fruit production, notably cherries, apples and grapes. The Zaou and Tukigata areas of Yamagata are popular for skiing.

(7062) Meslier = 1991 PY₅

Discovered 1991 Aug. 6 by E. W. Elst at the European Southern Observatory.

Named for the French priest and philosopher Jean Meslier (1664–1729). After his death, a 1200-page manuscript *Lettres aux Curés du Voisinage* was discovered. This showed him as a fervent atheist, materialist and revolutionist: “The real original sin of men is to be born in poverty, in misery, in dependence and tyranny of the mighty one. We must do everything to free them from this disgusting and damned sin.” Although some copies of the manuscript circulated throughout the eighteenth century (eliciting comments from Voltaire and Holbach), the work was finally published only in 1864.

(7068) Minowa = 1994 WD₁

Discovered 1994 Nov. 26 by Y. Kushida and O. Muramatsu at Yatsugatake South Base Observatory.

Named in honor of Toshiyuki Minowa (b. 1918), a Japanese amateur astronomer. During ten years beginning in 1949, a meteor camera of the Tokyo Astronomical Observatory was installed in his garden as the end of a baseline. He was one of the founders, in 1953, of Kawasaki Astronomy Club. As a schoolmaster, he was eager

to popularize astronomy among children, and he contributed a telescope that can be operated by a wheelchair user. He was the second chairman of the Japan Amateur Astronomers’ Convention (1980–1983). Name proposed by the discoverers following a suggestion by S. Sakuma.

(7083) Kant = 1989 CL₃

Discovered 1989 Feb. 4 by E. W. Elst at the European Southern Observatory.

Named for the great German philosopher Immanuel Kant (1724–1804), foremost thinker of the Enlightenment. His comprehensive and systematic works in the theory of knowledge, ethics and esthetics have greatly influenced all subsequent philosophy. Although he started his study with theology, he was principally attracted to mathematics and physics. In 1781 his most famous work, *Kritik der reinen Vernunft*, was published. This deals with the roots of knowledge and the conditions of possible experience. The human mind cannot arrive, by pure thought, at truths about entities that, by their very nature, can never be objects of experience.

(7096) Napier = 1992 VM

Discovered 1992 Nov. 3 by R. H. McNaught at Siding Spring.

Named for the Scottish astronomer William (Bill) M. Napier (b. 1940), who has made seminal contributions in several areas of astrophysics. In collaboration with Victor Clube, Napier was one of the first to suggest that impacts by comets and minor planets have had a significant influence upon life on the earth, and that those impacts are temporally linked to cyclic disturbances of the Oort Cloud as the sun moves about the galactic plane, as well as to the sporadic arrival of giant comets in the inner solar system. Napier is currently investigating the effect upon the terrestrial climate of the varying influx of cometary dust in such a picture, although he also actively works on the apparent quantization of galactic redshifts. Name proposed by the discoverer following a suggestion by D. I. Steel, who prepared the citation.

(7109) Heine = 1983 RT₄

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

Named in memory of Heinrich Heine (1797–1856), the great German poet and writer, an outstanding master of lyric poems and political satire. The name is proposed on the occasion of two-hundredth anniversary of his birth.

(7113) Ostapbender = 1986 SD₂

Discovered 1986 Sept. 29 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Named for the character Ostap Bender, celebrated hero of the satirical novels *Twelve Chairs* (1928) and *Golden Calf* (1931) by the Soviet writers Il’ya Il’f (penname of I. Feinsilberg) and Eugeny Petrov (penname of E. Kataev). The International Festival of Satire and Humor in St. Petersburg ‘Gold Ostap’ (founded in 1992) bears the name of this witty and resourceful character. Name proposed by L. R. Nemirovskij on the occasion of the one-hundredth anniversary of the birth of Il’ya Il’f.

(7117) Claudius = 1988 CA₁

Discovered 1988 Feb. 14 by F. Börngen at Tautenburg.

Named for the popular German poet and writer Matthias Claudius (1740–1815). He was the editor of the elitist journal *Messenger of Wandsbeck* and wrote lyric poetry and prose that is distinguished by simplicity, naturalness and heartfelt piety. Among this work is his evening song *Der Mond ist aufgegangen*.

(7121) Busch = 1989 AL₇

Discovered 1989 Jan. 10 by F. Börngen at Tautenburg.

Named for the German poet and draughtsman Wilhelm Busch (1832–1908), who became world-renowned for his popular humorous and satiric picture stories. His drawing style is full of verve and movement and is of the highest originality. As creator of immortal comic types such as Max and Moritz, as well as Pious Helen, he spread much laughter. Einstein wrote of him that “He is one of the greatest masters of the stylistic accuracy of aim”.

(7127) Stifter = 1991 RD₃

Discovered 1991 Sept. 9 by F. Börngen and L. D. Schmadel at Tautenburg.

Named for the most famous Austrian narrator Adalbert Stifter (1805–1868). After formative years spent in the Bohemian Forest, he studied near the Benedictine Abbey in Kremsmünster, later living in Vienna and Linz. In his brilliant novels and epics (*The Timber Forest*, *Rock Crystal*, *Indian Summer* and *Witiko*) landscapes were described in a superb manner. Stifter described the correlation of man and nature in a subtle manner, full of feeling. He dealt with questions of education, love and piety, and he was also engaged in painting and science. He gave full details of the total solar eclipse of 1842 July 8 as observed in Vienna.

(7130) Klepper = 1992 HR₄

Discovered 1992 Apr. 30 by F. Börngen at Tautenburg.

Named for the German novelist and lyric poet Jochen Klepper (1903–1942), with *The Father* an important representative of the Christian historical novel. He was dismissed from his post at the Berlin Radio already in 1933 because his wife was Jewish. By courageously raising his voice against Hitler’s terror he consoled people who suffered from the system. His letters and diary *Under the Shadows of your Wings* are moving. Pressed by the circumstances, he decided to die voluntarily with his wife and her daughter in order to protect them from the concentration camp.

(7165) Pendleton = 1985 RH

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

Named for astronomer Yvonne Jean Pendleton (b. 1957) of the NASA Ames Research Center. She specializes in the spectroscopic study of the organic components of interstellar dust and the incorporation of that dust into bodies in the solar system and extrasolar planetary systems. She has pursued the identification of interstellar organics through comparative studies using materials produced in the laboratory and those derived from meteorites. Her research is focused on the connections of interstellar organic matter to the origin of life on the earth and other planets. Pendleton is a codiscoverer of the organic matter in interstellar dust in external galaxies by infrared spectroscopy. Name proposed by the discoverer following a suggestion by D. P. Cruikshank, who prepared the citation.

(7196) Baroni = 1994 BF

Discovered 1994 Jan. 16 by A. Boattini and M. Tombelli at Cima Ekar.

Named in honor of the amateur astronomer Sandro Baroni (b. 1939). Since 1953 he has pursued many different kinds of astronomical observation, especially of variable stars, comets, lunar occultations and asteroidal occultations. He gives lectures on a regular basis at the Civic Planetarium in Milan, where he lives. Baroni has been an inspiration for generations of amateur astronomers and has shared his knowledge by publishing many informative articles, especially on the history of astronomy.

(7198) Montelupo = 1994 BJ

Discovered 1994 Jan. 16 by A. Boattini and M. Tombelli at Cima Ekar.

Named for a small but busy town very near Florence with a tradition in ceramics that goes back to the Middle Ages. During the Renaissance, Montelupo was the center of the majolica production under the Medici family. Today, the town is well known for its artistic production and for its industrial and handicraft activities, so that it is also called the “City of the ceramics”. Name proposed by the second discoverer, who was born in Montelupo, where most of the follow-up observations of this minor planet were made, and where she and the first discoverer both started their astrometric work on minor planets and comets.

(7199) Brianza = 1994 FR

Discovered 1994 Mar. 28 by M. Cavagna and V. Giuliani at Sormano.

Named for the area located among the cities of Milan, Como and Lecco. The name is thought to be derived from the Celtic word “brig”, i.e., height. In fact, Brianza is a verdant land, with lakes, hills and prealpine mountains. It is also one of the most industrial and productive part of Italy. The name also honors the “Gruppo Astrofili Brianza”, a group of amateur astronomers to which the discoverers belong, as it celebrates 15 years of activity.

(7204) Ondřejov = 1995 GH

Discovered 1995 Apr. 3 by P. Pravec at Ondřejov.

Named for the village, 35 km to the southeast of Prague, where the oldest active astronomical observatory in the Czech Republic is located. The Ondřejov Observatory was founded in 1898, and it merged into the Astronomical Institute in 1953. The observatory also belongs to the Academy of Sciences of the Czech Republic. This is the first numbered minor planet to be discovered from the Ondřejov Observatory.

(7206) Shiki = 1996 QT

Discovered 1996 Aug. 18 by A. Nakamura at Kuma Kogen.

Named in memory of Shiki Masaoka (1867–1902), one of the most famous Haiku poets of the Meiji period, born in Matsuyama City. He proposed a revolutionary movement to adopt a new style of Haiku in terms of sketches from life, instead of using the fictitious and imaginary expressions that were common before him. His style attracted many followers and has since become common. In Japan Standard Time this minor planet was discovered on Aug. 19, which is the day of Haiku.

(7256) Bonhoeffer = 1993 VJ₅

Discovered 1993 Nov. 11 by F. Börngen at Tautenburg.

Named in memory of the German theologian Dietrich Bonhoeffer (1906–1945). Already the author of numerous papers and well-traveled, he was shocked by the offenses of the Nazi Regime and therefore grew to a revolutionary. He was pressed by two questions: “What is the Will of God?” and “What is the Task of the Church in this time?”. Bonhoeffer was expelled from Berlin in 1938 and not allowed to discourse, print or publish. In 1943 he was arrested and on 1945 Apr. 9 was executed at Flossenbürg.

(7280) Bergengruen = 1988 RA₃

Discovered 1988 Sept. 8 by F. Börngen at Tautenburg.

Named in memory of the German writer Werner Bergengruen (1892–1964) a representative of Christian humanism in his numerous reports, novels, short stories and about 400 poems. He refused the despotism through his novels *The Great Tyrant* and *On Earth as in Heaven*. He gave many people strength by his distinct conviction against the Nazi terror.

EPHEMERIDES

1997 CZ ₅		$a, e, i = 2.30, 0.40, 25$				Elements <i>MPC</i> 29072		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 02 21		05 01.79	+13 57.4	0.806	1.410	103.1	43.1	15.4
1997 03 03		05 26.51	+10 39.5	0.892	1.432	98.9	43.2	15.7
1997 03 13		05 50.98	+07 57.7	0.985	1.459	95.0	42.7	15.9
1997 03 23		06 15.23	+05 42.1	1.083	1.490	91.5	42.0	16.2
1997 04 02		06 39.25	+03 44.8	1.185	1.526	88.2	40.9	16.4
1997 04 12		07 03.08	+01 59.5	1.291	1.564	85.0	39.7	16.6
1997 04 22		07 26.73	+00 21.2	1.400	1.606	82.0	38.3	16.8
1997 05 02		07 50.14	-01 13.4	1.511	1.650	79.0	36.9	17.0
1997 05 12		08 13.32	-02 46.8	1.626	1.695	76.1	35.3	17.2
1997 05 22		08 36.25	-04 21.0	1.742	1.742	73.1	33.8	17.3
1997 06 01		08 58.90	-05 56.7	1.860	1.791	70.1	32.2	17.5
1997 06 11		09 21.27	-07 34.4	1.980	1.840	67.0	30.5	17.6
1997 06 21		09 43.34	-09 14.5	2.102	1.889	63.9	28.9	17.8
1997 07 01		10 05.11	-10 56.6	2.224	1.938	60.6	27.2	17.9
1997 07 11		10 26.61	-12 40.4	2.345	1.988	57.2	25.5	18.0
1997 07 21		10 47.85	-14 25.5	2.467	2.037	53.7	23.7	18.1
1997 07 31		11 08.85	-16 11.1	2.586	2.086	50.1	21.9	18.2
1997 08 10		11 29.66	-17 56.8	2.704	2.134	46.4	20.1	18.3
1997 08 20		11 50.28	-19 41.7	2.817	2.182	42.6	18.3	18.4
1997 08 30		12 10.76	-21 25.3	2.927	2.229	38.7	16.4	18.5
1997 09 09		12 31.14	-23 06.8	3.030	2.276	34.7	14.6	18.5
1997 09 19		12 51.42	-24 45.6	3.127	2.321	30.7	12.8	18.6

1997 AQ ₁₈		$a, e, i = 1.15, 0.47, 17$				Elements <i>MPC</i> 29070		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 02 21		06 48.00	+13 40.0	0.763	1.583	128.8	29.2	19.7
1997 03 03		06 47.07	+12 51.0	0.881	1.611	118.7	32.7	20.1
1997 03 13		06 51.08	+12 14.6	1.004	1.635	109.8	34.9	20.5
1997 03 23		06 58.73	+11 44.4	1.129	1.654	102.0	36.1	20.8
1997 04 02		07 09.03	+11 15.3	1.254	1.668	94.8	36.7	21.1
1997 04 12		07 21.37	+10 43.9	1.375	1.677	88.2	36.7	21.3

C/1997 A1 (NEAT)						Elements <i>MPC</i> 29067		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1 m_2
1997 02 21		07 59.40	+29 43.1	2.518	3.357	142.6	10.3	18.3
1997 03 03		07 36.00	+31 47.7	2.629	3.326	127.4	13.7	18.3
1997 03 13		07 16.15	+33 19.0	2.777	3.297	113.2	16.1	18.4
1997 03 23		07 00.38	+34 24.8	2.946	3.270	100.0	17.5	18.5
1997 04 02		06 48.57	+35 13.3	3.127	3.246	87.8	17.9	18.6
1997 04 12		06 40.32	+35 51.2	3.308	3.225	76.5	17.6	18.7
1997 04 22		06 35.07	+36 23.3	3.482	3.207	66.0	16.6	18.8
1997 05 02		06 32.26	+36 53.0	3.642	3.191	56.1	15.2	18.8
1997 05 12		06 31.43	+37 22.5	3.784	3.178	46.8	13.4	18.9
1997 05 22		06 32.12	+37 53.3	3.903	3.168	38.1	11.4	19.0
1997 06 01		06 34.00	+38 26.4	3.997	3.161	30.1	9.3	19.0

1997 CO ₅		$a, e, i = 2.66, 0.49, 19$				Elements <i>MPC</i> 29072		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 02 21		08 50.34	+13 10.0	0.694	1.655	158.5	12.7	17.8
1997 03 03		08 43.93	+10 22.2	0.788	1.708	147.3	18.3	18.3

1997 03 13	08 42.39	+08 09.5	0.899	1.764	137.4	22.4	18.8
1997 03 23	08 44.96	+06 22.9	1.025	1.821	128.6	25.3	19.2
1997 04 02	08 50.75	+04 53.9	1.162	1.879	120.6	27.2	19.6
1997 04 12	08 59.01	+03 35.6	1.308	1.938	113.3	28.4	20.0
1997 04 22	09 09.15	+02 22.5	1.463	1.997	106.6	28.8	20.3
1997 05 02	09 20.65	+01 11.3	1.622	2.056	100.2	28.8	20.6
1997 05 12	09 33.18	-00 00.4	1.787	2.115	94.2	28.4	20.8
1997 05 22	09 46.47	-01 14.1	1.954	2.174	88.3	27.7	21.1

P/1997 C1 (Gehrels)

Date TT		α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	Elements <i>MPC</i> 29067	
								m_1	m_2
1997 02 21		09 01.02	+13 07.8	3.430	4.377	161.1	4.2	17.1	
1997 03 03		08 56.72	+13 30.8	3.522	4.409	150.1	6.4	17.2	
1997 03 13		08 53.59	+13 49.9	3.640	4.442	139.3	8.4	17.3	
1997 03 23		08 51.86	+14 04.0	3.780	4.475	128.9	10.0	17.4	
1997 04 02		08 51.59	+14 12.5	3.938	4.508	119.0	11.2	17.5	
1997 04 12		08 52.77	+14 15.2	4.108	4.541	109.4	12.0	17.6	
1997 04 22		08 55.32	+14 12.0	4.287	4.574	100.3	12.5	17.8	
1997 05 02		08 59.10	+14 03.2	4.470	4.608	91.5	12.6	17.9	
1997 05 12		09 03.98	+13 48.8	4.655	4.642	83.0	12.5	18.0	
1997 05 22		09 09.81	+13 29.1	4.837	4.676	74.9	12.1	18.1	
1997 06 01		09 16.43	+13 04.6	5.014	4.710	66.9	11.4	18.2	
1997 06 11		09 23.71	+12 35.4	5.183	4.744	59.2	10.6	18.3	
1997 06 21		09 31.52	+12 02.1	5.342	4.778	51.6	9.6	18.4	
1997 07 01		09 39.75	+11 24.9	5.489	4.813	44.2	8.5	18.5	
1997 07 11		09 48.30	+10 44.2	5.622	4.848	36.9	7.2	18.6	

C/1997 BA₆ (Spacewatch)

Date TT		α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	Elements <i>MPC</i> 29067	
								m_1	m_2
1997 02 21		09 13.28	+12 58.5	7.929	8.885	164.1	1.8	19.5	
1997 03 03		09 08.63	+12 58.8	7.926	8.821	153.0	2.9	19.5	
1997 03 13		09 04.40	+12 57.7	7.953	8.758	142.1	4.0	19.6	
1997 03 23		09 00.73	+12 54.8	8.004	8.695	131.3	4.9	19.6	
1997 04 02		08 57.75	+12 49.6	8.077	8.631	120.8	5.7	19.7	
1997 04 12		08 55.54	+12 41.9	8.165	8.568	110.5	6.3	19.7	
1997 04 22		08 54.14	+12 31.5	8.264	8.504	100.4	6.7	19.7	
1997 05 02		08 53.55	+12 18.3	8.368	8.440	90.7	6.9	19.8	
1997 05 12		08 53.75	+12 02.1	8.472	8.376	81.2	6.8	19.8	
1997 05 22		08 54.69	+11 43.0	8.571	8.312	71.9	6.6	19.8	
1997 06 01		08 56.31	+11 21.1	8.662	8.248	62.8	6.3	19.8	
1997 06 11		08 58.54	+10 56.2	8.740	8.184	54.0	5.8	19.7	
1997 06 21		09 01.30	+10 28.4	8.803	8.120	45.3	5.1	19.7	
1997 07 01		09 04.51	+09 57.9	8.847	8.056	36.9	4.3	19.6	

1997 BR

Date TT		α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	Elements <i>MPC</i> 29070	
								m_1	m_2
1997 02 21		09 35.43	+48 57.7	0.370	1.297	140.6	28.9	17.2	
1997 03 03		09 10.98	+56 03.4	0.372	1.250	126.7	39.5	17.4	
1997 03 13		08 46.82	+61 05.8	0.383	1.202	114.0	49.0	17.6	
1997 03 23		08 28.99	+64 26.1	0.395	1.154	103.4	57.1	17.9	
1997 04 02		08 20.58	+66 43.9	0.404	1.108	94.6	64.1	18.0	
1997 04 12		08 21.85	+68 29.7	0.405	1.064	87.4	70.3	18.1	
1997 04 22		08 31.2	+70 04.2	0.396	1.023	81.3	76.2	18.2	
1997 05 02		08 45.4	+71 39.7	0.377	0.988	76.1	82.2	18.2	

M.P.C. 29151

1997 05 12	09 01.0	+73 24.6	0.347	0.959	71.6	88.3	18.2
1997 05 22	09 11.5	+75 31.1	0.307	0.939	67.6	94.8	18.2
1997 06 01	09 02.3	+78 08.8	0.260	0.929	63.7	101.7	18.1
1997 06 11	07 49.9	+80 52.9	0.208	0.929	59.9	108.9	18.0
1997 06 21	04 42.1	+79 01.8	0.155	0.939	56.3	115.8	17.9
1997 07 01	02 52.56	+63 52.8	0.108	0.959	55.0	119.7	17.4
1997 07 11	02 21.66	+29 39.6	0.081	0.987	66.7	109.0	16.1
1997 07 21	02 11.37	-10 18.8	0.094	1.023	91.4	83.4	15.3
1997 07 31	02 04.06	-33 12.2	0.134	1.063	107.5	65.6	15.6
1997 08 10	01 52.64	-44 52.6	0.184	1.107	116.3	55.2	16.1
1997 08 20	01 34.82	-51 13.9	0.237	1.154	121.6	48.3	16.5
1997 08 30	01 11.28	-54 27.4	0.293	1.201	124.9	43.6	16.9
1997 09 09	00 45.33	-55 20.1	0.352	1.249	126.5	40.4	17.3
1997 09 19	00 21.96	-54 21.1	0.416	1.296	126.7	38.4	17.7
1997 09 29	00 04.39	-52 00.5	0.484	1.342	125.5	37.4	18.1
1997 10 09	23 53.67	-48 44.5	0.559	1.387	123.3	37.0	18.4
1997 10 19	23 49.26	-44 56.1	0.640	1.429	120.2	37.1	18.8
1997 10 29	23 49.87	-40 51.5	0.728	1.470	116.4	37.3	19.2
1997 11 08	23 54.40	-36 40.6	0.822	1.507	112.2	37.5	19.5
1997 11 18	00 01.90	-32 30.3	0.922	1.543	107.7	37.6	19.8
1997 11 28	00 11.61	-28 24.4	1.027	1.575	103.0	37.6	20.1
1997 12 08	00 23.05	-24 24.9	1.136	1.605	98.1	37.4	20.3
1997 12 18	00 35.85	-20 33.2	1.248	1.632	93.2	37.0	20.5
1997 12 28	00 49.72	-16 49.7	1.362	1.657	88.3	36.4	20.7

P/1997 B1 (Kobayashi)								Elements MPC 29067	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 02 21	09 47.37	+13 41.6	1.068	2.052	172.0	3.9	17.1		
1997 03 03	09 41.87	+12 16.0	1.087	2.050	161.1	9.0	17.3		
1997 03 13	09 38.43	+10 47.9	1.129	2.054	150.7	13.7	17.6		
1997 03 23	09 37.79	+09 18.7	1.190	2.062	141.0	17.7	17.9		
1997 04 02	09 40.17	+07 49.1	1.269	2.076	132.1	20.9	18.1		
1997 04 12	09 45.42	+06 18.9	1.363	2.095	124.0	23.4	18.4		
1997 04 22	09 53.23	+04 47.6	1.469	2.119	116.6	25.1	18.6		
1997 05 02	10 03.15	+03 14.6	1.585	2.147	109.8	26.2	18.8		
1997 05 12	10 14.78	+01 39.5	1.710	2.180	103.5	26.8	19.1		
1997 05 22	10 27.75	+00 02.0	1.843	2.217	97.6	26.9	19.3		
1997 06 01	10 41.73	-01 37.8	1.982	2.257	91.9	26.7	19.5		
1997 06 11	10 56.49	-03 19.8	2.127	2.301	86.6	26.1	19.6		
1997 06 21	11 11.82	-05 03.5	2.276	2.348	81.3	25.3	19.8		
1997 07 01	11 27.55	-06 48.3	2.428	2.398	76.2	24.3	20.0		
1997 07 11	11 43.60	-08 33.8	2.583	2.451	71.2	23.1	20.1		
1997 07 21	11 59.87	-10 19.3	2.738	2.506	66.1	21.8	20.2		
1997 07 31	12 16.29	-12 04.1	2.894	2.563	61.1	20.3	20.4		
1997 08 10	12 32.83	-13 47.7	3.049	2.622	56.1	18.7	20.5		
1997 08 20	12 49.45	-15 29.4	3.201	2.682	51.0	17.0	20.6		
1997 08 30	13 06.13	-17 08.7	3.350	2.744	45.9	15.3	20.7		
1997 09 09	13 22.85	-18 45.0	3.493	2.807	40.7	13.5	20.7		
1997 09 19	13 39.58	-20 17.9	3.630	2.871	35.4	11.7	20.8		
1997 09 29	13 56.31	-21 46.9	3.760	2.936	30.1	9.9	20.9		

1997 FEB. 22

1997 CY ₁								$a, e, i = 1.80, 0.27, 23$		Elements MPC 29071		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V				
1997 02 21	09 49.92	+17 29.3	1.148	2.130	170.4	4.5	20.8					
1997 03 03	09 32.32	+16 41.4	1.157	2.108	157.4	10.4	21.1					
1997 03 13	09 17.42	+15 39.0	1.194	2.084	144.4	16.1	21.4					
1997 03 23	09 06.62	+14 25.8	1.252	2.059	132.3	21.0	21.6					
1997 04 02	09 00.33	+13 05.7	1.326	2.033	121.3	24.8	21.8					
1997 04 12	08 58.38	+11 41.1	1.410	2.006	111.4	27.7	22.0					

28P/Neujmin 1								Elements CCO 9				
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2			
1997 02 21	11 19.86	+04 08.5	10.236	11.187	163.3	1.5	22.5					
1997 03 03	11 16.81	+04 25.6	10.181	11.168	174.1	0.5	22.4					
1997 03 13	11 13.66	+04 43.2	10.158	11.148	175.0	0.4	22.4					
1997 03 23	11 10.57	+05 00.5	10.166	11.129	164.2	1.4	22.5					
1997 04 02	11 07.66	+05 16.6	10.205	11.109	153.6	2.3	22.5					

1989 NA								$a, e, i = 2.65, 0.45, 14$		Elements MPC 24388		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V				
1997 02 21	12 00.41	+20 43.2	2.141	3.057	153.3	8.3	20.0					
1997 03 03	11 52.62	+22 14.7	2.070	3.018	159.4	6.7	19.8					
1997 03 13	11 43.34	+23 37.3	2.027	2.977	159.2	6.8	19.7					
1997 03 23	11 33.46	+24 42.5	2.013	2.936	152.9	8.9	19.8					
1997 04 02	11 23.98	+25 24.7	2.026	2.894	143.8	11.8	19.9					
1997 04 12	11 15.85	+25 41.5	2.062	2.851	134.0	14.7	20.0					
1997 04 22	11 09.82	+25 33.3	2.116	2.807	124.1	17.2	20.1					
1997 05 02	11 06.27	+25 03.1	2.184	2.762	114.7	19.4	20.2					
1997 05 12	11 05.33	+24 14.1	2.261	2.716	105.7	21.0	20.3					
1997 05 22	11 06.95	+23 09.7	2.343	2.669	97.3	22.1	20.3					
1997 06 01	11 10.89	+21 52.9	2.426	2.621	89.5	22.8	20.4					
1997 06 11	11 16.93	+20 25.6	2.508	2.572	82.1	23.0	20.4					
1997 06 21	11 24.80	+18 49.5	2.585	2.523	75.1	22.9	20.5					
1997 07 01	11 34.27	+17 05.8	2.656	2.473	68.6	22.5	20.5					
1997 07 11	11 45.16	+15 15.3	2.719	2.422	62.4	21.8	20.5					

(7358) 1995 YA ₃								$a, e, i = 2.20, 0.50, 5$		Elements MPC 28577		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V				
1997 02 21	12 13.75	-08 22.3	2.438	3.301	145.4	9.8	19.6					
1997 03 03	12 05.85	-07 43.9	2.365	3.301	157.2	6.7	19.4					
1997 03 13	11 56.69	-06 52.2	2.320	3.299	168.4	3.5	19.2					
1997 03 23	11 47.03	-05 51.1	2.306	3.297	172.7	2.2	19.1					
1997 04 02	11 37.69	-04 45.9	2.323	3.293	163.1	5.1	19.2					
1997 04 12	11 29.44	-03 42.2	2.371	3.287	151.6	8.3	19.4					
1997 04 22	11 22.88	-02 45.2	2.445	3.281	140.2	11.3	19.6					
1997 05 02	11 18.34	-01 58.7	2.540	3.272	129.3	13.8	19.8					
1997 05 12	11 15.94	-01 24.5	2.652	3.263	118.9	15.7	19.9					
1997 05 22	11 15.66	-01 03.8	2.776	3.252	109.1	17.1	20.1					
1997 06 01	11 17.34	-00 56.0	2.907	3.240	99.9	18.0	20.2					
1997 06 11	11 20.79	-01 00.7	3.040	3.226	91.2	18.3	20.3					
1997 06 21	11 25.80	-01 16.8	3.173	3.211	83.0	18.3	20.4					
1997 07 01	11 32.15	-01 43.0	3.301	3.195	75.1	17.9	20.4					
1997 07 11	11 39.68	-02 18.4	3.423	3.177	67.5	17.2	20.5					
1997 07 21	11 48.22	-03 01.8	3.536	3.157	60.3	16.2	20.5					

