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

Contributors of perturbed orbital elements are advised that use of the Epoch 1997 Dec. 18.0 TT (rather than 1997 June 1.0 TT) will become effective *following* the 1997 Sept. 16 batch of *MPC*s.

ERRATA

MPC	Line	
27331	− 2	*For* Faïna *read* Faina
27331	−35	*For* Egrafovich *read* Evgrafovich
28335	−21	*For* 45 *read* 27
28335	−22	*For* 44 *read* 26
28829	− 3	*For* by G. R. Kastel' *read* by L. V. Zhuravleva and G. R. Kastel'
30212	−26	*For* J. S. Weaver, J. S. Weavers *read* J. S. Weaver
30245	−43	The orbit for 1997 LB_7 is to be deleted.
30284	−11 to −1	The identification 1997 NU_1 = 1996 HH_1 is invalid, and the resulting orbit is to be deleted.

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 30117. 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	$\rho\cos\phi'$	$\rho\sin\phi'$	
139	7.1108	0.72526	+0.68618	Antibes
426	136.8217	0.85618	−0.51498	Woomera
471	8.2389	0.56364	+0.82325	Houstrup
751	269.2439	0.78038	+0.62324	Lake Saint Louis
953	2.1339	0.74602	+0.66393	Montjoia
955	350.6739	0.78146	+0.62188	Sassoeiros

CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object		Date	UT	α_{2000}	δ_{2000}	Reference	Mag.	Obs.
1980 RC	*	1980 09	03.90764	22 35 37.58	−04 27 18.3	*MPC* 5472	17.0 V	552
1980 RC		1980 09	04.94097	22 34 48.76	−04 40 25.6	*MPC* 5472		552
1980 RC		1980 09	10.85000	22 30 15.19	−05 56 31.3	*MPC* 5541	17.0 V	552
1980 RC		1980 09	10.91597	22 30 12.04	−05 57 23.3	*MPC* 5541		552
1993 TS_{36}	*	1993 10	13.23351	00 49 43.95	−17 36 36.5	*MPC* 23181	16.5	675
1993 TS_{36}		1993 10	13.26910	00 49 41.85	−17 36 32.7	*MPC* 23181		675

IDENTIFICATION CHANGES

Continuation to *MPC* 30118.

Object		Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	N Obs.
1981 SJ_9	*	1981 09	25.84120	23 04 11.15	−06 40 48.0	1981 SU_1	17.5	1 095
1988 YB_1	*	1988 12	16.67326	04 35 09.85	+14 43 39.9	1988 XJ_2	19	372
1989 AD_{10}	*	1989 01	10.61840	08 50 15.83	+19 12 03.7	1989 AP_4		413
1989 AD_{10}		1989 01	10.67396	08 50 13.30	+19 12 21.7	1989 AP_4		413
1989 XO_3	*	1989 12	01.53715	04 47 09.48	+24 15 28.2	1989 WW_1	16.5	400
1989 XO_3		1989 12	01.55382	04 47 08.77	+24 15 31.4	1989 WW_1		400
1991 BV_4	*	1991 01	23.73889	09 12 15.37	+06 37 24.9	1991 BU		402
1991 BV_4		1991 01	23.75278	09 12 14.78	+06 37 35.0	1991 BU		402
1991 FT_6	*	1991 03	23.31285	13 11 50.12	−04 54 00.6	1991 FF_3		809
1991 FT_6		1991 03	23.32326	13 11 49.76	−04 53 58.4	1991 FF_3		809
1991 FT_6		1991 03	23.33368	13 11 49.39	−04 53 56.3	1991 FF_3		809
1995 UG_{53}	*	1995 10	27.58609	01 23 51.49	+08 48 31.3	1995 UU_5	17	399
1995 UG_{53}		1995 10	27.60050	01 23 50.79	+08 48 22.3	1995 UU_5		399
1997 GK_{44}	*	1997 04	07.15439	13 05 08.00	−05 07 39.8	1997 GF_{20}	19.0 V	704
1997 GK_{44}		1997 04	07.23282	13 05 03.47	−05 07 14.9	1997 GF_{20}		704

Note 1: 1981 SU_1 = (3458).

IDENTIFICATIONS

The following identifications with numbered minor planets, by G. V. Williams, continue the list on *MPC* 27478:

1981 SJ_9 = (7038) 1986 WW_6 = (7495) 1992 OM_{10} = (7465)

NUMBERING OF A PERIODIC COMET

Continuation to the list on *MPC* 30118.

132P/1989 U1 = 1997 N2 (Helin-Roman-Alu 2)

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

006 Fabra Observatory, Barcelona. 0.38-m $f/11$ Mailhat astrograph. Observers J. M. Codina, J. Nuñez, N. Torras and O. Fors. Measured by N. Torras, O. Fors and J. Nuñez.
046 Kleť. 0.57-m $f/5.2$ reflector + CCD. Observers J. Tichá, M. Tichý and Z. Moravec.
084 Pulkovo. 0.65-m $f/16$ refractor. Observera A. A. Kisselev, L. G. Romanenko, O. V. Kiaeva and N. A. Shakht. Measured by T. P. Kisseleva.
095 Crimean Astrophysical Observatory. 0.4-m $f/4$ double astrograph. Observers L. I. Chernykh, N. S. Chernykh, L. G. Karachkina and L. V. Zhuravleva.
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 Š. Gajdoš, A. Galád, D. Kalmančok, P. Kolény, A. Pravda and P. Zigo.
139 Antibes. 0.25-m $f/6.6$ reflector + CCD. Observer L. Brunetto.
249 SOHO. SOHO-LASCO coronagraphs C3 and C2. Observers S. Stezelberger, D. A. Biesecker, B. McCarty and C. St. Cyr. Reduction by G. V. Williams.
355 Hadano. 0.28-m $f/5.0$ 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.
372 Geisei. 0.60-m $f/3.5$ reflector. Observer T. Seki. From *Orient. Astron. Assoc. Comet Bull.*.
388 Mitaka. 0.50-m reflector + CCD. Observers H. Fukushima, I. Sato, D. Kinoshita, T. Saito, A. Obara and J. Watanabe. Measured by I. Sato.
402 Dynic Astronomical Observatory. 0.60-m $f/4.0$ reflector + CCD. Observer A. Sugie.
422 Loomberah. 0.25-m $f/4.1$ reflector + CCD. Observer G. J. Garradd.
476 Bussoleno. 0.30-m $f/4.0$ reflector. Observer P. Pognant.
540 Linz. 0.3-m $f/5.2$ Schmidt-Cassegrain + CCD. Observers E. Meyer and H. Raab.
557 Ondřejov. 0.65-m $f/3.6$ reflector + CCD. Observers P. Pravec and L. Šarounová.
587 Sormano. 0.5-m reflector + CCD. Observers F. Manca, V. Giuliani, A. Testa and P. Sicoli.
605 Marl. 0.2-m $f/10$ Schmidt-Cassegrain + CCD. Observer E. Jung.
610 Pianoro. 0.25-m $f/4$ Schmidt-Cassegrain. Observer V. Goretti.
616 Brno. 0.4-m $f/4.4$ reflector + CCD. Observer D. Hanžl. Measured by F. Hroch.
689 U.S. Naval Observatory, Flagstaff Station. Observer A. K. B. Monet. 0.20-m transit telescope + CCD.
691 Kitt Peak. 0.91-m Spacewatch telescope. Observers T. Gehrels, J. V. Scotti and J. Montani.
696 Mt. Hopkins. 1.2-m reflector + CCD. Observer C. W. Hergenrother. Measured by T. B. Spahr.
861 Barão Geraldo. 0.20-m $f/6.3$ Schmidt-Cassegrain + CCD. Observer P. R. Holvorcem.
897 YGCO Chiyoda Observatory. 0.25-m $f/6.0$ reflector + CCD. Observer T. Kojima.
900 Moriyama. 0.25-m $f/6.3$ reflector + CCD. Observer Y. Ikari.
954 Teide Observatory. 0.82-m $f/11.3$ reflector + CCD. Observers J. Licandro and M. Serra. Measured by R. Casas.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N	Obs.
C/1995 O1 (Hale-Bopp)							
C/1995 O1	1997 01	18.85529	19 12 24.11	+10 01 14.6			897
C/1995 O1	1997 01	20.86873	19 16 17.58	+10 45 20.9			897
C/1995 O1	1997 01	20.87404	19 16 18.25	+10 45 27.4			897
C/1995 O1	1997 01	22.85583	19 20 16.02	+11 30 51.2			897
C/1995 O1	1997 01	26.86316	19 28 42.92	+13 09 07.2			897
C/1995 O1	1997 01	26.86972	19 28 43.79	+13 09 17.0			897
C/1995 O1	1997 01	30.84391	19 37 46.29	+14 55 52.2			897
C/1995 O1	1997 01	30.85387	19 37 47.76	+14 56 09.6			897
C/1995 O1	1997 02	14.83744	20 20 20.23	+23 12 08.1			897
C/1995 O1	1997 02	14.86924	20 20 26.79	+23 13 21.7			897
C/1995 O1	1997 02	16.86392	20 27 30.69	+24 31 25.6			897
C/1995 O1	1997 02	17.85403	20 31 10.78	+25 11 11.1			897
C/1995 O1	1997 02	17.85910	20 31 11.97	+25 11 25.1			897
C/1995 O1	1997 02	19.85740	20 38 57.62	+26 33 40.6			897
C/1995 O1	1997 02	20.13603	20 40 04.94	+26 45 24.0			084
C/1995 O1	1997 02	20.13672	20 40 05.08	+26 45 26.1			084
C/1995 O1	1997 02	20.13744	20 40 05.28	+26 45 27.8			084
C/1995 O1	1997 02	20.13823	20 40 05.46	+26 45 29.9			084
C/1995 O1	1997 02	22.86326	20 51 37.90	+28 42 08.8			897
C/1995 O1	1997 03	04.84104	21 44 42.98	+36 11 48.4			897
C/1995 O1	1997 03	05.15355	21 46 42.61	+36 25 54.0			084
C/1995 O1	1997 03	05.15425	21 46 42.88	+36 25 56.3			084
C/1995 O1	1997 03	05.15493	21 46 43.11	+36 25 58.2			084
C/1995 O1	1997 03	05.15562	21 46 43.40	+36 25 59.8			084
C/1995 O1	1997 03	05.15909	21 46 44.73	+36 26 09.2			084
C/1995 O1	1997 03	05.15978	21 46 45.01	+36 26 11.4			084
C/1995 O1	1997 03	05.16046	21 46 45.30	+36 26 13.1			084
C/1995 O1	1997 03	05.16463	21 46 46.77	+36 26 19.0			084
C/1995 O1	1997 03	06.10380	21 52 55.13	+37 08 21.5			084
C/1995 O1	1997 03	06.10432	21 52 55.33	+37 08 22.5			084
C/1995 O1	1997 03	06.10490	21 52 55.55	+37 08 24.1			084
C/1995 O1	1997 03	06.11024	21 52 57.69	+37 08 38.7			084
C/1995 O1	1997 03	06.11059	21 52 57.85	+37 08 39.4			084
C/1995 O1	1997 03	08.21950	22 07 32.03	+38 40 46.9			006
C/1995 O1	1997 03	08.22784	22 07 35.54	+38 41 08.6			006
C/1995 O1	1997 03	09.15249	22 14 20.22	+39 20 19.0			084
C/1995 O1	1997 03	09.15318	22 14 20.57	+39 20 21.3			084
C/1995 O1	1997 03	09.15353	22 14 20.80	+39 20 22.2			084
C/1995 O1	1997 03	09.15595	22 14 22.09	+39 20 29.4			084
C/1995 O1	1997 03	09.15664	22 14 22.46	+39 20 31.4			084
C/1995 O1	1997 03	09.15802	22 14 22.71	+39 20 33.2			084
C/1995 O1	1997 03	11.13841	22 29 33.78	+40 40 54.8			084