1987 OA		$a, e, i = 1.50, 0.60, 9$				Elements MPC 29133			1997 09 09	15 22.30	-08 30.4	1.673	1.536	64.4	36.3	19.0	
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V	1997 09 19	15 46.52	-10 49.9	1.691	1.493	61.1	36.1	19.0	
1997 02 21		13 35.56	-18 16.1	0.350	1.217	123.3	42.8	18.8	1994 QC		$a, e, i = 1.32, 0.12, 14$					Elements MPC 28853	
1997 03 03		13 01.88	-11 28.7	0.375	1.312	143.6	26.6	18.7									
1997 03 13		12 30.36	-04 58.5	0.422	1.404	163.5	11.6	18.6									
1997 03 23		12 04.70	+00 20.1	0.493	1.490	178.3	1.1	18.5									
1997 04 02		11 46.52	+04 05.2	0.589	1.572	162.8	10.8	19.5									
1997 04 12		11 35.51	+06 25.7	0.705	1.649	149.5	18.0	20.3									
1997 04 22		11 30.53	+07 40.8	0.837	1.721	138.1	23.0	20.9									
(7341) 1991 VK		$a, e, i = 1.84, 0.51, 5$				Elements MPC 28573											
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V	1997 05 02	17 02.82	+34 36.2	0.303	1.186	119.2	47.9	18.6	
1997 02 21		14 30.67	-37 15.3	0.203	1.057	103.9	65.3	15.7	1997 05 12	17 10.26	+39 22.4	0.303	1.178	116.6	50.1	18.6	
1997 03 03		14 06.60	-36 30.2	0.236	1.121	117.7	51.6	15.7	1997 05 22	17 13.60	+42 32.5	0.305	1.172	114.6	51.8	18.7	
1997 03 13		13 41.95	-34 41.8	0.269	1.190	131.6	38.7	15.8	1997 06 01	17 13.85	+44 03.8	0.305	1.169	113.3	52.8	18.7	
1997 03 23		13 18.41	-31 50.7	0.309	1.262	145.0	26.9	15.9	1997 06 11	17 12.40	+43 52.8	0.304	1.168	113.0	53.1	18.7	
1997 04 02		12 58.75	-28 20.8	0.359	1.336	156.3	17.5	16.0	1997 06 21	17 11.27	+41 57.8	0.301	1.170	113.7	52.7	18.7	
1997 04 12		12 44.73	-24 45.8	0.424	1.411	161.6	13.0	16.3	1997 07 01	17 12.01	+38 19.2	0.298	1.175	115.2	51.6	18.6	
1997 04 22		12 36.80	-21 35.3	0.504	1.485	158.2	14.6	16.9	1997 07 11	17 15.85	+32 56.5	0.295	1.181	117.3	49.9	18.6	
1997 05 02		12 34.22	-19 04.0	0.599	1.558	150.5	18.6	17.5	1997 07 21	17 23.64	+25 59.5	0.295	1.190	119.7	47.8	18.5	
1997 05 12		12 35.94	-17 14.3	0.710	1.629	142.0	22.4	18.1	1997 07 31	17 35.45	+17 50.8	0.301	1.201	121.8	45.9	18.5	
1997 05 22		12 41.03	-16 02.6	0.833	1.699	133.8	25.5	18.6	1997 08 10	17 51.26	+09 07.8	0.316	1.214	122.8	44.6	18.6	
1997 06 01		12 48.63	-15 22.6	0.968	1.767	126.0	27.6	19.1	1997 08 20	18 10.77	+00 39.4	0.341	1.228	122.4	44.1	18.8	
1997 06 11		12 58.15	-15 07.7	1.113	1.833	118.8	29.1	19.5	1997 08 30	18 33.34	-06 52.5	0.377	1.244	120.5	44.4	19.1	
1997 06 21		13 09.15	-15 12.7	1.267	1.896	111.8	29.8	19.9	1997 09 09	18 58.44	-13 02.7	0.423	1.261	117.6	45.1	19.4	
1997 07 01		13 21.26	-15 32.6	1.426	1.957	105.2	30.1	20.2	1997 09 19	19 25.40	-17 43.5	0.479	1.278	114.1	45.8	19.7	
1997 07 11		13 34.28	-16 03.8	1.591	2.016	98.9	29.9	20.5	1995 YV ₃		$a, e, i = 2.79, 0.44, 30$					Elements MPC 27328	
1997 07 21		13 48.05	-16 43.3	1.759	2.073	92.7	29.3	20.8									
1997 07 31		14 02.41	-17 28.3	1.929	2.127	86.7	28.5	21.0									
1993 RR ₂		$a, e, i = 2.66, 0.49, 11$				Elements MPC 26904			Date	TT	α_{2000}	δ_{2000}	Δ	r	Variation	V	
1997 02 21		14 31.55	-04 32.7	2.081	2.655	115.0	19.7	20.2	1997 02 21		14 39.58	+20 53.6	3.319	3.863	-0.42	+2.6	20.3
1997 03 03		14 35.01	-03 43.0	1.913	2.603	124.2	18.4	19.9	1997 03 03		14 38.70	+22 25.1	3.234	3.879	-0.44	+2.8	20.2
1997 03 13		14 36.09	-02 35.4	1.759	2.550	133.8	16.4	19.6	1997 03 13		14 35.84	+23 57.7	3.168	3.893	-0.46	+2.9	20.1
1997 03 23		14 34.50	-01 10.7	1.622	2.495	143.6	13.7	19.3	1997 03 23		14 31.08	+25 25.6	3.122	3.907	-0.48	+2.9	20.1
1997 04 02		14 30.14	+00 28.1	1.506	2.440	153.3	10.6	19.0	1997 04 02		14 24.71	+26 42.8	3.099	3.920	-0.49	+2.8	20.0
1997 04 12		14 23.16	+02 15.5	1.413	2.384	161.3	7.8	18.7	1997 04 12		14 17.14	+27 43.8	3.100	3.932	-0.51	+2.7	20.0
1997 04 22		14 14.13	+04 02.3	1.346	2.327	163.4	7.1	18.5	1997 04 22		14 08.96	+28 24.0	3.126	3.944	-0.51	+2.6	20.1
1997 05 02		14 04.01	+05 37.7	1.306	2.270	157.5	9.8	18.5	1997 05 02		14 00.80	+28 41.4	3.176	3.955	-0.51	+2.4	20.2
1997 05 12		13 54.04	+06 51.5	1.290	2.212	147.9	14.0	18.6	1997 05 12		13 53.28	+28 35.6	3.247	3.964	-0.50	+2.2	20.2
1997 05 22		13 45.52	+07 36.4	1.295	2.153	137.6	18.5	18.7	1997 05 22		13 46.90	+28 08.3	3.338	3.973	-0.49	+2.0	20.4
1997 06 01		13 39.42	+07 49.7	1.317	2.094	127.4	22.6	18.8	1997 06 01		13 42.01	+27 22.4	3.443	3.981	-0.47	+1.9	20.5
1997 06 11		13 36.38	+07 32.2	1.350	2.035	118.0	26.1	18.9	1997 06 11		13 38.79	+26 21.5	3.561	3.989	-0.44	+1.8	20.6
1997 06 21		13 36.66	+06 47.3	1.391	1.975	109.3	29.0	19.0	1997 06 21		13 37.30	+25 09.0	3.688	3.995	-0.42	+1.7	20.7
1997 07 01		13 40.22	+05 39.1	1.435	1.916	101.4	31.3	19.0	1997 07 01		13 37.47	+23 48.2	3.820	4.001	-0.40	+1.6	20.7
1997 07 11		13 46.90	+04 11.3	1.480	1.858	94.3	33.1	19.1	1997 07 11		13 39.20	+22 21.7	3.954	4.006	-0.38	+1.6	20.8
1997 07 21		13 56.50	+02 27.6	1.523	1.800	87.9	34.3	19.1	1997 07 21		13 42.34	+20 51.9	4.086	4.010	-0.36	+1.6	20.9
1997 07 31		14 08.78	+00 31.1	1.562	1.743	82.2	35.2	19.1	1990 BA		$a, e, i = 1.74, 0.34, 2$				Elements MPC 28843		
1997 08 10		14 23.60	-01 35.7	1.597	1.687	77.0	35.8	19.1									
1997 08 20		14 40.83	-03 50.1	1.627	1.634	72.3	36.2	19.1									
1997 08 30		15 00.40	-06 09.3	1.652	1.583	68.2	36.3	19.1									
									Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
									1997 02 21		14 49.79	-19 35.4	0.604	1.298	106.5	46.9	18.7
									1997 03 03		15 00.45	-20 56.1	0.584	1.338	113.8	42.7	18.6
									1997 03 13		15 05.24	-21 50.4	0.564	1.381	122.4	37.4	18.5
									1997 03 23		15 03.63	-22 16.0	0.549	1.426	132.5	31.0	18.3
									1997 04 02		14 55.81	-22 10.1	0.541	1.472	144.0	23.5	18.1

M.P.C. 29153

1997 FEB. 22

1997 04 12	14 43.02	-21 31.1	0.545	1.519	156.6	15.2	17.9
1997 04 22	14 27.90	-20 24.1	0.567	1.565	169.2	6.9	17.8
1997 05 02	14 13.49	-19 02.5	0.607	1.612	173.3	4.2	17.8
1997 05 12	14 02.19	-17 42.8	0.667	1.658	162.5	10.6	18.4
1997 05 22	13 55.30	-16 38.8	0.745	1.704	151.3	16.6	18.9
1997 06 01	13 52.89	-15 56.9	0.839	1.748	141.1	21.4	19.4
1997 06 11	13 54.51	-15 37.9	0.946	1.791	131.8	25.0	19.8
1997 06 21	13 59.54	-15 39.4	1.065	1.833	123.5	27.5	20.2
1997 07 01	14 07.27	-15 57.6	1.192	1.874	115.8	29.2	20.5
1997 07 11	14 17.21	-16 28.5	1.327	1.913	108.7	30.2	20.8
1997 07 21	14 28.92	-17 08.8	1.466	1.951	102.1	30.6	21.1

1988 XB		$a, e, i = 1.47, 0.48, 3$				Elements <i>MPC</i> 26756		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 02 21		15 50.02	−17 16.1	1.541	1.879	93.3	31.7	21.2
1997 03 03		16 04.51	−17 53.8	1.382	1.834	99.9	32.2	20.9
1997 03 13		16 18.01	−18 24.0	1.226	1.785	106.6	32.2	20.6
1997 03 23		16 30.20	−18 47.3	1.074	1.733	113.6	31.8	20.2
1997 04 02		16 40.67	−19 04.5	0.928	1.678	121.0	30.7	19.8
1997 04 12		16 48.82	−19 16.7	0.789	1.619	128.9	28.8	19.3
1997 04 22		16 53.89	−19 25.6	0.660	1.557	137.4	25.9	18.7
1997 05 02		16 54.86	−19 33.2	0.542	1.491	146.9	21.7	18.1
1997 05 12		16 50.13	−19 41.7	0.435	1.422	157.6	15.7	17.3
1997 05 22		16 37.62	−19 53.0	0.342	1.350	170.1	7.4	16.4
1997 06 01		16 14.12	−20 06.2	0.263	1.276	174.6	4.3	15.5
1997 06 11		15 34.75	−20 10.6	0.198	1.199	156.0	20.1	15.4
1997 06 21		14 32.35	−19 29.3	0.149	1.121	132.1	42.3	15.3
1997 07 01		12 57.59	−16 16.8	0.117	1.044	100.2	73.5	15.5
1997 07 11		10 56.24	−08 19.2	0.109	0.968	60.8	113.6	17.0

1997 BQ		$a, e, i = 1.75, 0.48, 11$				Elements <i>MPC</i> 29070		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 02 21		17 44.12	+58 58.6	0.188	1.001	88.3	80.9	16.9
1997 03 03		18 52.14	+42 46.8	0.182	0.958	74.1	95.4	17.3
1997 03 13		19 33.27	+25 12.3	0.193	0.927	64.4	104.8	17.8
1997 03 23		20 04.77	+09 45.7	0.220	0.912	61.3	106.5	18.2
1997 04 02		20 33.06	−01 59.1	0.258	0.914	63.4	102.0	18.3
1997 04 12		20 59.81	−10 18.0	0.302	0.932	67.9	94.6	18.3
1997 04 22		21 24.88	−16 08.0	0.346	0.965	73.5	86.4	18.4
1997 05 02		21 47.65	−20 23.0	0.386	1.011	79.5	78.5	18.4
1997 05 12		22 07.20	−23 45.9	0.419	1.067	86.1	70.8	18.4
1997 05 22		22 22.61	−26 47.1	0.446	1.129	93.3	63.5	18.5
1997 06 01		22 33.07	−29 46.8	0.466	1.196	101.3	56.2	18.5
1997 06 11		22 37.46	−32 56.9	0.482	1.266	110.3	48.8	18.5
1997 06 21		22 34.74	−36 17.4	0.498	1.337	120.0	41.2	18.4
1997 07 01		22 24.17	−39 35.7	0.517	1.408	130.3	33.4	18.4
1997 07 11		22 05.86	−42 27.0	0.545	1.478	140.3	26.1	18.4
1997 07 21		21 42.10	−44 21.7	0.587	1.547	148.4	20.2	18.5
1997 07 31		21 17.04	−45 03.4	0.645	1.614	152.2	17.0	18.7
1997 08 10		20 55.14	−44 35.5	0.722	1.680	150.6	17.3	19.0
1997 08 20		20 39.26	−43 17.5	0.816	1.744	144.9	19.5	19.4
1997 08 30		20 29.97	−41 31.5	0.926	1.805	137.6	22.2	19.9
1997 09 09		20 26.59	−39 33.2	1.051	1.864	129.8	24.5	20.3

1997 09 19	20 28.01	-37 31.9	1.188	1.921	122.1	26.3	20.7
1997 09 29	20 33.07	-35 31.9	1.335	1.975	114.6	27.5	21.0
1997 10 09	20 40.88	-33 34.3	1.490	2.027	107.4	28.1	21.3
1997 10 19	20 50.73	-31 39.1	1.650	2.076	100.4	28.2	21.6
1997 10 29	21 02.07	-29 45.9	1.815	2.123	93.6	27.8	21.9
1997 11 08	21 14.52	-27 53.6	1.981	2.168	87.0	27.2	22.1

1983 LB		$a, e, i = 2.29, 0.48, 25$				Elements <i>MPC</i> 21969	
Date	TT	α_{2000}	δ_{2000}	Δ	r	Variation	V
1997 02 21		17 47.35	-10 31.8	1.668	1.560	-1.88 +16.0	20.0
1997 03 03		18 17.52	-12 02.2	1.547	1.501	-2.12 +16.4	19.9
1997 03 13		18 49.80	-13 31.3	1.432	1.445	-2.38 +16.4	19.7
1997 03 23		19 24.49	-14 58.6	1.326	1.392	-2.66 +15.8	19.5
1997 04 02		20 01.92	-16 22.3	1.232	1.343	-2.93 +14.2	19.3
1997 04 12		20 42.27	-17 39.3	1.151	1.299	-3.17 +11.5	19.2
1997 04 22		21 25.39	-18 44.0	1.085	1.262	-3.33 +7.6	19.0
1997 05 02		22 10.79	-19 30.0	1.035	1.232	-3.35 +2.5	18.9
1997 05 12		22 57.35	-19 51.5	1.003	1.210	-3.21 -3.2	18.9
1997 05 22		23 43.63	-19 46.3	0.988	1.197	-2.93 -8.9	18.8
1997 06 01		00 28.12	-19 16.3	0.987	1.195	-2.54 -13.9	18.8
1997 06 11		01 09.61	-18 28.5	0.997	1.202	-2.12 -18.0	18.9
1997 06 21		01 47.34	-17 31.1	1.014	1.219	-1.73 -21.1	18.9
1997 07 01		02 21.07	-16 32.3	1.034	1.244	-1.41 -23.4	19.0
1997 07 11		02 50.76	-15 38.8	1.052	1.278	-1.15 -25.2	19.0
1997 07 21		03 16.56	-14 55.0	1.068	1.318	-0.97 -26.6	19.1
1997 07 31		03 38.60	-14 23.2	1.077	1.364	-0.86 -27.8	19.1
1997 08 10		03 56.92	-14 05.0	1.079	1.415	-0.80 -28.9	19.2
1997 08 20		04 11.45	-13 59.7	1.074	1.470	-0.81 -30.0	19.2
1997 08 30		04 22.02	-14 05.8	1.061	1.527	-0.86 -31.1	19.2
1997 09 09		04 28.30	-14 20.5	1.043	1.587	-0.97 -32.1	19.1
1997 09 19		04 29.93	-14 38.5	1.022	1.647	-1.12 -33.0	19.1
1997 09 29		04 26.60	-14 52.9	1.002	1.709	-1.32 -33.5	19.0
1997 10 09		04 18.18	-14 53.7	0.987	1.771	-1.55 -33.4	18.9
1997 10 19		04 05.18	-14 29.6	0.984	1.832	-1.78 -32.4	18.9
1997 10 29		03 48.85	-13 31.3	0.997	1.894	-1.94 -30.5	18.8
1997 11 08		03 31.16	-11 54.4	1.033	1.955	-2.02 -27.8	18.8
1997 11 18		03 14.38	-09 43.5	1.094	2.015	-1.99 -24.8	19.0
1997 11 28		03 00.32	-07 09.2	1.181	2.074	-1.87 -21.8	19.3
1997 12 08		02 50.01	-04 23.6	1.292	2.132	-1.70 -19.1	19.6
1997 12 18		02 43.71	-01 36.7	1.425	2.189	-1.53 -16.7	20.0
1997 12 28		02 41.16	+01 05.3	1.576	2.245	-1.35 -14.7	20.3
1998 01 07		02 41.90	+03 39.4	1.740	2.300	-1.20 -13.1	20.6
1998 01 17		02 45.41	+06 04.3	1.914	2.353	-1.07 -11.6	20.9

49P/Arend-Rigaux					Elements <i>MPC</i> 25183				
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 03 13		21 32.35	−17 37.9	4.925	4.126	32.9	7.5		21.1
1997 03 23		21 42.37	−17 06.5	4.787	4.079	40.4	9.1		21.1
1997 04 02		21 52.05	−16 36.8	4.633	4.032	47.9	10.6		21.0
1997 04 12		22 01.32	−16 09.7	4.465	3.984	55.5	12.0		21.0
1997 04 22		22 10.08	−15 46.4	4.285	3.935	63.2	13.2		20.9
1997 05 02		22 18.22	−15 28.1	4.096	3.885	70.9	14.2		20.8
1997 05 12		22 25.63	−15 16.0	3.899	3.834	78.8	15.0	20.7	20.7

1997 05 22	22 32.17	-15 11.7	3.699	3.783	86.9	15.5	20.5	20.6
1997 06 01	22 37.69	-15 16.7	3.497	3.730	95.3	15.7	20.3	20.4
1997 06 11	22 42.00	-15 32.5	3.298	3.677	103.9	15.5	20.1	20.3
1997 06 21	22 44.92	-16 00.6	3.104	3.623	112.9	15.0	19.9	20.1
1997 07 01	22 46.24	-16 42.1	2.920	3.568	122.2	14.0	19.7	19.9
1997 07 11	22 45.77	-17 37.8	2.750	3.512	131.9	12.4	19.5	19.7
1997 07 21	22 43.36	-18 47.0	2.597	3.455	142.0	10.4	19.3	19.4
1997 07 31	22 38.96	-20 07.9	2.466	3.397	152.2	8.0	19.1	19.2
1997 08 10	22 32.67	-21 36.7	2.361	3.339	161.7	5.5	18.9	18.9
1997 08 20	22 24.82	-23 07.7	2.284	3.279	167.5	3.8		18.7
1997 08 30	22 15.97	-24 34.3	2.237	3.219	163.9	5.0	18.6	18.7
1997 09 09	22 06.90	-25 49.9	2.218	3.158	154.6	7.9	18.5	18.8
1997 09 19	21 58.51	-26 49.3	2.227	3.096	143.9	11.0	18.4	18.9
1997 09 29	21 51.59	-27 29.9	2.258	3.033	133.1	13.9	18.4	19.0
1997 10 09	21 46.80	-27 51.1	2.308	2.969	122.7	16.5	18.3	19.1
1997 10 19	21 44.52	-27 54.1	2.371	2.904	112.6	18.5	18.3	19.1
1997 10 29	21 44.87	-27 40.8	2.443	2.838	103.1	19.9	18.2	19.2
1997 11 08	21 47.84	-27 13.3	2.518	2.772	94.2	20.9	18.2	19.2
1997 11 18	21 53.25	-26 33.3	2.592	2.705	85.7	21.4	18.1	19.3
1997 11 28	22 00.87	-25 42.2	2.663	2.637	77.8	21.4	18.1	19.3
1997 12 08	22 10.48	-24 40.7	2.727	2.568	70.3	21.2	18.0	19.3
1997 12 18	22 21.83	-23 29.7	2.783	2.499	63.2	20.6	17.9	19.2
1997 12 28	22 34.73	-22 09.4	2.828	2.429	56.6	19.7	17.8	19.2
1998 01 07	22 49.01	-20 40.3	2.863	2.359	50.3	18.7	17.7	19.1
1998 01 17	23 04.50	-19 02.5	2.885	2.289	44.4	17.5	17.6	19.0
1998 01 27	23 21.12	-17 16.4	2.895	2.218	39.0	16.2	17.4	18.9
1998 02 06	23 38.79	-15 22.0	2.894	2.147	33.9	14.8	17.3	18.8

21P/Giacobini-ZinnerElements *MPC* 25184

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 03 23		14 32.42	-03 28.4	4.078	4.920	144.1	6.8	22.4	22.5
1997 04 02		14 27.47	-02 26.3	3.960	4.881	154.4	5.1	22.3	22.4
1997 04 12		14 21.52	-01 21.9	3.872	4.841	163.5	3.4		22.2
1997 04 22		14 14.90	-00 18.4	3.815	4.801	167.5	2.6		22.1
1997 05 02		14 08.03	+00 41.1	3.789	4.760	162.5	3.7	22.1	22.1
1997 05 12		14 01.32	+01 33.7	3.795	4.718	153.1	5.6	22.0	22.2
1997 05 22		13 55.19	+02 17.1	3.828	4.675	142.8	7.5	22.0	22.3
1997 06 01		13 50.00	+02 49.8	3.886	4.632	132.5	9.3	21.9	22.4
1997 06 11		13 45.99	+03 11.2	3.964	4.587	122.2	10.8	21.9	22.5
1997 06 21		13 43.32	+03 21.5	4.057	4.542	112.4	11.9	21.9	22.5

P/1989 U1 (Helin-Roman-Alu 2)Elements *MPC* 23483

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 03 23		21 59.38	-09 06.3	3.509	2.737	33.8	11.7	20.8	
1997 04 02		22 15.69	-07 41.0	3.381	2.684	39.4	13.7	20.6	
1997 04 12		22 32.01	-06 12.0	3.245	2.632	44.9	15.6	20.4	
1997 04 22		22 48.31	-04 40.2	3.103	2.580	50.3	17.4	20.1	
1997 05 02		23 04.59	-03 06.2	2.956	2.528	55.7	19.2	19.9	
1997 05 12		23 20.83	-01 31.2	2.805	2.478	61.0	20.9	19.7	
1997 05 22		23 37.00	+00 03.9	2.651	2.428	66.3	22.4	19.4	
1997 06 01		23 53.10	+01 38.0	2.497	2.379	71.5	23.8	19.1	
1997 06 11		00 09.07	+03 09.6	2.343	2.331	76.8	25.1	18.9	
1997 06 21		00 24.85	+04 37.5	2.190	2.285	82.2	26.1	18.6	

1997 07 01	00 40.37	+06 00.1	2.039	2.241	87.6	27.0	18.3
1997 07 11	00 55.50	+07 15.5	1.893	2.198	93.2	27.5	18.0
1997 07 21	01 10.08	+08 21.8	1.751	2.157	99.0	27.7	17.7
1997 07 31	01 23.89	+09 16.9	1.615	2.119	105.0	27.6	17.4
1997 08 10	01 36.65	+09 58.5	1.486	2.083	111.4	26.9	17.1
1997 08 20	01 48.02	+10 24.3	1.366	2.049	118.3	25.8	16.9
1997 08 30	01 57.62	+10 32.2	1.256	2.019	125.6	24.0	16.6
1997 09 09	02 05.00	+10 20.3	1.159	1.992	133.7	21.5	16.3
1997 09 19	02 09.85	+09 48.0	1.075	1.969	142.4	18.1	16.1
1997 09 29	02 11.97	+08 56.5	1.008	1.949	151.8	14.1	15.9
1997 10 09	02 11.49	+07 49.8	0.959	1.933	161.7	9.3	15.7
1997 10 19	02 09.01	+06 35.7	0.931	1.921	171.0	4.7	15.6
1997 10 29	02 05.53	+05 24.4	0.925	1.914	171.8	4.3	15.6
1997 11 08	02 02.30	+04 26.9	0.942	1.910	162.7	8.9	15.6
1997 11 18	02 00.54	+03 51.8	0.979	1.911	152.6	13.8	15.7
1997 11 28	02 01.08	+03 43.0	1.035	1.917	142.9	18.1	15.8
1997 12 08	02 04.36	+04 00.6	1.108	1.926	133.8	21.6	16.0
1997 12 18	02 10.45	+04 41.4	1.195	1.940	125.5	24.4	16.2
1997 12 28	02 19.12	+05 40.7	1.295	1.957	117.8	26.4	16.4
1998 01 07	02 30.10	+06 53.5	1.404	1.979	110.7	27.7	16.7
1998 01 17	02 43.04	+08 14.9	1.522	2.004	104.1	28.4	16.9
1998 01 27	02 57.60	+09 40.8	1.648	2.032	97.9	28.7	17.2
1998 02 06	03 13.52	+11 07.6	1.780	2.064	92.0	28.5	17.5
1998 02 16	03 30.54	+12 32.1	1.916	2.099	86.3	28.0	17.7
1998 02 26	03 48.43	+13 51.9	2.057	2.136	80.8	27.2	18.0
1998 03 08	04 07.03	+15 05.1	2.200	2.175	75.5	26.2	18.3
1998 03 18	04 26.15	+16 10.1	2.345	2.217	70.3	25.0	18.5
1998 03 28	04 45.66	+17 05.8	2.491	2.261	65.2	23.6	18.8
1998 04 07	05 05.42	+17 51.4	2.636	2.306	60.1	22.1	19.0
1998 04 17	05 25.29	+18 26.4	2.779	2.353	55.1	20.5	19.3
1998 04 27	05 45.18	+18 50.7	2.920	2.401	50.1	18.7	19.5
1998 05 07	06 04.98	+19 04.3	3.056	2.450	45.1	16.9	19.8
1998 05 17	06 24.58	+19 07.5	3.188	2.500	40.1	15.1	20.0
1998 05 27	06 43.92	+19 00.8	3.314	2.551	35.1	13.2	20.2
1998 06 06	07 02.93	+18 44.6	3.432	2.603	30.0	11.2	20.4

77P/LongmoreElements *MPC* 20123

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 03 23		22 53.47	-23 20.4	4.577	3.753	30.5	7.7		21.7
1997 04 02		23 04.57	-22 11.9	4.537	3.782	36.6	9.1		21.8
1997 04 12		23 15.05	-21 08.6	4.482	3.812	43.1	10.4		21.8
1997 04 22		23 24.85	-20 11.2	4.412	3.841	49.9	11.5		21.9
1997 05 02		23 33.90	-19 20.2	4.329	3.870	56.8	12.6		21.9
1997 05 12		23 42.12	-18 36.6	4.234	3.899	64.0	13.5		21.9
1997 05 22		23 49.39	-18 00.9	4.130	3.927	71.5	14.1		21.9
1997 06 01		23 55.62	-17 33.6	4.018	3.955	79.2	14.6		21.8
1997 06 11		00 00.67	-17 15.5	3.901	3.982	87.2	14.8		21.8
1997 06 21		00 04.40	-17 06.8	3.783	4.010	95.5	14.6		21.7
1997 07 01		00 06.69	-17 07.4	3.666	4.037	104.1	14.1		21.7
1997 07 11		00 07.40	-17 17.3	3.555	4.063	113.1	13.3		21.6
1997 07 21		00 06.43	-17 35.3	3.453	4.089	122.4	12.1		21.5
1997 07 31		00 03.75	-17 59.9	3.365	4.115	132.0	10.6		21.4
1997 08 10		23 59.40	-18 28.8	3.296	4.140	141.8	8.7		21.3

1997 08 20	23 53.57	-18 58.8	3.249	4.165	151.3	6.7	21.2
1997 08 30	23 46.57	-19 26.4	3.229	4.190	159.6	4.8	21.1
1997 09 09	23 38.84	-19 48.0	3.237	4.214	163.9	3.8	21.0
1997 09 19	23 30.92	-20 00.5	3.274	4.238	161.2	4.4	21.1
1997 09 29	23 23.38	-20 02.1	3.341	4.261	153.4	6.0	21.2
1997 10 09	23 16.71	-19 51.9	3.436	4.284	143.9	7.9	21.4
1997 10 19	23 11.33	-19 30.0	3.555	4.306	133.9	9.6	21.6
1997 10 29	23 07.45	-18 57.5	3.695	4.329	123.9	11.0	21.7
1997 11 08	23 05.21	-18 15.7	3.851	4.350	114.1	12.0	21.8
1997 11 18	23 04.60	-17 26.3	4.018	4.372	104.5	12.6	22.0
1997 11 28	23 05.52	-16 30.5	4.193	4.393	95.1	12.9	22.1
1997 12 08	23 07.84	-15 29.6	4.370	4.413	86.0	12.9	22.2
1997 12 18	23 11.41	-14 24.6	4.546	4.433	77.2	12.5	22.3
1997 12 28	23 16.05	-13 16.4	4.717	4.453	68.6	11.9	22.3
1998 01 07	23 21.60	-12 05.6	4.879	4.472	60.2	11.0	22.4
1998 01 17	23 27.90	-10 52.9	5.030	4.491	52.0	9.9	22.4
1998 01 27	23 34.82	-09 38.9	5.167	4.510	43.9	8.7	22.4
1998 02 06	23 42.23	-08 24.0	5.288	4.528	36.0	7.4	22.4

C/1996 E1 (NEAT)

Elements MPC 28557

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 04 02	22 41.61	-11 25.3	4.268	3.494	34.8	9.4	18.6		
1997 04 12	22 47.63	-11 59.7	4.255	3.596	43.6	11.1	18.7		
1997 04 22	22 52.74	-12 41.4	4.222	3.697	52.5	12.5	18.8		
1997 05 02	22 56.84	-13 31.9	4.172	3.797	61.6	13.5	18.9		
1997 05 12	22 59.80	-14 32.8	4.107	3.897	71.0	14.2	19.0		
1997 05 22	23 01.45	-15 45.6	4.034	3.996	80.7	14.5	19.0		
1997 06 01	23 01.64	-17 11.1	3.956	4.095	90.7	14.3	19.1		
1997 06 11	23 00.21	-18 49.8	3.879	4.193	101.0	13.8	19.2		
1997 06 21	22 57.04	-20 41.0	3.811	4.291	111.6	12.7	19.2		
1997 07 01	22 52.02	-22 42.9	3.757	4.388	122.5	11.3	19.3		
1997 07 11	22 45.16	-24 51.9	3.724	4.484	133.5	9.5	19.4		
1997 07 21	22 36.57	-27 03.4	3.718	4.580	144.1	7.5	19.5		
1997 07 31	22 26.53	-29 11.2	3.744	4.675	153.6	5.5	19.6		
1997 08 10	22 15.47	-31 09.5	3.805	4.770	159.9	4.2	19.7		
1997 08 20	22 03.99	-32 52.9	3.903	4.864	159.5	4.2	19.8		
1997 08 30	21 52.71	-34 18.2	4.036	4.957	153.0	5.3	20.0		
1997 09 09	21 42.26	-35 24.2	4.202	5.050	143.8	6.8	20.2		
1997 09 19	21 33.13	-36 11.4	4.397	5.142	133.7	8.1	20.3		
1997 09 29	21 25.67	-36 42.2	4.615	5.234	123.5	9.2	20.5		
1997 10 09	21 20.03	-36 59.2	4.851	5.326	113.3	9.9	20.7		
1997 10 19	21 16.25	-37 05.4	5.099	5.417	103.4	10.3	20.9		

65P/Gunn

Elements MPC 22032

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 04 02	23 04.94	-14 36.0	3.676	2.873	31.6	10.5	14.7	19.8	
1997 04 12	23 19.80	-13 17.1	3.632	2.901	37.4	12.1	14.7	19.8	
1997 04 22	23 33.98	-12 02.3	3.577	2.929	43.4	13.6	14.8	19.9	
1997 05 02	23 47.44	-10 52.4	3.512	2.958	49.5	15.0	14.8	19.9	
1997 05 12	00 00.12	-09 48.5	3.436	2.987	55.8	16.2	14.8	19.9	
1997 05 22	00 11.94	-08 51.7	3.352	3.016	62.2	17.3	14.8	19.9	
1997 06 01	00 22.81	-08 02.8	3.260	3.045	68.9	18.1	14.8	19.9	
1997 06 11	00 32.62	-07 23.0	3.162	3.075	75.8	18.7	14.8	19.9	

1997 06 21	00 41.22	-06 53.1	3.059	3.105	83.1	19.0	14.8	19.9
1997 07 01	00 48.48	-06 33.8	2.953	3.135	90.7	18.9	14.8	19.8
1997 07 11	00 54.22	-06 26.0	2.848	3.165	98.7	18.5	14.8	19.7
1997 07 21	00 58.24	-06 29.8	2.745	3.195	107.1	17.7	14.8	19.6
1997 07 31	01 00.41	-06 45.3	2.649	3.226	116.0	16.4	14.7	19.5
1997 08 10	01 00.58	-07 11.8	2.563	3.256	125.3	14.7	14.7	19.4
1997 08 20	00 58.71	-07 47.5	2.491	3.286	135.1	12.6	14.7	19.3
1997 08 30	00 54.90	-08 29.8	2.437	3.316	145.1	10.0	14.7	19.2
1997 09 09	00 49.38	-09 14.9	2.406	3.346	155.0	7.3	14.8	19.1
1997 09 19	00 42.61	-09 58.0	2.401	3.376	163.6	4.8	14.8	19.0
1997 09 29	00 35.19	-10 34.6	2.424	3.406	166.6	3.9	14.9	18.9
1997 10 09	00 27.81	-11 00.5	2.475	3.436	161.2	5.4	15.0	19.1
1997 10 19	00 21.14	-11 13.1	2.555	3.466	152.0	7.8	15.1	19.3
1997 10 29	00 15.73	-11 11.2	2.660	3.495	141.8	10.1	15.3	19.5
1997 11 08	00 11.94	-10 55.1	2.787	3.525	131.7	12.1	15.4	19.7
1997 11 18	00 09.96	-10 26.0	2.933	3.554	121.8	13.7	15.6	19.9
1997 11 28	00 09.81	-09 45.5	3.092	3.583	112.2	14.8	15.8	20.0
1997 12 08	00 11.40	-08 55.6	3.261	3.611	102.9	15.4	15.9	20.2
1997 12 18	00 14.59	-07 57.9	3.437	3.640	94.0	15.6	16.1	20.3
1997 12 28	00 19.19	-06 54.1	3.614	3.668	85.4	15.5	16.3	20.5
1998 01 07	00 25.01	-05 45.4	3.790	3.696	77.1	15.0	16.4	20.6
1998 01 17	00 31.87	-04 33.1	3.961	3.724	69.0	14.3	16.6	20.7
1998 01 27	00 39.61	-03 18.3	4.125	3.751	61.2	13.3	16.7	20.7
1998 02 06	00 48.08	-02 01.8	4.280	3.778	53.5	12.1	16.8	20.8
1998 02 16	00 57.15	-00 44.5	4.423	3.805	46.1	10.8	16.9	20.8
1998 02 26	01 06.70	+00 32.9	4.553	3.831	38.8	9.3	17.0	20.8
1998 03 08	01 16.63	+01 49.7	4.667	3.858	31.6	7.8	17.1	20.8

OPPOSITION DATA

Planet	Opposition	α_{2000}	δ_{2000}	V	$\dot{\alpha}$	$\dot{\delta}$	ϕ_{MIN}	MPC
2091 P-L	97 01 22.0	08 17.32	+14 39.7	18.3	-1.10	+ 2.7	2.1/22.9	28891
1981 EV ₉	97 01 22.0	08 17.47	+17 22.1	18.4	-1.16	+ 0.8	1.1/22.4	25536
1981 EE ₁₃	97 01 22.0	08 17.48	+24 21.9	19.3	-1.04	+ 1.6	1.5/21.3	26917
1984 HJ ₁	97 01 22.0	08 17.65	+22 57.2	17.0	-1.14	+ 4.7	1.3/21.5	29094
1992 YP ₂	97 01 22.0	08 17.66	+29 16.5	17.6	-1.06	+ 7.2	4.1/20.0	28616
1992 UE ₄	97 01 22.1	08 17.83	+23 19.7	16.7	-1.11	+ 5.4	1.6/21.4	29136
1997 AO ₂	97 01 22.2	08 18.54	+28 38.9	16.8	-0.92	+ 6.5	3.1/20.3	29141
1981 ER ₂	97 01 22.2	08 18.58	-12 30.8	17.7	-0.77	+ 4.3	11.8/29.6	26915
1997 AK ₂₁	97 01 22.3	08 18.61	+10 12.6	16.2	-0.99	+ 3.0	3.9/24.0	29126
1981 DA ₂	97 01 22.3	08 18.64	+18 29.5	18.2	-0.89	+ 1.0	0.4/22.5	26914
1994 GL ₉	97 01 22.3	08 18.85	+13 15.0	16.9	-1.08	+ 3.0	2.8/23.4	26191
1981 EA ₄₀	97 01 22.4	08 18.95	+18 53.5	19.6	-0.80	+ 3.1	0.2/22.5	29132
2103 P-L	97 01 22.4	08 19.01	+14 38.0	17.3	-0.97	+ 3.0	1.8/23.3	21977
1990 UT ₁₀	97 01 22.4	08 19.10	+18 59.0	16.6	-0.90	+ 3.4	0.2/22.6	29134
1993 FE ₂₆	97 01 22.5	08 19.42	+05 55.4	17.4	-0.88	+ 3.6	5.7/25.2	23525
3099 T-1	97 01 22.5	08 19.45	+25 47.3	16.4	-1.23	+ 0.4	3.0/21.6	28892
1997 AK ₁₈	97 01 22.5	08 19.46	+23 46.1	18.5	-1.09	+ 3.2	1.8/21.8	29125
1995 SL ₅	97 01 22.6	08 19.99	+15 30.3	18.9	-1.01	+ 3.8	1.3/23.4	25966
1981 EL ₃₄	97 01 22.8	08 20.95	+18 00.8	19.0	-0.82	+ 2.7	0.4/23.1	24116
1981 DS ₂	97 01 22.9	08 21.03	+15 51.9	18.7	-1.05	+ 0.1	1.3/23.4	26914
1992 SK ₁₃	97 01 22.9	08 21.08	+20 12.7	17.2	-1.19	+ 1.8	0.3/22.8	29136
(6802)	97 01 22.9	08 21.21	+21 49.7	17.7	-0.89	+ 2.6	0.7/22.5	26392

1995 PF	97 01 23.0	08 21.66	+11 21.0	19.3	-1.05	+	0.3	2.8/24.3	26176
1981 UD ₂₃	97 01 23.1	08 22.05	+23 33.1	16.9	-1.10	+	4.6	1.6/22.4	29132
(7491)	97 01 23.1	08 22.12	+16 06.0	16.5	-0.96	+	1.8	1.2/23.7	29088
1995 SX ₂	97 01 23.1	08 22.25	+24 51.2	18.4	-1.08	+	3.6	1.8/22.2	26404
1981 EM ₇	97 01 23.1	08 22.27	+10 46.9	18.4	-0.94	+	2.9	2.7/24.8	27303
1975 SZ ₁	97 01 23.1	08 22.36	+14 58.5	17.9	-1.06	+	5.2	2.1/24.1	29131
1997 AR	97 01 23.2	08 22.37	+18 46.7	18.0	-1.08	+	2.8	0.2/23.3	29120
(6694)	97 01 23.2	08 22.53	+11 53.1	16.1	-0.96	+	2.3	2.6/24.6	26151
(6832)	97 01 23.3	08 22.72	+22 04.1	17.1	-0.86	+	3.1	0.8/22.8	26554
1996 XW ₁₈	97 01 23.3	08 23.14	+21 07.2	17.2	-1.08	+	6.5	0.6/23.0	29140
1971 UG	97 01 23.4	08 23.48	+00 54.7	16.7	-0.86	+	2.6	6.1/27.1	26417
1993 FU ₃₃	97 01 23.4	08 23.63	+26 34.1	16.2	-0.99	+	4.0	2.7/22.1	29137
1993 KB ₂	97 01 23.5	08 23.60	-00 27.8	16.2	-0.76	+	4.6	5.3/27.8	23790
4210 T-2	97 01 23.5	08 23.66	+16 12.7	16.6	-0.94	+	5.3	1.2/24.2	23988
1997 AU	97 01 23.5	08 23.73	+22 35.5	16.6	-0.93	+	2.9	1.0/22.9	29141
1991 PG ₁₇	97 01 23.5	08 23.77	+21 00.4	16.7	-1.22	-	0.5	0.6/23.3	29135
1981 EA ₄₂	97 01 23.6	08 23.98	+08 42.3	18.5	-1.05	+	6.7	4.6/25.9	23347
1981 ER ₂₃	97 01 23.7	08 24.58	+20 55.8	18.6	-1.00	+	4.2	0.7/23.4	22074
1993 GR	97 01 23.7	08 24.74	+26 05.6	16.6	-0.99	+	3.5	2.4/22.4	22432
1990 VY ₁₃	97 01 23.7	08 24.86	+24 26.4	15.6	-0.89	+	3.6	1.8/22.8	29134
1982 DU	97 01 23.7	08 24.93	+40 38.2	15.6	-1.29	-	4.2	8.8/21.2	28883
1994 PV ₂₄	97 01 23.8	08 25.07	+23 04.2	17.9	-0.72	+	2.3	0.9/23.1	29138
1993 FO ₈	97 01 23.8	08 25.08	+23 41.6	16.3	-0.96	+	4.8	1.6/22.9	29136
1981 EA ₁₆	97 01 23.8	08 25.18	+25 05.3	17.4	-1.25	+	1.5	2.4/22.9	29093
1003 T-2	97 01 23.8	08 25.24	+18 05.1	16.7	-0.87	+	3.0	0.4/24.1	29130
1990 VV ₁₁	97 01 23.9	08 25.29	+22 34.5	16.5	-0.92	+	3.5	1.2/23.3	29098
(6704)	97 01 24.0	08 25.75	+16 11.7	16.2	-0.94	+	2.4	1.1/24.6	26154
1984 SV ₅	97 01 24.0	08 25.85	+30 42.3	18.1	-0.97	+	1.7	3.4/22.0	20331
1995 QQ ₃	97 01 24.1	08 26.30	+17 36.2	17.9	-0.98	+	5.5	0.6/24.5	29139
(7454)	97 01 24.2	08 26.72	+20 23.8	18.1	-0.82	+	2.8	0.3/24.0	29077
1992 FJ ₁	97 01 24.3	08 26.95	+29 02.1	15.6	-1.07	-	1.6	3.0/22.9	29135
1995 TQ	97 01 24.3	08 27.04	+03 35.0	17.6	-0.85	+	1.6	4.7/27.2	29110
1981 EO ₃	97 01 24.4	08 27.35	+27 43.7	18.9	-1.12	+	0.1	2.6/23.1	26915
1997 AX ₃	97 01 24.4	08 27.64	+16 06.3	16.3	-1.18	+	2.4	1.2/25.0	29121
1997 AW ₃	97 01 24.4	08 27.81	+17 50.9	16.6	-1.04	+	7.1	0.5/24.8	29120
1995 UR ₈	97 01 24.5	08 28.00	+26 11.0	19.9	-1.03	+	3.3	2.2/23.2	26423
1991 RP ₁	97 01 24.5	08 28.16	+36 51.2	17.6	-1.25		0.0	6.0/21.8	25734
6624 P-L	97 01 24.6	08 28.27	+24 06.1	18.7	-1.12	+	4.4	2.1/23.7	29141
1990 QJ ₈	97 01 24.6	08 28.29	+14 23.2	16.9	-0.89	+	5.6	1.7/25.6	23515
1981 EJ ₂₈	97 01 24.6	08 28.66	+16 48.6	18.4	-1.13	+	4.7	0.9/25.1	26920
4037 P-L	97 01 24.7	08 28.91	+29 41.3	16.4	-1.21	+	1.1	4.8/23.0	28892
1990 SE ₁₁	97 01 24.7	08 29.05	+20 48.4	17.3	-0.97	+	1.3	0.5/24.5	29134
1997 AY ₂	97 01 24.8	08 29.05	+27 48.7	17.0	-0.89	+	4.7	2.5/22.9	29120
(7504)	97 01 24.8	08 29.07	+21 02.3	16.1	-0.86	+	3.2	0.8/24.4	29091
1981 ET ₄₃	97 01 24.8	08 29.16	-18 09.5	19.5	-0.77	+	4.8	11.6/03.5	22271
1992 WD ₁	97 01 24.9	08 29.46	+21 25.1	16.8	-1.08	+	5.3	1.0/24.4	28887
1995 QH ₂	97 01 24.9	08 29.66	+30 13.1	17.4	-1.19	+	4.2	4.1/22.8	29108
2665 P-L	97 01 24.9	08 29.72	+14 40.9	20.6	-0.98	+	4.3	1.4/25.8	25969
3535 T-3	97 01 25.2	08 30.73	+23 31.1	16.7	-1.10	+	3.3	2.1/24.4	24915
1981 DK	97 01 25.2	08 30.81	+12 39.1	17.2	-0.89	+	0.7	2.0/26.3	26914
1993 FF ₂₁	97 01 25.2	08 31.00	+22 50.0	16.9	-0.97	+	2.6	1.4/24.5	28850

1981 ES ₁₆	97 01 25.3	08 31.12	+19 55.6	19.5	-1.03	+	2.6	0.4/25.1	29093
1991 PT ₁	97 01 25.3	08 31.29	+13 31.1	17.3	-1.07	+	4.4	2.2/26.4	27728
1997 CB ₁₃	97 01 25.3	08 31.43	+18 27.6	17.9	-1.12	+	5.7	0.2/25.5	29128
1995 VX ₄	97 01 25.3	08 31.56	+18 55.2	19.8	-1.03	+	5.1	0.0/25.4	29111
1991 VW ₅	97 01 25.4	08 31.66	+24 03.8	17.6	-0.99	+	5.8	1.6/24.3	28615
2256 T-2	97 01 25.4	08 31.85	+18 38.4	16.8	-0.86	+	3.4	0.1/25.5	29142
1990 DD ₂	97 01 25.4	08 31.90	+14 21.5	17.3	-1.06	+	4.6	1.8/26.4	23684
3102 T-3	97 01 25.4	08 31.98	+19 48.9	18.9	-1.08	+	4.8	0.4/25.3	29130
5585 P-L	97 01 25.5	08 32.11	+21 23.1	19.4	-0.92	+	3.1	0.8/25.0	26415
1981 EZ ₁₆	97 01 25.6	08 32.47	+28 14.1	18.4	-1.14	+	0.5	3.8/24.1	26918
(6742)	97 01 25.6	08 32.75	+22 16.6	16.4	-1.09	+	6.0	1.3/24.9	26162
1981 EW ₃₇	97 01 25.9	08 33.68	+18 33.9	19.8	-1.03	+	2.1	0.1/26.0	26922
1995 QC ₃	97 01 25.9	08 33.80	+23 11.2	19.5	-1.07	+	2.7	1.3/25.1	26192
1995 UD ₂	97 01 26.0	08 34.00	+05 28.9	17.6	-0.95	+	2.8	4.4/28.6	29139
1993 DT ₁	97 01 26.0	08 34.37	+13 55.5	19.4	-0.97	+	3.8	1.6/27.0	29136
(7403)	97 01 26.1	08 34.42	+23 15.0	16.3	-0.88	+	9.0	2.0/24.9	28827
1990 TP ₇	97 01 26.2	08 34.99	+20 44.0	17.2	-0.90	+	3.0	0.7/25.8	29134
1991 RN ₂₇	97 01 26.2	08 35.30	+32 39.0	16.1	-1.24	-	1.3	5.4/24.2	23782
1978 UJ ₅	97 01 26.5	08 36.26	+18 27.0	17.7	-1.12	+	3.1	0.1/26.6	20806
5162 T-2	97 01 26.6	08 36.48	+20 53.6	17.0	-0.90	+	1.2	0.7/26.2	29142
2702 P-L	97 01 26.6	08 36.50	+20 21.3	17.4	-0.86	+	3.2	0.6/26.2	29141
1988 CG ₇	97 01 26.6	08 36.62	+04 42.0	17.6	-0.90	+	3.2	5.0/29.5	23513
2575 P-L	97 01 26.7	08 36.94	+22 54.7	17.4	-0.92	+	4.0	1.4/25.8	28891
1988 SN	97 01 26.7	08 37.16	+28 23.0	16.4	-1.19	+	1.9	3.9/25.0	28842
(6749)	97 01 26.7	08 37.24	+05 51.5	18.0	-0.92	+	4.0	4.1/29.5	26164
1990 QW ₉	97 01 26.7	08 37.27	+07 02.3	18.0	-0.90	+	5.1	3.5/29.3	24895
1989 WO ₁	97 01 26.7	08 37.27	+32 52.6	16.3	-0.87	+	3.8	4.1/23.6	28884
1981 ET ₁₁	97 01 26.7	08 37.42	+30 35.8	18.9	-1.24	-	4.9	5.9/25.5	26917
1995 VR	97 01 26.8	08 37.51	+00 44.7	18.1	-0.90	+	2.9	5.4/30.5	28890
1992 SG ₁₃	97 01 27.0	08 38.31	+27 54.1	17.6	-1.22	+	2.9	3.7/25.3	22085
1981 ES ₂₃	97 01 27.0	08 38.55	+17 16.4	18.6	-0.98	+	4.3	0.4/27.3	29132
6588 P-L	97 01 27.0	08 38.58	+19 04.9	17.4	-0.85	+	3.3	0.2/27.0	29141
1995 WG ₇	97 01 27.2	08 39.04	-04 51.5	17.7	-0.81	+	1.3	6.3/01.1	29112
1980 FH ₄	97 01 27.2	08 39.09	+17 03.8	18.0	-1.10	+	4.4	0.5/27.5	23969
1990 QR ₂	97 01 27.2	08 39.16	+21 43.6	16.4	-0.97	+	2.4	1.1/26.6	22813
1990 RK ₇	97 01 27.2	08 39.16	+19 45.2	17.0	-0.91	+	4.3	0.5/27.0	29134
1997 AQ ₁₂	97 01 27.2	08 39.25	+22 21.6	16.1	-0.83	+	6.8	1.2/26.3	29124
1997 AE ₄	97 01 27.3	08 39.38	+18 36.9	15.4	-0.84	+	7.2	0.1/27.3	29121
5491 T-2	97 01 27.3	08 39.51	+25 48.1	17.8	-0.98	+	0.3	2.3/26.0	25652
1978 RU ₈	97 01 27.3	08 39.71	+08 51.0	17.9	-0.79	+	5.6	2.9/29.6	24406
1994 NT ₁	97 01 27.4	08 39.81	+19 20.1	16.0	-0.90	+	9.7	0.4/27.2	29137
4730 P-L	97 01 27.4	08 39.87	+25 44.2	19.5	-1.01	+	3.3	2.4/25.9	26414
1981 EQ ₁₈	97 01 27.4	08 39.91	+17 23.6	17.4	-0.85	+	3.8	0.3/27.6	26187
1981 EL ₃₅	97 01 27.4	08 39.97	+04 04.2	19.8	-0.80	+	2.0	4.1/30.3	26921
1981 EU ₂₆	97 01 27.5	08 40.27	+12 29.2	18.7	-0.80	+	3.9	1.7/28.8	29132
1997 AT ₄	97 01 27.5	08 40.39	+17 05.3	16.8	-1.11	+	1.8	0.5/27.8	29141
(6788)	97 01 27.5	08 40.59	+17 30.1	17.5	-1.06	+	4.2	0.3/27.7	26388
1997 AK ₄	97 01 27.5	08 40.63	+16 19.9	16.1	-0.90	+	2.4	0.8/28.0	29121
1978 RU	97 01 27.5	08 40.68	+24 06.2	18.4	-1.01	+	3.3	1.7/26.4	28610
1997 AP ₄	97 01 27.5	08 40.69	+15 32.0	15.8	-0.98	+	4.1	1.3/28.2	29121
1993 BA	97 01 27.6	08 40.65	+23 39.1	15.8	-0.97	+	8.7	1.8/26.3	28849

1995 SG ₅	97 01 27.6	08 41.08	+42 22.0	17.9	-1.18	+ 1.7	7.1/22.9	26177
1986 QJ ₁	97 01 27.6	08 41.10	+12 19.5	18.3	-0.88	+ 6.5	1.8/29.1	23236
1992 WO ₅	97 01 27.7	08 41.25	+21 52.2	15.7	-1.07	+ 5.8	1.4/27.0	28849
4588 P-L	97 01 27.7	08 41.37	+10 20.0	19.1	-1.03	+ 5.0	2.8/29.5	28892
1981 EQ ₄	97 01 27.8	08 41.45	+04 30.3	17.7	-0.82	+ 2.3	4.9/30.6	26915
1995 WX ₁	97 01 27.9	08 41.91	-03 11.4	16.3	-0.83	+ 0.8	7.0/32.0	29139
1197 T-2	97 01 27.9	08 42.10	+15 25.4	18.9	-1.05	+ 4.0	1.0/28.5	24236
1997 AN ₂₁	97 01 28.0	08 42.32	+19 51.7	16.4	-1.18	- 2.4	0.7/27.8	29126
1993 FU ₅₂	97 01 28.0	08 42.53	+17 06.9	17.9	-0.91	+ 5.4	0.4/28.3	28588
1989 GM	97 01 28.0	08 42.59	+23 53.8	16.4	-0.96	+ 9.0	1.8/26.6	26189
2120 T-1	97 01 28.0	08 42.64	+17 34.3	17.9	-1.03	+ 5.2	0.2/28.2	29142
1995 SU	97 01 28.1	08 42.87	+19 49.0	17.1	-1.15	+ 1.9	0.7/27.8	29139
1981 ED ₄₂	97 01 28.2	08 43.29	+13 51.7	19.8	-0.82	+ 4.1	1.3/29.2	26922
(6773)	97 01 28.2	08 43.29	+12 36.8	16.6	-0.81	+ 6.1	1.7/29.6	26385
2672 T-3	97 01 28.2	08 43.56	+01 26.9	18.4	-0.72	+ 3.3	3.9/01.1	24915
1995 NB	97 01 28.4	08 44.33	+20 57.1	17.8	-0.94	+ 4.7	0.9/27.9	28889
1976 DC	97 01 28.4	08 44.40	+28 24.9	16.4	-1.93	-18.1	5.9/28.6	29092
1981 EK ₇	97 01 28.5	08 44.52	+11 54.7	18.1	-0.78	+ 3.0	1.6/29.9	24238
1997 AR ₄	97 01 28.5	08 44.63	+15 57.8	16.2	-0.88	+ 3.5	0.7/29.0	29122
1990 HL ₁	97 01 28.5	08 44.83	-18 15.6	18.1	-1.10	- 2.4	14.0/02.4	26579
1997 AD ₁₃	97 01 28.6	08 44.90	+29 34.5	16.2	-1.06	+ 8.8	4.4/25.6	29141
1992 EN ₉	97 01 28.6	08 45.10	+16 32.5	15.9	-0.85	+ 4.1	0.5/29.0	29100
1989 CO ₅	97 01 28.6	08 45.19	+16 53.1	17.2	-0.96	+ 4.7	0.4/28.9	28613
1981 EF ₂₄	97 01 28.6	08 45.21	+25 13.4	18.7	-0.84	+ 2.8	1.8/27.1	26919
1996 YK ₂	97 01 28.8	08 45.96	+31 56.8	15.5	-1.18	+ 1.2	6.7/26.2	29141
1997 AU ₄	97 01 28.9	08 46.11	+15 19.2	16.5	-0.93	+ 3.5	0.9/29.5	29122
1991 RB ₁₉	97 01 28.9	08 46.22	+26 05.5	17.4	-1.15	+ 0.3	3.0/27.6	29135
2395 T-3	97 01 28.9	08 46.42	+16 11.5	17.9	-0.82	+ 2.6	0.5/29.4	24757
1997 AB ₁₃	97 01 29.0	08 46.50	+23 14.1	16.8	-1.12	+ 5.0	2.2/27.9	29124
1994 PA ₁₀	97 01 29.0	08 46.60	+12 58.0	19.0	-0.85	+ 5.1	1.5/30.2	24748
1992 UY	97 01 29.0	08 46.65	+09 06.1	16.9	-1.03	+ 6.5	3.6/31.1	29101
1995 SO ₂₉	97 01 29.0	08 46.86	+17 23.1	17.3	-0.84	+ 3.8	0.2/29.2	26192
1991 OW	97 01 29.1	08 47.19	+13 15.2	17.7	-1.13	+ 2.2	1.8/30.0	28886
1995 SX ₃	97 01 29.1	08 47.25	+10 16.9	17.5	-1.08	+ 4.2	2.7/30.7	27937
1994 PG ₂₇	97 01 29.2	08 47.56	+17 47.4	15.6	-0.86	+ 4.0	0.0/29.3	26905
7603 P-L	97 01 29.3	08 47.68	+38 01.0	18.1	-1.13	+ 2.3	6.0/25.1	26192
1990 SO ₇	97 01 29.3	08 47.99	+13 04.9	19.3	-0.86	+ 5.3	1.5/30.5	24738
1991 RD ₄	97 01 29.3	08 48.09	+10 54.6	18.3	-1.01	+ 4.1	2.4/30.8	27325
1981 DC ₁	97 01 29.4	08 48.13	-00 15.8	19.5	-0.92	+ 3.7	6.1/02.3	26914
1993 GL	97 01 29.5	08 48.55	+22 04.0	16.1	-0.92	+ 3.7	1.4/28.6	29103
1986 PX	97 01 29.5	08 48.72	+13 23.4	18.3	-1.15	+ 5.2	1.8/30.5	28612
1989 SC ₄	97 01 29.5	08 48.84	-10 10.0	17.6	-0.74	+ 5.3	8.5/06.0	26739
1997 AZ ₆	97 01 29.6	08 48.90	+15 02.8	17.1	-0.97	+ 5.3	1.0/30.2	29122
1995 SX ₅₁	97 01 29.8	08 49.80	+30 10.8	20.6	-0.96	+ 2.3	3.7/27.2	26405
1995 SE ₄	97 01 29.9	08 50.11	+02 41.4	16.9	-0.99	+ 0.4	5.2/01.7	29139
1995 UF ₆	97 01 29.9	08 50.15	+36 04.3	17.7	-1.07	+ 3.8	5.4/25.7	29111
1995 PG	97 01 29.9	08 50.28	+28 55.5	18.2	-1.28	- 3.6	4.8/28.4	29138
1978 UF ₆	97 01 29.9	08 50.34	+26 42.7	17.3	-1.20	+ 3.0	3.4/28.1	29132
1997 AP ₂₁	97 01 29.9	08 50.52	+21 35.0	16.9	-1.10	+ 4.7	1.8/29.1	29126
1991 VN	97 01 30.0	08 50.63	+16 20.8	19.0	-0.98	+ 4.5	0.4/30.3	28886
1978 NC	97 01 30.0	08 50.87	+28 21.3	17.9	-1.02	+10.5	3.2/27.1	26187

1997 AD ₇	97 01 30.0	08 50.93	+15 06.4	17.3	-1.00	+ 4.8	0.8/30.6	29122
1084 T-2	97 01 30.0	08 50.96	+15 41.1	20.8	-1.03	+ 4.1	0.6/30.5	25970
1205 T-1	97 01 30.1	08 51.02	+23 37.4	18.3	-1.21	+ 2.9	2.4/29.0	29129
1995 SN ₂₉	97 01 30.1	08 51.20	+17 03.2	16.7	-0.83	+ 3.8	0.2/30.3	29139
3270 T-2	97 01 30.2	08 51.71	+23 10.8	16.5	-1.02	+ 5.3	2.5/29.0	29142
1979 OZ ₉	97 01 30.2	08 51.81	+12 20.1	21.0	-1.10	+ 5.8	2.0/31.4	27553
1995 WO ₁₅	97 01 30.3	08 51.79	+21 24.6	17.6	-0.95	+ 3.5	1.3/29.5	29139
2655 P-L	97 01 30.3	08 52.05	+36 10.1	19.7	-1.02	+ 1.2	5.5/26.6	25969
1995 SP ₁	97 01 30.4	08 52.48	+20 32.4	16.5	-1.21	- 5.1	1.1/30.1	28857
1988 RV ₁₁	97 01 30.5	08 52.57	+14 39.5	18.4	-1.08	+ 5.4	1.1/31.1	29133
1989 VM ₁	97 01 30.5	08 52.70	+15 29.7	19.6	-1.09	+ 7.4	0.8/31.0	28843
1997 AL ₇	97 01 30.5	08 52.96	+15 13.3	16.7	-1.01	+ 5.8	0.9/31.1	29123
1981 EK ₄₂	97 01 30.6	08 53.15	+10 18.9	18.7	-0.81	+ 4.1	2.5/01.3	26922
4543 P-L	97 01 30.6	08 53.31	+21 18.3	18.6	-1.17	+ 4.2	1.4/29.9	28880
1989 SZ ₄	97 01 30.6	08 53.47	+24 32.6	16.8	-1.15	+ 5.0	3.2/29.2	28843
1997 AD ₈	97 01 30.7	08 53.52	+14 49.0	19.2	-0.95	+ 3.5	0.9/31.3	29123
1988 RE ₆	97 01 30.8	08 53.98	+20 17.2	16.1	-1.07	+ 4.9	1.3/30.2	28883
1993 FZ ₄₆	97 01 30.8	08 54.23	+22 48.6	18.4	-1.00	+ 2.8	2.1/29.8	28887
1997 AH ₇	97 01 30.8	08 54.29	+12 56.6	15.9	-0.99	+ 8.0	1.9/01.0	29122
1988 VT ₂	97 01 30.9	08 54.24	+15 47.5	16.6	-1.06	+ 3.8	0.6/31.3	28842
1982 QY ₁	97 01 30.9	08 54.26	+06 51.7	16.2	-0.94	+ 3.0	3.6/02.2	19497
1995 WV ₅	97 01 30.9	08 54.39	+03 06.4	17.7	-0.81	+ 2.4	4.2/03.1	29112
1995 SK ₅₃	97 01 31.0	08 54.67	+33 08.1	17.7	-0.99	+ 2.8	4.6/27.5	29139
1994 RM ₁	97 01 31.0	08 54.73	-04 12.3	16.8	-0.72	+ 3.9	5.7/05.4	29138
1994 EG ₆	97 01 31.0	08 54.90	+19 39.0	17.4	-1.08	+ 6.5	0.8/30.5	29137
2579 P-L	97 01 31.0	08 54.97	+31 02.3	17.7	-1.23	+ 3.9	5.3/28.1	18130
1994 PW ₁₇	97 01 31.0	08 55.10	+17 16.5	19.0	-0.80	+ 3.4	0.0/31.1	25651
9509 P-L	97 01 31.1	08 55.31	+04 19.3	19.9	-0.85	+ 4.8	3.7/03.2	16036
1997 AC ₄	97 01 31.1	08 55.35	+19 10.0	16.8	-1.06	+ 3.7	0.6/30.8	29121
1992 UY ₃	97 01 31.1	08 55.47	+25 52.2	17.4	-1.17	+ 4.0	3.1/29.4	29136
1981 EA ₁₀	97 01 31.2	08 55.57	+33 23.6	18.3	-1.07	- 0.5	5.1/28.2	26916
1997 AK ₂	97 01 31.2	08 55.63	+19 44.6	16.9	-0.88	+ 3.7	1.0/30.7	29120
1991 PT ₁₀	97 01 31.2	08 55.73	+14 57.4	19.5	-1.00	+ 3.4	0.8/01.0	28886
1983 BD	97 01 31.3	08 55.86	+23 37.7	16.0	-0.92	+ 8.1	2.0/29.6	29094
1989 UV ₁	97 01 31.3	08 55.98	+18 18.6	18.5	-0.81	+ 3.3	0.3/31.1	25973
1997 AU ₉	97 01 31.3	08 56.26	+15 10.8	17.1	-1.06	+ 6.2	0.9/31.9	29123
1992 UY ₂	97 01 31.3	08 56.28	+08 30.9	16.6	-1.02	+ 5.1	3.7/02.4	29136
4521 P-L	97 01 31.3	08 56.28	+17 59.9	17.1	-0.89	+ 3.3	0.2/31.2	23686
1981 EV ₃₄	97 01 31.4	08 56.60	+15 40.9	18.6	-0.94	+ 4.5	0.5/31.8	28882
1980 PW	97 01 31.4	08 56.62	+17 13.7	17.7	-1.08	+ 3.0	0.0/31.5	28882
2041 P-L	97 01 31.5	08 56.68	+36 07.8	18.6	-1.19	+ 0.7	6.3/27.7	22432
1993 LR ₁	97 01 31.6	08 57.26	+11 25.5	16.3	-1.06	- 1.9	2.4/01.5	28851
1981 EZ ₄	97 01 31.6	08 57.42	+17 44.8	18.7	-1.07	+ 0.7	0.2/31.6	26915
(6747)	97 01 31.7	08 57.72	+22 34.4	17.7	-0.90	+ 3.1	1.6/30.6	26163
1995 UG ₈	97 01 31.7	08 57.94	+17 20.8	17.0	-0.89	+ 3.4	7.6/12.0	28859
7082 P-L	97 01 31.8	08 57.90	-20 16.5	18.1	-1.04	+ 9.4	16.4/13.7	22087
1995 ST	97 01 31.8	08 58.01	+23 29.8	16.8	-1.20	+ 1.6	2.6/30.6	29139
1985 UK ₃	97 01 31.8	08 58.15	+24 52.7	16.9	-1.15	+ 4.5	2.8/30.2	18285
1990 VZ ₄	97 01 31.8	08 58.21	+04 57.2	17.8	-0.80	+ 4.7	3.6/03.8	18434
1997 AN ₄	97 01 31.8	08 58.28	+16 24.0	17.0	-1.11	+ 4.1	10.3/12.0	29121
1988 RS ₃	97 01 31.8	08 58.39	+15 24.2	18.4	-1.05	+ 5.2	0.6/01.3	28841