C/1995 O1	1997 03 11.13911	22 29 34.14	+40 40 56.5			084	C/1995 O1	1997 04 09.84029	02 58 49.19	+40 01 16.7				006
C/1995 O1	1997 03 11.13979	22 29 34.52	+40 40 58.2			084	C/1995 O1	1997 04 09.84655	02 58 51.74	+40 01 01.8				006
C/1995 O1	1997 03 11.14880	22 29 38.72	+40 41 19.7			084	C/1995 O1	1997 04 09.85279	02 58 54.38	+40 00 47.4				006
C/1995 O1	1997 03 11.14919	22 29 38.89	+40 41 20.1			084	C/1995 O1	1997 04 16.85281	03 41 33.93	+35 22 33.5				006
C/1995 O1	1997 03 11.14964	22 29 39.12	+40 41 21.9			084	C/1995 O1	1997 04 16.85837	03 41 35.75	+35 22 20.8				006
C/1995 O1	1997 03 12.10482	22 37 20.43	+41 18 03.0			084	C/1995 O1	1997 04 16.86392	03 41 37.61	+35 22 05.9				006
C/1995 O1	1997 03 12.10539	22 37 20.75	+41 18 04.6			084	C/1995 O1	1997 04 21.84865	04 05 52.34	+31 58 05.3				006
C/1995 O1	1997 03 12.10596	22 37 20.98	+41 18 05.7			084	C/1995 O1	1997 04 21.85420	04 05 53.85	+31 57 52.1				006
C/1995 O1	1997 03 12.12317	22 37 29.44	+41 18 45.0			084	C/1995 O1	1997 04 21.85976	04 05 55.31	+31 57 38.2				006
C/1995 O1	1997 03 12.12421	22 37 30.03	+41 18 48.0			084	C/1995 O1	1997 04 21.86531	04 05 56.81	+31 57 24.6				006
C/1995 O1	1997 03 12.12940	22 37 32.53	+41 18 59.3			084	C/1995 O1	1997 04 29.85799	04 37 02.64	+26 43 19.1				006
C/1995 O1	1997 03 12.13009	22 37 32.84	+41 19 00.8			084	C/1995 O1	1997 04 30.86465	04 40 26.14	+26 05 32.9				006
C/1995 O1	1997 03 12.13078	22 37 33.17	+41 19 02.4			084	C/1995 O1	1997 04 30.86951	04 40 27.14	+26 05 21.9				006
C/1995 O1	1997 03 12.17295	22 37 53.85	+41 20 34.4			006	C/1995 O1	1997 05 05.83063	04 55 49.15	+23 06 03.2				006
C/1995 O1	1997 03 12.18131	22 37 58.02	+41 20 53.1			006	C/1995 O1	1997 05 05.83896	04 55 50.61	+23 05 45.4				006
C/1995 O1	1997 03 12.19172	22 38 03.10	+41 21 17.5			006	C/1995 O1	1997 05 05.84383	04 55 51.47	+23 05 34.7				006
C/1995 O1	1997 03 12.20212	22 38 08.16	+41 21 41.3			006	C/1995 O1	1997 05 08.85428	05 04 15.34	+21 22 17.5				006
C/1995 O1	1997 03 14.17365	22 54 47.23	+42 31 51.2			006	C/1995 O1	1997 05 12.45914	05 13 33.56	+19 23 52.4	3	T		372
C/1995 O1	1997 03 14.18200	22 54 51.56	+42 32 07.9			006	C/1995 O1	1997 07 19.82610	07 05 40.76	−08 28 49.4				422
C/1995 O1	1997 03 14.19031	22 54 56.04	+42 32 24.9			006	C/1995 O1	1997 07 19.82661	07 05 40.81	−08 28 50.2				422
C/1995 O1	1997 03 14.19865	22 55 00.16	+42 32 41.7			006	C/1995 O1	1997 07 19.82709	07 05 40.83	−08 28 50.6				422
C/1995 O1	1997 03 14.20487	22 55 03.52	+42 32 54.7			006	C/1995 O1	1997 07 19.82757	07 05 40.87	−08 28 51.4				422
C/1995 O1	1997 03 18.17434	23 31 21.51	+44 26 42.6			006	C/1995 O1	1997 07 19.82813	07 05 40.93	−08 28 52.1				422
C/1995 O1	1997 03 18.18267	23 31 26.34	+44 26 54.4			006	C/1995 O1	1997 07 20.82814	07 06 53.61	−08 50 48.8				422
C/1995 O1	1997 03 21.17225	00 00 41.05	+45 22 36.5			006	C/1995 O1	1997 07 20.82860	07 06 53.63	−08 50 49.1				422
C/1995 O1	1997 03 21.18058	00 00 45.98	+45 22 43.2			006	C/1995 O1	1997 07 20.82906	07 06 53.68	−08 50 50.1				422
C/1995 O1	1997 03 21.18891	00 00 51.00	+45 22 50.7			006	C/1995 O1	1997 07 24.82838	07 11 39.59	−10 18 49.3				422
C/1995 O1	1997 03 21.19655	00 00 55.55	+45 22 57.0			006	C/1995 O1	1997 07 24.82903	07 11 39.66	−10 18 50.0				422
C/1995 O1	1997 03 24.18337	00 31 00.22	+45 48 38.5			006	C/1995 O1	1997 07 24.82967	07 11 39.71	−10 18 50.9				422
C/1995 O1	1997 03 24.18962	00 31 04.06	+45 48 41.2			006	C/1995 O1	1997 07 28.81211	07 16 16.74	−11 46 58.4				422
C/1995 O1	1997 03 24.19587	00 31 07.67	+45 48 42.3			006	C/1995 O1	1997 07 28.81365	07 16 16.81	−11 47 00.5				422
C/1995 O1	1997 03 24.20352	00 31 12.40	+45 48 43.6			006	C/1995 O1	1997 07 28.81441	07 16 16.88	−11 47 01.5				422
C/1995 O1	1997 03 26.80627	00 57 25.01	+45 45 43.3			006	C/1995 O1	1997 07 29.80966	07 17 24.92	−12 09 09.0	9.6	N		422
C/1995 O1	1997 03 26.81322	00 57 29.17	+45 45 41.1			006	C/1995 O1	1997 07 29.81032	07 17 24.91	−12 09 09.7	9.6	N		422
C/1995 O1	1997 03 26.82016	00 57 33.27	+45 45 39.0			006	C/1995 O1	1997 07 29.81096	07 17 24.96	−12 09 10.6	9.6	N		422
C/1995 O1	1997 03 26.82711	00 57 37.64	+45 45 36.5			006	C/1995 O1	1997 07 30.8049	07 18 32.37	−12 31 18.6			1	422
C/1995 O1	1997 03 26.83406	00 57 41.81	+45 45 33.8			006	C/1995 O1	1997 07 30.8056	07 18 32.45	−12 31 19.5			1	422
C/1995 O1	1997 04 01.82017	01 54 54.49	+44 14 47.0			006	C/1995 O1	1997 07 30.8062	07 18 32.48	−12 31 20.7			1	422
C/1995 O1	1997 04 01.82711	01 54 58.33	+44 14 36.9			006	C/1995 O1	1997 08 02.7902	07 21 52.00	−13 38 06.0	10.5	N	1	422
C/1995 O1	1997 04 01.83406	01 55 01.95	+44 14 28.2			006	C/1995 O1	1997 08 02.7908	07 21 52.01	−13 38 06.5	10.6	N	1	422
C/1995 O1	1997 04 01.84100	01 55 05.68	+44 14 17.2			006	C/1995 O1	1997 08 02.7915	07 21 52.10	−13 38 06.2	10.7	N	1	422
C/1995 O1	1997 04 01.84795	01 55 09.49	+44 14 05.9			006	C/1995 O1	1997 08 04.81944	07 24 05.02	−14 23 45.7	10.2	N		422
C/1995 O1	1997 04 02.80495	02 03 38.16	+43 50 15.3			006	C/1995 O1	1997 08 05.79698	07 25 08.35	−14 45 49.6	10.7	N		422
C/1995 O1	1997 04 03.81601	02 12 21.21	+43 22 44.6			006	C/1995 O1	1997 08 05.79779	07 25 08.47	−14 45 50.5	10.6	N		422
C/1995 O1	1997 04 03.82156	02 12 24.13	+43 22 37.1			006	C/1995 O1	1997 08 05.79859	07 25 08.50	−14 45 51.1	10.7	N		422
C/1995 O1	1997 04 03.83823	02 12 32.55	+43 22 07.2			006	C/1995 O1	1997 08 07.79618	07 27 16.36	−15 31 07.6	10.9	N		422
C/1995 O1	1997 04 03.84378	02 12 35.53	+43 21 58.2			006	C/1995 O1	1997 08 07.79711	07 27 16.41	−15 31 08.9	10.9	N		422
C/1995 O1	1997 04 03.85073	02 12 38.95	+43 21 46.7			006	C/1995 O1	1997 08 07.79803	07 27 16.44	−15 31 10.1	11.0	N		422
C/1995 O1	1997 04 06.81598	02 36 40.65	+41 49 18.8			006	C/1995 O1	1997 08 09.81884	07 29 23.65	−16 17 11.5	11.3	N		422
C/1995 O1	1997 04 06.82154	02 36 43.25	+41 49 06.9			006	C/1995 O1	1997 08 09.82776	07 29 24.20	−16 17 23.6	11.4	N		422
C/1995 O1	1997 04 06.82502	02 36 44.76	+41 49 00.9			006	C/1995 O1	1997 08 09.82821	07 29 24.23	−16 17 24.4	11.4	N		422
C/1995 O1	1997 04 06.82711	02 36 45.75	+41 48 56.3			006	C/1995 O1	1997 08 10.79053	07 30 24.06	−16 39 23.8	11.4	N		422

C/1995 O1	1997 08 10.79133	07 30 24.12	−16 39 24.9	11.2 N		422
C/1995 O1	1997 08 10.79211	07 30 24.17	−16 39 25.8	11.3 N		422

C/1996 H1 (SOHO)

C/1996 H1	1996 04 29.15465	02 43 35.9	+11 52 07			249
Geocentric position (AU)		+0.00459562	+0.00877602	+0.00358216		
C/1996 H1	1996 04 29.23617	02 42 55.4	+11 59 32			249
Geocentric position (AU)		+0.00458625	+0.00878435	+0.00358329		
C/1996 H1	1996 04 29.29128	02 42 31.8	+12 06 01			249
Geocentric position (AU)		+0.00458002	+0.00878988	+0.00358403		
C/1996 H1	1996 04 29.34632	02 42 02.6	+12 10 38			249
Geocentric position (AU)		+0.00457379	+0.00879540	+0.00358478		
C/1996 H1	1996 04 29.39733	02 41 37.6	+12 14 58			249
Geocentric position (AU)		+0.00456835	+0.00880021	+0.00358542		
C/1996 H1	1996 04 29.47951	02 40 57.7	+12 22 44			249
Geocentric position (AU)		+0.00455905	+0.00880844	+0.00358652		
C/1996 H1	1996 04 29.53524	02 40 25.0	+12 29 07			249
Geocentric position (AU)		+0.00455286	+0.00881391	+0.00358724		
C/1996 H1	1996 04 29.59038	02 40 03.3	+12 34 50			249
Geocentric position (AU)		+0.00454668	+0.00881937	+0.00358796		
C/1996 H1	1996 04 29.64130	02 39 30.6	+12 40 17			249
Geocentric position (AU)		+0.00454128	+0.00882413	+0.00358858		
C/1996 H1	1996 04 29.72288	02 38 45.8	+12 48 30			249
Geocentric position (AU)		+0.00453204	+0.00883226	+0.00358964		
C/1996 H1	1996 04 29.77797	02 38 13.3	+12 55 06			249
Geocentric position (AU)		+0.00452589	+0.00883767	+0.00359035		
C/1996 H1	1996 04 29.83316	02 37 42.4	+13 00 38			249
Geocentric position (AU)		+0.00451976	+0.00884306	+0.00359104		
C/1996 H1	1996 04 29.84248	02 37 37.1	+13 02 02			249
Geocentric position (AU)		+0.00451899	+0.00884373	+0.00359113		
C/1996 H1	1996 04 29.86020	02 37 25.0	+13 04 49			249
Geocentric position (AU)		+0.00451669	+0.00884575	+0.00359139		
C/1996 H1	1996 04 29.90429	02 36 56.2	+13 09 43			249
Geocentric position (AU)		+0.00451210	+0.00884978	+0.00359190		
C/1996 H1	1996 04 29.96547	02 36 18.3	+13 17 52			249
Geocentric position (AU)		+0.00450522	+0.00885581	+0.00359267		
C/1996 H1	1996 04 30.01640	02 35 39.6	+13 24 47			249
Geocentric position (AU)		+0.00449988	+0.00886048	+0.00359327		
C/1996 H1	1996 04 30.06655	02 35 05.6	+13 32 18			249
Geocentric position (AU)		+0.00449379	+0.00886582	+0.00359394		
C/1996 H1	1996 04 30.11670	02 34 29.9	+13 39 33			249
Geocentric position (AU)		+0.00448847	+0.00887047	+0.00359453		
C/1996 H1	1996 04 30.16718	02 33 54.5	+13 46 46			249
Geocentric position (AU)		+0.00448315	+0.00887511	+0.00359511		
C/1996 H1	1996 04 30.20230	02 33 37.4	+13 49 44			249
Geocentric position (AU)		+0.00447936	+0.00887843	+0.00359552		