(6766)	97 01 31.9	08 58.29	+16 53.1	17.9	-0.97	+	3.0	8.2/21.0	26383	2547 P-L	97 02 03.5	09 09.14	+19 27.8	19.3	-0.79	+	3.6	0.8/02.8	22700
1997 AL ₁₃	97 01 31.9	08 58.40	+28 02.9	15.8	-0.94	+	1.5	3.1/29.6	29124	1985 UG ₅	97 02 03.5	09 09.15	+31 40.4	17.1	-1.13	+	6.4	6.5/30.7	22077
1981 EY ₄₅	97 01 31.9	08 58.48	+17 44.3	16.8	-0.89	+	2.3	7.9/21.0	22271	1994 SH ₃	97 02 03.5	09 09.32	+14 43.2	19.3	-0.74	+	3.4	0.4/04.0	28854
1995 SB ₂₇	97 02 01.0	08 58.72	+20 47.9	18.2	-1.13	+	4.2	1.4/31.2	28889	1981 QE ₂	97 02 03.7	09 09.93	+12 49.6	18.2	-1.00	+	6.7	1.2/04.6	29132
1991 GM ₁₀	97 02 01.0	08 58.77	+19 47.8	17.8	-0.64	+	3.1	0.5/31.4	29135	1992 DO ₆	97 02 03.8	09 10.20	+17 14.8	17.5	-0.81	+	4.3	0.3/03.6	29099
1978 VC ₆	97 02 01.0	08 59.00	+03 56.2	19.5	-0.89	+	3.1	3.6/04.0	26187	1988 PO ₂	97 02 03.8	09 10.26	+14 05.6	18.3	-1.02	+	6.5	0.8/04.4	29133
1997 AM ₅	97 02 01.0	08 59.03	+23 53.0	16.0	-1.08	+	3.3	3.2/30.6	29122	2594 P-L	97 02 03.8	09 10.51	+15 21.3	18.0	-0.85	+	4.5	0.3/04.1	28891
(7374)	97 02 01.0	08 59.06	+20 02.2	16.1	-0.95	+	0.4	1.5/31.5	28820	1991 RW ₁₉	97 02 03.9	09 10.57	+12 40.4	18.2	-1.02	+	4.2	1.2/04.7	29135
(7189)	97 02 01.0	08 59.09	+13 45.2	16.7	-1.08	+	6.0	1.3/01.8	27902	1992 ER ₂₈	97 02 03.9	09 10.81	+17 51.4	19.6	-0.80	+	4.0	0.4/03.6	27913
2506 P-L	97 02 01.3	09 00.36	+32 20.0	19.2	-1.07	+	2.2	4.5/29.1	22086	1992 BF ₄	97 02 04.0	09 10.92	+20 03.3	17.7	-0.91	+	3.9	1.3/03.1	28846
1993 LD ₁	97 02 01.4	09 00.69	+23 56.4	19.3	-0.92	+	1.4	1.9/31.0	28888	1995 WC ₄	97 02 04.0	09 10.99	+35 43.9	17.5	-0.90	+	3.9	4.9/30.0	28861
1993 FF ₂₀	97 02 01.4	09 00.75	+21 50.1	16.8	-0.92	+	6.3	1.9/31.3	29103	1995 SL ₂	97 02 04.0	09 11.11	+06 42.5	16.5	-0.87	+	8.9	3.4/06.8	29109
1994 GN	97 02 01.5	09 01.21	+25 08.8	16.3	-1.13	+	5.7	3.1/30.7	28852	1988 VR ₃	97 02 04.0	09 11.25	+13 24.7	17.2	-1.02	+	5.3	1.0/04.7	29134
1978 VH ₁₁	97 02 01.6	09 01.27	+23 23.1	18.2	-0.97	+	4.6	2.2/31.1	28882	1980 FV ₂	97 02 04.0	09 11.36	+29 03.7	18.0	-1.06	+	2.0	3.8/01.3	21965
1995 WB ₆	97 02 01.7	09 01.70	+06 26.4	17.6	-0.83	+	4.7	3.1/04.3	29112	1990 RD	97 02 04.1	09 11.73	+08 20.6	17.2	-0.85	+	5.7	2.4/06.2	25956
1990 EL ₈	97 02 01.7	09 01.94	+21 39.5	16.5	-1.10	+	3.1	1.8/31.8	29134	1993 OD	97 02 04.2	09 11.72	+03 28.6	15.3	-1.81	-10.3	7.0/05.1	29137	
1993 FO ₄	97 02 01.8	09 02.15	+03 24.4	16.3	-0.82	+	8.7	5.5/05.7	23521	1981 EW ₃₉	97 02 04.2	09 11.91	+27 19.5	20.3	-0.92	+	2.0	3.2/01.7	21967
1993 AA	97 02 01.9	09 02.61	+09 47.3	17.3	-1.04	+	4.4	2.6/03.6	29136	5184 T-2	97 02 04.3	09 12.29	+01 54.9	18.9	-0.80	+	3.5	4.4/07.9	27928
1995 OA	97 02 01.9	09 02.70	+09 35.2	17.1	-1.08	+	2.0	3.1/03.4	29138	1995 QA ₃	97 02 04.3	09 12.39	+21 42.1	16.8	-1.16	+	2.2	2.1/03.2	26176
1991 RZ ₁	97 02 02.0	09 02.91	-12 02.5	16.7	-0.95	+	7.9	10.5/09.9	26420	(6775)	97 02 04.3	09 12.52	+13 50.2	16.3	-0.87	+	7.7	0.7/05.0	26385
1992 UD ₂	97 02 02.1	09 03.47	+60 50.7	17.7	-1.89	+	0.8	16.7/23.4	29101	2315 T-3	97 02 04.4	09 12.68	+12 32.8	18.0	-1.02	+	4.8	1.5/05.3	29130
1989 OM	97 02 02.1	09 03.53	+40 15.0	19.1	-1.03	+	2.3	5.7/27.6	24240	3256 T-2	97 02 04.4	09 12.77	+20 48.7	19.4	-1.06	+	4.6	1.7/03.4	29130
3092 P-L	97 02 02.2	09 03.97	+13 08.8	19.5	-0.94	+	2.4	1.1/03.0	17974	1990 VZ ₆	97 02 04.4	09 12.86	+29 37.0	16.1	-0.95	+	2.2	4.9/01.4	29098
1986 WO ₉	97 02 02.2	09 03.99	+12 05.6	16.1	-0.89	+	4.4	1.6/03.4	28612	1985 RP	97 02 04.4	09 12.96	+08 45.0	17.2	-1.02	+	8.5	3.0/06.5	21970
(6717)	97 02 02.3	09 04.08	+07 33.7	17.9	-0.84	+	3.5	2.5/04.5	26156	1980 RL ₂	97 02 04.5	09 13.04	+15 52.7	17.8	-1.02	+	4.1	0.1/04.6	21966
1989 YK	97 02 02.3	09 04.43	+12 00.8	16.0	-1.08	+	5.0	2.0/03.5	22081	1987 SG ₂	97 02 04.5	09 13.28	+09 40.6	16.1	-0.89	+	7.6	2.6/06.3	25339
1995 XB ₂	97 02 02.4	09 04.59	+20 29.3	17.0	-1.07	+	4.6	1.5/01.6	29113	1980 PV ₁	97 02 04.6	09 13.41	+10 38.7	16.2	-0.95	+	2.1	1.8/05.8	28314
1989 RW	97 02 02.5	09 05.07	+02 08.6	16.9	-0.83	+	3.8	4.5/06.0	24118	1987 RQ ₂	97 02 04.6	09 13.44	+20 43.2	18.5	-1.01	+	4.5	1.5/03.5	29133
6035 P-L	97 02 02.6	09 05.23	+29 32.9	18.4	-1.06	+	2.1	3.9/30.8	22495	(6748)	97 02 04.6	09 13.64	+21 30.3	16.5	-1.02	+	5.3	1.9/03.3	26163
(7338)	97 02 02.6	09 05.25	+05 54.0	16.0	-0.87	+	1.9	3.5/05.0	28572	1997 CW ₁₁	97 02 04.7	09 14.07	+20 45.6	20.4	-1.06	+	4.2	1.7/03.7	29128
1981 EZ ₃₇	97 02 02.6	09 05.34	+07 28.0	19.4	-0.78	+	4.6	2.8/04.9	22271	1992 DM ₆	97 02 05.0	09 15.09	+17 04.4	16.3	-0.80	+	4.0	0.3/04.8	28886
2129 P-L	97 02 02.6	09 05.44	+07 19.7	17.7	-0.93	+	5.2	3.9/04.9	29128	4221 T-2	97 02 05.0	09 15.36	+17 21.5	16.0	-0.84	+	4.5	0.5/04.7	29142
(7143)	97 02 02.6	09 05.54	-04 15.7	16.9	-0.76	+	3.8	5.7/08.0	27706	1995 VR ₁₂	97 02 05.1	09 15.46	+15 50.7	19.9	-0.86	+	4.8	0.0/05.1	28860
1992 EA ₂₂	97 02 02.6	09 05.58	+13 47.2	16.7	-0.79	+	7.0	0.9/03.4	28847	1988 RF ₄	97 02 05.1	09 15.49	+19 23.6	17.9	-1.12	+	3.5	1.2/04.4	29133
1988 RV ₁₀	97 02 02.6	09 05.65	+15 30.2	16.9	-0.81	+	4.4	0.4/03.0	28884	(7472)	97 02 05.2	09 15.75	+28 25.6	15.6	-0.89	+	6.1	4.3/01.7	29082
1981 EH ₂₇	97 02 02.7	09 05.64	+35 10.8	17.6	-1.26	-	0.7	7.5/30.1	26920	3109 T-1	97 02 05.2	09 15.93	+11 21.8	19.1	-1.00	+	4.1	1.6/06.3	24115
1995 SC ₂	97 02 02.8	09 06.49	+11 22.9	18.1	-0.97	+	7.0	2.0/04.2	29108	1981 EQ ₃	97 02 05.2	09 16.13	+14 18.1	19.2	-0.83	+	1.5	0.4/05.6	26915
1991 PT ₁₄	97 02 02.9	09 06.47	+15 54.3	17.0	-1.01	+	5.9	0.3/03.1	29135	1982 UD ₆	97 02 05.2	09 16.14	+15 07.3	16.8	-1.13	+	3.5	0.3/05.4	28839
1983 AA	97 02 02.9	09 06.79	-05 23.3	15.4	-1.61	-19.3	12.2/02.6	21969	1997 AU ₆	97 02 05.2	09 16.19	+16 58.2	16.7	-0.87	+	4.9	0.4/05.0	29122	
1995 SN ₃	97 02 03.0	09 06.91	+19 40.0	17.9	-1.13	+	3.3	1.1/02.4	28857	4122 T-3	97 02 05.3	09 16.17	+20 30.5	18.5	-0.99	+	5.9	2.1/04.1	29131
1981 EG ₃₉	97 02 03.0	09 07.14	+20 51.2	19.4	-0.84	+	2.7	1.2/02.1	29132	1997 CZ ₁₄	97 02 05.3	09 16.36	+20 32.1	19.1	-1.14	+	4.7	1.8/04.3	29128
1997 AD ₁₀	97 02 03.1	09 07.35	+15 17.4	18.9	-0.99	+	5.6	0.4/03.4	29123	(6733)	97 02 05.4	09 16.80	+05 12.9	15.9	-0.86	+	1.7	3.4/07.8	26160
1981 WF ₉	97 02 03.2	09 07.75	+06 37.2	18.0	-1.00	+	5.2	3.6/05.6	27726	1991 TE ₅	97 02 05.5	09 17.14	+35 54.0	16.5	-1.19	+	1.8	6.7/31.9	29135
1990 VQ ₆	97 02 03.3	09 08.13	+20 43.1	17.4	-0.83	+	6.3	1.3/02.2	29134	1995 VT ₁	97 02 05.6	09 17.34	+02 52.5	16.4	-0.79	+	3.0	3.7/08.8	26407
1993 LG ₂	97 02 03.3	09 08.16	+07 46.1	17.6	-0.75	+	3.9	2.3/05.5	28317	1987 DP ₆	97 02 05.6	09 17.36	+14 30.0	16.4	-0.82	+	6.2	0.4/06.0	29095
(6866)	97 02 03.3	09 08.33	+22 41.5	16.3	-0.83	+	6.4	1.9/01.7	26733	6626 P-L	97 02 05.6	09 17.48	+19 09.7	17.6	-1.10	+	4.0	1.4/04.9	28892
1994 LD ₁	97 02 03.4	09 08.46	+35 01.7	21.6	-0.93	+	2.1	4.1/30.0	24409	1991 UL ₄	97 02 05.6	09 17.74	+22 46.3	18.1	-0.99	+	5.0	2.5/04.0	29135
1988 SP	97 02 03.4	09 08.62	+19 04.6	16.3	-1.07	+	5.1	1.1/02.8	28884	1997 AR ₂₂	97 02 05.6	09 17.81	+25 40.2	17.3	-1.15	+	3.9	4.1/03.4	29126
1991 RD ₇	97 02 03.4	09 08.71	+37 33.2	17.6	-1.25	+	0												

1997 AM ₇	97 02 05.9	09 18.76	+17 03.1	16.5	-1.10	+	2.8	0.6/05.6	29123
1992 UP ₈	97 02 06.0	09 19.10	+14 22.0	17.2	-1.10	+	4.0	0.6/06.3	29136
(7452)	97 02 06.0	09 19.28	+16 56.6	17.6	-0.82	+	4.3	0.4/05.7	29077
1993 FO ₃₆	97 02 06.1	09 19.41	+05 59.8	17.5	-0.82	+	5.6	2.9/08.7	27936
1990 TO ₃	97 02 06.1	09 19.60	+13 39.1	17.3	-0.87	+	4.1	0.6/06.6	29134
1992 RH ₃	97 02 06.3	09 20.21	+13 36.0	19.3	-1.12	+	5.3	0.8/06.8	29100
1997 AP ₁₄	97 02 06.3	09 20.29	+15 16.9	17.8	-0.94	+	4.7	0.1/06.4	29124
1995 WV ₄₂	97 02 06.3	09 20.40	+25 18.1	17.3	-0.80	+	5.7	2.4/03.7	28890
1997 AJ ₇	97 02 06.4	09 20.99	+13 44.5	17.5	-1.02	+	4.0	0.8/06.9	29123
1981 EB ₂₇	97 02 06.5	09 21.25	+13 11.2	18.3	-0.92	+	6.0	0.9/07.2	29132
3247 T-3	97 02 06.6	09 21.43	+12 47.2	20.1	-1.00	+	5.5	0.9/07.3	29131
1987 SC ₁	97 02 06.6	09 21.73	+15 09.7	16.9	-0.97	+	6.9	0.1/06.8	29133
1995 SP ₃	97 02 06.6	09 21.77	+07 02.4	18.0	-1.07	+	4.2	3.0/08.6	27937
1997 AX ₁₇	97 02 06.6	09 21.83	+21 41.2	16.6	-1.16	+	5.4	2.7/05.2	29125
1986 VX ₅	97 02 06.7	09 21.86	+19 12.6	16.9	-0.90	+	5.7	1.2/05.7	28840
1992 YJ ₂	97 02 06.8	09 22.35	+24 49.8	17.2	-1.05	+	6.6	3.5/04.4	25975
1992 RM	97 02 06.8	09 22.47	+18 39.7	17.5	-1.15	+	4.5	1.2/06.1	29136
1324 T-2	97 02 06.8	09 22.58	+22 54.2	17.3	-1.10	+	4.1	2.8/05.1	29142
(7490)	97 02 07.0	09 22.98	+16 54.4	17.8	-1.08	+	3.7	0.7/06.7	29088
1993 FT ₃₃	97 02 07.0	09 23.22	+22 19.7	17.2	-0.92	+	4.1	2.2/05.3	29137
1995 WE ₁	97 02 07.0	09 23.40	+22 02.9	17.9	-0.85	+	4.2	2.0/05.3	29139
1990 WB ₄	97 02 07.1	09 23.33	+03 18.7	15.9	-0.87	+	1.7	4.1/09.9	29134
1964 VZ ₂	97 02 07.1	09 23.57	+19 43.5	16.2	-0.89	+	4.4	1.7/06.0	23967
(7208)	97 02 07.1	09 23.66	+17 35.7	16.1	-1.10	+	6.3	1.0/06.6	27906
1978 VN ₉	97 02 07.2	09 23.74	+19 28.4	18.3	-0.93	+	5.1	1.4/06.1	26755
1981 EJ ₄	97 02 07.2	09 23.96	+00 33.5	18.6	-0.77	+	4.1	4.3/11.1	26915
5124 T-3	97 02 07.3	09 24.33	+22 52.6	16.6	-1.00	+	8.0	3.2/05.2	29142
1981 SZ ₆	97 02 07.3	09 24.60	+18 34.1	17.4	-1.08	+	5.3	1.3/06.6	29132
1981 EQ ₃₈	97 02 07.4	09 24.61	-01 51.4	20.0	-0.84	+	8.3	6.7/12.4	26922
1990 QR	97 02 07.4	09 24.77	+04 59.4	16.7	-0.85	+	7.2	3.1/10.3	26189
1988 RV ₁	97 02 07.4	09 24.99	+22 16.0	16.9	-1.11	+	3.1	3.1/05.9	29133
1993 FN ₁₆	97 02 07.6	09 25.39	+16 15.5	16.9	-0.87	+	5.7	0.3/07.3	29103
1997 BG ₈	97 02 07.6	09 25.68	+15 53.4	16.6	-1.16	+	3.6	0.3/07.5	29127
1993 FN ₂₀	97 02 07.6	09 25.74	+13 09.5	17.5	-0.92	+	3.9	0.7/08.2	29137
1995 SW ₅₂	97 02 07.8	09 26.56	+07 33.6	17.1	-1.03	+	4.4	2.6/09.7	25967
1987 WO ₁	97 02 07.9	09 26.64	+03 50.4	17.0	-0.92	+	4.1	4.0/10.7	29133
3109 T-3	97 02 07.9	09 26.76	+15 19.7	17.5	-0.81	+	3.8	0.1/07.9	25443
1981 QQ ₂	97 02 07.9	09 26.82	+14 54.7	18.0	-1.01	+	7.1	0.0/08.0	22430
1981 WH	97 02 08.0	09 26.95	+15 25.4	16.6	-1.05	+	7.5	0.2/07.9	21968
1992 SS ₁₆	97 02 08.0	09 27.16	+13 56.7	18.4	-1.10	+	5.4	0.4/08.3	25730
1978 VE ₁₀	97 02 08.0	09 27.16	+17 33.2	19.3	-0.77	+	3.7	0.6/07.4	26578
1981 UM ₁₁	97 02 08.0	09 27.26	+11 37.9	17.6	-1.02	+	5.8	1.2/08.9	29132
1981 EW ₅	97 02 08.0	09 27.40	-06 24.8	17.5	-0.91	+	4.8	7.8/14.0	26915
1981 EQ ₃₀	97 02 08.2	09 28.06	+28 31.8	19.3	-1.05	+	2.4	3.9/05.1	27304
1995 PK	97 02 08.2	09 28.14	+16 04.6	17.2	-1.05	+	7.4	0.4/08.0	29138
(6796)	97 02 08.3	09 28.13	+07 43.0	16.9	-0.86	+	4.8	2.3/10.2	26390
1991 QF	97 02 08.3	09 28.13	+41 24.1	18.9	-1.25	+	2.8	8.3/01.9	29135
1991 VO ₇	97 02 08.3	09 28.30	+15 26.4	18.6	-0.91	+	5.5	0.2/08.2	26171
1987 QF ₃	97 02 08.3	09 28.32	+15 35.0	17.3	-0.96	+	6.6	0.2/08.2	29133
1993 FS ₂₇	97 02 08.3	09 28.38	+05 49.8	17.5	-0.86	+	4.8	2.9/10.7	26743
4096 T-2	97 02 08.4	09 28.59	+07 23.5	19.2	-0.76	+	5.8	2.1/10.5	23867

1251 T-1	97 02 08.4	09 28.73	+22 20.0	16.9	-0.92	+	2.0	2.2/06.7	29142
(6692)	97 02 08.4	09 28.78	+07 29.4	16.0	-0.84	+	8.0	3.3/10.6	26150
(6688)	97 02 08.4	09 28.90	+08 04.1	17.2	-0.80	+	4.4	2.0/10.3	26149
(6683)	97 02 08.5	09 29.09	+37 51.2	15.6	-1.02	+	2.2	7.5/02.6	26148
1993 CP ₁	97 02 08.5	09 29.24	+05 44.8	17.2	-0.86	+	9.2	3.3/11.0	29136
4886 T-1	97 02 08.6	09 29.55	+25 11.9	17.9	-1.07	+	4.0	3.5/06.1	29142
1993 PZ ₂	97 02 08.6	09 29.56	+08 31.7	18.6	-0.60	+	3.0	1.2/10.4	27936
1981 EO	97 02 08.6	09 29.65	+31 25.7	17.5	-1.27	+	0.1	6.1/05.1	27302
1994 PE ₁₀	97 02 08.6	09 29.73	+14 43.8	15.3	-0.80	+	4.7	0.0/08.7	25218
1981 EN ₂	97 02 08.7	09 29.73	+01 26.2	18.8	-0.83	+	2.3	4.6/12.0	22429
1995 UA ₇	97 02 08.7	09 29.91	+20 48.2	17.3	-1.05	+	6.2	2.0/07.2	29139
1995 UH ₄	97 02 08.9	09 30.66	+10 41.8	16.9	-0.90	+	1.5	1.3/09.9	29111
1980 TK ₆	97 02 08.9	09 30.77	+03 46.1	16.9	-0.96	+	5.0	4.0/11.8	21966
(6741)	97 02 09.0	09 31.17	+10 49.1	16.9	-1.00	+	6.7	1.3/10.1	26162
1222 T-1	97 02 09.0	09 31.20	+23 21.6	18.1	-1.11	+	2.1	2.8/07.1	29142
1995 WB ₇	97 02 09.1	09 31.46	+08 49.4	16.0	-0.92	+	1.4	1.7/10.5	29139
1981 EB ₂₁	97 02 09.2	09 31.99	+13 12.0	18.3	-0.85	+	3.3	0.5/09.6	21967
4529 P-L	97 02 09.2	09 32.00	+18 54.7	19.5	-0.81	+	3.1	1.1/08.2	22694
1981 EG ₄₆	97 02 09.4	09 32.52	+17 54.7	18.4	-1.06	+	2.9	1.3/08.6	26923
1981 EZ ₂₂	97 02 09.4	09 32.78	+16 58.1	18.3	-1.11	+	4.6	0.9/08.9	25734
(6716)	97 02 09.4	09 32.80	+11 47.8	16.4	-0.85	+	5.8	0.9/10.2	26156
1991 RA ₁	97 02 09.5	09 33.33	+15 28.8	17.6	-1.08	+	1.3	0.3/09.4	25974
1993 DM	97 02 09.5	09 33.34	+09 19.3	16.5	-0.97	+	3.2	2.0/10.8	26172
1341 T-2	97 02 09.6	09 33.67	+17 33.7	18.2	-0.96	+	3.7	1.1/08.9	26185
1981 EQ ₂₃	97 02 09.7	09 33.76	+09 36.6	18.5	-0.77	+	5.1	1.4/11.0	24226
1931 TD ₃	97 02 09.8	09 34.23	+28 01.0	17.3	-1.11	+	4.5	4.2/06.4	26393
1990 TA ₁₃	97 02 09.8	09 34.44	+31 07.2	16.7	-0.95	+	3.2	5.4/05.5	26579
1995 UP ₂	97 02 10.0	09 34.92	+30 13.1	17.5	-0.97	+	2.4	5.2/06.0	29139
1984 YN ₁	97 02 10.0	09 34.98	+19 15.0	17.3	-1.05	+	4.3	1.8/08.8	25973
1987 XC	97 02 10.0	09 35.04	+39 11.4	18.3	-1.12	+	4.0	7.2/03.3	28315
1993 ES	97 02 10.0	09 35.33	+28 02.5	16.5	-1.13	+	1.7	5.0/06.8	26190
1996 AO ₃	97 02 10.1	09 35.48	+08 03.0	16.7	-0.66	+	2.7	1.4/11.8	29139
1993 FB ₄₇	97 02 10.1	09 35.60	+17 34.6	18.3	-0.94	+	4.0	1.1/09.3	26402
1194 T-3	97 02 10.2	09 35.96	+12 31.8	17.8	-1.07	+	3.0	0.6/10.7	21978
1995 UE ₆	97 02 10.2	09 35.99	+15 31.6	16.9	-0.83	+	5.2	0.4/09.9	29139
1981 EL ₁₆	97 02 10.3	09 36.21	+17 11.1	18.5	-1.17	+	2.8	1.1/09.7	26918
1990 SY ₂	97 02 10.3	09 36.27	+17 13.5	16.3	-0.87	+	5.1	1.0/09.5	28885
1992 EE ₇	97 02 10.4	09 36.73	+17 35.3	17.0	-0.78	+	6.8	0.9/09.5	28847
(6776)	97 02 10.4	09 36.85	+22 37.6	16.3	-0.94	+	5.6	3.6/08.2	26386
(6751)	97 02 10.4	09 36.92	+07 30.6	17.5	-0.95	+	5.3	2.2/12.2	26164
1992 SR ₁	97 02 10.5	09 37.21	+07 44.7	16.2	-1.10	+	2.2	2.9/12.0	29136
1992 UM ₆	97 02 10.6	09 37.35	+11 45.9	16.0	-1.08	+	3.0	1.1/11.2	29136
1986 TR	97 02 10.6	09 37.53	+00 18.5	18.5	-0.86	+	3.6	3.7/14.3	27119
1101 T-1	97 02 10.7	09 37.85	+09 51.1	17.2	-0.93	+	3.5	1.6/11.8	23533
1994 QQ	97 02 10.7	09 37.90	+19 56.5	16.8	-0.97	+	1.7	1.9/09.4	29105
5174 T-3	97 02 10.8	09 38.11	+30 13.9	16.8	-0.86	+	5.6	4.5/06.0	26583
1992 YA ₁	97 02 10.9	09 38.74	+12 02.1	16.6	-1.01	+	6.3	0.8/11.5	29102
1992 YS	97 02 10.9	09 38.77	+17 37.8	17.2	-1.03	+	6.8	1.3/10.0	29136
1994 LK ₁	97 02 11.0	09 38.95	+19 30.2	15.9	-0.90	+	9.2	1.7/09.4	28853
1992 WC ₁	97 02 11.1	09 39.31	+07 13.1	17.8	-1.06	+	4.4	2.4/12.8	27914
1995 WA	97 02 11.1	09 39.56	-08 39.5	17.3	-0.87	+	3.9	7.1/17.3	26582