C/1996 J1 (Evans-Drinkwater)

C/1996 J1-A	1997 06 07.76419	02 00 19.80	+30 31 45.7	13.9 T		897
C/1996 J1-B	1997 06 07.76419	02 00 27.29	+30 32 06.7	14.3 T		897
C/1996 J1-A	1997 06 20.73594	02 19 19.56	+32 35 54.3	15.5 T		897
C/1996 J1-B	1997 06 20.73594	02 19 27.60	+32 36 10.2	14.4 T		897
C/1996 J1-B	1997 06 20.74988	02 19 28.73	+32 36 18.8			897
C/1996 J1-A	1997 06 29.72957	02 31 10.11	+33 53 59.1			897
C/1996 J1-B	1997 06 29.72957	02 31 18.85	+33 54 14.4	14.4 T		897
C/1996 J1-A	1997 06 29.73831	02 31 10.86	+33 54 05.8			897
C/1996 J1-B	1997 06 29.73831	02 31 19.53	+33 54 18.7			897
C/1996 J1-A	1997 06 29.74384	02 31 11.12	+33 54 07.2			897
C/1996 J1-B	1997 06 29.74384	02 31 19.95	+33 54 21.4			897
C/1996 J1-A	1997 07 04.72253	02 37 14.45	+34 34 51.5			897
C/1996 J1-B	1997 07 04.72253	02 37 23.37	+34 35 02.8	14.6 T		897
C/1996 J1-A	1997 07 04.72627	02 37 14.60	+34 34 53.4			897
C/1996 J1-B	1997 07 04.72627	02 37 23.61	+34 35 05.0			897
C/1996 J1-A	1997 07 04.73003	02 37 14.98	+34 34 54.2			897
C/1996 J1-B	1997 07 04.73003	02 37 23.93	+34 35 06.7			897
C/1996 J1-A	1997 07 11.46049	02 44 48.88	+35 27 14.5			696
C/1996 J1-B	1997 07 11.46049	02 44 58.24	+35 27 24.6			696
C/1996 J1-A	1997 07 11.46473	02 44 49.15	+35 27 16.2			696
C/1996 J1-B	1997 07 11.46473	02 44 58.47	+35 27 25.6			696
C/1996 J1-B	1997 07 13.05144	02 46 39.10	+35 39 16.0			616
C/1996 J1-B	1997 07 13.06003	02 46 39.62	+35 39 21.1			616
C/1996 J1-B	1997 07 13.06742	02 46 39.99	+35 39 25.1			616
C/1996 J1-B	1997 07 18.76771	02 52 20.05	+36 20 46.0	15.6 T		367
C/1996 J1-B	1997 07 18.77049	02 52 20.18	+36 20 47.3			367
C/1996 J1-B	1997 07 18.77326	02 52 20.33	+36 20 48.7			367
C/1996 J1-B	1997 07 19.76424	02 53 16.00	+36 27 46.9	15.5 T		367
C/1996 J1-B	1997 07 19.76632	02 53 16.14	+36 27 47.9			367
C/1996 J1-B	1997 07 19.76840	02 53 16.23	+36 27 49.2			367
C/1996 J1-A	1997 07 28.06935	03 00 08.89	+37 23 43.9			118
C/1996 J1-B	1997 07 28.06935	03 00 19.52	+37 23 49.4			118
C/1996 J1-A	1997 07 28.07615	03 00 09.25	+37 23 46.8	17.3 T		118
C/1996 J1-B	1997 07 28.07615	03 00 19.80	+37 23 52.1	15.9 T		118
C/1996 J1-A	1997 07 28.08134	03 00 09.48	+37 23 48.6			118
C/1996 J1-B	1997 07 28.08134	03 00 20.07	+37 23 54.1			118
C/1996 J1-B	1997 08 01.68367	03 03 40.20	+37 53 07.3	14.4 T		367
C/1996 J1-B	1997 08 01.68645	03 03 40.32	+37 53 08.5			367
C/1996 J1-B	1997 08 01.68922	03 03 40.47	+37 53 09.8			367
C/1996 J1-B	1997 08 04.07519	03 05 13.79	+38 07 46.6	16.0 T		046
C/1996 J1-B	1997 08 04.08097	03 05 14.00	+38 07 48.9			046
C/1996 J1-B	1997 08 04.08411	03 05 14.13	+38 07 50.0			046
C/1996 J1-B	1997 08 07.01716	03 06 59.02	+38 25 17.5			118
C/1996 J1-B	1997 08 07.02762	03 06 59.38	+38 25 21.4	16.1 T		118
C/1996 J1-A	1997 08 07.93775	03 07 18.21	+38 30 36.0		2	118
C/1996 J1-B	1997 08 07.93775	03 07 29.65	+38 30 38.8			118
C/1996 J1-B	1997 08 07.94065	03 07 29.72	+38 30 40.2			118
C/1996 J1-A	1997 08 07.94358	03 07 18.35	+38 30 37.9		2	118
C/1996 J1-B	1997 08 07.94358	03 07 29.81	+38 30 41.0			118
C/1996 J1-A	1997 08 07.94747	03 07 18.45	+38 30 39.1	17.7 T		118
C/1996 J1-B	1997 08 07.94747	03 07 29.96	+38 30 42.5	16.2 T		118
C/1996 J1-A	1997 08 09.02559	03 07 52.82	+38 36 52.6			118
C/1996 J1-B	1997 08 09.02559	03 08 04.39	+38 36 55.5			118
C/1996 J1-A	1997 08 09.02929	03 07 52.93	+38 36 53.9			118
C/1996 J1-B	1997 08 09.03234	03 08 04.61	+38 36 57.6			118
C/1996 J1-A	1997 08 09.03692	03 07 53.15	+38 36 57.0			118
C/1996 J1-B	1997 08 09.03692	03 08 04.74	+38 36 59.3			118

C/1996 J1-A	1997 08 09.03973	03 07 53.24	+38 36 57.9	17.1 T	118
C/1996 J1-B	1997 08 09.03973	03 08 04.83	+38 37 00.4	16.0 T	118
C/1996 J1-B	1997 08 09.71248	03 08 25.50	+38 40 51.2	15.2 T	897
C/1996 J1-B	1997 08 09.72203	03 08 25.80	+38 40 54.6		897
C/1996 J1-B	1997 08 09.72837	03 08 25.99	+38 40 56.5		897
C/1996 J1-B	1997 08 10.98666	03 09 03.26	+38 48 01.5		046
C/1996 J1-B	1997 08 10.98817	03 09 03.28	+38 48 01.9		046
C/1996 J1-B	1997 08 10.99036	03 09 03.33	+38 48 02.7		046

C/1996 M1 (SOHO)

C/1996 M1	1996 06 17.77475	05 41 03.6	+19 54 46	249
Geocentric position (AU)	+0.00143306	+0.01067965	+0.00363365	
C/1996 M1	1996 06 17.84174	05 41 16.5	+20 02 28	249
Geocentric position (AU)	+0.00143013	+0.01067967	+0.00363396	
C/1996 M1	1996 06 17.86749	05 41 23.1	+20 06 41	249
Geocentric position (AU)	+0.00142883	+0.01067968	+0.00363410	
C/1996 M1	1996 06 17.96000	05 41 41.0	+20 18 21	249
Geocentric position (AU)	+0.00142459	+0.01067970	+0.00363456	
C/1996 M1	1996 06 18.02924	05 41 54.0	+20 27 06	249
Geocentric position (AU)	+0.00142133	+0.01067970	+0.00363491	
C/1996 M1	1996 06 18.06010	05 42 04.5	+20 31 34	249
Geocentric position (AU)	+0.00141970	+0.01067970	+0.00363509	
C/1996 M1	1996 06 18.09096	05 42 07.9	+20 36 23	249
Geocentric position (AU)	+0.00141840	+0.01067970	+0.00363523	
C/1996 M1	1996 06 18.12186	05 42 16.3	+20 40 13	249
Geocentric position (AU)	+0.00141676	+0.01067969	+0.00363541	
C/1996 M1	1996 06 18.15788	05 42 23.9	+20 45 02	249
Geocentric position (AU)	+0.00141513	+0.01067968	+0.00363559	
C/1996 M1	1996 06 18.18352	05 42 28.8	+20 48 31	249
Geocentric position (AU)	+0.00141415	+0.01067968	+0.00363569	
C/1996 M1	1996 06 18.25032	05 42 46.1	+20 58 37	249
Geocentric position (AU)	+0.00141089	+0.01067965	+0.00363605	
C/1996 M1	1996 06 18.28366	05 42 55.1	+21 03 46	249
Geocentric position (AU)	+0.00140926	+0.01067963	+0.00363623	
C/1996 M1	1996 06 18.34515	05 43 10.6	+21 12 58	249
Geocentric position (AU)	+0.00140632	+0.01067959	+0.00363655	
C/1996 M1	1996 06 18.38363	05 43 22.1	+21 19 24	249
Geocentric position (AU)	+0.00140468	+0.01067956	+0.00363672	
C/1996 M1	1996 06 18.41469	05 43 30.4	+21 25 12	249
Geocentric position (AU)	+0.00140305	+0.01067954	+0.00363690	
C/1996 M1	1996 06 18.44561	05 43 38.2	+21 30 09	249
Geocentric position (AU)	+0.00140174	+0.01067951	+0.00363705	
C/1996 M1	1996 06 18.48157	05 43 49.0	+21 35 19	249
Geocentric position (AU)	+0.00140011	+0.01067948	+0.00363722	
C/1996 M1	1996 06 18.50723	05 43 59.7	+21 41 04	249
Geocentric position (AU)	+0.00139880	+0.01067945	+0.00363737	
C/1996 M1	1996 06 18.57404	05 44 22.7	+21 52 08	249
Geocentric position (AU)	+0.00139553	+0.01067938	+0.00363773	

C/1996 M2 (SOHO)