1981 JO	97 02 11.1	09 39.67	+03 35.6	17.6	-1.02	+	5.2	3.6/13.8	26418	1981 EO ₃₈	97 02 13.7	09 49.49	-00 17.5	19.4	-0.85	+	7.2	4.4/17.7	26922
1992 WY ₁	97 02 11.1	09 39.69	+18 00.1	16.2	-1.08	+	3.6	1.7/10.2	28887	1997 CX ₁₃	97 02 13.7	09 49.59	+17 14.3	19.5	-0.97	+	7.4	1.5/12.6	29128
1995 YA	97 02 11.2	09 39.98	+24 44.0	16.3	-0.86	+	4.9	3.3/08.3	29139	1995 TX	97 02 13.8	09 50.09	-06 35.5	16.5	-1.44	-	8.7	9.1/15.9	29110
1986 QZ ₂	97 02 11.3	09 40.48	+26 24.7	16.8	-1.09	+	2.9	4.3/08.3	28883	4261 T-2	97 02 13.8	09 50.16	+21 24.6	17.5	-0.95	+	4.5	2.9/11.6	24120
(7475)	97 02 11.4	09 40.65	+10 47.7	15.8	-0.95	+	8.3	1.4/12.3	29083	1994 JU	97 02 13.8	09 50.22	+03 47.1	18.2	-0.98	+	6.2	3.5/16.0	23791
1977 QK ₁	97 02 11.4	09 40.65	+15 08.4	17.3	-1.06	+	4.6	0.4/11.1	27725	2649 P-L	97 02 13.9	09 50.35	-00 01.9	16.8	-0.82	+	7.6	4.9/17.9	23680
1995 TF	97 02 11.5	09 41.09	+33 12.4	18.1	-1.16	+	1.3	6.4/07.0	29139	1981 EP ₂₁	97 02 13.9	09 50.44	+24 15.8	19.7	-1.14	+	2.3	3.9/11.2	26919
1985 PX	97 02 11.6	09 41.22	+13 06.1	17.3	-1.05	+	7.5	0.3/11.8	29094	1997 BS ₆	97 02 13.9	09 50.61	+17 56.9	16.3	-0.94	+10.4	2.2/12.5	29127	
1981 EQ ₂₉	97 02 11.6	09 41.27	+07 47.0	17.6	-0.78	+	3.8	1.7/13.2	26395	6703 P-L	97 02 14.0	09 50.80	+10 22.2	18.3	-0.87	+	6.2	0.9/14.8	29141
(6746)	97 02 11.6	09 41.31	-04 43.5	17.1	-0.92	+	2.6	5.8/16.2	26163	1987 JG	97 02 14.1	09 51.07	+02 34.2	17.0	-1.01	+	4.4	4.1/16.8	28883
1981 DS ₁	97 02 11.6	09 41.33	+06 44.7	17.9	-1.00	+	2.2	2.5/13.3	24580	5565 P-L	97 02 14.1	09 51.31	+24 10.9	17.5	-1.20	+	4.2	4.6/11.4	24585
1992 WC ₃	97 02 11.6	09 41.45	+22 16.5	17.0	-1.08	+	6.1	3.0/09.4	27730	(6782)	97 02 14.2	09 51.48	+09 40.7	16.2	-0.89	+	3.7	1.1/15.1	26387
1990 GN	97 02 11.6	09 41.65	+15 53.3	16.7	-1.01	+	4.0	1.0/11.2	18120	1995 UJ ₄	97 02 14.2	09 51.64	+31 19.2	15.3	-0.94	+	3.7	5.8/09.0	26180
1991 RM ₁₅	97 02 11.7	09 41.63	+13 01.8	18.3	-1.00	+	4.4	0.3/11.9	22084	1981 DL ₁	97 02 14.2	09 51.73	+11 54.2	18.8	-0.86	+	1.5	0.3/14.5	28882
1995 UC	97 02 11.7	09 41.75	+33 40.1	18.9	-1.15	+	0.8	6.9/07.1	26422	1981 EJ ₅	97 02 14.3	09 51.83	+07 32.8	17.8	-1.09	+	4.2	2.0/15.6	22074
4304 T-3	97 02 11.8	09 42.10	+16 55.9	17.4	-0.88	+	6.1	1.1/10.9	23534	1978 QE	97 02 14.3	09 52.06	-03 23.7	16.4	-0.84	+	1.6	4.5/18.5	26557
2806 P-L	97 02 11.8	09 42.35	+23 09.2	21.0	-1.06	+	3.4	3.1/09.6	25969	(7157)	97 02 14.4	09 52.24	+05 58.7	18.2	-1.04	+	5.4	2.4/16.2	27894
1981 EP ₂₃	97 02 12.0	09 42.82	+28 20.0	19.3	-1.03	+	0.6	4.6/08.5	26919	1990 OF	97 02 14.4	09 52.38	-04 46.5	18.6	-0.85	+	3.6	4.7/19.3	26579
9508 P-L	97 02 12.1	09 43.23	+16 28.3	16.3	-0.81	+	4.7	0.9/11.3	28892	1989 UN ₃	97 02 14.5	09 52.87	+12 34.2	17.9	-0.75	+	4.4	0.1/14.7	29134
1993 FZ ₅₇	97 02 12.1	09 43.43	+10 16.5	18.3	-0.89	+	4.8	1.1/13.1	29137	1990 CD	97 02 14.5	09 53.06	+06 11.9	15.5	-1.07	+	3.1	2.7/16.0	26168
1058 T-2	97 02 12.2	09 43.66	+06 08.4	17.4	-0.79	+	4.9	2.5/14.3	26761	1989 YE ₆	97 02 14.6	09 52.98	-00 50.4	17.0	-1.03	+	3.7	5.9/18.1	25956
1990 RD ₆	97 02 12.2	09 43.77	+20 50.9	17.7	-1.03	+	1.9	2.2/10.5	29097	1989 GN ₄	97 02 14.6	09 53.27	+08 08.4	17.2	-0.93	+	4.5	1.7/15.9	23972
2164 T-3	97 02 12.2	09 43.97	+01 19.5	17.8	-0.85	+	5.9	4.5/16.0	25971	1978 TL ₄	97 02 14.7	09 53.44	+29 09.7	17.1	-0.89	+	3.4	4.8/10.2	28882
1993 FS ₂₃	97 02 12.4	09 44.57	+13 58.8	18.0	-0.89	+	3.8	0.1/12.3	29137	1981 DR ₃	97 02 14.7	09 53.56	+03 49.9	18.6	-0.99	+	3.0	3.1/17.0	26914
9511 P-L	97 02 12.5	09 44.93	+13 10.8	17.5	-0.79	+	4.2	0.1/12.6	24764	1995 UB ₃₂	97 02 14.7	09 53.63	+16 05.6	20.0	-0.93	+	5.6	1.0/13.8	26570
1995 UH ₅	97 02 12.5	09 45.04	+22 40.3	17.2	-1.03	+	4.6	3.1/10.2	26192	2514 P-L	97 02 14.7	09 53.72	+26 07.0	20.7	-1.02	+	2.6	4.0/11.4	22700
1985 TN	97 02 12.6	09 45.35	+21 36.9	17.4	-1.13	+	4.1	3.2/10.7	27726	1997 CA ₁	97 02 14.8	09 54.12	+12 02.0	16.6	-1.12	+	2.2	0.3/15.0	29127
1981 EL ₃₇	97 02 12.7	09 45.75	-00 23.1	20.2	-0.73	+	4.6	3.6/16.7	26922	1995 VO ₁	97 02 14.8	09 54.20	+13 13.2	16.7	-0.82	+	5.1	0.1/14.8	28318
1990 DU ₄	97 02 12.7	09 45.92	+09 54.7	16.1	-0.96	+	6.4	1.6/13.8	29096	1994 TH ₂	97 02 14.9	09 54.38	+15 08.5	16.8	-0.77	+	4.5	0.6/14.3	28888
1995 RA	97 02 12.7	09 46.01	-02 51.8	17.4	-1.20	-	0.7	5.6/16.1	29108	1989 WG ₄	97 02 14.9	09 54.39	+20 20.6	16.3	-1.05	+	7.9	3.3/12.8	28884
1993 FV ₁₂	97 02 12.8	09 46.22	+05 22.0	18.4	-0.85	+	7.9	2.6/15.2	23523	1304 T-2	97 02 15.0	09 54.58	+11 05.7	17.6	-0.79	+	4.3	0.5/15.5	22087
(6702)	97 02 12.8	09 46.29	+09 55.4	16.6	-0.84	+	6.6	1.1/13.9	26153	(7450)	97 02 15.0	09 54.84	+58 57.6	16.4	-1.35	+	4.9	17.1/27.0	29077
1995 UC ₆	97 02 12.9	09 46.79	+12 32.8	16.5	-1.15	+	3.2	0.3/13.2	28889	1992 OZ ₉	97 02 15.0	09 54.89	+17 24.5	17.8	-0.62	+	3.2	0.9/13.7	23674
1995 QK	97 02 13.0	09 46.73	+07 45.1	18.9	-1.01	+	5.4	2.0/14.5	28856	1995 VK	97 02 15.1	09 55.29	+10 32.0	17.9	-0.94	+	5.6	0.7/15.8	26760
1981 UU ₁₁	97 02 13.0	09 46.79	+01 57.6	16.8	-0.82	+	6.2	3.8/16.4	25972	1981 EL ₈	97 02 15.1	09 55.39	+19 46.5	19.1	-1.05	-	1.0	2.5/13.7	26916
(6718)	97 02 13.0	09 46.95	+14 50.2	16.7	-0.85	+	4.0	0.4/12.7	26157	1990 QE ₆	97 02 15.2	09 55.73	+27 22.1	19.0	-1.09	+	1.2	4.2/11.7	17963
1990 GE	97 02 13.1	09 47.26	+20 46.5	17.0	-1.14	+	1.6	3.5/11.4	17963	1981 ER ₄₁	97 02 15.4	09 56.35	+38 29.5	20.0	-1.18	-	0.4	7.3/08.8	26922
1993 FZ ₂₀	97 02 13.1	09 47.50	+11 09.8	17.6	-0.88	+	5.5	0.9/13.8	23524	1981 EA ₁₅	97 02 15.5	09 56.46	+14 43.8	18.7	-0.88	+	1.8	0.7/15.0	26917
(6685)	97 02 13.2	09 47.49	+08 46.7	17.1	-1.03	+	6.4	1.7/14.4	26149	1995 QP	97 02 15.5	09 56.53	+17 12.0	18.1	-0.97	+	2.9	1.5/14.3	29139
1995 UF ₄₅	97 02 13.2	09 47.58	+16 56.9	16.6	-0.83	+	4.4	1.1/12.2	29111	1991 VU	97 02 15.5	09 56.72	+01 06.7	16.9	-0.90	+	4.6	3.8/18.7	23978
1981 EX ₉	97 02 13.2	09 47.59	+12 10.1	18.4	-0.85	+	2.2	0.3/13.5	24557	1995 TD	97 02 15.5	09 56.80	+05 40.1	18.3	-0.99	+	7.2	2.4/17.5	26178
1981 ED ₆	97 02 13.2	09 47.65	-03 59.5	20.3	-0.90	+	4.8	5.4/17.9	18417	1981 EP ₃₀	97 02 15.6	09 56.87	-01 02.8	17.5	-0.71	+	8.8	3.9/20.1	28839
1995 SM ₂₁	97 02 13.2	09 47.69	+19 00.8	18.7	-1.13	+	2.9	2.1/11.9	28858	1985 RW ₂	97 02 15.6	09 57.12	+14 39.5	17.5	-0.86	+	4.9	0.7/15.0	29133
1997 BX ₂	97 02 13.2	09 47.72	+20 33.8	17.7	-0.95	+	9.0	2.9/11.1	29127	1995 QU ₃	97 02 15.6	09 57.16	-09 44.6	18.2	-1.00	+	0.2	6.6/21.3	28318
1991 SE ₂	97 02 13.2	09 47.94	+11 45.2	18.3	-0.98	+	5.7	0.5/13.7	23517	1990 WM ₁	97 02 15.6	09 57.22	+13 47.6	18.3	-0.80	+	6.5	0.4/15.3	23860
1990 DL ₃	97 02 13.2	09 47.97	+19 03.1	16.5	-1.11	+	3.3	2.0/11.9	28614	(7140)	97 02 15.7	09 57.53	+19 54.5	17.3	-1.06	+	5.7	2.5/13.7	27705
1993 FF ₁₆	97 02 13.3	09 47.88	+22 22.9	16.9	-0.93	+	4.6	2.9/10.8	26173	1982 SO ₅	97 02 15.9	09 58.04	+13 54.8	19.5	-0.91	+	4.5	0.4/15.5	28883
1978 VP ₁₁	97 02 13.3	09 48.14	+16 44.5	17.6	-0.77	+	4.3	0.9/12.4	29132	1979 YQ	97 02 15.9	09 58.18	+25 57.4	16.5	-1.01	+	6.0	4.9/12.1	22073
(6811)	97 02 13.4	09 48.74	+10 36.1	18.6	-0.97	+	5.1	0.8/14.2	26549	1981 EF ₂₉	97 02 15.9	09 58.41	+12 31.3	19					

1981 EK ₁₅	97 02 16.1	09 58.97	+17 02.4	18.4	-0.93	+ 1.1	1.6/15.0	26918
1991 TF ₁₄	97 02 16.1	09 59.01	+20 52.9	17.1	-1.02	+ 3.6	3.3/13.9	25639
1995 UC ₈	97 02 16.2	09 59.51	+03 28.6	17.5	-0.76	+ 5.1	2.5/18.9	29111
1984 SE ₆	97 02 16.2	09 59.52	+15 41.9	17.3	-1.02	+ 4.6	1.1/15.4	26188
1988 RN ₃	97 02 16.3	09 59.60	+09 00.5	19.8	-0.98	+ 6.7	1.2/17.2	25955
2069 P-L	97 02 16.3	09 59.85	+07 50.2	18.9	-0.91	+ 4.8	1.6/17.6	23680
1992 UU ₂	97 02 16.5	10 00.49	+23 17.0	16.4	-1.10	+ 6.0	4.4/13.5	29136
1979 QP	97 02 16.5	10 00.58	+11 26.3	16.8	-0.84	+ 4.2	0.2/16.8	26755
1994 JG ₉	97 02 16.5	10 00.67	+17 30.8	18.7	-0.89	+ 6.4	1.5/15.0	25532
(7492)	97 02 16.6	10 00.93	+10 24.9	18.5	-0.98	+ 5.9	0.6/17.1	29088
1991 YU	97 02 16.7	10 01.30	+14 00.8	16.5	-0.82	+ 7.5	0.7/16.2	26741
1989 SA ₃	97 02 16.7	10 01.54	+24 24.5	16.9	-0.83	+ 4.1	3.7/13.2	26419
1990 TL ₇	97 02 16.8	10 01.59	+10 19.1	18.3	-0.83	+ 4.7	0.6/17.3	26560
1158 T-2	97 02 16.8	10 01.66	+09 05.2	18.7	-1.00	+ 5.8	1.2/17.7	20831
1993 BH ₈	97 02 16.8	10 01.68	+18 43.9	15.8	-0.94	+ 8.9	2.6/14.8	29102
1993 FO ₂₁	97 02 16.9	10 01.96	+17 11.9	17.7	-0.94	+ 3.5	1.7/15.5	29137
1992 UJ ₆	97 02 16.9	10 02.19	+02 22.5	17.6	-0.99	+ 7.2	3.6/19.8	29136
9565 P-L	97 02 16.9	10 02.33	+13 13.4	17.7	-0.99	+ 7.0	0.4/16.6	29129
1996 CC	97 02 17.1	10 02.77	+43 02.7	17.8	-1.12	+ 3.6	9.9/07.6	28890
1992 DC ₃	97 02 17.1	10 03.03	+11 16.3	17.2	-0.81	+ 5.1	0.2/17.4	29099
1991 RA ₆	97 02 17.1	10 03.10	+21 14.2	17.7	-1.05	+ 5.4	3.2/14.6	26420
1978 UL ₄	97 02 17.2	10 03.07	-06 53.4	18.1	-0.86	+ 6.1	6.0/23.1	20806
1989 SF	97 02 17.3	10 03.76	+11 30.2	15.5	-1.13	+ 3.7	0.2/17.5	29134
3487 T-3	97 02 17.4	10 03.91	+16 20.0	17.4	-0.93	+ 3.8	1.6/16.2	26186
(6790)	97 02 17.4	10 04.01	-02 51.8	17.0	-0.93	+ 6.7	5.0/21.7	26389
1991 NP ₂	97 02 17.4	10 04.12	+09 27.8	17.3	-1.07	+ 3.2	0.9/18.1	28614
7072 P-L	97 02 17.4	10 04.21	-21 17.0	17.4	-0.85	+14.6	15.2/03.6	22087
6063 P-L	97 02 17.5	10 04.38	+10 45.7	18.4	-1.10	+ 5.0	0.4/17.8	28892
1987 SE ₃	97 02 17.5	10 04.45	+18 39.5	16.5	-0.94	+ 6.2	2.6/15.6	29095
2168 T-1	97 02 17.7	10 05.01	+01 23.0	18.2	-0.89	+ 8.4	3.5/21.0	21951
1981 EL ₆	97 02 17.7	10 05.33	-03 53.1	19.5	-0.77	+ 3.9	4.7/22.3	26915
1992 EV ₁₃	97 02 17.8	10 05.40	+10 11.8	16.3	-0.82	+ 4.6	0.5/18.2	26580
1995 UJ ₈	97 02 17.8	10 05.49	-05 36.3	18.0	-0.75	+ 4.7	5.1/23.2	26423
1992 WS ₃	97 02 17.8	10 05.53	+10 45.5	15.7	-1.00	+ 3.8	0.5/18.1	29101
1991 NU ₃	97 02 18.0	10 06.15	+04 51.5	17.6	-1.00	+ 4.0	2.4/19.8	25730
2416 T-3	97 02 18.1	10 06.79	+09 13.9	14.8	-0.96	+ 4.7	1.1/18.8	27732
1991 RQ ₂₇	97 02 18.1	10 06.86	+16 05.8	18.6	-0.95	+ 6.1	1.4/16.9	26399
1982 JM ₁	97 02 18.2	10 06.99	+16 38.2	17.7	-0.80	+ 4.6	1.4/16.7	29132
2664 T-3	97 02 18.2	10 07.27	+13 38.4	18.5	-1.03	+ 4.2	0.9/17.7	25733
3163 T-3	97 02 18.3	10 07.48	+38 50.2	18.2	-1.03	+ 1.2	8.0/10.4	25437
6543 P-L	97 02 18.3	10 07.74	+14 19.3	17.7	-0.75	+ 4.2	0.7/17.6	29141
1995 PA	97 02 18.3	10 07.79	+17 33.7	19.9	-1.04	+ 5.5	2.1/16.7	25964
1991 RO ₂	97 02 18.4	10 07.80	+04 23.4	19.4	-0.91	+ 5.8	2.1/20.5	27120
1978 UV	97 02 18.6	10 08.52	+22 15.6	15.8	-1.01	+ 4.1	4.0/15.7	27930
4125 T-3	97 02 18.7	10 09.17	+25 22.9	19.8	-0.96	+ 3.6	3.9/14.9	27124
1981 EE ₄₇	97 02 18.8	10 09.35	+09 25.8	17.8	-0.89	+ 6.9	0.6/19.4	26899
1991 RQ ₁₉	97 02 18.8	10 09.57	+09 06.0	20.0	-0.96	+ 4.5	0.7/19.5	26399
1981 EW ₃₁	97 02 18.9	10 09.87	+06 37.1	18.6	-0.73	+ 6.4	1.3/20.4	28882
(7497)	97 02 18.9	10 10.02	+14 30.8	17.2	-0.99	+ 4.6	1.1/18.1	29089
1981 EB ₂₉	97 02 18.9	10 10.05	+00 42.0	18.6	-0.80	+ 9.0	4.3/22.5	26920
1310 T-2	97 02 19.0	10 10.02	+14 50.2	18.6	-1.02	+ 5.3	1.3/18.0	24410

1993 CJ ₁	97 02 19.0	10 10.26	+06 41.9	16.2	-0.79	+11.8	1.8/20.6	29136
1995 WH	97 02 19.1	10 10.52	+15 21.1	16.6	-0.83	+ 5.3	1.3/17.9	29111
1997 BO ₃	97 02 19.1	10 10.59	+17 25.5	16.5	-0.93	+ 5.8	2.4/17.4	29127
1989 TT ₂	97 02 19.1	10 10.61	+15 04.0	17.9	-0.75	+ 5.3	1.0/18.0	28884
1976 UG ₂	97 02 19.2	10 11.00	+10 58.5	18.2	-0.97	+ 4.7	0.1/19.3	29131
1994 PK ₃₈	97 02 19.2	10 11.01	+10 57.9	18.2	-0.82	+ 5.4	0.1/19.3	24571
1993 FX ₄₀	97 02 19.2	10 11.09	-00 08.2	17.7	-0.80	+ 8.7	3.8/22.9	24408
(6783)	97 02 19.4	10 11.54	+24 10.5	16.9	-0.96	+ 3.0	3.8/15.8	26387
1995 UR ₂	97 02 19.4	10 11.62	+04 58.5	18.9	-0.88	+ 4.3	1.8/21.2	29139
1994 EL ₁	97 02 19.4	10 11.68	+17 10.0	15.3	-1.03	+ 8.0	2.6/17.6	29104
1995 UK ₃	97 02 19.4	10 11.72	-12 47.9	16.0	-0.84	+ 3.3	8.1/26.7	29110
1990 XB	97 02 19.4	10 11.77	+27 44.4	15.8	-0.87	+ 4.6	5.2/14.4	20150
1982 UY ₆	97 02 19.4	10 11.89	+20 19.3	18.2	-0.92	+ 4.2	2.6/16.9	27931
2592 P-L	97 02 19.4	10 11.92	+07 10.9	17.5	-0.90	+ 7.2	1.5/20.7	21805
1979 QR ₁	97 02 19.5	10 11.96	+11 52.4	17.8	-0.85	+ 4.2	0.2/19.3	29132
4094 T-2	97 02 19.5	10 12.21	+11 51.1	19.5	-0.78	+ 4.8	0.2/19.3	29130
1981 EM ₈	97 02 19.5	10 12.26	+05 32.6	18.6	-0.75	+ 4.0	1.4/21.2	22429
(6727)	97 02 19.7	10 12.74	+14 57.2	16.8	-0.96	+ 4.4	1.3/18.6	26159
6193 P-L	97 02 19.7	10 12.85	-01 08.8	19.8	-0.81	+ 7.2	3.7/23.6	22701
1995 SA ₃	97 02 19.8	10 13.09	+00 11.3	17.2	-1.01	+ 5.2	3.7/22.8	26192
1992 GA ₄	97 02 19.8	10 13.27	+10 45.6	17.3	-0.76	+ 4.7	0.1/19.9	29100
1994 TX ₁₂	97 02 19.8	10 13.28	+11 27.5	18.5	-0.75	+ 4.0	0.1/19.7	29138
1995 SW ₂₅	97 02 19.8	10 13.37	+12 59.3	19.5	-0.94	+ 4.5	0.6/19.3	26178
1991 PG ₁₅	97 02 19.8	10 13.40	+13 01.8	18.3	-0.95	+ 5.6	0.6/19.3	29135
1981 EK ₂₆	97 02 19.8	10 13.51	+09 58.8	18.8	-0.91	+ 6.2	0.4/20.2	15880
1995 UL ₆	97 02 19.9	10 13.46	+11 34.0	18.7	-0.97	+ 4.7	0.2/19.7	29139
1995 UC ₇	97 02 19.9	10 13.48	+20 57.3	16.4	-0.98	+ 7.2	3.5/16.8	29139
1981 DT	97 02 20.1	10 14.40	+09 51.1	17.3	-0.95	+ 0.2	0.3/20.4	29093
1995 QO	97 02 20.2	10 14.83	+14 35.4	20.3	-0.95	+ 3.1	1.1/19.3	26176
1981 ES ₃₃	97 02 20.2	10 14.87	+08 38.5	19.0	-0.95	+ 3.5	0.7/20.9	22697
1997 CK ₁₂	97 02 20.2	10 14.90	+11 29.5	18.9	-1.00	+ 4.5	0.3/20.1	29128
1994 PB ₂₆	97 02 20.3	10 15.23	+14 30.1	17.4	-0.77	+ 5.4	1.2/19.2	25219
1995 SG	97 02 20.3	10 15.27	+08 31.7	18.8	-0.93	+ 5.3	0.8/21.0	29108
(6745)	97 02 20.4	10 15.41	+15 48.3	16.5	-0.96	+ 9.6	2.2/18.8	26163
1978 NS	97 02 20.4	10 15.44	+11 28.1	19.4	-0.77	+ 4.4	0.2/20.2	29131
1991 VU ₄	97 02 20.4	10 15.52	+13 05.3	17.9	-0.90	+ 6.1	0.7/19.8	29135
(6763)	97 02 20.4	10 15.57	-06 26.0	18.1	-0.84	+ 3.9	4.7/25.5	26383
1991 PX ₁₄	97 02 20.4	10 15.79	+02 01.2	18.2	-0.97	+ 4.8	3.0/22.9	20822
1995 UN ₄	97 02 20.4	10 15.83	+01 59.2	17.5	-0.91	+ 5.2	2.8/23.0	26760
1981 EE ₂₂	97 02 20.5	10 15.81	+16 24.0	18.3	-0.85	+ 3.3	1.9/18.9	22271
1988 PG ₂	97 02 20.7	10 16.54	+12 23.5	18.6	-1.00	+ 6.8	0.6/20.2	29133
1986 TR ₂	97 02 20.7	10 16.74	+27 10.3	16.7	-0.97	+ 4.5	5.7/16.0	26188
1995 SP ₂	97 02 20.7	10 16.81	+22 44.4	19.0	-1.00	+ 6.1	4.0/17.2	29109
1995 WY ₆	97 02 20.7	10 16.92	+28 16.1	16.0	-0.89	+ 4.1	5.4/15.4	29112
3045 P-L	97 02 20.7	10 16.97	+10 54.5	17.0	-0.99	+ 2.0	7.7/01.0	29141
1978 SC ₇	97 02 20.8	10 16.98	+23 23.9	17.0	-1.12	+ 0.7	4.7/17.8	22073
1995 SX ₂₉	97 02 20.8	10 16.99	+27 56.2	17.3	-0.96	+ 5.8	5.3/15.6	26582
1979 MV ₈	97 02 20.8	10 17.31	+11 12.2	19.9	-0.93	+ 7.4	0.2/20.7	29092
4517 P-L	97 02 20.8	10 17.33	+17 58.3	17.1	-1.08	+ 4.0	2.5/18.9	27732
2166 T-1	97 02 20.9	10 17.50	+18 38.6	17.4	-1.14	+ 4.3	3.1/18.8	25436
1995 SR ₃	97 02 20.9	10 17.54	+09 55.9	17.3	-1.08	+ 3.8	9.1/13.0	29109