C/1996 M2	1996 06 25.72957	06 10 48.2	+19 43 00	249
Geocentric position (AU)	+0.00105767	+0.01063062	+0.00368242	
C/1996 M2	1996 06 25.86266	06 11 30.8	+19 57 20	249
Geocentric position (AU)	+0.00105143	+0.01062924	+0.00368347	
C/1996 M2	1996 06 25.93473	06 11 49.4	+20 05 58	249
Geocentric position (AU)	+0.00104782	+0.01062843	+0.00368409	
C/1996 M2	1996 06 25.96030	06 11 59.3	+20 09 15	249
Geocentric position (AU)	+0.00104684	+0.01062821	+0.00368426	
C/1996 M2	1996 06 26.05288	06 12 31.4	+20 20 47	249
Geocentric position (AU)	+0.00104224	+0.01062719	+0.00368505	
C/1996 M2	1996 06 26.12209	06 12 55.0	+20 29 01	249
Geocentric position (AU)	+0.00103896	+0.01062645	+0.00368561	
C/1996 M2	1996 06 26.15293	06 13 03.2	+20 32 41	249
Geocentric position (AU)	+0.00103764	+0.01062616	+0.00368584	
C/1996 M2	1996 06 26.18373	06 13 15.7	+20 37 39	249
Geocentric position (AU)	+0.00103633	+0.01062586	+0.00368607	
C/1996 M2	1996 06 26.21455	06 13 24.9	+20 41 28	249
Geocentric position (AU)	+0.00103468	+0.01062550	+0.00368636	
C/1996 M2	1996 06 26.25051	06 13 37.8	+20 46 17	249
Geocentric position (AU)	+0.00103304	+0.01062513	+0.00368665	
C/1996 M2	1996 06 26.27611	06 13 51.6	+20 50 06	249
Geocentric position (AU)	+0.00103172	+0.01062483	+0.00368688	
C/1996 M2	1996 06 26.34288	06 14 17.0	+20 59 27	249
Geocentric position (AU)	+0.00102876	+0.01062417	+0.00368740	
C/1996 M2	1996 06 26.37619	06 14 31.5	+21 03 41	249
Geocentric position (AU)	+0.00102712	+0.01062380	+0.00368769	
C/1996 M2	1996 06 26.43772	06 14 58.1	+21 12 58	249
Geocentric position (AU)	+0.00102415	+0.01062313	+0.00368821	
C/1996 M2	1996 06 26.47639	06 15 09.1	+21 19 47	249
Geocentric position (AU)	+0.00102218	+0.01062269	+0.00368857	
C/1996 M2	1996 06 26.50727	06 15 25.8	+21 23 35	249
Geocentric position (AU)	+0.00102086	+0.01062239	+0.00368880	
C/1996 M2	1996 06 26.53811	06 15 35.8	+21 29 13	249
Geocentric position (AU)	+0.00101954	+0.01062210	+0.00368904	
C/1996 M2	1996 06 26.57407	06 15 57.2	+21 34 58	249
Geocentric position (AU)	+0.00101757	+0.01062165	+0.00368939	
C/1996 M2	1996 06 26.59969	06 16 11.4	+21 40 21	249
Geocentric position (AU)	+0.00101658	+0.01062143	+0.00368957	
C/1996 M2	1996 06 26.66638	06 16 40.6	+21 50 23	249
Geocentric position (AU)	+0.00101328	+0.01062069	+0.00369016	
C/1996 M2	1996 06 26.69190	06 16 55.7	+21 55 13	249
Geocentric position (AU)	+0.00101196	+0.01062039	+0.00369040	

C/1996 P2 (Russell-Watson)

C/1996 P2	1997 01 26.40924	01 20 24.22	−20 14 52.9	16.4 T	897
C/1996 P2	1997 01 26.41618	01 20 24.50	−20 14 46.2		897

P/1997 B1 (Kobayashi)

P/1997 B1	1997 03 04.58965	09 41 08.74	+12 01 53.9	16.9 T	897
P/1997 B1	1997 03 04.59700	09 41 08.59	+12 01 50.3		897
P/1997 B1	1997 03 04.60241	09 41 08.39	+12 01 47.1		897

C/1997 D1 (Mueller)

C/1997 D1	1997 02 22.55609	12 34 58.59	+48 14 06.6	897
C/1997 D1	1997 02 22.56219	12 34 57.57	+48 14 14.2	897
C/1997 D1	1997 02 23.53721	12 32 09.16	+48 34 40.8	897

C/1997 D1	1997 02 23.54394	12 32 08.01	+48 34 49.4					897
C/1997 D1	1997 03 04.60856	12 02 21.86	+51 26 27.2	13.9	T			897
C/1997 D1	1997 03 04.61512	12 02 20.43	+51 26 33.9					897

C/1997 G2 (Montani)

C/1997 G2	1997 07 23.50069	14 35 52.76	−18 09 07.7	16.9	T			360
C/1997 G2	1997 07 23.51042	14 35 52.59	−18 09 12.1					360

C/1997 J1 (Mueller)

C/1997 J1	1997 05 12.48055	10 24 05.15	+71 54 32.9	14	T			372
C/1997 J1	1997 05 25.53299	09 37 29.73	+65 36 30.2	14.5	T			372
C/1997 J1	1997 05 27.55486	09 33 34.30	+64 40 05.3	14.5	T			372
C/1997 J1	1997 06 06.52813	09 21 02.89	+60 19 28.6	14	T			372
C/1997 J1	1997 06 12.51875	09 17 12.34	+57 58 13.5					372
C/1997 J1	1997 06 16.89459	09 15 31.28	+56 22 09.2	14.2	T			605
C/1997 J1	1997 06 16.90385	09 15 31.22	+56 21 57.9	14.1	T			605
C/1997 J1	1997 07 14.46293	09 16 14.50	+48 15 41.2	14.8	T			388
C/1997 J1	1997 07 14.47184	09 16 14.64	+48 15 33.4	14.8	T			388
C/1997 J1	1997 07 14.48203	09 16 14.80	+48 15 24.7	14.7	T			388
C/1997 J1	1997 07 22.44772	09 18 13.16	+46 26 16.9	14.7	T			388
C/1997 J1	1997 07 22.45085	09 18 13.18	+46 26 14.5	14.9	T			388
C/1997 J1	1997 07 22.45446	09 18 13.26	+46 26 11.4	15.1	T			388
C/1997 J1	1997 07 22.45804	09 18 13.65	+46 26 10.1	15.1	T			388
C/1997 J1	1997 07 24.47535	09 18 46.16	+46 00 21.5	16	T			372
C/1997 J1	1997 07 28.84465	09 20 00.56	+45 06 48.4					118
C/1997 J1	1997 07 28.84880	09 20 00.68	+45 06 45.5	14.7	T			118
C/1997 J1	1997 07 30.84049	09 20 35.50	+44 43 23.8	14.6	T	3		118
C/1997 J1	1997 07 30.85486	09 20 35.52	+44 43 14.8	14.5	T	3		118
C/1997 J1	1997 07 30.85809	09 20 35.66	+44 43 12.5	14.4	T	3		118
C/1997 J1	1997 08 04.82853	09 22 03.19	+43 47 41.2					118
C/1997 J1	1997 08 04.83473	09 22 03.29	+43 47 37.0					118
C/1997 J1	1997 08 04.83755	09 22 03.39	+43 47 35.4	15.2	T			118

C/1997 J2 (Meunier-Dupouy)

C/1997 J2	1997 05 11.61319	10 51 25.07	+73 43 33.9	14	T			372
C/1997 J2	1997 05 12.48576	10 50 52.21	+73 41 04.9	14	T			372
C/1997 J2	1997 05 25.53993	10 47 19.13	+72 55 57.3	14.5	T			372
C/1997 J2	1997 05 27.63820	10 47 31.22	+72 47 37.9	14.5	T			372
C/1997 J2	1997 06 06.53550	10 51 06.82	+72 05 52.5	14	T			372
C/1997 J2	1997 06 09.91769	10 53 16.90	+71 50 53.8	13.2	T			605
C/1997 J2	1997 06 09.93020	10 53 17.43	+71 50 50.9	13.3	T			605
C/1997 J2	1997 06 10.91602	10 54 00.53	+71 46 26.4	13.1	T			605
C/1997 J2	1997 06 10.92375	10 54 00.79	+71 46 23.5	13.2	T			605
C/1997 J2	1997 06 10.93546	10 54 01.38	+71 46 21.5	13.4	T			605
C/1997 J2	1997 06 12.52465	10 55 15.38	+71 39 14.2					372
C/1997 J2	1997 06 16.93362	10 59 10.08	+71 19 13.3	13.4	T			605
C/1997 J2	1997 06 16.93904	10 59 10.47	+71 19 11.2	13.3	T			605
C/1997 J2	1997 06 29.57674	11 14 00.22	+70 20 39.8					372
C/1997 J2	1997 07 06.00760	11 23 26.20	+69 50 18.9	14.0	T			139
C/1997 J2	1997 07 06.01116	11 23 26.55	+69 50 18.0	14.0	T			139
C/1997 J2	1997 07 06.01645	11 23 27.04	+69 50 16.3	14.0	T			139
C/1997 J2	1997 07 08.89260	11 28 02.47	+69 36 36.5	13.3	T			605
C/1997 J2	1997 07 08.90414	11 28 03.65	+69 36 33.0	13.3	T			605
C/1997 J2	1997 07 13.59653	11 36 01.39	+69 14 06.6	14	T			372
C/1997 J2	1997 07 19.53443	11 46 54.23	+68 45 22.9	12.0	T			367
C/1997 J2	1997 07 19.53616	11 46 54.38	+68 45 22.2					367
C/1997 J2	1997 07 19.53789	11 46 54.62	+68 45 21.5					367
C/1997 J2	1997 07 19.56843	11 46 58.13	+68 45 12.5	12.7	T			402
C/1997 J2	1997 07 19.57051	11 46 58.43	+68 45 11.8					402
C/1997 J2	1997 07 19.57259	11 46 58.64	+68 45 11.0					402
C/1997 J2	1997 07 22.52656	11 52 42.40	+68 30 42.9	12.4	T			367
C/1997 J2	1997 07 22.52830	11 52 42.67	+68 30 42.2					367
C/1997 J2	1997 07 22.53004	11 52 42.94	+68 30 41.4					367
C/1997 J2	1997 07 23.48976	11 54 37.27	+68 25 58.2	12.7	T			360
C/1997 J2	1997 07 23.49444	11 54 37.84	+68 25 56.8					360
C/1997 J2	1997 07 24.49462	11 56 38.08	+68 21 00.2	12.4	T			367
C/1997 J2	1997 07 24.49636	11 56 38.29	+68 20 59.4					367
C/1997 J2	1997 07 24.49809	11 56 38.49	+68 20 59.1					367
C/1997 J2	1997 07 24.54340	11 56 44.09	+68 20 44.6	13.8	T			372
C/1997 J2	1997 07 26.90660	12 01 34.67	+68 08 52.7	13.4	T			476
C/1997 J2	1997 07 26.91250	12 01 35.34	+68 08 52.0	13.4	T			476
C/1997 J2	1997 07 26.91875	12 01 36.07	+68 08 49.2	13.5	T			476
C/1997 J2	1997 07 27.90285	12 03 39.64	+68 03 54.0	13.2	T			605
C/1997 J2	1997 07 27.90778	12 03 40.10	+68 03 51.6	13.1	T			605
C/1997 J2	1997 07 27.91098	12 03 40.57	+68 03 50.8	13.2	T			605
C/1997 J2	1997 07 27.96634	12 03 47.41	+68 03 34.1				4	118
C/1997 J2	1997 07 27.97488	12 03 48.55	+68 03 31.3	13.0	T		4	118
C/1997 J2	1997 07 28.89735	12 05 45.33	+67 58 52.6				4	118
C/1997 J2	1997 07 28.89972	12 05 45.58	+67 58 52.4				4	118
C/1997 J2	1997 07 28.92120	12 05 48.42	+67 58 45.6	13.7	T		4	118
C/1997 J2	1997 08 06.90091	12 25 43.67	+67 12 11.4	13.1	T			540
C/1997 J2	1997 08 06.90267	12 25 43.88	+67 12 10.5					540
C/1997 J2	1997 08 08.85905	12 30 17.92	+67 01 43.5				4	118
C/1997 J2	1997 08 08.87470	12 30 20.06	+67 01 38.0				4	118
C/1997 J2	1997 08 08.88251	12 30 21.19	+67 01 35.4	12.7	T		4	118
C/1997 J2	1997 08 09.83090	12 32 35.72	+66 56 28.5					118
C/1997 J2	1997 08 09.83647	12 32 36.52	+66 56 26.7					118
C/1997 J2	1997 08 09.84240	12 32 37.35	+66 56 24.7					118
C/1997 J2	1997 08 09.84672	12 32 37.93	+66 56 23.3					118
C/1997 J2	1997 08 09.88848	12 32 43.92	+66 56 09.5					557
C/1997 J2	1997 08 09.89171	12 32 44.39	+66 56 08.3					557
C/1997 J2	1997 08 10.85551	12 35 02.19	+66 50 54.1					118
C/1997 J2	1997 08 10.86241	12 35 03.19	+66 50 52.2					046
C/1997 J2	1997 08 10.86315	12 35 03.29	+66 50 51.6					046
C/1997 J2	1997 08 10.86405	12 35 03.43	+66 50 51.7					046
C/1997 J2	1997 08 10.86457	12 35 03.52	+66 50 50.8	12.7	T			118
C/1997 J2	1997 08 10.86525	12 35 03.59	+66 50 51.2					046
C/1997 J2	1997 08 11.01662	12 35 25.43	+66 50 00.7					118
C/1997 J2	1997 08 11.01954	12 35 25.85	+66 49 59.6					118
C/1997 J2	1997 08 11.02264	12 35 26.31	+66 49 58.2					118
C/1997 J2	1997 08 11.02563	12 35 26.77	+66 49 57.6					118

C/1997 L1 (Xinglong)

C/1997 L1	1997 07 06.10108	15 18 44.80	−02 21 11.7	17.5	T			861
C/1997 L1	1997 07 06.11141	15 18 44.59	−02 21 07.5	16.7	T			861
C/1997 L1	1997 07 12.19322	15 17 37.59	−01 48 24.1					696
C/1997 L1	1997 07 12.19726	15 17 37.55	−01 48 23.3					696

C/1997 L1	1997 07 12.20113	15 17 37.50	−01 48 21.9			696
C/1997 L1	1997 07 12.20501	15 17 37.47	−01 48 21.1			696
C/1997 L1	1997 07 12.20890	15 17 37.43	−01 48 20.0			696
C/1997 L1	1997 07 23.51719	15 16 46.58	−00 58 11.6	17.4	T	360
C/1997 L1	1997 07 23.52431	15 16 46.56	−00 58 09.9			360
C/1997 L1	1997 07 29.86614	15 16 58.85	−00 35 34.1			587
C/1997 L1	1997 07 29.90035	15 16 58.99	−00 35 27.0			587
C/1997 L1	1997 07 31.18706	15 17 04.78	−00 31 16.0	21.0	N	691
C/1997 L1	1997 07 31.19350	15 17 04.81	−00 31 14.9	18	T	691
C/1997 L1	1997 07 31.19979	15 17 04.83	−00 31 13.7			691
C/1997 L1	1997 08 01.89352	15 17 14.68	−00 26 01.1			587
C/1997 L1	1997 08 07.84537	15 18 04.13	−00 09 22.7			118
C/1997 L1	1997 08 07.84920	15 18 04.16	−00 09 21.5			118
C/1997 L1	1997 08 07.85286	15 18 04.21	−00 09 21.4	18.6	T	118

C/1997 N1 (Tabur)

C/1997 N1	1997 07 12.36082	05 59 59.31	−22 52 05.6	12.3	T	861
C/1997 N1	1997 07 12.36394	06 00 00.73	−22 51 58.8	12.0	T	861
C/1997 N1	1997 07 12.36894	06 00 02.98	−22 51 49.3	12.4	T	861
C/1997 N1	1997 07 12.37370	06 00 05.18	−22 51 39.9			861
C/1997 N1	1997 07 14.37374	06 15 17.84	−21 39 36.1			861
C/1997 N1	1997 07 14.37581	06 15 18.79	−21 39 30.9			861
C/1997 N1	1997 07 14.37856	06 15 19.85	−21 39 26.9			861
C/1997 N1	1997 07 19.81353	06 55 51.54	−17 49 50.5			422
C/1997 N1	1997 07 19.81410	06 55 51.78	−17 49 49.0			422
C/1997 N1	1997 07 19.81467	06 55 52.02	−17 49 47.2			422
C/1997 N1	1997 07 19.81523	06 55 52.30	−17 49 45.9			422
C/1997 N1	1997 07 19.81579	06 55 52.50	−17 49 44.3			422
C/1997 N1	1997 07 20.82080	07 03 09.48	−17 02 19.7			422
C/1997 N1	1997 07 20.82136	07 03 09.74	−17 02 17.9			422
C/1997 N1	1997 07 20.82191	07 03 10.01	−17 02 16.5			422
C/1997 N1	1997 07 24.82239	07 31 16.45	−13 40 11.2			422
C/1997 N1	1997 07 24.82295	07 31 16.70	−13 40 09.7			422
C/1997 N1	1997 07 24.82351	07 31 16.87	−13 40 07.7			422
C/1997 N1	1997 07 24.82407	07 31 17.16	−13 40 06.4			422
C/1997 N1	1997 07 28.82267	07 57 48.12	−09 59 10.4			422
C/1997 N1	1997 07 28.82335	07 57 48.41	−09 59 07.2			422
C/1997 N1	1997 07 28.82431	07 57 48.86	−09 59 05.1			422
C/1997 N1	1997 07 28.82763	07 57 50.11	−09 58 52.4			422
C/1997 N1	1997 07 28.82866	07 57 50.51	−09 58 49.3			422
C/1997 N1	1997 07 29.82479	08 04 11.52	−09 01 11.4			422
C/1997 N1	1997 07 29.82747	08 04 12.31	−09 01 07.1			422
C/1997 N1	1997 07 29.82911	08 04 12.57	−09 01 04.0			422
C/1997 N1	1997 07 30.8259	08 10 28.31	−08 02 03.4		1	422
C/1997 N1	1997 07 30.8288	08 10 29.25	−08 01 52.8		1	422
C/1997 N1	1997 07 30.8323	08 10 30.62	−08 01 40.0		1	422

C/1997 O1 (Tilbrook)

C/1997 O1	1997 07 23.37432	12 20 36.23	−18 09 19.0			422
C/1997 O1	1997 07 23.37542	12 20 36.35	−18 09 15.2			422
C/1997 O1	1997 07 23.37651	12 20 36.52	−18 09 11.4			422
C/1997 O1	1997 07 23.39653	12 20 39.27	−18 08 06.9			422
C/1997 O1	1997 07 23.46318	12 20 48.67	−18 04 32.2			422
C/1997 O1	1997 07 23.46596	12 20 49.02	−18 04 23.5			422
C/1997 O1	1997 07 23.46876	12 20 49.36	−18 04 12.9			422
C/1997 O1	1997 07 24.37582	12 22 55.43	−17 16 25.2			422
C/1997 O1	1997 07 24.37768	12 22 55.68	−17 16 19.4			422
C/1997 O1	1997 07 24.37955	12 22 55.93	−17 16 13.9			422
C/1997 O1	1997 07 24.46684	12 23 07.80	−17 11 48.8			360
C/1997 O1	1997 07 24.46823	12 23 07.97	−17 11 44.4			360
C/1997 O1	1997 07 24.46962	12 23 08.19	−17 11 39.6			360
C/1997 O1	1997 07 24.47205	12 23 08.67	−17 11 32.7			367
C/1997 O1	1997 07 24.47899	12 23 09.58	−17 11 10.5			367
C/1997 O1	1997 07 24.48247	12 23 09.99	−17 11 00.7			367
C/1997 O1	1997 07 24.49269	12 23 11.29	−17 10 20.7			422
C/1997 O1	1997 07 24.49353	12 23 11.43	−17 10 19.1			422
C/1997 O1	1997 07 28.45656	12 31 41.73	−13 58 58.8			422
C/1997 O1	1997 07 28.45845	12 31 41.94	−13 58 53.5			422
C/1997 O1	1997 07 28.46035	12 31 42.16	−13 58 48.1			422
C/1997 O1	1997 07 29.38969	12 33 34.01	−13 17 37.4			422
C/1997 O1	1997 07 29.39054	12 33 34.14	−13 17 35.4			422
C/1997 O1	1997 07 29.39141	12 33 34.18	−13 17 33.0			422
C/1997 O1	1997 07 30.4553	12 35 39.01	−12 31 58.8		1	422
C/1997 O1	1997 07 30.4562	12 35 39.10	−12 31 56.2		1	422
C/1997 O1	1997 07 30.4571	12 35 39.21	−12 31 54.5		1	422
C/1997 O1	1997 07 30.46337	12 35 39.97	−12 31 45.0			360
C/1997 O1	1997 07 30.46545	12 35 40.16	−12 31 39.8			360
C/1997 O1	1997 07 30.46753	12 35 40.43	−12 31 34.6			360
C/1997 O1	1997 07 31.4357	12 37 31.25	−11 51 25.0		1	422
C/1997 O1	1997 07 31.4366	12 37 31.32	−11 51 22.8		1	422
C/1997 O1	1997 08 01.44836	12 39 24.36	−11 10 58.7		1	355
C/1997 O1	1997 08 01.45372	12 39 25.09	−11 10 48.3	12.7	T	402
C/1997 O1	1997 08 01.45476	12 39 25.14	−11 10 45.1			402
C/1997 O1	1997 08 01.45580	12 39 25.32	−11 10 41.8			402
C/1997 O1	1997 08 01.45762	12 39 25.27	−11 10 39.2			355
C/1997 O1	1997 08 03.35234	12 42 50.64	−09 58 20.7			422
C/1997 O1	1997 08 03.36639	12 42 52.14	−09 57 50.1			422
C/1997 O1	1997 08 03.36704	12 42 52.17	−09 57 49.1			422
C/1997 O1	1997 08 05.41210	12 46 24.40	−08 44 46.8			422
C/1997 O1	1997 08 05.41327	12 46 24.54	−08 44 44.9			422
C/1997 O1	1997 08 05.41389	12 46 24.56	−08 44 43.8			422
C/1997 O1	1997 08 09.43998	12 52 59.40	−06 34 14.8			897
C/1997 O1	1997 08 09.44120	12 52 59.52	−06 34 12.0			897
C/1997 O1	1997 08 09.44443	12 52 59.75	−06 34 05.6			897
C/1997 O1	1997 08 10.43745	12 54 33.09	−06 04 18.9			897
C/1997 O1	1997 08 10.43884	12 54 33.12	−06 04 16.8			897
C/1997 O1	1997 08 10.44023	12 54 33.40	−06 04 15.9			897

C/1997 P1 (SOHO)

C/1997 P1	1997 08 03.86464	08 26 32.9	+14 05 39		249
Geocentric position (AU)	−0.00304061	−0.00836630	−0.00393262		
C/1997 P1	1997 08 03.88757	08 26 51.7	+14 08 38		249
Geocentric position (AU)	−0.00304471	−0.00836356	−0.00393205		
C/1997 P1	1997 08 03.94450	08 27 38.6	+14 10 33		249
Geocentric position (AU)	−0.00305563	−0.00835624	−0.00393051		