1991 UV ₂	97 02 20.9	10 17.56	+31 28.2	17.4	-1.04	+ 4.1	6.4/15.0	28615	4219 T-3	97 02 23.0	10 25.74	+13 05.3	20.6	-0.97	+ 6.4	1.1/22.1	26187
1981 EN ₃₀	97 02 21.0	10 17.86	+13 26.6	18.0	-0.76	+ 4.3	0.7/20.2	26920	1992 SQ	97 02 23.2	10 26.15	+04 36.4	17.4	-1.05	+ 5.5	2.0/24.7	26190
1985 PA ₁	97 02 21.1	10 18.07	+06 32.2	17.3	-0.83	+ 7.4	1.2/22.4	28612	(6839)	97 02 23.2	10 26.31	+08 15.7	15.8	-0.82	+ 4.7	0.5/23.7	26555
1992 CP ₂	97 02 21.1	10 18.17	+03 49.5	17.3	-0.81	+ 6.1	2.2/23.2	26421	1981 EM ₅	97 02 23.3	10 26.55	-02 08.5	18.7	-0.80	+ 3.3	3.7/26.8	22429
2771 P-L	97 02 21.1	10 18.35	+17 27.4	16.9	-0.80	+ 3.8	2.0/19.1	28619	1988 ST ₂	97 02 23.4	10 26.90	+12 55.2	17.7	-0.75	+ 4.4	0.8/22.4	19864
1988 XR	97 02 21.2	10 18.50	+08 43.8	17.6	-0.99	+ 5.8	0.7/21.7	23684	1984 SZ ₅	97 02 23.4	10 27.18	+18 57.6	18.0	-1.13	+ 4.0	3.3/20.9	21969
1995 WM ₅	97 02 21.3	10 18.82	+10 48.8	17.9	-0.80	+ 4.2	0.1/21.2	29112	1981 EL ₁₈	97 02 23.4	10 27.25	+04 45.4	17.9	-0.90	+ 6.0	1.9/25.0	26578
1990 TT ₁₀	97 02 21.3	10 19.06	+12 45.5	19.2	-0.87	+ 4.0	0.7/20.7	24389	1995 WM ₃	97 02 23.5	10 27.21	+12 08.1	19.3	-0.90	+ 5.2	0.8/22.8	29112
(7481)	97 02 21.3	10 19.10	+03 08.9	15.6	-0.74	+ 8.5	2.4/23.8	29085	1981 EZ ₁₉	97 02 23.5	10 27.28	+10 31.3	19.4	-0.95	+ 4.2	0.3/23.3	29094
1995 SG ₄	97 02 21.4	10 19.27	-04 34.6	19.4	-1.19	+ 0.1	5.1/24.8	26405	1991 TW ₈	97 02 23.5	10 27.41	+17 12.3	18.1	-1.07	+ 4.2	3.1/21.4	26420
1995 UK ₄	97 02 21.4	10 19.56	+25 39.1	17.2	-0.90	+ 3.4	4.8/17.0	28618	3434 T-3	97 02 23.6	10 27.58	+05 23.1	19.0	-0.85	+ 5.9	1.6/24.9	27929
1984 BS	97 02 21.4	10 19.58	+18 42.2	15.7	-1.03	+ 8.4	3.5/18.9	18424	(6885)	97 02 23.6	10 27.60	+15 08.7	18.1	-0.89	+ 5.7	1.8/21.9	26737
1981 EC ₁₀	97 02 21.4	10 19.63	+01 15.2	18.8	-0.76	+ 5.3	2.8/24.3	24238	1981 EZ ₂₉	97 02 23.6	10 27.78	+12 00.6	19.0	-1.13	+ 4.4	1.0/23.0	26920
2058 P-L	97 02 21.5	10 19.58	+07 22.1	17.0	-0.89	+ 4.6	1.0/22.4	25435	1989 SV ₂	97 02 23.6	10 27.90	+25 35.9	17.3	-0.88	+ 3.4	4.9/18.9	26419
1978 TT ₈	97 02 21.5	10 19.75	+18 08.8	17.7	-0.90	+ 4.8	2.2/19.3	26394	1991 AJ	97 02 23.7	10 28.02	+20 57.8	15.8	-0.75	+ 7.0	3.7/19.9	29134
1992 AM ₃	97 02 21.5	10 19.77	-06 55.5	17.2	-0.99	+ 1.0	6.1/26.1	28886	1981 EA ₆	97 02 23.8	10 28.79	+00 07.4	18.6	-0.77	+ 4.0	2.7/26.7	26915
1980 TE ₇	97 02 21.6	10 20.05	+03 07.0	17.5	-0.91	+ 7.1	2.3/23.8	27118	1985 RR ₄	97 02 23.9	10 28.84	+03 52.1	18.6	-0.78	+ 6.6	1.6/25.7	23788
1992 WV ₃	97 02 21.6	10 20.20	+17 03.5	16.1	-1.09	+ 3.5	2.7/19.9	28887	1995 WJ	97 02 24.0	10 29.25	+18 12.0	18.3	-0.90	+ 5.1	2.5/21.4	26407
1989 SU ₃	97 02 21.6	10 20.36	+02 22.2	16.7	-0.73	+ 6.8	2.4/24.3	27933	1994 OC	97 02 24.0	10 29.26	+05 04.0	16.1	-0.86	+ 2.1	1.3/25.2	29138
(6794)	97 02 21.7	10 20.70	+34 23.8	15.9	-0.97	+ 2.3	6.8/14.8	26390	1995 VL	97 02 24.2	10 30.16	+29 15.4	18.6	-0.97	+ 4.4	5.9/18.2	26423
5447 T-2	97 02 21.8	10 20.77	+05 21.0	18.1	-1.08	+ 3.0	1.8/23.1	16589	1993 FT ₁₄	97 02 24.3	10 30.24	+13 56.7	15.4	-0.80	+ 8.4	2.0/22.8	29137
1981 EM ₂₈	97 02 21.8	10 20.83	+29 58.7	20.0	-1.07	+ 0.3	5.4/16.6	26920	(6686)	97 02 24.3	10 30.65	+09 00.1	16.6	-0.80	+ 5.4	0.1/24.5	26149
1990 KF	97 02 21.8	10 21.12	+13 15.3	17.2	-0.86	+ 7.9	0.9/20.9	29096	1996 VN ₆	97 02 24.4	10 30.87	+14 54.6	17.4	-1.08	+ 1.4	1.8/23.1	29117
1984 MR	97 02 21.8	10 21.17	+11 26.8	16.8	-0.95	+ 8.3	0.4/21.5	29133	1969 TT ₁	97 02 24.4	10 30.97	+12 29.8	17.4	-0.99	+ 5.1	1.1/23.6	25646
1981 EV ₁₄	97 02 21.9	10 21.17	+06 04.3	18.4	-0.82	+ 3.3	1.4/23.1	26917	(6836)	97 02 24.4	10 31.00	+07 50.8	16.8	-0.82	+ 4.7	0.4/24.9	26555
1995 PQ	97 02 21.9	10 21.32	+21 24.6	19.1	-0.89	+ 7.6	3.2/18.4	29107	1989 SX ₂	97 02 24.4	10 31.03	+17 57.1	16.3	-0.77	+ 5.9	2.8/21.7	28842
1995 PB	97 02 21.9	10 21.53	+02 06.3	17.2	-0.79	+ 7.8	2.9/24.6	29106	1994 PO	97 02 24.5	10 31.28	+01 20.7	15.9	-1.07	- 0.3	3.2/26.4	29105
1980 FJ ₁	97 02 22.0	10 21.49	+19 27.2	17.3	-0.86	+ 1.6	2.3/19.5	24116	1977 QD ₃	97 02 24.6	10 31.62	+18 13.1	18.2	-0.94	+ 3.3	2.5/22.1	28313
(6803)	97 02 22.0	10 21.93	+22 26.4	17.8	-0.89	+ 5.0	3.5/18.4	27696	(7318)	97 02 24.6	10 31.78	+16 51.7	16.3	-0.84	+ 8.3	2.2/22.2	28566
1981 TK	97 02 22.2	10 22.55	+39 58.4	18.0	-1.62	- 4.0	11.6/16.7	6951	2113 P-L	97 02 24.6	10 31.79	+03 55.5	18.7	-0.86	+ 5.6	1.7/26.3	23539
1982 BU	97 02 22.2	10 22.64	+48 29.7	16.1	-1.04	+11.0	15.4/06.0	22223	1995 UR ₁	97 02 24.8	10 32.19	+32 39.8	17.8	-1.09	+ 2.0	7.4/18.1	29139
1995 ST ₄	97 02 22.2	10 22.64	+10 13.3	16.5	-0.93	+ 8.0	0.0/22.3	25966	1995 SL	97 02 24.9	10 32.56	+05 08.4	17.7	-1.00	+ 3.7	1.5/26.0	29139
1983 CA ₁	97 02 22.2	10 22.65	+11 09.6	15.6	-0.96	+ 1.3	0.4/22.0	29132	1993 EP	97 02 24.9	10 32.87	+13 19.8	15.5	-1.13	- 1.1	1.8/24.0	29136
2137 T-2	97 02 22.2	10 22.69	+07 46.6	19.1	-1.05	+ 6.4	0.9/23.0	22701	(6693)	97 02 25.0	10 32.97	+03 37.1	17.7	-1.04	+ 3.5	1.8/26.5	26151
1981 EB ₃₂	97 02 22.3	10 22.92	-02 57.6	19.3	-0.78	+ 3.8	4.0/26.2	26921	1991 PX ₁₇	97 02 25.0	10 33.03	+14 13.8	16.4	-1.09	+ 3.5	1.9/23.7	29098
2232 T-2	97 02 22.3	10 23.04	+07 42.8	17.7	-0.94	+ 6.9	0.8/23.1	23686	1981 EF ₃₇	97 02 25.0	10 33.23	+21 20.4	16.9	-1.11	+ 1.5	4.1/21.9	28611
1989 SY ₁	97 02 22.4	10 23.15	+12 58.6	18.6	-0.77	+ 4.8	0.8/21.5	26167	1994 GA ₁	97 02 25.0	10 33.26	+17 08.3	16.7	-1.04	+ 6.8	3.0/22.6	29104
(6706)	97 02 22.4	10 23.24	+10 25.6	17.2	-1.01	+ 5.1	0.1/22.3	26154	1995 SL ₃₅	97 02 25.2	10 34.10	+38 22.2	18.3	-1.33	- 1.7	10.5/17.9	26178
1989 AD	97 02 22.4	10 23.30	+15 21.9	15.8	-1.10	+ 3.1	2.1/21.1	22080	1985 RU ₂	97 02 25.3	10 34.17	+12 10.5	17.4	-1.07	+ 5.2	1.2/24.4	29133
1989 UP ₄	97 02 22.4	10 23.34	+10 38.3	17.4	-0.77	+ 4.2	0.2/22.3	26560	1990 OO ₂	97 02 25.3	10 34.35	+05 50.8	16.5	-1.02	+ 1.5	1.0/26.2	26189
1990 VK ₁	97 02 22.4	10 23.46	+13 42.3	16.9	-0.84	+ 4.2	1.1/21.4	26757	1994 PC ₇	97 02 25.4	10 34.58	+11 46.7	16.2	-0.78	+ 8.9	1.0/24.5	29105
1988 RD	97 02 22.5	10 23.61	+37 01.9	16.2	-1.52	- 2.9	10.0/17.2	23536	1982 VU ₂	97 02 25.5	10 34.78	+32 40.4	16.5	-1.04	+ 4.1	7.8/17.9	26418
1992 VN	97 02 22.5	10 23.76	-03 58.9	16.9	-1.03	+ 4.8	5.6/26.6	28849	1992 YB	97 02 25.5	10 35.02	+11 33.0	16.9	-0.93	+ 8.5	1.0/24.7	29101
1981 EQ ₂₀	97 02 22.5	10 23.78	+08 27.2	18.6	-0.90	+ 6.0	0.5/23.0	26918	4004 P-L	97 02 25.5	10 35.04	+09 48.3	17.4	-0.94	+ 3.5	0.3/25.3	23539
1995 UK ₄₄	97 02 22.6	10 23.79	+00 22.1	18.0	-0.97	+ 5.1	3.3/25.4	26406	1251 T-2	97 02 25.5	10 35.07	+09 05.7	16.9	-0.79	+ 5.2	0.1/25.5	22701
3024 T-2	97 02 22.6	10 23.92	+34 47.7	18.8	-1.30	- 1.8	8.8/16.8	29142	1992 UT ₃	97 02 25.6	10 35.16	+20 59.0	16.1	-1.06	+ 4.8	5.1/22.1	29136
1992 UH ₆	97 02 22.6	10 23.97	+20 47.1	16.5	-1.08	+ 5.7	3.8/19.6	29136	1995 UB ₉	97 02 25.6	10 35.37	+17 00.9	16.6	-1.04	+ 5.8	2.8/23.3	26182
5485 T-2	97 02 22.8	10 24.95	+03 32.3	16.8	-1.02	+ 3.5	2.5/24.6	25652	1981 ER ₁₂	97 02 25.6	10 35.41	+09 52.7	18.3	-0.90	+ 1.5	0.3/25.4	26917
(6705)	97 02 22.9	10 25.09	+08 36.9	16.4	-1.02	+ 6.7	0.5/23.3	26154	1985 RA ₄	97 02 25.7	10 35.73	+11 38.9	17.9	-0.92	+ 3.2	0.9/25.0	29133
1989 SO	97 02 22.9	10 25.19	+02 27.7	16.6	-0.76	+ 4.2	2.1/25.2	26419	2712 P-L	97 02 25.8	10 35.94	+12 22.8	17.4	-0.87	+ 6.0	1.2/24.7	23531
1981 UL ₂₉	97 02 22.9	10 25.22	-07 48.3	19.4	-0.79	+ 5.8	4.8/28.6	23970	1981 DN ₁	97 02 26.0	10 36.93	+00 13.5	17.8	-0.95	+ 3.2	2.6/28.4	26914

1979 MM ₈	97 02 26.0	10 36.95	+06 36.5	18.1	-0.90	+ 6.6	0.7/26.7	29132
1995 VM	97 02 26.0	10 37.02	+34 21.0	16.7	-1.05	+ 4.3	9.0/17.5	26423
1995 TB ₁	97 02 26.0	10 37.10	+11 43.3	16.7	-0.90	+ 6.7	1.0/25.2	29139
1995 WL ₇	97 02 26.1	10 37.48	+18 22.1	17.0	-0.84	+ 5.2	2.8/23.2	27731
1993 LE	97 02 26.2	10 37.48	+16 17.5	16.3	-0.75	+ 7.4	2.2/23.6	29103
(7043)	97 02 26.4	10 38.25	+07 34.5	15.8	-0.98	+ 8.4	0.4/26.7	27434
1992 ED ₈	97 02 26.4	10 38.53	+08 45.9	17.0	-0.83	+ 4.4	0.1/26.4	25650
1992 EQ ₂₇	97 02 26.5	10 38.56	+08 07.5	17.6	-0.79	+ 5.3	0.1/26.6	27729
1978 VG ₁₁	97 02 26.5	10 38.72	+19 21.7	18.8	-0.92	+ 4.9	3.3/23.3	26187
2560 P-L	97 02 26.5	10 38.77	+07 48.1	18.1	-0.81	+ 5.1	0.2/26.8	24764
1981 EM ₁₇	97 02 26.5	10 38.98	+00 59.0	17.9	-0.85	+ 6.4	2.2/29.0	28314
1997 CY ₂	97 02 26.6	10 39.20	+12 27.7	16.7	-0.77	+ 5.9	1.4/25.4	29127
4019 T-3	97 02 26.7	10 39.36	+07 27.5	17.5	-0.83	+ 6.4	0.3/27.0	29142
1988 PV ₁	97 02 26.7	10 39.36	+02 22.6	17.9	-1.02	+ 4.9	2.2/28.5	22079
1991 UZ	97 02 26.7	10 39.49	+06 53.8	16.8	-0.87	+ 7.0	0.5/27.2	26190
1990 RD ₅	97 02 26.7	10 39.50	+01 33.7	16.8	-0.84	+ 5.2	2.3/28.9	23974
1988 BC	97 02 26.7	10 39.66	+32 27.0	15.1	-0.86	+ 5.7	10.2/18.3	29133
1979 XJ	97 02 26.8	10 39.69	+16 20.3	17.6	-1.03	+ 7.2	2.7/24.4	29132
1991 XH	97 02 26.8	10 39.75	+17 03.6	17.1	-0.85	+ 8.7	2.6/23.9	25974
1992 UU ₅	97 02 26.9	10 40.42	+14 33.8	17.0	-1.05	+ 5.9	2.5/25.2	28300
(6777)	97 02 26.9	10 40.52	+10 31.7	17.3	-0.76	+ 5.0	0.6/26.3	26386
1981 ER ₃₂	97 02 27.0	10 40.62	+06 04.3	19.1	-0.76	+ 8.5	0.7/27.8	26921
1995 UP ₃	97 02 27.0	10 40.65	+12 09.3	17.5	-1.02	+ 4.7	1.3/26.0	25968
1995 TS	97 02 27.0	10 40.91	+08 40.0	17.6	-0.94	+ 5.5	0.1/27.0	26582
1988 RW ₃	97 02 27.3	10 41.63	+10 01.4	18.9	-0.75	+ 4.2	0.4/26.8	21972
(6708)	97 02 27.3	10 41.65	+21 08.0	16.8	-0.93	+ 8.1	4.1/23.0	26154
1990 OH	97 02 27.4	10 42.05	-08 00.7	18.6	-0.80	+ 5.9	4.2/04.7	26579
1993 FS ₂₄	97 02 27.4	10 42.28	+10 18.4	17.4	-0.95	+ 3.5	0.8/26.9	29137
1042 T-2	97 02 27.4	10 42.30	+05 39.1	18.0	-0.86	+ 5.5	0.8/28.3	28320
1993 FT ₁₁	97 02 27.6	10 43.00	+24 18.7	16.4	-1.04	+ 2.0	5.2/23.2	26564
1981 EH ₃₃	97 02 27.7	10 43.19	+00 16.3	19.0	-0.72	+ 6.5	2.2/02.3	26921
1994 GM ₁	97 02 27.7	10 43.50	+15 38.4	17.4	-0.99	+ 6.5	2.7/25.5	26191
1981 UW ₂₁	97 02 27.8	10 43.48	+12 52.3	15.9	-0.82	+ 6.4	1.5/26.3	28883
1981 EU ₁₈	97 02 27.8	10 43.57	+08 23.3	18.0	-0.77	+ 4.7	0.1/27.7	26578
1989 GR ₃	97 02 27.8	10 43.83	+01 23.5	17.4	-0.93	+ 5.1	2.3/01.8	17443
1992 FZ	97 02 27.9	10 44.12	+12 20.3	15.6	-0.88	+ 2.0	1.4/26.8	29100
4172 T-1	97 02 28.0	10 44.25	+09 31.4	18.1	-0.95	+ 6.5	0.6/27.5	26185
4606 P-L	97 02 28.0	10 44.48	+11 40.4	17.2	-1.01	+ 5.8	1.4/27.0	29141
1981 EA ₂₇	97 02 28.2	10 45.32	+10 41.9	18.2	-0.80	+ 5.0	1.0/27.4	26920
1993 FX ₃₇	97 02 28.2	10 45.40	+12 07.2	16.4	-0.88	+ 4.9	1.3/27.0	23527
1982 RK	97 02 28.3	10 45.70	+14 51.0	16.2	-1.02	+ 7.4	2.7/26.2	23682
3306 T-2	97 02 28.4	10 45.78	+15 25.0	18.5	-1.11	+ 4.8	3.2/26.3	24585
1989 AZ ₅	97 02 28.4	10 46.07	+14 20.6	15.3	-0.88	+ 7.0	2.7/26.4	14954
4764 P-L	97 02 28.5	10 46.46	+08 17.4	17.6	-0.80	+ 5.7	0.2/28.4	24757
1995 WO ₈	97 02 28.6	10 46.51	+13 38.3	14.8	-0.69	+10.8	2.0/26.4	29139
1973 QG ₂	97 02 28.6	10 46.56	+11 45.7	17.9	-0.78	+ 4.4	1.1/27.4	29131
(7188)	97 02 28.6	10 46.64	+15 02.7	16.9	-1.08	+ 5.9	2.8/26.5	27901
1981 JB ₂	97 02 28.7	10 47.09	+26 46.5	16.2	-0.87	+ 3.0	5.5/22.8	28882
1991 PP ₁₆	97 02 28.7	10 47.28	+09 01.0	17.0	-0.91	+ 7.4	0.4/28.4	28886
1990 QO ₆	97 02 28.8	10 47.23	+08 36.5	18.7	-0.80	+ 8.5	0.3/28.5	22273
2740 P-L	97 02 28.8	10 47.56	+06 53.2	19.0	-0.83	+ 7.1	0.3/01.1	22700

1991 YT	97 02 28.8	10 47.63	-11 09.2	17.7	-0.89	+ 4.0	6.0/06.8	27445
1991 NV ₁	97 02 28.9	10 47.92	-03 12.2	16.9	-0.95	+ 5.6	3.9/04.3	28886
(7405)	97 03 01.0	10 48.34	+22 25.9	15.9	-0.89	+ 6.0	4.9/24.2	28827
1994 PJ ₁₃	97 03 01.0	10 48.38	+07 37.8	18.2	-0.73	+ 4.7	0.0/01.1	25219
1978 RC ₉	97 03 01.1	10 48.61	+07 18.2	18.0	-1.07	+ 4.8	0.1/01.2	26418
1981 EB ₁₄	97 03 01.1	10 48.64	-01 25.7	18.9	-0.77	+ 4.7	2.7/04.0	26917
1980 DN	97 03 01.2	10 48.78	+14 05.4	16.0	-0.73	+ 7.0	2.1/27.0	29092
1992 EQ ₁₁	97 03 01.2	10 48.93	+10 11.0	17.0	-0.80	+ 4.6	0.7/28.4	26190
1994 RB ₁₇	97 03 01.2	10 49.01	+08 06.6	17.6	-0.79	+ 5.6	0.2/01.1	27937
(6772)	97 03 01.2	10 49.02	-08 05.8	17.0	-0.95	+ 2.7	5.0/05.8	26385
(6715)	97 03 01.2	10 49.02	+09 46.1	16.7	-0.91	+ 4.2	0.8/28.6	26156
1989 FG	97 03 01.2	10 49.09	+14 36.3	15.6	-0.93	+ 4.7	2.9/27.2	29134
4134 T-3	97 03 01.3	10 49.35	+13 39.3	18.1	-0.89	+ 5.2	2.0/27.5	12802
1991 PU ₁₆	97 03 01.4	10 49.49	+11 11.2	17.9	-0.99	+ 5.0	1.3/28.3	27120
1981 EC ₅	97 03 01.4	10 49.83	-03 26.1	18.8	-1.05	+ 4.9	4.3/04.6	26915
(6744)	97 03 01.5	10 49.84	+19 18.1	16.8	-1.05	+ 7.3	4.5/25.7	26163
1995 US ₈	97 03 01.5	10 49.92	+28 42.5	16.1	-1.05	+ 5.3	7.6/22.6	26406
1993 FX ₃₁	97 03 01.8	10 51.02	+11 56.3	17.0	-0.85	+ 5.9	1.4/28.4	26173
1995 YP ₂	97 03 01.8	10 51.35	+23 42.8	17.2	-0.82	+ 5.1	4.6/24.5	27123
4035 P-L	97 03 01.8	10 51.40	+02 29.0	18.5	-0.74	+ 4.1	1.2/03.4	25435
1989 SM ₄	97 03 01.9	10 51.35	+10 17.2	18.7	-0.76	+ 5.0	0.8/28.9	24562
1994 NR ₁	97 03 01.9	10 51.64	+15 46.7	15.9	-0.77	+ 8.0	2.7/27.0	29105
1995 UY ₄₀	97 03 02.0	10 51.84	+00 19.6	20.2	-0.92	+ 6.5	2.3/04.2	27110
2075 T-2	97 03 02.0	10 51.94	+03 35.8	18.1	-0.95	+ 7.9	1.4/03.0	26577
6636 P-L	97 03 02.0	10 51.97	+11 35.2	17.3	-0.81	+ 5.8	1.4/28.7	29129
1981 DO	97 03 02.0	10 52.00	-10 34.7	18.6	-0.84	+ 7.2	6.2/08.0	26914
1991 LF ₁	97 03 02.1	10 52.16	+14 39.2	18.0	-1.01	+ 6.4	2.6/27.8	25974
1981 EX ₈	97 03 02.1	10 52.41	+02 42.6	18.7	-0.92	+ 4.7	1.5/03.5	26916
(7394)	97 03 02.2	10 52.72	+04 17.2	16.8	-0.59	+ 5.0	0.6/03.2	28824
1994 JT	97 03 02.3	10 52.84	+05 22.6	17.7	-0.89	+10.1	0.7/02.9	26191
1995 US ₄	97 03 02.3	10 52.94	+17 39.3	18.1	-1.05	+ 5.7	3.6/27.1	26423
1990 QC ₁₉	97 03 02.3	10 53.09	-25 18.6	16.8	-1.64	- 6.2	15.6/08.7	20148
1981 EM ₃₇	97 03 02.3	10 53.10	+01 47.4	19.0	-1.04	+ 6.2	2.0/03.9	27909
9544 P-L	97 03 02.3	10 53.18	+06 45.3	18.1	-0.89	+ 7.5	0.1/02.5	20516
(7417)	97 03 02.3	10 53.23	+10 04.4	16.5	-0.79	+ 5.0	1.0/01.4	28830
(6743)	97 03 02.4	10 53.25	+22 04.9	16.5	-1.10	+ 6.5	5.7/25.6	26162
1995 UZ ₈	97 03 02.4	10 53.40	+15 14.5	16.8	-0.90	+ 2.2	2.7/28.1	28618
1993 FD ₅₁	97 03 02.5	10 53.86	+06 13.8	17.7	-0.86	+ 5.2	7.5/23.0	26421
1981 EW ₂₂	97 03 02.5	10 53.96	+04 35.1	18.4	-0.77	+ 6.3	0.9/03.4	26919
1982 UU ₅	97 03 02.5	10 53.97	+00 21.0	16.7	-0.89	+ 4.8	2.2/04.6	26418
(6812)	97 03 02.6	10 54.13	+06 27.7	17.6	-0.76	+ 4.9	0.2/02.8	26549
1981 EG ₁₆	97 03 02.6	10 54.22	+07 35.6	16.5	-1.13	- 0.4	0.2/02.5	29093
1981 EC ₁₇	97 03 02.6	10 54.41	+03 50.6	18.5	-1.07	+ 3.9	1.4/03.6	26918
1989 TB ₁	97 03 02.7	10 54.65	+09 42.3	16.7	-1.09	+ 5.1	1.2/02.0	28613
1981 EY ₂	97 03 02.7	10 54.69	-05 02.4	18.9	-0.73	+ 5.3	3.2/06.7	26915
1991 WB	97 03 02.7	10 54.71	+59 58.1	17.3	-1.47	+ 1.8	15.2/11.0	21579
1981 EF ₄₄	97 03 02.7	10 54.74	+05 48.4	18.7	-0.80	+ 3.7	0.3/03.0	26923
1981 DR ₁	97 03 02.8	10 54.71	-11 16.7	18.0	-0.85	+ 6.9	6.4/08.8	26914
1990 EU ₄	97 03 02.8	10 54.96	+06 18.0	17.2	-1.02	+ 3.6	11.2/23.0	20637
1988 VF ₂	97 03 02.8	10 55.07	+17 17.0	17.2	-1.05	+ 4.5	3.5/27.8	26579
(7401)	97 03 02.9	10 55.19	+03 54.0	17.9	-0.92	+ 6.0	1.0/03.8	28826

1995 WU ₂	97 03 03.0	10 55.47	+16 15.9	16.6	-0.84	+ 3.7	2.9/28.1	29139	1995 SH ₃₂	97 03 05.4	11 04.55	+04 58.8	17.3	-1.07	+ 4.1	0.4/05.7	29109
1981 UZ ₂₄	97 03 03.0	10 55.51	+20 19.4	18.0	-1.07	+ 4.6	4.8/27.0	20630	1128 T-3	97 03 05.4	11 04.56	+07 35.0	18.4	-0.83	+ 2.2	0.4/05.0	22432
1991 RN ₁₁	97 03 03.0	10 55.52	+11 27.2	17.7	-0.95	+ 6.5	1.7/01.6	21976	1988 RM ₇	97 03 05.4	11 04.61	+04 23.7	19.2	-0.77	+ 4.6	0.4/05.9	22969
1986 EP ₅	97 03 03.1	10 56.06	+06 40.2	16.7	-0.74	+ 5.1	0.0/03.2	24735	1992 WZ	97 03 05.6	11 05.37	+16 27.0	16.9	-1.05	+ 5.1	4.1/02.5	29101
4237 T-3	97 03 03.1	10 56.23	+16 06.5	16.6	-0.93	+ 6.4	4.1/28.2	29131	1977 QY	97 03 05.6	11 05.37	+04 42.2	16.2	-0.95	+ 2.5	0.3/06.0	26578
1994 PB ₂	97 03 03.2	10 56.29	+06 28.7	17.0	-0.82	+ 4.7	0.1/03.3	26581	1996 EU ₂	97 03 05.6	11 05.49	-17 37.3	16.7	-0.73	+ 3.3	6.2/13.6	27719
1981 EH ₁₇	97 03 03.2	10 56.43	+00 51.3	18.5	-0.72	+ 6.5	1.7/05.2	26918	1978 SB ₈	97 03 05.7	11 05.54	+10 37.3	17.9	-1.05	+ 4.6	1.7/04.3	26187
1992 WH ₈	97 03 03.3	10 56.73	+07 21.9	17.2	-1.05	+ 6.0	0.2/03.2	26190	1988 PZ ₁	97 03 05.7	11 05.72	+06 16.0	18.1	-0.72	+ 4.4	0.1/05.6	24239
1991 PJ ₁₅	97 03 03.3	10 57.02	+10 30.1	17.7	-0.98	+ 7.1	1.4/02.2	20508	1992 UL ₂	97 03 05.7	11 05.85	+03 07.3	17.0	-1.06	+ 5.5	1.0/06.6	29136
2581 P-L	97 03 03.4	10 57.01	+11 18.5	18.8	-0.80	+ 5.3	1.4/02.0	26414	1993 BH ₂	97 03 05.7	11 05.90	+11 27.2	15.5	-0.93	+ 7.4	2.3/03.9	28317
3285 T-2	97 03 03.4	10 57.20	+12 45.9	17.7	-0.98	+ 5.5	2.0/01.6	27732	1992 WP ₅	97 03 05.8	11 05.90	+11 39.4	15.9	-1.00	+ 7.3	2.4/03.9	29136
1992 ER ₄	97 03 03.5	10 57.52	+11 46.8	17.0	-0.82	+ 4.9	1.6/01.9	29099	1981 EU ₂	97 03 06.0	11 07.00	-03 31.0	19.2	-0.82	+ 2.5	2.6/08.8	26915
1993 FN ₁	97 03 03.5	10 57.58	+10 25.4	16.8	-0.85	+ 8.1	1.2/02.3	24408	1993 BJ	97 03 06.1	11 07.08	+02 23.6	17.0	-1.02	+ 4.5	1.1/07.1	29136
1995 UU ₆	97 03 03.6	10 57.74	+05 19.8	20.1	-0.98	+ 4.1	0.4/04.0	26906	1995 SH ₄	97 03 06.1	11 07.42	-11 21.3	20.2	-1.02	+ 1.6	4.9/11.0	26746
1995 VY	97 03 03.7	10 58.06	+12 33.5	17.4	-0.89	+ 5.4	1.7/01.9	27456	1995 XJ ₁	97 03 06.1	11 07.42	-07 55.8	15.8	-0.78	+ 4.0	3.9/10.5	26572
4060 P-L	97 03 03.7	10 58.23	+03 48.6	17.7	-0.86	+ 5.5	1.0/04.6	22086	1988 CK ₄	97 03 06.2	11 07.40	-11 47.6	16.9	-0.94	+ 2.3	5.9/11.2	22951
1993 FW ₃₇	97 03 03.7	10 58.27	-00 50.9	16.3	-0.75	+10.8	2.8/06.4	23527	1981 EE ₄₆	97 03 06.2	11 07.64	+01 38.0	19.8	-0.77	+ 3.9	1.1/07.5	22430
1993 FL ₁₉	97 03 03.8	10 58.65	+06 55.2	17.8	-0.81	+ 9.3	0.1/03.7	24913	1980 FF ₃	97 03 06.2	11 07.81	+06 51.2	17.9	-0.98	+ 2.8	0.5/05.9	25078
4024 P-L	97 03 03.8	10 58.70	+02 27.9	17.6	-0.87	+ 4.8	1.2/05.1	23531	5161 T-2	97 03 06.3	11 07.75	+02 34.2	17.3	-1.02	+ 1.6	1.1/07.1	16038
1994 PP ₃₄	97 03 03.8	10 58.86	+04 24.8	17.7	-0.82	+ 4.7	0.7/04.5	24570	(6795)	97 03 06.3	11 07.88	+09 47.0	16.7	-0.84	+ 6.6	1.3/05.0	26390
1991 LB	97 03 03.8	10 58.89	-00 12.9	18.0	-0.97	+ 6.9	2.3/06.0	25957	1981 EV ₄₆	97 03 06.3	11 08.08	+04 55.5	18.9	-1.04	+ 6.0	0.2/06.6	22599
1995 VP	97 03 03.9	10 58.98	-03 56.3	15.6	-0.83	+ 4.8	3.6/07.2	26760	1995 QB ₂	97 03 06.4	11 08.43	+01 07.5	17.5	-1.03	+ 5.4	1.6/07.8	25732
1994 PC ₁₄	97 03 04.0	10 59.49	+05 20.6	17.2	-0.82	+ 4.8	0.4/04.4	25651	1981 EA ₃₅	97 03 06.5	11 08.81	+09 25.0	18.4	-0.87	+ 2.1	1.0/05.4	26921
1982 UT ₅	97 03 04.0	10 59.50	+00 46.9	16.5	-0.98	+ 7.1	2.3/05.8	25972	1981 DD ₁	97 03 06.5	11 08.91	-01 47.1	17.9	-1.13	- 0.3	2.9/08.4	26914
1994 KA	97 03 04.1	10 59.83	+43 12.8	17.2	-1.20	+ 4.0	10.6/18.8	27121	1992 EQ ₈	97 03 06.6	11 09.02	+10 33.8	16.8	-0.80	+ 5.2	1.5/05.0	29135
1995 WW ₃	97 03 04.1	10 59.84	-16 03.8	17.7	-0.89	+ 2.6	6.5/11.1	26582	1988 VA ₅	97 03 06.6	11 09.02	+07 56.4	18.2	-0.97	+ 5.7	0.8/05.9	26579
1994 GF	97 03 04.1	10 59.85	+12 34.7	16.6	-0.99	+ 7.5	2.7/02.2	26191	3560 P-L	97 03 06.6	11 09.18	+09 05.6	16.5	-0.85	+ 1.8	1.0/05.6	29129
1995 QJ	97 03 04.1	10 59.88	+07 47.8	18.8	-0.95	+ 7.2	0.5/03.7	29138	1995 XE ₁	97 03 06.6	11 09.28	+16 14.8	15.7	-0.78	+ 4.4	3.1/03.2	29113
1995 SC	97 03 04.1	10 59.90	-18 34.0	20.6	-1.06	+ 0.9	6.7/11.4	27123	1212 T-2	97 03 06.7	11 09.23	-02 07.4	17.3	-0.72	+ 6.4	2.0/09.3	25540
6614 P-L	97 03 04.2	11 00.01	+09 42.1	17.7	-0.86	+ 6.0	1.1/03.2	26423	1981 EK ₉	97 03 06.7	11 09.24	+01 37.5	18.5	-0.77	+ 4.4	1.1/07.9	26916
1991 PZ ₁₂	97 03 04.2	11 00.38	+02 37.3	17.7	-1.00	+ 4.0	1.3/05.4	23790	1964 YJ	97 03 06.7	11 09.37	+18 53.4	15.6	-0.76	+ 7.0	4.1/02.0	26913
1990 TN ₃	97 03 04.3	11 00.30	+36 15.5	16.7	-1.71	- 3.8	13.4/26.0	21974	(6701)	97 03 06.7	11 09.66	-07 25.0	16.9	-0.95	+ 2.5	4.0/10.5	26153
(6690)	97 03 04.3	11 00.32	+03 28.6	16.2	-1.05	+ 4.8	1.1/05.1	26150	1978 VZ ₇	97 03 06.8	11 09.71	+06 21.2	19.1	-0.74	+ 4.5	0.2/06.5	28882
5141 T-2	97 03 04.3	11 00.45	-04 09.3	17.2	-0.81	+ 3.0	3.0/07.5	28620	(7464)	97 03 06.8	11 09.89	+10 28.4	18.8	-0.96	+ 4.4	1.6/05.4	29080
1992 YE	97 03 04.3	11 00.47	-02 31.0	17.1	-1.04	+ 4.0	3.4/06.9	29136	1991 VV ₁	97 03 07.1	11 10.88	-12 54.5	17.8	-0.87	+ 6.6	5.4/13.2	28299
1994 PJ ₂₀	97 03 04.4	11 00.96	+04 42.8	16.8	-0.82	+ 5.0	0.5/05.0	26565	1991 PG ₁₁	97 03 07.1	11 11.04	+02 52.8	18.0	-0.93	+ 8.0	0.8/07.9	19507
4093 T-3	97 03 04.5	11 01.10	+19 14.6	18.2	-1.04	+ 4.4	5.3/28.6	26186	1993 BM ₁₂	97 03 07.1	11 11.13	+03 44.2	15.6	-0.93	+ 4.7	0.6/07.6	29136
1981 EG ₉	97 03 04.5	11 01.17	-00 23.7	17.8	-0.78	+ 4.6	2.4/06.6	26916	2276 T-2	97 03 07.2	11 11.36	+08 05.3	17.9	-0.89	+ 4.9	1.0/06.4	26416
1993 FU ₁₁	97 03 04.6	11 01.59	+10 33.9	17.0	-0.86	+ 6.6	1.5/03.2	23523	1995 YK ₃	97 03 07.2	11 11.48	-00 01.9	16.4	-0.62	+ 4.0	1.3/09.0	26928
1971 FB	97 03 04.8	11 02.44	-13 20.4	16.3	-0.55	+26.3	8.0/14.2	22482	1991 RX ₁₀	97 03 07.2	11 11.53	+11 24.6	18.0	-1.08	+ 2.0	2.2/05.6	27935
1977 QF ₁	97 03 04.8	11 02.56	+10 51.2	16.8	-0.96	+ 2.5	1.4/03.6	29131	(6894)	97 03 07.3	11 11.65	-24 53.4	16.1	-1.05	+ 0.2	9.7/16.2	26888
1990 VD ₆	97 03 04.9	11 02.97	+05 58.1	16.9	-0.78	+ 7.7	0.0/05.0	28316	1991 PL ₁₇	97 03 07.5	11 12.27	-04 02.4	18.6	-0.97	+ 4.2	2.9/10.2	27455
(7495)	97 03 05.0	11 02.91	-06 20.2	17.5	-0.82	+ 5.0	4.7/09.0	29089	2114 T-2	97 03 07.6	11 12.75	+03 07.7	15.9	-0.86	+ 8.0	0.8/08.3	22088
(6842)	97 03 05.0	11 02.98	-10 20.6	17.8	-0.83	+ 6.0	5.2/10.5	26556	(6758)	97 03 07.6	11 12.86	+16 06.6	16.7	-1.05	+ 1.6	4.1/04.6	26381
1990 OB ₄	97 03 05.0	11 03.06	-11 13.4	18.9	-0.86	+ 4.1	4.8/10.5	22082	1981 EV ₆	97 03 07.7	11 13.08	-05 46.9	17.4	-0.77	+ 3.9	2.9/11.2	26558
1993 DD ₂	97 03 05.1	11 03.42	+20 34.7	16.0	-1.12	+ 0.5	5.3/01.4	29136	1021 T-2	97 03 07.7	11 13.28	+03 31.8	19.5	-0.93	+ 6.7	0.5/08.3	23681
1981 EB ₃₀	97 03 05.2	11 03.66	+06 09.7	19.6	-1.06	+ 1.5	0.0/05.2	26920	1988 RZ ₁₁	97 03 07.8	11 13.30	+07 39.4	18.7	-0.72	+ 3.8	0.6/07.0	28613
3453 T-3	97 03 05.2	11 04.01	+01 12.8	17.6	-0.91	+ 8.9	1.9/06.9	21978	1994 PZ ₂₇	97 03 07.8	11 13.36	+08 17.0	17.0	-0.77	+ 5.8	1.1/06.7	26422
1987 SH ₇	97 03 05.3	11 04.19	-27 09.4	16.3	-1.38	- 1.4	14.4/13.8	26419	1987 WS ₃	97 03 07.8	11 13.55	-16 18.6	16.6	-0.89	+ 6.2	6.7/15.3	27932
1991 VJ ₁	97 03 05.3	11 04.30	+09 11.5	19.7	-0.90	+ 5.9	1.0/04.4	26190	1995 XB	97 03 07.8	11 13.61	+09 38.9	16.9	-0.81	+ 5.0	1.5/06.4	27731
4065 P-L	97 03 05.3	11 04.30	+02 36.0	19.4	-1.00	+ 5.4	1.2/06.4	25075	1981 EM ₁₆	97 03 07.8	11 13.69	-00 00.6	19.4	-0.84	+ 2.5	1.5/09.4	26918