C/1997 P1	1997 08 03.98904	08 28 05.9	+14 14 26	249
Geocentric position (AU)	−0.00306382	−0.00835074	−0.00392936	
C/1997 P1	1997 08 04.03131	08 28 40.0	+14 16 58	249
Geocentric position (AU)	−0.00307337	−0.00834431	−0.00392802	
C/1997 P1	1997 08 04.07297	08 29 08.1	+14 19 08	249
Geocentric position (AU)	−0.00308156	−0.00833878	−0.00392685	
C/1997 P1	1997 08 04.10087	08 29 31.9	+14 20 31	249
Geocentric position (AU)	−0.00308703	−0.00833509	−0.00392607	
C/1997 P1	1997 08 04.13899	08 29 58.6	+14 25 14	249
Geocentric position (AU)	−0.00309385	−0.00833047	−0.00392509	
C/1997 P1	1997 08 04.16811	08 30 16.8	+14 25 13	249
Geocentric position (AU)	−0.00309932	−0.00832677	−0.00392431	
C/1997 P1	1997 08 04.19381	08 30 37.6	+14 27 53	249
Geocentric position (AU)	−0.00310478	−0.00832307	−0.00392352	
C/1997 P1	1997 08 04.22575	08 31 08.0	+14 28 48	249
Geocentric position (AU)	−0.00311160	−0.00831843	−0.00392253	
C/1997 P1	1997 08 04.24450	08 31 20.0	+14 30 17	249
Geocentric position (AU)	−0.00311434	−0.00831657	−0.00392213	
C/1997 P1	1997 08 04.28686	08 31 52.4	+14 34 17	249
Geocentric position (AU)	−0.00312253	−0.00831100	−0.00392094	
C/1997 P1	1997 08 04.45075	08 34 05.4	+14 44 01	249
Geocentric position (AU)	−0.00315530	−0.00828857	−0.00391610	
C/1997 P1	1997 08 04.48547	08 34 32.3	+14 47 28	249
Geocentric position (AU)	−0.00316213	−0.00828388	−0.00391509	
C/1997 P1	1997 08 04.50284	08 34 47.8	+14 47 43	249
Geocentric position (AU)	−0.00316486	−0.00828200	−0.00391468	
C/1997 P1	1997 08 04.50550	08 34 54.4	+14 48 05	249
Geocentric position (AU)	−0.00316622	−0.00828106	−0.00391448	
C/1997 P1	1997 08 04.58096	08 35 56.9	+14 53 14	249
Geocentric position (AU)	−0.00318124	−0.00827070	−0.00391222	
C/1997 P1	1997 08 04.58388	08 35 56.9	+14 53 15	249
Geocentric position (AU)	−0.00318124	−0.00827070	−0.00391222	
C/1997 P1	1997 08 04.60273	08 36 11.8	+14 55 13	249
Geocentric position (AU)	−0.00318534	−0.00826786	−0.00391160	
C/1997 P1	1997 08 04.61324	08 36 25.7	+14 55 34	249
Geocentric position (AU)	−0.00318670	−0.00826692	−0.00391140	
C/1997 P1	1997 08 04.62703	08 36 38.0	+14 56 53	249
Geocentric position (AU)	−0.00318944	−0.00826503	−0.00391098	
C/1997 P1	1997 08 04.67834	08 37 22.4	+15 00 15	249
Geocentric position (AU)	−0.00320036	−0.00825745	−0.00390932	
C/1997 P1	1997 08 04.69212	08 37 34.9	+15 01 31	249
Geocentric position (AU)	−0.00320309	−0.00825556	−0.00390891	
C/1997 P1	1997 08 04.70590	08 37 47.3	+15 02 47	249
Geocentric position (AU)	−0.00320582	−0.00825366	−0.00390849	
C/1997 P1	1997 08 04.71968	08 37 54.7	+15 03 35	249
Geocentric position (AU)	−0.00320855	−0.00825176	−0.00390807	
C/1997 P1	1997 08 04.73346	08 38 11.2	+15 04 33	249
Geocentric position (AU)	−0.00321128	−0.00824986	−0.00390766	
C/1997 P1	1997 08 04.74725	08 38 24.8	+15 06 31	249
Geocentric position (AU)	−0.00321401	−0.00824796	−0.00390724	
C/1997 P1	1997 08 04.77584	08 38 48.4	+15 07 01	249
Geocentric position (AU)	−0.00321947	−0.00824416	−0.00390640	
C/1997 P1	1997 08 04.79841	08 39 07.9	+15 09 49	249
Geocentric position (AU)	−0.00322357	−0.00824130	−0.00390577	
C/1997 P1	1997 08 04.80914	08 39 19.4	+15 10 19	249
Geocentric position (AU)	−0.00322630	−0.00823939	−0.00390535	
C/1997 P1	1997 08 04.86872	08 40 12.9	+15 15 21	249
Geocentric position (AU)	−0.00323722	−0.00823175	−0.00390366	
C/1997 P1	1997 08 04.88510	08 40 29.5	+15 16 16	249
Geocentric position (AU)	−0.00323995	−0.00822984	−0.00390323	
C/1997 P1	1997 08 04.90044	08 40 47.6	+15 17 05	249
Geocentric position (AU)	−0.00324404	−0.00822697	−0.00390259	
C/1997 P1	1997 08 04.90821	08 40 50.9	+15 18 48	249
Geocentric position (AU)	−0.00324541	−0.00822601	−0.00390238	
C/1997 P1	1997 08 04.91414	08 41 00.7	+15 19 23	249
Geocentric position (AU)	−0.00324677	−0.00822505	−0.00390217	
C/1997 P1	1997 08 04.95122	08 41 39.4	+15 20 52	249
Geocentric position (AU)	−0.00325360	−0.00822026	−0.00390110	
C/1997 P1	1997 08 04.96244	08 41 47.5	+15 22 42	249
Geocentric position (AU)	−0.00325633	−0.00821834	−0.00390067	
C/1997 P1	1997 08 04.98799	08 42 11.4	+15 25 01	249
Geocentric position (AU)	−0.00326042	−0.00821546	−0.00390003	
C/1997 P1	1997 08 05.00911	08 42 34.1	+15 26 40	249
Geocentric position (AU)	−0.00326452	−0.00821258	−0.00389939	
C/1997 P1	1997 08 05.03510	08 42 58.4	+15 28 12	249
Geocentric position (AU)	−0.00326997	−0.00820873	−0.00389853	
C/1997 P1	1997 08 05.06537	08 43 35.6	+15 31 14	249
Geocentric position (AU)	−0.00327543	−0.00820487	−0.00389766	
C/1997 P1	1997 08 05.07619	08 43 44.6	+15 32 28	249
Geocentric position (AU)	−0.00327816	−0.00820294	−0.00389723	
C/1997 P1	1997 08 05.09946	08 44 08.2	+15 35 04	249
Geocentric position (AU)	−0.00328226	−0.00820005	−0.00389658	
C/1997 P1	1997 08 05.11265	08 44 20.4	+15 35 33	249
Geocentric position (AU)	−0.00328499	−0.00819811	−0.00389615	
C/1997 P1	1997 08 05.12337	08 44 28.3	+15 37 08	249
Geocentric position (AU)	−0.00328771	−0.00819618	−0.00389571	
C/1997 P1	1997 08 05.14814	08 45 00.2	+15 39 19	249
Geocentric position (AU)	−0.00329181	−0.00819328	−0.00389506	
C/1997 P1	1997 08 05.17329	08 45 29.4	+15 41 29	249
Geocentric position (AU)	−0.00329727	−0.00818940	−0.00389419	
C/1997 P1	1997 08 05.21890	08 46 21.2	+15 45 27	249
Geocentric position (AU)	−0.00330682	−0.00818261	−0.00389266	
C/1997 P1	1997 08 05.26881	08 47 22.7	+15 50 44	249
Geocentric position (AU)	−0.00331637	−0.00817581	−0.00389112	
C/1997 P1	1997 08 05.29444	08 47 53.9	+15 53 01	249
Geocentric position (AU)	−0.00332046	−0.00817289	−0.00389046	
C/1997 P1	1997 08 05.32473	08 48 29.4	+15 55 51	249
Geocentric position (AU)	−0.00332728	−0.00816802	−0.00388935	
C/1997 P1	1997 08 05.33545	08 48 44.3	+15 57 00	249
Geocentric position (AU)	−0.00332864	−0.00816704	−0.00388913	
C/1997 P1	1997 08 05.36079	08 49 14.5	+16 00 17	249
Geocentric position (AU)	−0.00333410	−0.00816314	−0.00388824	
C/1997 P1	1997 08 05.37399	08 49 35.3	+16 01 10	249
Geocentric position (AU)	−0.00333683	−0.00816118	−0.00388779	

C/1997 P1	1997 08 05.38465	08 49 46.0	+16 02 19		249
Geocentric position (AU)	−0.00333819	−0.00816020	−0.00388757		
C/1997 P1	1997 08 05.40939	08 50 19.5	+16 04 33		249
Geocentric position (AU)	−0.00334365	−0.00815629	−0.00388668		
C/1997 P1	1997 08 05.43449	08 50 53.1	+16 07 22		249
Geocentric position (AU)	−0.00334910	−0.00815237	−0.00388578		
C/1997 P1	1997 08 05.48001	08 51 56.6	+16 11 54		249
Geocentric position (AU)	−0.00335728	−0.00814649	−0.00388444		
C/1997 P1	1997 08 05.50336	08 52 28.6	+16 15 02		249
Geocentric position (AU)	−0.00336137	−0.00814354	−0.00388376		
C/1997 P1	1997 08 05.52214	08 53 00.1	+16 17 10		249
Geocentric position (AU)	−0.00336546	−0.00814059	−0.00388309		
C/1997 P1	1997 08 05.54775	08 53 38.3	+16 19 50		249
Geocentric position (AU)	−0.00337092	−0.00813665	−0.00388218		
C/1997 P1	1997 08 05.57801	08 54 25.6	+16 24 08		249
Geocentric position (AU)	−0.00337637	−0.00813271	−0.00388127		
C/1997 P1	1997 08 05.58875	08 54 46.6	+16 24 53		249
Geocentric position (AU)	−0.00337910	−0.00813074	−0.00388082		
C/1997 P1	1997 08 05.61410	08 55 31.3	+16 28 17		249
Geocentric position (AU)	−0.00338319	−0.00812778	−0.00388014		
C/1997 P1	1997 08 05.62731	08 55 56.5	+16 29 52		249
Geocentric position (AU)	−0.00338591	−0.00812580	−0.00387968		
C/1997 P1	1997 08 05.63395	08 55 58.6	+16 28 00		249
Geocentric position (AU)	−0.00338728	−0.00812481	−0.00387945		
C/1997 P1	1997 08 05.63900	08 56 18.2	+16 31 49		249
Geocentric position (AU)	−0.00338864	−0.00812383	−0.00387923		
C/1997 P1	1997 08 05.64963	08 56 29.0	+16 30 09		249
Geocentric position (AU)	−0.00339136	−0.00812185	−0.00387877		
C/1997 P1	1997 08 05.66000	08 56 50.6	+16 32 00		249
Geocentric position (AU)	−0.00339273	−0.00812086	−0.00387854		
C/1997 P1	1997 08 05.67106	08 57 13.2	+16 33 45		249
Geocentric position (AU)	−0.00339545	−0.00811888	−0.00387808		
C/1997 P1	1997 08 05.67512	08 57 29.2	+16 37 35		249
Geocentric position (AU)	−0.00339545	−0.00811888	−0.00387808		
C/1997 P1	1997 08 05.68395	08 57 40.3	+16 35 38		249
Geocentric position (AU)	−0.00339682	−0.00811789	−0.00387785		
C/1997 P1	1997 08 05.69957	08 58 22.8	+16 39 38		249
Geocentric position (AU)	−0.00340090	−0.00811492	−0.00387717		
C/1997 P1	1997 08 05.70715	08 58 34.0	+16 38 59		249
Geocentric position (AU)	−0.00340227	−0.00811393	−0.00387694		
C/1997 P1	1997 08 05.71470	08 58 54.8	+16 40 29		249
Geocentric position (AU)	−0.00340363	−0.00811293	−0.00387671		
C/1997 P1	1997 08 05.72370	08 59 16.4	+16 41 50		249
Geocentric position (AU)	−0.00340499	−0.00811194	−0.00387648		
C/1997 P1	1997 08 05.73573	08 59 48.4	+16 43 41		249
Geocentric position (AU)	−0.00340772	−0.00810996	−0.00387602		
C/1997 P1	1997 08 05.74847	09 00 26.2	+16 45 56		249
Geocentric position (AU)	−0.00341044	−0.00810797	−0.00387556		
C/1997 P1	1997 08 05.75425	09 00 42.1	+16 46 44		249
Geocentric position (AU)	−0.00341181	−0.00810698	−0.00387532		
C/1997 P1	1997 08 05.76240	09 01 07.2	+16 47 59		249
Geocentric position (AU)	−0.00341317	−0.00810598	−0.00387509		

2P/Encke

2P	1997 07 21.37214	16 23 14.73	−54 11 51.9	16.2 N		422
2P	1997 07 21.37339	16 23 15.32	−54 11 46.5	16.1 N		422
2P	1997 07 21.37401	16 23 15.58	−54 11 43.6	16.3 N		422
2P	1997 07 21.37534	16 23 16.23	−54 11 37.5	16.0 N		422
2P	1997 07 24.48645	16 43 06.73	−50 37 08.7	16.7 N		422
2P	1997 07 24.48724	16 43 06.98	−50 37 05.6	16.8 N		422
2P	1997 07 24.48803	16 43 07.26	−50 37 02.6	16.9 N		422
2P	1997 07 24.48881	16 43 07.50	−50 36 59.6	16.8 N		422
2P	1997 07 24.48961	16 43 07.69	−50 36 56.8	17.0 N		422
2P	1997 07 28.49506	17 00 41.06	−46 55 39.4	17.1 N		422
2P	1997 07 28.49579	17 00 41.17	−46 55 37.7	17.2 N		422
2P	1997 07 28.49652	17 00 41.33	−46 55 35.3	17.1 N		422
2P	1997 07 28.49725	17 00 41.50	−46 55 33.5	17.2 N		422
2P	1997 07 30.4682	17 07 22.60	−45 24 56.3	17.4 N	1	422
2P	1997 07 30.4691	17 07 22.80	−45 24 53.9	17.4 N	1	422
2P	1997 07 30.4700	17 07 22.99	−45 24 50.5	17.4 N	1	422
2P	1997 08 05.43715	17 23 12.00	−41 44 29.8		2	422
2P	1997 08 05.43796	17 23 12.09	−41 44 27.4		2	422
2P	1997 08 05.43876	17 23 12.21	−41 44 26.7		2	422