1995 VA ₂	97 03 07.8	11 13.71	+22 52.8	17.7	-0.98	+ 4.0	6.7/02.2	28594	1995 UN ₂	97 03 11.0	11 25.14	+05 28.4	18.1	-0.78	+ 5.7	0.6/10.4	29110
4180 T-2	97 03 07.9	11 13.81	+07 37.2	18.3	-0.94	+ 6.2	0.8/07.1	26193	1995 YN ₁	97 03 11.1	11 25.47	+03 09.2	17.6	-0.71	+ 4.9	0.1/11.3	26761
1039 T-3	97 03 07.9	11 13.84	+04 32.4	18.3	-0.98	+ 2.1	8.1/16.0	29142	1995 QH	97 03 11.1	11 25.82	-04 11.7	18.0	-1.00	+ 6.0	3.0/13.6	27110
1981 EC ₃₀	97 03 07.9	11 13.85	-08 02.9	19.3	-0.94	+ 0.2	4.0/11.4	26920	1995 XX	97 03 11.4	11 26.61	+14 03.9	17.9	-0.84	+ 3.0	3.1/08.1	29113
1991 BX	97 03 08.0	11 14.03	-01 41.7	16.5	-0.76	+ 5.1	2.1/10.2	26757	1995 UY ₄₄	97 03 11.4	11 26.92	+15 38.7	18.7	-0.98	+ 3.8	3.8/07.8	29139
(6681)	97 03 08.0	11 14.07	+12 04.3	17.3	-1.06	+ 5.4	2.6/05.9	26148	1988 VP ₅	97 03 11.6	11 27.69	+11 59.5	17.8	-0.99	+ 5.7	2.8/09.0	26756
(7149)	97 03 08.0	11 14.20	+04 37.3	17.8	-0.75	+ 5.0	0.1/08.1	28566	1995 UL ₇	97 03 11.7	11 27.91	+05 42.8	18.3	-0.94	+ 5.4	0.7/11.1	26423
1981 EH ₅	97 03 08.0	11 14.33	-08 05.6	19.2	-0.74	+ 5.1	3.6/12.4	26915	(6971)	97 03 11.7	11 27.94	+08 21.3	16.6	-0.82	+ 5.0	1.5/10.2	27095
(7357)	97 03 08.0	11 14.47	+07 10.5	17.1	-0.96	+ 7.5	0.8/07.4	28577	1991 RW	97 03 11.7	11 28.12	+06 07.9	17.2	-0.87	+14.3	0.9/10.8	26420
1981 ER ₄₂	97 03 08.1	11 14.58	+05 55.7	19.4	-0.77	+ 4.5	0.3/07.8	21968	1991 RJ ₂₀	97 03 11.8	11 28.14	+06 34.4	19.5	-0.91	+ 6.5	1.0/10.8	26758
1981 EW ₂₆	97 03 08.1	11 14.61	+02 14.7	19.0	-0.70	+ 7.7	0.7/09.1	26920	1995 WJ ₅	97 03 11.9	11 28.57	-11 29.4	16.1	-0.89	+ 4.9	5.2/16.7	26582
1979 MP ₁	97 03 08.1	11 14.63	+04 57.1	18.4	-0.91	+ 6.4	0.0/08.1	26418	1995 UE	97 03 11.9	11 28.70	+01 46.7	16.0	-1.08	+ 2.7	0.7/12.4	29110
1980 UW ₁	97 03 08.2	11 14.97	+03 07.5	18.8	-0.94	+ 5.5	0.5/08.8	21966	1978 VZ ₆	97 03 12.0	11 29.05	+00 41.9	18.9	-0.74	+ 4.9	0.7/12.9	23968
1995 QG	97 03 08.2	11 15.15	-05 41.9	19.2	-1.02	+ 1.7	3.6/11.2	29107	1978 VX ₈	97 03 12.0	11 29.09	+05 26.2	18.8	-0.76	+ 4.7	0.6/11.4	26418
3186 T-3	97 03 08.3	11 15.27	+10 24.4	17.0	-1.00	+ 5.5	2.1/06.6	28893	1991 TV ₁	97 03 12.0	11 29.13	+15 25.8	18.4	-0.95	+ 4.5	3.6/08.4	29135
1982 VC ₃	97 03 08.4	11 15.57	+13 55.5	19.2	-0.87	+ 5.3	2.5/05.5	22075	1992 UH ₁	97 03 12.0	11 29.19	+04 25.7	16.7	-1.06	+ 4.9	0.4/11.8	23980
1994 RX ₁	97 03 08.4	11 15.64	+01 57.0	14.6	-0.83	+17.0	1.0/09.5	26422	1995 WV ₂	97 03 12.1	11 29.24	+00 01.9	17.3	-0.96	+ 7.0	1.2/13.0	26184
1979 QW ₃	97 03 08.4	11 15.88	+04 55.1	16.6	-0.91	+ 6.4	0.1/08.4	20328	1981 WE ₁	97 03 12.2	11 29.59	-04 34.3	17.7	-0.78	+ 7.1	2.1/14.9	27931
4821 P-L	97 03 08.7	11 16.91	+07 10.9	19.8	-0.84	+ 6.3	0.8/07.9	26423	1991 PQ ₅	97 03 12.2	11 29.67	+08 56.4	18.1	-0.94	+ 8.7	2.1/10.3	25529
1989 TP ₁₆	97 03 08.8	11 17.01	+07 30.8	17.1	-0.77	+ 4.6	0.8/07.9	26167	1991 YO	97 03 12.2	11 29.68	+23 31.2	17.6	-0.87	+ 6.2	5.8/05.2	26563
4253 T-2	97 03 08.8	11 17.09	+07 17.7	19.8	-0.91	+ 7.5	0.8/07.9	21978	1993 BN ₄	97 03 12.2	11 29.75	+07 33.3	18.1	-0.94	+ 6.6	1.4/10.9	29136
1981 VL	97 03 08.8	11 17.31	+08 36.0	17.7	-1.01	+ 5.1	1.4/07.7	28883	2174 T-3	97 03 12.2	11 29.91	+11 34.6	17.3	-1.04	+ 0.7	3.1/10.1	26193
1995 WF ₆	97 03 08.8	11 17.42	+06 41.9	18.6	-0.91	+ 6.2	0.7/08.2	26582	(6869)	97 03 12.3	11 30.00	+20 42.9	15.8	-0.71	+ 8.1	5.1/05.7	26733
1989 SR	97 03 09.0	11 17.82	-08 18.7	16.7	-0.75	+ 5.2	3.6/13.3	23973	(6938)	97 03 12.3	11 30.24	-10 44.9	16.0	-0.80	+ 3.8	4.1/16.8	26898
1995 SZ ₃	97 03 09.0	11 18.00	-01 01.2	17.8	-0.91	+ 7.4	1.8/10.9	27731	1981 EN ₄	97 03 12.3	11 30.31	-12 18.6	17.9	-0.76	+ 4.9	4.6/17.7	26418
6104 P-L	97 03 09.3	11 18.83	+01 35.2	19.0	-0.72	+ 5.4	0.8/10.3	24241	1993 BF	97 03 12.4	11 30.52	-08 40.1	16.0	-1.06	+ 3.6	4.2/15.9	29136
1993 HM ₁	97 03 09.4	11 19.43	+20 48.2	16.1	-0.77	+11.5	6.0/03.0	27730	1987 QT ₁	97 03 12.6	11 31.13	-00 53.5	16.8	-1.08	+ 3.7	1.7/13.7	23536
1989 BE ₁	97 03 09.5	11 19.57	+10 52.5	16.5	-0.92	+ 6.6	2.5/07.4	21789	(7473)	97 03 12.6	11 31.25	+06 54.5	16.9	-0.79	+ 5.7	1.1/11.4	29082
1987 MC	97 03 09.5	11 19.71	+03 55.3	16.0	-0.94	+ 9.1	0.1/09.7	29133	1978 PX ₃	97 03 12.7	11 31.45	-03 17.7	18.6	-1.03	+ 5.0	2.2/14.6	25972
1988 CW ₂	97 03 09.5	11 19.78	+06 23.1	17.2	-0.87	+ 5.7	0.7/08.9	26924	9099 P-L	97 03 12.7	11 31.60	-00 59.0	18.5	-0.68	+ 7.4	1.1/14.2	16036
1995 SV ₂	97 03 09.6	11 20.33	+08 12.2	17.5	-0.96	+ 5.3	1.5/08.5	29139	2372 T-3	97 03 12.7	11 31.64	-01 16.8	19.4	-0.75	+ 4.9	1.1/14.2	29142
1995 WF ₂	97 03 09.8	11 20.77	+05 01.9	17.0	-0.74	+ 5.0	0.2/09.6	26582	1992 EQ ₁₅	97 03 12.8	11 31.84	+02 34.2	16.6	-0.76	+ 5.8	6.8/21.0	25975
1993 FY ₄₃	97 03 09.9	11 21.36	+04 23.5	17.5	-0.90	+ 4.9	0.1/09.9	25428	3040 P-L	97 03 12.9	11 32.51	-08 41.9	18.1	-0.86	+ 4.3	3.3/16.7	26582
1989 EX	97 03 09.9	11 21.48	+16 02.4	14.7	-0.78	+10.8	4.6/05.5	29096	1054 T-3	97 03 12.9	11 32.59	+13 15.9	19.0	-1.67	- 3.7	4.9/11.1	19330
4661 P-L	97 03 10.0	11 21.50	+08 14.2	17.9	-0.82	+ 4.8	1.3/08.7	29141	1983 SF	97 03 13.0	11 32.45	-11 16.6	17.1	-0.78	+ 3.5	3.7/17.6	26738
1990 SL ₂₈	97 03 10.0	11 21.51	+03 10.6	17.1	-0.86	+ 5.2	0.3/10.3	28885	(6699)	97 03 13.1	11 32.85	+10 32.5	17.3	-0.88	+ 5.2	2.3/10.7	26152
2612 P-L	97 03 10.1	11 21.83	+02 14.8	19.8	-0.70	+ 4.9	0.4/10.7	26761	1976 DA ₁	97 03 13.1	11 32.90	+09 07.2	16.5	-0.87	+ 8.7	2.7/11.0	29131
1988 TJ	97 03 10.1	11 21.93	+05 00.8	17.0	-1.04	+ 4.1	0.3/09.9	26419	4240 T-2	97 03 13.1	11 33.26	+09 01.0	17.8	-0.96	+ 6.1	2.2/11.3	29142
4181 T-3	97 03 10.2	11 22.29	+08 15.8	19.8	-0.95	+ 6.4	1.3/08.9	21978	1993 OR ₅	97 03 13.2	11 33.40	+02 40.6	15.9	-0.76	+ 5.2	0.1/13.3	27916
1990 SY	97 03 10.3	11 22.61	-00 46.1	16.9	-0.95	+ 3.4	1.5/11.7	24912	1993 FV ₁₁	97 03 13.5	11 34.60	+08 54.2	16.3	-0.89	+ 6.0	2.2/11.6	29103
1266 T-2	97 03 10.3	11 22.62	+04 37.4	17.4	-1.03	+ 3.6	0.2/10.2	21978	1978 SD ₇	97 03 13.5	11 34.64	-01 48.2	17.2	-0.98	+ 7.3	1.6/15.0	27725
1995 VG ₂	97 03 10.3	11 22.94	+12 50.7	16.8	-1.05	+ 4.1	3.1/07.8	26906	1990 RA ₃	97 03 13.6	11 34.86	+01 05.3	17.4	-0.83	+ 5.6	0.5/14.2	26419
1994 PV ₁₆	97 03 10.4	11 23.02	+03 42.4	17.4	-0.88	+ 4.4	0.1/10.5	28888	1987 SD ₄	97 03 13.6	11 34.86	-08 36.4	17.8	-0.98	+ 4.5	3.8/17.1	28315
4718 P-L	97 03 10.5	11 23.41	+05 38.4	19.7	-0.89	+ 4.7	0.5/10.0	25223	1981 EG ₃	97 03 13.6	11 35.04	-11 12.0	18.5	-0.77	+ 4.2	4.0/18.2	26915
1953 GN	97 03 10.5	11 23.46	+04 55.1	15.6	-0.85	+10.2	0.4/10.2	28610	1995 WU ₄	97 03 13.6	11 35.08	-12 12.7	18.0	-0.89	+ 3.7	4.4/18.4	26571
1988 VV	97 03 10.5	11 23.61	-02 07.1	17.2	-0.94	+ 7.0	2.2/12.5	26396	(6750)	97 03 13.7	11 35.05	-01 23.4	16.4	-0.87	+ 2.6	1.3/14.9	26164
(7493)	97 03 10.9	11 24.89	-05 44.0	16.8	-0.89	+ 5.3	3.4/14.0	29088	1995 SY ₂	97 03 13.8	11 35.44	+03 56.2	17.4	-1.02	+ 6.6	0.5/13.4	26422
1971 UH ₁	97 03 10.9	11 25.02	+07 54.6	17.8	-0.71	+ 4.6	1.0/09.6	27724	1978 UN ₅	97 03 13.8	11 35.56	+05 19.5	18.7	-0.94	+ 4.6	0.8/13.0	25438
1992 DL ₇	97 03 10.9	11 25.05	+07 07.3	17.7	-0.79	+ 5.4	1.0/09.9	23861	1995 UK ₆	97 03 13.8	11 35.56	+01 59.6	18.2	-0.94	+ 5.5	0.2/14.0	26582
1993 VM ₁	97 03 10.9	11 25.06	+03 36.9	15.2	-0.89	+26.0	0.1/11.0	25539	1990 QR ₉	97 03 13.9	11 36.13	+05 18.2	18.6	-0.83	+ 6.3	0.8/13.1	26757
1981 EL ₄₁	97 03 10.9	11 25.09	+08 09.6	19.2	-0.86	+ 2.3	1.3/09.7	24239	1995 UX ₃	97 03 14.0	11 36.14	+07 39.3	17.7	-1.00	+ 4.1	1.7/12.5	26180

(7177)	97 03 14.0	11 36.21	-05 10.7	17.2	-0.92	+ 2.8	2.3/16.3	27899	1995 UL ₉	97 03 16.8	11 46.50	+01 47.0	20.5	-0.95	+ 4.3	0.1/16.7	27919
(6833)	97 03 14.1	11 36.63	-11 16.9	15.4	-0.76	+ 9.8	5.2/19.3	26554	1992 DP ₈	97 03 16.8	11 46.52	-02 43.0	18.4	-0.79	+ 6.8	1.2/18.0	23861
1989 KE	97 03 14.1	11 36.81	+11 23.4	17.2	-0.78	+11.4	3.1/10.8	29134	1991 TH ₃	97 03 16.8	11 46.60	-05 43.6	19.9	-0.87	+ 7.6	2.2/19.3	26399
1982 UA ₆	97 03 14.2	11 36.87	+01 07.7	19.0	-0.86	+ 4.7	0.4/14.6	26395	1993 PK ₇	97 03 16.8	11 46.66	+01 45.5	18.5	-0.71	+ 4.6	0.1/16.8	28616
1993 OF ₉	97 03 14.2	11 37.26	-09 35.2	17.2	-0.83	+ 3.1	3.8/18.0	29137	4274 P-L	97 03 16.8	11 46.67	-02 49.5	18.1	-0.95	+ 5.7	1.8/18.2	22701
1981 EG ₄₄	97 03 14.3	11 37.51	+07 56.5	17.6	-0.86	+ 2.5	1.7/12.7	21968	1991 PE ₃	97 03 16.9	11 46.75	+06 35.8	18.0	-0.93	+ 6.4	1.8/15.2	22083
4359 T-3	97 03 14.4	11 37.61	+13 45.3	18.9	-0.88	+ 4.8	3.6/10.7	27929	1978 SS ₅	97 03 16.9	11 47.08	+00 06.2	18.0	-0.84	+ 6.2	0.4/17.4	23535
1994 PC ₁₅	97 03 14.4	11 37.67	+07 59.2	17.2	-0.77	+12.1	2.0/12.3	25219	(6740)	97 03 17.0	11 47.10	+28 17.5	15.9	-1.02	+ 1.6	10.6/08.3	26162
1977 EL	97 03 14.4	11 37.81	+10 40.7	16.3	-0.94	+ 9.4	3.5/11.6	29131	1990 UD ₃	97 03 17.0	11 47.12	-07 38.6	18.5	-0.78	+ 5.9	2.3/20.1	26925
1981 EL ₂₀	97 03 14.5	11 38.01	-00 31.3	18.4	-0.83	+ 2.8	0.8/15.4	29132	1990 RT ₂	97 03 17.0	11 47.34	+01 29.5	17.2	-0.92	+ 2.8	0.0/17.0	27933
2799 P-L	97 03 14.5	11 38.24	-05 30.4	20.0	-0.66	+ 8.9	1.8/17.5	22495	(6687)	97 03 17.0	11 47.55	+02 22.5	16.8	-0.98	+ 6.3	0.4/16.8	26149
1981 EM ₄₁	97 03 14.5	11 38.30	+00 11.2	18.4	-0.77	+ 3.7	0.6/15.3	27102	1981 EN ₄₃	97 03 17.1	11 47.68	+04 00.1	20.1	-0.83	+ 2.7	0.7/16.3	26923
6303 P-L	97 03 14.6	11 38.32	+01 47.9	17.2	-0.78	+ 5.8	0.2/14.8	24764	1993 FL ₄	97 03 17.1	11 47.69	+03 39.6	16.2	-0.88	+ 6.4	0.8/16.4	28887
1995 SD ₄	97 03 14.6	11 38.37	-02 24.6	18.9	-1.00	+ 7.4	1.6/16.1	25966	2053 T-3	97 03 17.2	11 47.93	-04 46.5	19.0	-0.73	+ 4.5	1.6/19.2	22491
1995 UJ ₂	97 03 14.6	11 38.46	+04 07.7	18.7	-0.97	+ 5.2	0.6/14.1	27123	1994 CA	97 03 17.2	11 48.22	-20 32.9	16.5	-1.62	- 3.9	9.9/21.6	29137
1992 ON	97 03 14.6	11 38.47	-14 36.6	18.2	-2.00	-12.4	8.9/16.0	21267	1989 AE	97 03 17.3	11 48.23	-02 52.1	17.2	-0.96	+ 5.7	1.5/18.6	26189
1993 FJ ₃₂	97 03 14.6	11 38.63	-05 35.9	17.4	-0.91	+ 4.5	3.1/17.1	26759	1981 EY ₂₇	97 03 17.3	11 48.53	+04 44.4	17.7	-1.02	+ 2.6	1.2/16.4	29132
2189 T-2	97 03 14.8	11 39.37	+00 15.8	16.8	-0.88	+ 5.5	0.7/15.5	22597	1989 SD	97 03 17.4	11 48.73	+03 34.4	17.3	-1.07	+ 6.0	0.9/16.7	22081
1989 UB ₈	97 03 15.0	11 40.17	-02 26.1	17.9	-0.72	+ 5.5	1.2/16.6	27119	1981 DH ₁	97 03 17.4	11 48.99	-09 32.9	18.2	-0.75	+ 4.3	2.7/21.1	26394
1981 EJ ₁₂	97 03 15.1	11 40.37	-04 39.1	18.7	-0.78	+ 4.6	2.3/17.4	26917	1995 UW ₂	97 03 17.5	11 48.96	-01 18.2	18.7	-0.92	+ 6.0	0.8/18.3	26570
1981 DT ₃	97 03 15.1	11 40.44	-11 20.7	18.6	-0.77	+ 3.7	3.5/19.6	26914	1995 WE ₆	97 03 17.5	11 49.24	+02 49.5	18.5	-0.96	+ 5.5	0.6/17.1	26571
1988 CX ₄	97 03 15.1	11 40.56	-02 19.7	18.4	-0.78	+ 8.3	1.5/16.8	15889	1990 SY ₃	97 03 17.5	11 49.25	-16 16.5	17.7	-0.86	+ 4.5	4.9/23.3	26560
(6798)	97 03 15.2	11 40.72	+01 00.8	17.4	-0.78	+ 4.9	0.3/15.6	27696	1976 YG ₁	97 03 17.6	11 49.33	+12 29.6	16.0	-0.97	+ 4.1	4.4/14.1	28881
1990 KT	97 03 15.2	11 40.85	-16 09.4	16.4	-0.80	+14.2	6.9/22.5	26189	1995 VA ₁	97 03 17.6	11 49.34	-00 37.7	18.4	-0.84	+ 5.1	0.6/18.2	26423
1995 WZ ₆	97 03 15.3	11 41.16	+19 20.9	17.2	-0.83	+ 3.8	5.0/09.7	26906	(6813)	97 03 17.6	11 49.48	-03 04.2	16.3	-0.76	+ 4.8	1.3/19.0	26549
2151 T-2	97 03 15.3	11 41.21	+01 47.9	19.0	-0.77	+ 4.3	0.1/15.5	15082	1977 TQ ₆	97 03 17.6	11 49.64	+19 15.3	18.2	-0.91	+ 3.5	5.2/11.8	21926
1988 PC ₁	97 03 15.4	11 41.34	-22 36.6	18.7	-0.72	+ 4.9	5.7/24.4	24912	1995 WT ₂	97 03 17.6	11 49.71	-03 33.0	17.4	-0.98	+ 6.1	1.6/19.1	26408
1994 PQ ₁₁	97 03 15.4	11 41.44	-02 19.0	16.6	-0.87	+ 4.3	1.6/16.8	26422	1995 VG	97 03 17.7	11 49.80	-02 06.3	16.0	-0.83	+ 5.2	1.1/18.8	26582
1992 GZ ₄	97 03 15.4	11 41.50	+05 44.8	17.5	-0.74	+ 4.7	1.1/14.2	21581	1987 SG ₃	97 03 17.7	11 49.83	-05 04.2	18.0	-0.89	+13.4	2.0/20.0	28883
1981 EL ₁₁	97 03 15.4	11 41.51	-07 19.0	20.0	-0.97	+ 6.3	4.2/18.4	26917	1995 UW ₈	97 03 17.7	11 49.86	+23 39.9	16.5	-0.93	+ 3.0	7.5/10.5	28860
1995 UV ₄	97 03 15.4	11 41.72	+23 22.7	15.5	-1.07	+ 3.1	8.5/08.6	28889	1995 SA ₂	97 03 17.7	11 49.96	-01 38.5	18.7	-0.83	+ 8.0	1.0/18.7	26404
1991 VD ₁	97 03 15.5	11 41.99	+20 43.7	17.3	-1.09	+ 1.2	6.5/10.3	29135	1981 EZ ₂₆	97 03 17.8	11 50.12	-01 39.4	18.1	-0.88	+ 5.7	1.1/18.7	26920
4193 T-1	97 03 15.5	11 42.05	+06 39.1	18.2	-0.94	+ 6.6	1.7/14.1	22432	1994 PC ₃₉	97 03 17.8	11 50.42	-03 17.9	15.7	-0.85	+ 5.6	1.7/19.3	29138
1980 UL	97 03 15.8	11 42.88	+15 55.5	17.5	-0.86	+11.5	4.3/10.6	23535	1973 SG ₅	97 03 17.9	11 50.72	+04 45.9	18.0	-0.98	+ 6.1	1.3/16.8	27725
1994 PP	97 03 15.8	11 43.05	-37 46.4	18.1	-1.12	- 0.5	9.7/28.2	27937	1995 VH ₂	97 03 18.0	11 50.85	+03 11.9	18.8	-0.90	+ 6.7	0.7/17.3	26582
1981 EA ₁₉	97 03 15.9	11 43.15	+02 47.4	18.4	-0.93	+ 5.0	0.3/15.6	26188	2092 T-2	97 03 18.0	11 50.95	+00 18.6	17.7	-0.79	+ 8.0	0.3/18.3	26423
1990 TF ₁₃	97 03 15.9	11 43.33	+19 47.8	15.9	-0.85	+ 4.8	6.4/09.9	26168	9518 P-L	97 03 18.0	11 51.17	+02 09.9	17.4	-0.97	+ 5.1	0.5/17.7	18132
1990 TZ ₁	97 03 16.0	11 43.66	-01 53.0	17.0	-0.83	+ 5.2	1.1/17.2	26757	1981 EJ ₆	97 03 18.1	11 51.15	-10 56.8	18.9	-0.71	+ 8.6	3.4/22.6	26915
1981 EY ₁₃	97 03 16.0	11 43.67	-05 13.4	19.7	-0.71	+ 6.2	1.9/18.5	20328	1993 RX ₃	97 03 18.1	11 51.46	-21 34.0	15.9	-0.80	+ 2.5	6.2/25.5	26759
1995 YF	97 03 16.1	11 44.04	+05 35.9	17.2	-0.92	+ 6.7	1.2/14.9	26413	(7496)	97 03 18.2	11 51.90	+23 12.5	17.3	-0.81	+ 4.5	5.8/10.7	29089
1992 UH ₃	97 03 16.1	11 44.25	+05 18.9	17.1	-1.11	+ 3.9	1.5/15.2	26758	1991 OO	97 03 18.4	11 52.27	-03 47.0	18.1	-0.95	+ 6.7	1.5/19.9	28845
1982 UQ ₁₀	97 03 16.2	11 44.55	+04 42.4	17.0	-0.94	+ 4.5	1.1/15.4	27931	1990 UT ₅	97 03 18.4	11 52.57	+08 08.8	16.2	-0.82	+ 6.0	2.4/16.0	25063
1981 EF ₁₆	97 03 16.3	11 44.77	-04 45.9	18.2	-0.83	+ 9.2	2.1/18.6	29093	1973 QO ₁	97 03 18.5	11 52.90	-07 26.2	18.3	-0.87	+ 4.2	2.2/21.1	21925
1989 GL ₄	97 03 16.3	11 44.83	-09 46.6	16.4	-0.76	+10.9	4.3/20.7	23514	1995 VN	97 03 18.5	11 53.00	+00 38.6	18.3	-0.89	+ 6.5	0.0/18.6	26423
1994 PA ₁₄	97 03 16.4	11 45.01	+00 34.5	18.3	-0.78	+ 5.5	0.3/16.8	27448	1981 EC ₃₂	97 03 18.6	11 52.94	-12 16.9	18.5	-0.76	+ 4.8	3.8/23.0	26921
1996 AG ₇	97 03 16.6	11 45.76	+07 47.1	19.9	-0.72	+ 4.7	1.5/14.5	29139	1993 PB ₇	97 03 18.6	11 53.01	+00 50.0	16.3	-0.75	+ 5.0	0.0/18.6	29137
1982 RR	97 03 16.6	11 45.90	+02 14.8	18.1	-0.79	+ 8.2	0.2/16.4	23970	1991 SO	97 03 18.7	11 53.34	+11 50.0	19.2	-0.97	+ 4.4	3.6/15.3	23517
1995 SJ ₁	97 03 16.6	11 45.97	+00 58.4	18.3	-0.97	+ 4.7	0.2/16.8	26568	1990 WU ₁	97 03 18.8	11 53.81	-00 25.0	19.1	-0.75	+ 6.8	0.3/19.2	25649
1990 EO	97 03 16.7	11 46.05	-09 03.9	16.2	-0.94	+ 6.8	4.2/20.1	26579	1989 VX	97 03 18.9	11 54.21	+04 30.2	17.4	-0.73	+ 4.8	1.0/17.6	26925
1992 UP ₄	97 03 16.7	11 46.28	+11 10.5	15.7	-0.91	+ 8.6	4.2/13.4	29136	(6762)	97 03 18.9	11 54.39	+01 41.6	17.5	-1.06	+ 5.3	0.4/18.7	26383
1992 HA ₅	97 03 16.8	11 46.45	+04 39.8	17.0	-0.72	+ 4.7	0.8/15.7	29136	1995 WN ₃₃	97 03 18.9	11 54.41	-10 06.2	17.1	-0.77	+10.4	3.9/23.0	26761