29P/Schwassmann-Wachmann 1

29P	1997 01 18.84257	12 13 22.21	−09 19 50.7	14.3 T		897
29P	1997 02 17.83414	12 07 49.06	−09 32 54.5			897
29P	1997 02 17.83625	12 07 49.02	−09 32 55.0			897
29P	1997 03 04.62066	12 02 24.09	−09 16 47.2			897
29P	1997 03 04.63139	12 02 23.83	−09 16 45.8	14.3 T		897
29P	1997 03 05.57909	12 02 00.60	−09 15 16.4	14.7 T		897
29P	1997 03 05.58950	12 02 00.37	−09 15 16.4			897

43P/Wolf-Harrington

43P	1997 07 18.78940	04 18 20.89	+29 36 15.9	13.8 T		367
43P	1997 07 18.79115	04 18 21.26	+29 36 16.4			367
43P	1997 07 18.79287	04 18 21.60	+29 36 16.6			367
43P	1997 07 19.77847	04 21 24.93	+29 37 46.4	14.2 T		367
43P	1997 07 19.78089	04 21 25.36	+29 37 47.2			367
43P	1997 07 19.78332	04 21 25.79	+29 37 47.6			367
43P	1997 08 04.08263	05 09 34.07	+29 25 31.8	14 T		557
43P	1997 08 05.06705	05 12 41.59	+29 22 21.5			118
43P	1997 08 05.07407	05 12 42.92	+29 22 20.2	14.1 T		118
43P	1997 08 08.07294	05 22 14.17	+29 10 45.7			118
43P	1997 08 08.07721	05 22 14.98	+29 10 44.5			118
43P	1997 08 08.08891	05 22 17.17	+29 10 41.7			118
43P	1997 08 08.09131	05 22 17.65	+29 10 41.0	14.0 T		118
43P	1997 08 08.18543	05 22 35.76	+29 10 16.9			954
43P	1997 08 08.19243	05 22 37.10	+29 10 15.2			954
43P	1997 08 08.20029	05 22 38.60	+29 10 13.2			954
43P	1997 08 10.06901	05 28 34.17	+29 01 30.6		5	118
43P	1997 08 10.07471	05 28 35.25	+29 01 28.7			118
43P	1997 08 10.08006	05 28 36.29	+29 01 27.3	13.9 T	5	118

46P/Wirtanen

46P	1997 01 26.38229	23 47 57.78	−08 48 26.5			897
46P	1997 01 26.39738	23 48 00.24	−08 48 05.1			897

46P	1997 01 26.39931	23 48 00.53	−08 48 02.4	12.5	T		897
46P	1997 02 09.41477	00 29 03.06	−02 38 22.2				897
46P	1997 02 23.40914	01 14 19.11	+04 09 14.1	11.7	T		897
46P	1997 02 23.41200	01 14 19.68	+04 09 19.1				897
46P	1997 03 05.41426	01 49 40.25	+09 13 50.7	11.2	T		897
46P	1997 03 05.42300	01 49 42.21	+09 14 06.7				897

48P/Johnson

48P	1997 06 30.67917	19 33 32.64	−17 20 59.9				372
48P	1997 07 03.97203	19 31 26.72	−17 46 51.7				954
48P	1997 07 03.98036	19 31 26.37	−17 46 55.8				954
48P	1997 07 03.99019	19 31 25.95	−17 47 00.6				954
48P	1997 07 03.99847	19 31 25.62	−17 47 04.7				954
48P	1997 07 05.63611	19 30 19.67	−18 00 19.8				372
48P	1997 07 11.33302	19 26 19.77	−18 48 13.5				696
48P	1997 07 11.33481	19 26 19.69	−18 48 14.5				696
48P	1997 07 11.33661	19 26 19.61	−18 48 15.1				696
48P	1997 07 11.33840	19 26 19.51	−18 48 16.0				696
48P	1997 07 11.34021	19 26 19.42	−18 48 17.0				696
48P	1997 07 22.98593	19 17 57.81	−20 30 25.8				118
48P	1997 07 22.98912	19 17 57.69	−20 30 27.5				118
48P	1997 07 22.99139	19 17 57.60	−20 30 28.6	15.6	T		118
48P	1997 07 23.92091	19 17 19.61	−20 38 39.4				954
48P	1997 07 23.93413	19 17 19.03	−20 38 46.5				954
48P	1997 07 23.94803	19 17 18.45	−20 38 53.8				954
48P	1997 07 23.96753	19 17 17.60	−20 39 04.3				954
48P	1997 07 24.05229	19 17 14.13	−20 39 56.2				954
48P	1997 07 24.06413	19 17 13.42	−20 39 55.0				954
48P	1997 07 24.07469	19 17 12.96	−20 40 00.5				954
48P	1997 07 24.08505	19 17 12.51	−20 40 06.3				954
48P	1997 07 24.58628	19 16 52.27	−20 44 30.4	15.2	T		360
48P	1997 07 24.58976	19 16 52.12	−20 44 32.3				360
48P	1997 08 04.87258	19 10 09.59	−22 20 40.7			2	118
48P	1997 08 04.88189	19 10 09.27	−22 20 45.8			2	118
48P	1997 08 06.90725	19 09 12.36	−22 37 05.9				118
48P	1997 08 06.91286	19 09 12.22	−22 37 08.7				118
48P	1997 08 07.86172	19 08 47.94	−22 44 41.1				108
48P	1997 08 07.86985	19 08 47.57	−22 44 43.8				108
48P	1997 08 07.87962	19 08 47.24	−22 44 48.1	15.6	T		108
48P	1997 08 07.89253	19 08 46.79	−22 44 55.8				118
48P	1997 08 07.90050	19 08 46.59	−22 44 59.9	15.4	T		118
48P	1997 08 09.89969	19 07 59.10	−23 00 36.1	16.0	T		046
48P	1997 08 09.90412	19 07 58.98	−23 00 38.5				046
48P	1997 08 09.90910	19 07 58.87	−23 00 40.7				046
48P	1997 08 10.90174	19 07 37.57	−23 08 17.8				118
48P	1997 08 10.90475	19 07 37.51	−23 08 19.0				118
48P	1997 08 10.91200	19 07 37.34	−23 08 22.6	15.7	T		118

49P/Arend-Rigaux

49P	1997 07 14.34649	22 45 11.19	−17 59 32.2				696
49P	1997 07 14.35038	22 45 11.18	−17 59 34.1				696
49P	1997 07 14.35426	22 45 11.11	−17 59 35.4				696

65P/Gunn

65P	1997 07 14.43881	00 55 48.12	−06 26 02.0				696
65P	1997 07 14.44060	00 55 48.16	−06 26 01.8				696
65P	1997 07 14.44240	00 55 48.21	−06 26 02.0				696
65P	1997 07 14.44419	00 55 48.25	−06 26 02.2				696
65P	1997 07 14.44598	00 55 48.30	−06 26 02.2				696
65P	1997 07 18.76207	00 57 29.94	−06 28 01.8	16.1	T		900
65P	1997 07 18.78157	00 57 30.30	−06 28 02.5	15.9	T		900
65P	1997 08 02.72551	01 00 39.66	−06 51 35.7	15.6	T		402
65P	1997 08 02.72829	01 00 39.67	−06 51 36.3				402
65P	1997 08 02.73106	01 00 39.69	−06 51 36.7				402
65P	1997 08 05.01460	01 00 45.12	−06 57 25.0				118
65P	1997 08 05.02333	01 00 45.14	−06 57 26.0				118
65P	1997 08 06.01171	01 00 45.55	−07 00 06.2				118
65P	1997 08 06.01390	01 00 45.57	−07 00 06.6	16.3	T		118
65P	1997 08 07.08075	01 00 44.54	−07 03 07.0			4	118
65P	1997 08 07.08369	01 00 44.49	−07 03 07.1			4	118
65P	1997 08 07.08875	01 00 44.50	−07 03 08.2			4	118

68P/Klemola

68P	1997 07 31.17292	14 19 46.89	−03 39 49.9	20.6	T		691
68P	1997 07 31.17694	14 19 47.03	−03 39 50.8	20.7	T		691
68P	1997 07 31.18118	14 19 47.17	−03 39 52.0	20.6	T		691

74P/Smirnova-Chernykh

74P	1997 07 14.44788	01 23 54.56	+01 53 11.6				696
74P	1997 07 14.44966	01 23 54.59	+01 53 11.8				696
74P	1997 07 14.45148	01 23 54.63	+01 53 11.9				696
74P	1997 07 14.45326	01 23 54.66	+01 53 12.3				696
74P	1997 07 14.45507	01 23 54.69	+01 53 11.9				696

78P/Gehrels 2

78P	1997 07 14.47785	03 42 09.16	+19 24 16.8				696
78P	1997 07 14.47964	03 42 09.45	+19 24 16.3				696
78P	1997 08 04.07630	04 29 32.59	+20 41 20.1	15	N		557
78P	1997 08 04.07944	04 29 33.01	+20 41 20.5	13	T		557
78P	1997 08 08.05459	04 38 29.56	+20 49 00.2				118
78P	1997 08 08.05929	04 38 30.17	+20 49 00.3				118
78P	1997 08 08.06371	04 38 30.76	+20 49 01.2	12.5	T		118
78P	1997 08 08.15792	04 38 43.51	+20 49 11.2				954
78P	1997 08 08.16958	04 38 45.07	+20 49 12.5				954
78P	1997 08 08.18169	04 38 46.69	+20 49 13.7				954
78P	1997 08 09.06780	04 40 45.31	+20 50 34.6				118
78P	1997 08 09.07427	04 40 46.19	+20 50 34.9				118
78P	1997 08 09.08169	04 40 47.17	+20 50 35.8	12.6	T		118
78P	1997 08 11.06104	04 45 11.19	+20 53 14.4				118
78P	1997 08 11.06543	04 45 11.77	+20 53 14.7				118
78P	1997 08 11.06764	04 45 12.08	+20 53 15.1	12.4	T		118

81P/Wild 2

81P	1997 01 26.50859	08 02 44.45	+18 50 58.8				897
81P	1997 01 26.51648	08 02 44.03	+18 51 01.5				897
81P	1997 01 30.28352	07 59 34.77	+19 11 56.8				689
81P	1997 01 31.28023	07 58 45.78	+19 17 30.2				689