1991 NB ₄	97 03 19.2	11 55.19	-06 31.6	16.8	-0.97	+	6.2	2.7/21.5	26189
1991 VL ₆	97 03 19.2	11 55.45	-09 01.7	17.8	-0.81	+	9.3	3.0/22.7	28316
1992 ER ₈	97 03 19.2	11 55.57	+05 03.6	16.5	-0.82	+	4.9	1.4/17.8	27713
1992 WX ₁	97 03 19.3	11 55.66	-05 03.9	17.9	-1.03	+	6.2	2.1/21.1	26172
1981 EP ₁₆	97 03 19.3	11 55.70	-06 25.1	18.3	-1.01	+	6.7	2.5/21.5	26755
1992 EA ₈	97 03 19.5	11 56.25	-00 16.0	17.0	-0.79	+	5.7	0.2/19.7	25650
1985 PE ₁	97 03 19.6	11 56.65	-04 07.3	18.0	-1.07	+	5.8	1.7/21.0	22076
1995 XL ₁	97 03 19.6	11 56.79	-08 45.0	17.1	-0.94	+	5.2	3.1/22.5	28303
1994 PB	97 03 19.6	11 56.89	-08 48.6	16.8	-0.75	+	6.1	2.7/23.0	27730
1994 PN ₁₃	97 03 19.8	11 57.34	-00 35.9	17.9	-0.73	+	4.6	0.2/20.1	26581
1981 EP ₄₇	97 03 19.8	11 57.51	-01 36.2	19.2	-0.69	+	7.2	0.5/20.5	26923
1980 TA ₄	97 03 19.8	11 57.66	+04 17.1	16.2	-1.01	+	3.3	1.6/18.7	26418
1981 EL ₂₃	97 03 19.8	11 57.69	+02 17.1	18.6	-0.87	+	7.1	0.7/19.2	26919
1988 RS ₆	97 03 20.0	11 58.21	-00 04.9	18.6	-1.00	+	6.9	0.1/20.1	19022
1991 PO ₁₃	97 03 20.1	11 58.60	-01 36.3	17.7	-1.03	+	4.7	0.6/20.7	27120
(7191)	97 03 20.1	11 58.78	+13 52.5	15.6	-0.91	+	3.7	4.6/15.8	27902
1974 QF	97 03 20.2	11 58.87	-03 39.7	18.7	-0.96	+	6.3	1.2/21.4	26165
1979 QR ₂	97 03 20.2	11 59.02	-00 39.3	17.5	-0.80	+	4.9	0.2/20.5	24758
1988 US	97 03 20.4	11 59.64	-06 30.1	16.5	-0.97	+	5.8	2.3/22.5	26579
2072 P-L	97 03 20.5	12 00.12	-01 41.0	18.1	-1.08	+	2.6	0.7/21.0	25968
1982 UE ₂	97 03 20.5	12 00.13	+04 46.8	18.8	-1.02	+	5.6	1.6/19.1	26578
1990 QS ₃	97 03 20.6	12 00.63	+03 28.6	18.9	-0.85	+	7.2	1.1/19.5	26757
1981 EB ₄₃	97 03 20.7	12 00.67	+00 30.4	19.4	-0.91	+	5.0	0.2/20.5	26922
1995 UX ₅	97 03 20.8	12 01.02	-10 51.8	16.5	-0.98	+	4.6	4.2/24.1	26760
1995 SZ ₁	97 03 20.8	12 01.17	-04 47.5	18.2	-0.97	+	6.0	1.7/22.3	26404
(6764)	97 03 20.8	12 01.24	+04 31.8	15.3	-1.10	+	2.9	2.0/19.5	26383
1983 XG	97 03 20.9	12 01.37	-03 30.6	17.1	-0.69	+	5.3	0.8/22.1	27931
1994 PF ₉	97 03 21.0	12 01.72	+01 19.0	17.1	-0.75	+	5.3	0.5/20.5	27448
1974 XW	97 03 21.0	12 02.05	+08 34.2	16.2	-0.89	+	4.9	3.3/18.3	22072
4391 T-3	97 03 21.0	12 02.11	+08 09.4	20.0	-0.95	+	6.4	2.6/18.4	25540
1992 EP ₁₁	97 03 21.1	12 02.41	+02 32.2	18.2	-0.78	+	5.9	0.9/20.2	25215
1994 PE ₂	97 03 21.1	12 02.47	-03 48.3	19.4	-0.83	+	4.4	0.9/22.3	26744
1991 CR ₁	97 03 21.2	12 02.51	+11 03.6	17.2	-0.73	+	5.3	3.2/17.3	20507
1979 MS ₄	97 03 21.2	12 02.73	+03 30.2	18.6	-0.90	+	7.6	1.5/20.0	19291
1981 EF ₄₅	97 03 21.2	12 02.83	+02 32.9	18.5	-0.78	+	4.6	1.0/20.4	21968
1988 BY ₂	97 03 21.3	12 03.18	-10 41.0	16.8	-0.97	+	1.7	3.9/24.3	27932
1986 EF ₅	97 03 21.4	12 03.28	-00 19.4	16.0	-0.93	+	6.1	0.0/21.4	28883
1991 PC ₆	97 03 21.4	12 03.53	+10 08.0	18.4	-0.91	+	7.4	3.7/17.9	25974
1994 PD ₃₄	97 03 21.4	12 03.54	-01 30.6	18.3	-0.88	+	6.2	0.4/21.9	24570
1991 RF ₂₉	97 03 21.6	12 04.07	-19 00.7	16.7	-0.97	+	4.5	7.0/27.6	27567
1991 TG ₂	97 03 21.6	12 04.16	+06 45.8	18.0	-0.94	+	4.6	2.3/19.4	23518
(6722)	97 03 21.6	12 04.29	+03 49.6	16.1	-0.77	+	4.4	1.4/20.3	26158
1982 TQ ₂	97 03 21.7	12 04.46	-06 25.2	17.6	-1.06	+	5.0	2.2/23.5	26418
1980 TE ₄	97 03 21.7	12 04.55	-00 17.3	17.7	-0.84	+	4.9	0.1/21.7	13056
2590 P-L	97 03 21.8	12 04.71	+01 01.8	17.7	-1.00	+	4.2	0.6/21.4	29141
1994 PX	97 03 21.9	12 05.21	+07 48.2	18.0	-0.75	+	7.9	2.3/18.9	25651
1993 FY ₅₅	97 03 21.9	12 05.22	+07 15.7	17.8	-0.95	+	5.0	2.8/19.5	23675
1991 RE ₁₅	97 03 22.0	12 05.59	-05 23.7	17.1	-1.09	+	3.6	1.8/23.0	19680
9523 P-L	97 03 22.1	12 05.95	+01 14.7	16.8	-1.06	+	1.9	0.9/21.6	26415
4603 P-L	97 03 22.1	12 06.09	+04 04.8	17.5	-0.75	+	4.7	1.3/20.6	29141
9073 P-L	97 03 22.2	12 06.13	-02 51.9	17.5	-0.74	+	3.8	0.6/22.9	29142

1989 GD ₅	97 03 22.2	12 06.26	+14 34.3	16.4	-1.02	+	2.0	5.1/17.7	23537
1991 RC ₂₂	97 03 22.4	12 07.04	+04 18.9	17.2	-1.04	+	5.4	2.0/20.9	25065
1981 JR ₂	97 03 22.5	12 07.26	+03 18.0	16.9	-1.03	+	4.4	1.8/21.3	26166
1991 UJ ₄	97 03 22.6	12 07.57	-03 05.7	17.9	-0.91	+	5.3	0.7/23.3	21976
4127 P-L	97 03 22.6	12 07.73	-01 10.1	19.6	-0.71	+	4.6	0.1/22.8	22086
1994 RC ₁	97 03 22.6	12 07.77	-03 14.3	17.7	-0.68	+	6.1	0.6/23.5	28318
3164 T-3	97 03 22.6	12 07.86	-05 39.6	17.5	-0.77	+	8.9	1.5/24.4	21978
1995 YL ₁	97 03 22.7	12 07.97	-04 35.3	18.5	-0.84	+	5.6	1.0/23.9	28890
1991 VF ₄	97 03 22.7	12 08.12	+11 12.1	17.4	-0.92	+	5.6	3.9/18.8	28615
1988 RR ₅	97 03 22.7	12 08.31	+00 14.7	16.7	-1.04	+	5.2	0.5/22.4	28841
1994 NJ ₁	97 03 22.7	12 08.32	-02 40.2	17.2	-0.95	+	6.6	0.7/23.0	26422
1955 UN ₁	97 03 22.8	12 08.71	+05 19.8	17.6	-1.02	+	3.7	2.0/21.1	27453
1991 VE ₂	97 03 22.9	12 08.78	-18 20.2	16.6	-0.83	+	9.0	5.9/29.4	26420
1986 WZ	97 03 22.9	12 09.02	-05 08.2	17.5	-0.83	+	5.6	1.3/24.4	20924
3119 T-1	97 03 23.7	12 11.92	-04 12.0	17.2	-0.90	+	6.2	1.2/24.7	26415
1993 FN	97 03 23.7	12 11.99	+00 05.0	16.6	-1.10	-	0.2	0.6/23.5	26758
(6883)	97 03 23.8	12 11.94	+01 40.2	17.6	-0.73	+	4.6	0.8/22.8	26736
1994 PR ₂₇	97 03 23.9	12 12.32	-00 16.7	15.7	-0.88	+	3.7	0.4/23.6	29105
1981 EF ₃₅	97 03 23.9	12 12.56	+00 30.6	18.6	-0.86	+	7.0	0.7/23.3	22271
1981 EA ₁₈	97 03 24.0	12 12.67	+02 25.6	18.4	-0.69	+	8.4	1.2/22.6	26918
1993 FB ₁	97 03 24.0	12 12.89	+13 44.5	15.9	-0.94	+	3.7	6.0/19.2	26190
1995 YY ₇	97 03 24.0	12 12.97	-06 20.8	16.0	-0.92	+	7.1	2.0/25.7	26575
4030 T-3	97 03 24.0	12 13.06	+04 02.0	18.5	-0.82	+	6.4	1.8/22.3	27929
1981 DG ₂	97 03 24.1	12 13.05	-10 20.1	17.9	-0.72	+	6.2	2.4/27.2	28838
1991 RA ₁₀	97 03 24.1	12 13.17	-11 11.9	17.3	-0.95	+	6.1	3.7/27.3	20152
1993 OB ₁₃	97 03 24.2	12 13.67	-00 57.0	17.9	-0.77	+	5.7	0.2/24.1	24232
1990 QE	97 03 24.3	12 13.81	-25 01.4	18.3	-0.99	+	2.5	6.8/31.6	27728
1995 VG ₁₁	97 03 24.3	12 13.87	+14 22.6	17.8	-0.92	+	2.5	6.5/19.5	26407
1981 EE ₃₉	97 03 24.3	12 14.14	+01 25.0	20.5	-0.71	+	6.4	0.8/23.4	26922
1993 FA ₃₃	97 03 24.4	12 14.13	+02 56.9	17.3	-0.83	+	7.4	1.7/22.9	26903
(6820)	97 03 24.5	12 14.80	-00 16.2	16.5	-0.78	+	5.8	0.4/24.1	26551
1990 RR ₇	97 03 24.6	12 14.88	+02 08.1	16.2	-0.83	+	8.2	1.3/23.3	28614
(7317)	97 03 24.6	12 14.92	-01 26.9	15.9	-0.86	+	8.5	0.1/24.6	28566
1982 FX ₂	97 03 24.6	12 14.96	-00 42.5	16.8	-0.80	+	4.5	0.3/24.3	27709
1995 XH	97 03 24.6	12 15.07	+03 39.4	17.3	-0.83	+	4.6	1.6/23.0	28618
1980 FW ₂	97 03 24.6	12 15.17	-01 45.8	17.2	-0.75	+	4.8	0.0/24.7	26578
1994 TR ₁	97 03 24.6	12 15.24	-08 27.8	17.7	-0.84	+	8.2	2.0/27.0	24763
1990 SH ₁	97 03 24.7	12 15.41	-06 46.8	18.0	-0.77	+	6.7	1.3/26.5	24118
1995 SQ ₁	97 03 24.7	12 15.58	-37 55.0	18.4	-1.34	-	0.2	12.6/05.6	26176
1991 RT ₅	97 03 24.9	12 16.19	+04 47.2	17.5	-1.01	+	4.1	2.3/23.0	27120
1995 YN ₄	97 03 25.1	12 16.71	-07 43.0	17.0	-0.84	+	3.0	1.7/26.9	26761
1981 EL ₅	97 03 25.2	12 17.01	-15 10.2	18.5	-0.75	+	5.9	3.9/29.9	25078
1991 TE ₁	97 03 25.2	12 17.15	+24 57.1	16.4	-0.93	+	3.5	9.9/16.1	29099
1981 EN ₂₂	97 03 25.3	12 17.56	-05 19.4	19.2	-0.94	+	3.8	1.3/26.4	26919
(6700)	97 03 25.4	12 17.90	+08 47.4	16.9	-0.87	+	5.2	3.8/22.0	26152
5568 P-L	97 03 25.5	12 18.35	+04 08.4	17.6	-0.91	+	3.6	1.9/23.7	22601
1995 QD ₃	97 03 25.6	12 18.81	-04 43.4	17.2	-0.96	+	5.7	1.0/26.5	26192
1979 QM ₁	97 03 25.7	12 18.82	-02 15.6	16.7	-0.78	+	5.3	0.1/25.8	22429
1981 US ₂₂	97 03 25.7	12 18.93	+08 53.9	18.1	-0.98	+	5.4	3.8/22.3	26756
1955 SF	97 03 25.7	12 19.17	-06 19.2	17.3	-1.04	+	5.0	1.5/27.0	26417
1990 RV ₃	97 03 25.8	12 19.21	-04 03.2	19.2	-0.89	+	4.8	0.6/26.4	25426

1994 PW ₃₁	97 03 25.9	12 19.57	+00 20.5	16.4	-0.82	+10.2	1.0/25.0	24914
1995 YO	97 03 25.9	12 19.69	+13 06.5	17.4	-0.72	+ 5.0	4.1/20.6	27731
1979 MO ₄	97 03 25.9	12 19.77	-00 34.1	18.5	-0.79	+ 5.9	0.5/25.4	26913
(6784)	97 03 26.0	12 19.93	+04 54.3	16.4	-0.83	+ 4.5	2.1/23.7	26388
1991 UG ₃	97 03 26.0	12 20.12	-05 53.2	17.9	-0.93	+ 5.3	1.2/27.2	26925
1981 ER ₁₆	97 03 26.0	12 20.14	-12 20.3	18.8	-1.08	+ 0.1	4.2/28.7	26918
1260 T-2	97 03 26.1	12 20.38	-00 49.1	17.4	-0.77	+ 8.9	0.5/25.6	15078
(7320)	97 03 26.2	12 21.06	-06 20.8	16.7	-0.80	+ 4.0	1.3/27.6	28567
(6734)	97 03 26.3	12 21.22	+12 31.1	16.1	-0.81	+ 3.3	4.1/21.6	28818
1984 SU	97 03 26.3	12 21.23	-05 11.9	18.3	-0.94	+ 5.7	0.9/27.3	26578
1995 SA ₁	97 03 26.4	12 21.48	-43 38.1	17.6	-1.06	+ 5.2	16.0/14.3	26568
1994 UD ₁	97 03 26.4	12 21.50	-00 15.6	18.5	-0.68	+ 4.1	0.5/25.7	24764
1992 GH	97 03 26.5	12 21.77	-14 28.1	16.5	-1.66	- 4.0	5.8/28.7	21977
2145 T-2	97 03 26.5	12 21.87	-03 11.9	18.5	-0.77	+ 8.9	0.2/26.8	22274
1995 SM ₃	97 03 26.5	12 21.88	-08 18.2	16.9	-1.06	+ 1.8	2.5/28.2	25966
(7498)	97 03 26.5	12 22.03	-28 42.4	17.1	-0.93	+ 0.5	7.4/03.7	29089
1991 UY ₃	97 03 26.6	12 22.14	-04 50.9	19.0	-0.87	+ 6.5	0.7/27.4	26420
1994 TK ₁₅	97 03 26.8	12 22.81	-00 57.1	18.0	-0.92	+ 4.7	0.5/26.3	25220
1981 ER ₄₇	97 03 26.8	12 23.03	-00 24.8	17.9	-0.89	+ 5.1	0.7/26.2	29132
1972 RX ₁	97 03 26.8	12 23.09	-01 34.3	17.5	-0.88	+ 7.1	0.3/26.6	27118
1981 EP ₃₈	97 03 26.9	12 23.22	-04 24.8	19.5	-0.70	+ 7.2	0.5/27.6	21967
1987 QW ₂	97 03 27.0	12 23.63	-01 20.3	17.5	-0.74	+ 4.5	0.3/26.6	24759
1995 UQ ₄	97 03 27.0	12 23.69	+15 28.7	16.6	-1.04	+ 3.0	5.9/21.6	28303
1973 SQ ₃	97 03 27.1	12 24.03	-03 08.4	17.4	-0.89	+ 8.0	0.2/27.3	23534
(6787)	97 03 27.1	12 24.26	-08 46.6	16.1	-1.00	+ 6.4	2.5/29.1	26388
1996 AG ₂	97 03 27.2	12 24.33	-19 52.9	16.4	-0.81	+ 2.8	4.7/01.8	26928
6242 P-L	97 03 27.2	12 24.33	-08 27.6	16.7	-0.84	+ 8.0	2.3/29.2	26423
6586 P-L	97 03 27.2	12 24.39	+01 51.8	19.3	-0.79	+ 8.6	1.4/25.6	17975
2064 P-L	97 03 27.2	12 24.51	-08 03.9	17.5	-0.76	+ 4.4	1.7/29.0	24409
2086 T-2	97 03 27.3	12 24.98	-05 59.3	15.6	-0.85	+ 1.9	1.3/28.4	22087
1994 PT ₁₄	97 03 27.4	12 25.08	+00 11.7	16.4	-0.80	+ 7.5	1.1/26.4	25219
1994 RJ	97 03 27.4	12 25.11	-05 19.0	19.6	-0.87	+ 6.5	0.9/28.3	26581
1994 RC ₁₁	97 03 27.4	12 25.23	-01 35.5	18.2	-0.73	+ 4.5	0.3/27.1	24409
1992 GC ₅	97 03 27.4	12 25.34	+00 49.2	16.7	-0.77	+ 4.6	1.1/26.3	27713
1981 EP ₂	97 03 27.4	12 25.39	-13 02.8	17.8	-0.71	+ 7.5	2.8/31.2	26915
(6723)	97 03 27.5	12 25.57	+06 58.4	15.8	-0.92	+ 0.5	3.0/24.8	26158
1986 CB	97 03 27.5	12 25.75	+27 19.8	17.7	-0.99	+ 8.1	10.6/16.9	23683
1993 HF	97 03 27.6	12 25.72	-17 53.8	15.6	-0.80	+ 8.0	6.1/02.1	28616
1995 VS	97 03 27.6	12 25.89	-04 46.4	17.3	-0.96	+ 6.9	0.7/28.3	28890
1975 YD	97 03 27.7	12 26.33	-12 46.4	16.9	-0.85	+ 8.9	3.1/31.3	27118
1991 PJ ₃	97 03 27.7	12 26.41	-05 44.1	17.0	-1.03	+ 4.0	1.2/28.6	27728
1978 VV ₆	97 03 27.7	12 26.45	+00 29.6	18.6	-1.02	+ 5.8	1.2/26.7	26578
1995 RC	97 03 27.8	12 26.63	-08 49.3	17.2	-1.06	+ 4.8	2.2/29.6	28856
1978 PV ₂	97 03 27.8	12 26.77	-10 15.4	17.2	-1.08	+ 4.9	2.7/30.0	10630
1993 MG ₁	97 03 27.9	12 26.81	-29 11.5	17.0	-1.04	+ 2.7	9.8/04.5	27714
1994 PP ₂₆	97 03 28.0	12 27.19	-01 17.0	16.2	-0.95	+ 4.4	0.7/27.5	29138
1992 HD ₅	97 03 28.2	12 28.14	+13 33.8	17.4	-0.83	+ 2.0	4.3/23.0	24393
1988 CF ₇	97 03 28.2	12 28.15	-11 27.0	17.4	-0.82	+ 6.5	2.4/31.1	24117
1994 VY	97 03 28.4	12 28.71	-16 22.1	18.6	-0.77	+ 5.6	4.2/02.0	26581
1995 XT	97 03 28.7	12 29.82	+00 20.8	17.0	-0.76	+ 5.1	1.1/27.5	29139
1994 PC ₃₇	97 03 28.7	12 29.84	-07 08.5	17.4	-0.83	+ 5.0	1.2/30.0	26422

1995 WP ₈	97 03 28.8	12 30.31	+04 45.0	17.1	-1.06	+ 5.4	3.0/26.4	26761
1993 OM ₁₀	97 03 28.9	12 30.57	-02 02.9	19.7	-0.69	+ 4.7	0.3/28.5	27730
2183 T-1	97 03 28.9	12 30.66	+00 23.2	18.5	-0.95	+ 5.4	1.4/27.8	27926
(6801)	97 03 29.1	12 31.22	+02 20.8	16.7	-1.04	+ 4.8	2.1/27.4	26392
1981 EM ₂₀	97 03 29.3	12 32.21	-04 19.4	19.2	-0.70	+ 2.3	0.2/29.6	26918
1995 WN ₅	97 03 29.4	12 32.34	+05 34.6	16.8	-0.86	+ 4.2	3.0/26.5	29139
4026 P-L	97 03 29.4	12 32.39	-07 51.0	16.4	-1.07	- 0.1	1.7/30.5	24241
1993 MZ	97 03 29.5	12 32.72	-12 37.7	17.9	-0.95	+ 2.4	2.8/01.1	29137
1988 VZ	97 03 29.5	12 32.76	+03 49.6	17.0	-0.74	+ 3.3	1.8/27.2	24912
1995 VL ₂	97 03 29.5	12 32.90	-09 47.8	17.7	-0.94	+ 6.2	2.3/31.6	29139
(6822)	97 03 29.5	12 32.95	-03 01.9	18.6	-0.87	+ 4.9	0.2/29.4	26551
1995 QD ₂	97 03 29.6	12 33.15	-10 31.6	18.4	-1.03	+ 6.1	2.7/31.8	29107
1991 TY	97 03 29.6	12 33.26	+26 29.9	19.8	-0.91	+ 6.9	8.4/18.3	22594
1991 PV ₁₇	97 03 29.6	12 33.36	+01 06.3	18.2	-0.93	+ 5.5	1.5/28.2	20025
1988 BW	97 03 29.7	12 33.41	-20 12.9	16.6	-1.01	+ 2.2	5.9/03.7	27727
1607 T-2	97 03 29.8	12 33.77	-09 19.0	18.4	-1.02	+ 3.7	2.0/31.5	21978
1978 RX ₁	97 03 29.9	12 34.22	+01 35.1	18.4	-0.96	+ 7.1	1.8/28.2	22429
1171 T-1	97 03 29.9	12 34.27	-05 54.3	17.5	-0.88	+ 8.1	0.7/30.7	23791
1981 TT	97 03 30.0	12 34.56	-05 42.3	17.7	-0.95	+ 7.7	0.7/30.7	26578
1983 WF ₁	97 03 30.0	12 34.64	+26 00.8	18.2	-0.74	+ 3.5	6.3/19.2	22430
1994 PH ₉	97 03 30.2	12 35.20	-04 17.3	17.9	-0.87	+ 6.0	0.2/30.4	24748
1981 EK ₄₇	97 03 30.2	12 35.30	-05 57.8	18.8	-0.63	+ 4.3	0.6/31.0	26923
1995 YG	97 03 30.2	12 35.34	-05 40.0	16.0	-0.96	+ 7.3	0.7/30.8	29139
3212 T-1	97 03 30.3	12 35.89	-04 19.1	16.4	-1.06	+ 4.6	0.2/30.5	27732
(6729)	97 03 30.3	12 35.93	-00 27.0	15.8	-1.06	+ 1.0	1.2/29.5	26159
(6924)	97 03 30.5	12 36.28	+02 12.0	16.1	-0.77	+ 2.2	1.6/28.6	26895
1978 VP ₁	97 03 30.5	12 36.29	-10 50.6	18.3	-0.73	+ 5.3	1.9/01.9	19856
1994 PY ₂₅	97 03 30.5	12 36.31	-01 48.1	17.6	-0.86	+ 5.7	0.7/29.8	26759
1995 YJ ₁	97 03 30.5	12 36.39	+00 09.4	17.3	-0.77	+ 5.4	1.2/29.2	28890
1984 UR	97 03 30.5	12 36.54	+04 08.9	17.2	-0.99	+ 4.4	2.7/28.1	28840
1980 GB	97 03 30.5	12 36.57	+13 26.1	16.2	-0.92	+ 5.9	7.7/24.6	25423
1984 CM	97 03 30.6	12 36.80	+01 25.6	16.4	-0.98	+ 2.2	1.9/29.1	28883
(6711)	97 03 30.6	12 36.81	-04 44.4	15.5	-0.71	+13.6	0.3/30.9	26155
1981 EC ₂₂	97 03 30.7	12 37.08	-03 06.5	18.4	-0.97	+ 7.3	0.4/30.4	26919
(7287)	97 03 30.7	12 37.30	+12 16.7	17.4	-0.77	+ 7.2	5.1/25.0	28286
2098 P-L	97 03 30.7	12 37.37	-04 36.9	17.4	-0.79	+ 7.9	0.2/31.0	24585
1986 TT ₁₁	97 03 30.7	12 37.42	-06 27.0	17.4	-1.01	+ 2.0	0.8/31.5	24581
1168 T-3	97 03 30.8	12 37.80	-10 05.8	18.6	-0.96	+ 2.2	1.9/01.6	18134
3058 T-1	97 03 30.9	12 37.74	-07 38.7	17.7	-1.08	+ 4.3	1.3/31.9	19322
1978 VW ₂	97 03 30.9	12 38.01	-01 43.1	17.8	-0.74	+ 5.1	0.8/30.2	26755
1994 PJ ₁₀	97 03 30.9	12 38.02	-06 29.6	18.0	-0.83	+ 5.2	0.7/31.7	24748
(6719)	97 03 30.9	12 38.13	+00 47.4	16.4	-0.83	+ 4.9	1.5/29.4	26157
(6945)	97 03 31.0	12 38.11	-09 17.3	17.6	-1.11	+ 3.4	2.1/01.5	27089
1996 BN ₆	97 03 31.0	12 38.50	+01 34.9	18.5	-0.78	+ 4.6	1.6/29.2	29113
1991 BH ₂	97 03 31.1	12 38.48	-13 33.1	16.3	-0.86	+ 2.3	2.9/02.9	26757
1992 YG ₂	97 03 31.1	12 38.87	-09 53.2	18.2	-1.02	+ 5.8	2.1/01.9	26172
1995 UQ ₁	97 03 31.1	12 38.89	-07 11.7	18.2	-0.91	+ 7.2	1.0/01.2	26569
1986 RA ₅	97 03 31.2	12 38.86	+05 10.7	17.1	-0.86	+ 6.4	2.9/28.1	27727
1995 UU ₃	97 03 31.2	12 38.87	-01 54.7	17.6	-0.90	+ 4.3	0.8/30.5	26423
1991 RF ₁₁	97 03 31.3	12 39.23	-09 57.9	18.4	-0.95	+ 4.9	1.8/02.1	27120
1991 RH ₄₁	97 03 31.3	12 39.25	-00 08.6	17.2	-0.91	+ 6.4	1.5/30.0	26420