81P	1997 02 02.27366	07 57 09.83	+19 28 35.7			689
81P	1997 02 04.26713	07 55 37.39	+19 39 36.9			689
81P	1997 02 05.26389	07 54 52.78	+19 45 04.6			689
81P	1997 02 06.26066	07 54 09.42	+19 50 29.9			689
81P	1997 02 07.25744	07 53 27.34	+19 55 52.9			689
81P	1997 02 08.25424	07 52 46.79	+20 01 12.2			689
81P	1997 02 10.24790	07 51 30.49	+20 11 39.2			689
81P	1997 02 12.50922	07 50 12.80	+20 23 09.0			897
81P	1997 02 12.53911	07 50 11.73	+20 23 18.1			897
81P	1997 02 14.23547	07 49 20.15	+20 31 39.7			689
81P	1997 02 15.23242	07 48 52.69	+20 36 25.8			689
81P	1997 02 16.22940	07 48 27.46	+20 41 07.2			689
81P	1997 02 18.22344	07 47 43.98	+20 50 11.0			689
81P	1997 02 20.21759	07 47 10.09	+20 58 48.2			689
81P	1997 02 21.21470	07 46 56.97	+21 02 56.2			689
81P	1997 02 22.21185	07 46 46.38	+21 06 57.5			689
81P	1997 02 23.20903	07 46 38.43	+21 10 50.8			689
81P	1997 03 02.19015	07 46 58.97	+21 34 24.7			689
81P	1997 03 03.18759	07 47 13.14	+21 37 13.2			689
81P	1997 03 04.18505	07 47 30.17	+21 39 52.0			689
81P	1997 03 05.46538	07 47 56.33	+21 43 03.5			897
81P	1997 03 05.49773	07 47 56.93	+21 43 08.1			897
81P	1997 03 07.17764	07 48 38.56	+21 46 54.9			689
81P	1997 03 08.17524	07 49 07.15	+21 48 57.3			689
81P	1997 03 11.16824	07 50 50.36	+21 54 04.8			689
81P	1997 03 12.16597	07 51 30.54	+21 55 28.1			689
81P	1997 03 13.16373	07 52 13.61	+21 56 40.3			689
81P	1997 03 14.16153	07 52 59.48	+21 57 42.5			689
81P	1997 03 16.15723	07 54 39.68	+21 59 16.8			689
81P	1997 03 18.15307	07 56 30.91	+22 00 08.3			689
81P	1997 03 20.14901	07 58 32.92	+22 00 17.0			689
81P	1997 03 21.14703	07 59 37.88	+22 00 05.4			689
81P	1997 03 22.14508	08 00 45.43	+21 59 42.8			689
81P	1997 03 24.14127	08 03 08.14	+21 58 23.5			689
81P	1997 03 25.13940	08 04 23.21	+21 57 27.6			689
81P	1997 03 26.13757	08 05 40.74	+21 56 19.8			689
81P	1997 03 29.13223	08 09 47.46	+21 51 46.4			689
81P	1997 03 30.13050	08 11 14.33	+21 49 52.1			689
81P	1997 07 14.16914	12 17 55.22	+01 30 27.6			696
81P	1997 07 14.17311	12 17 55.78	+01 30 23.8			696
81P	1997 07 14.17491	12 17 56.04	+01 30 21.9			696
81P	1997 07 14.17669	12 17 56.31	+01 30 20.2			696
81P	1997 07 14.17848	12 17 56.57	+01 30 16.6			696
81P	1997 07 14.18074	12 17 56.90	+01 30 16.2			696
81P	1997 07 14.18255	12 17 57.16	+01 30 14.4			696
81P	1997 07 14.18433	12 17 57.43	+01 30 12.7			696
81P	1997 07 14.18612	12 17 57.69	+01 30 10.7			696
81P	1997 07 19.51579	12 30 57.01	+00 03 19.1	13.3	T	367
81P	1997 07 19.51752	12 30 57.26	+00 03 17.7			367
81P	1997 07 19.51926	12 30 57.49	+00 03 15.4			367
81P	1997 07 22.52066	12 38 13.42	−00 45 11.7	13.0	T	367
81P	1997 07 22.52240	12 38 13.69	−00 45 13.4			367
81P	1997 07 22.52413	12 38 14.00	−00 45 14.7			367
81P	1997 07 24.48491	12 42 57.72	−01 16 41.6	12.9	T	367
81P	1997 07 24.48524	12 42 57.65	−01 16 40.5	12.5	T	372
81P	1997 07 24.48663	12 42 57.93	−01 16 42.8			367
81P	1997 07 24.48837	12 42 58.15	−01 16 44.5			367
81P	1997 07 30.47361	12 57 19.30	−02 51 25.0	12.9	T	360
81P	1997 07 30.47639	12 57 19.71	−02 51 27.7			360

88P/Howell

88P	1993 10 12.99685	03 07 18.22	+15 06 06.7	16.3	T	095

94P/Russell 4

94P	1997 07 23.47361	13 02 12.36	−03 07 26.9	18.5	T	360
94P	1997 07 23.47813	13 02 12.67	−03 07 29.1			360
94P	1997 07 23.48264	13 02 12.97	−03 07 32.6			360

96P/Machholz 1

96P	1997 07 12.30241	17 59 58.77	−25 23 22.6			696
96P	1997 07 12.30637	17 59 58.44	−25 23 23.0			696
96P	1997 07 12.31024	17 59 58.13	−25 23 23.8			696

103P/Hartley 2

103P	1997 07 04.00356	19 39 33.18	+01 12 41.5			954
103P	1997 07 04.01189	19 39 32.63	+01 12 44.5			954
103P	1997 07 04.02089	19 39 32.07	+01 12 47.4			954
103P	1997 07 04.02922	19 39 31.51	+01 12 50.7			954
103P	1997 07 04.04083	19 39 30.78	+01 12 54.8			954
103P	1997 07 04.04637	19 39 30.40	+01 12 56.9			954
103P	1997 07 11.32363	19 31 20.75	+01 50 58.7			696
103P	1997 07 11.32544	19 31 20.62	+01 50 58.4			696
103P	1997 07 11.32724	19 31 20.48	+01 50 59.9			696
103P	1997 07 11.32904	19 31 20.34	+01 51 00.3			696
103P	1997 07 14.29742	19 27 41.72	+02 03 16.5			696
103P	1997 07 14.29921	19 27 41.60	+02 03 16.6			696
103P	1997 07 14.30101	19 27 41.44	+02 03 18.0			696
103P	1997 07 14.30280	19 27 41.32	+02 03 18.0			696
103P	1997 07 14.30459	19 27 41.16	+02 03 17.8			696
103P	1997 07 22.94748	19 16 22.86	+02 26 40.5			118
103P	1997 07 22.95145	19 16 22.52	+02 26 41.2	17.5	T	118
103P	1997 07 24.57865	19 14 10.85	+02 28 55.5	16.4	T	360
103P	1997 07 24.58142	19 14 10.60	+02 28 55.6			360
103P	1997 07 26.92876	19 10 59.88	+02 30 47.3		6	118
103P	1997 07 26.93765	19 10 59.11	+02 30 48.2		6	118
103P	1997 07 27.89766	19 09 41.28	+02 31 07.2		6	118
103P	1997 07 27.90112	19 09 40.99	+02 31 06.7	17.0	T 6	118
103P	1997 07 30.88235	19 05 40.42	+02 30 26.3	17.2	T	118
103P	1997 07 30.88972	19 05 39.80	+02 30 25.9	17.0	T	118
103P	1997 08 01.90685	19 02 59.29	+02 28 33.5	17.3	T	118
103P	1997 08 01.91381	19 02 58.68	+02 28 32.5			118
103P	1997 08 04.84902	18 59 10.44	+02 23 46.0	16.5	T	046
103P	1997 08 04.85122	18 59 10.24	+02 23 45.8			046
103P	1997 08 04.85392	18 59 10.02	+02 23 45.4			046
103P	1997 08 04.91376	18 59 05.31	+02 23 37.6			118
103P	1997 08 04.92271	18 59 04.61	+02 23 36.5	17.0	T	118

103P	1997 08 08.91084	18 54 08.67	+02 13 14.9			118
103P	1997 08 08.91490	18 54 08.36	+02 13 14.5			118
103P	1997 08 08.92087	18 54 07.94	+02 13 13.0	16.6	T	118
103P	1997 08 08.94541	18 54 06.19	+02 13 10.1	16.5	T	605
103P	1997 08 08.95108	18 54 05.81	+02 13 09.1	16.5	T	605
103P	1997 08 09.88976	18 52 59.06	+02 10 04.7			046
103P	1997 08 09.89156	18 52 58.97	+02 10 04.6			046
103P	1997 08 09.89325	18 52 58.89	+02 10 04.4			046
103P	1997 08 09.89495	18 52 58.75	+02 10 03.9	17.3	N	557
103P	1997 08 09.89826	18 52 58.51	+02 10 03.1	15.5	T	557

104P/Kowal 2

104P	1997 07 11.35150	23 00 36.56	+15 28 47.1			696
104P	1997 07 11.35333	23 00 36.57	+15 28 47.7			696
104P	1997 07 11.35510	23 00 36.57	+15 28 49.1			696
104P	1997 07 11.35689	23 00 36.61	+15 28 50.3			696
104P	1997 07 14.32440	23 01 02.38	+15 56 51.0			696
104P	1997 07 14.32619	23 01 02.40	+15 56 52.1			696
104P	1997 07 14.32799	23 01 02.39	+15 56 53.1			696
104P	1997 07 14.32978	23 01 02.40	+15 56 54.1			696
104P	1997 07 14.33156	23 01 02.42	+15 56 55.1			696
104P	1997 07 18.64917	23 01 19.68	+16 36 21.4	16.4	T	402
104P	1997 07 18.65195	23 01 19.67	+16 36 22.6			402
104P	1997 07 18.65472	23 01 19.65	+16 36 24.8			402
104P	1997 07 23.03407	23 01 11.60	+17 14 30.2			118
104P	1997 07 23.04370	23 01 11.58	+17 14 35.4	16.7	T	118
104P	1997 07 26.98328	23 00 41.19	+17 46 54.1			118
104P	1997 07 27.00557	23 00 40.94	+17 47 04.5			118
104P	1997 07 28.02648	23 00 29.27	+17 55 05.8			118
104P	1997 07 28.03615	23 00 29.12	+17 55 10.3	16.6	T	118
104P	1997 07 28.45211	23 00 23.83	+17 58 24.7	19.8	N	691
104P	1997 07 28.46373	23 00 23.65	+17 58 30.2	17.7	T	691
104P	1997 08 01.72847	22 59 15.44	+18 29 57.5	16.6	T	360
104P	1997 08 01.73715	22 59 15.26	+18 30 01.2			360
104P	1997 08 02.00354	22 59 10.11	+18 31 51.3			118
104P	1997 08 02.01314	22 59 09.91	+18 31 55.3	16.8	T	118
104P	1997 08 02.69177	22 58 56.21	+18 36 37.9	15.3	T	402
104P	1997 08 02.69524	22 58 56.14	+18 36 39.0			402
104P	1997 08 04.02184	22 58 27.21	+18 45 32.3			118
104P	1997 08 04.03682	22 58 26.87	+18 45 38.2		2	118
104P	1997 08 04.04211	22 58 26.76	+18 45 39.9	16.7	T	118
104P	1997 08 04.94824	22 58 05.62	+18 51 33.4			118
104P	1997 08 04.96975	22 58 05.04	+18 51 41.6		2	118
104P	1997 08 04.97530	22 58 04.91	+18 51 43.4	17.0	T	118
104P	1997 08 05.93694	22 57 40.90	+18 57 47.0			118
104P	1997 08 05.94344	22 57 40.73	+18 57 49.4			118
104P	1997 08 05.95078	22 57 40.52	+18 57 52.5	16.7	T	118
104P	1997 08 06.98934	22 57 12.91	+19 04 12.0			118
104P	1997 08 06.99801	22 57 12.65	+19 04 14.9	16.4	T	118
104P	1997 08 08.00368	22 56 44.38	+19 10 08.7			118
104P	1997 08 08.01249	22 56 44.10	+19 10 11.5	16.1	T	118
104P	1997 08 08.95102	22 56 16.50	+19 15 31.3			118
104P	1997 08 08.95617	22 56 16.31	+19 15 33.0			118
104P	1997 08 08.95924	22 56 16.23	+19 15 34.2	16.4	T	2 118
104P	1997 08 09.99795	22 55 43.87	+19 21 12.5			046
104P	1997 08 10.00032	22 55 43.79	+19 21 13.3			046
104P	1997 08 10.00286	22 55 43.69	+19 21 14.0			046
104P	1997 08 10.00426	22 55 43.63	+19 21 14.5			118
104P	1997 08 10.00669	22 55 43.55	+19 21 15.4			118
104P	1997 08 10.01251	22 55 43.32	+19 21 17.2			118
104P	1997 08 10.01543	22 55 43.23	+19 21 18.0	16.2	T	118
104P	1997 08 10.94865	22 55 12.98	+19 26 08.9			557
104P	1997 08 10.95178	22 55 12.85	+19 26 09.9	17.1	N	557
104P	1997 08 10.95473	22 55 12.76	+19 26 10.8	15.9	T	557

116P/Wild 4

116P	1997 06 30.68819	19 41 50.41	−27 06 35.3			372
116P	1997 07 11.29924	19 31 51.55	−27 29 57.3			696
116P	1997 07 11.30103	19 31 51.44	−27 29 57.8			696
116P	1997 07 11.30282	19 31 51.34	−27 29 57.7			696
116P	1997 07 11.30461	19 31 51.23	−27 29 57.8			696
116P	1997 07 12.98582	19 30 15.80	−27 32 55.4	15.5	T	610
116P	1997 07 12.98928	19 30 15.56	−27 32 55.9			610
116P	1997 07 12.99273	19 30 15.33	−27 32 56.4			610
116P	1997 07 13.55972	19 29 43.22	−27 33 52.8			372
116P	1997 07 14.59624	19 28 44.81	−27 35 33.5	15.0	T	355
116P	1997 07 14.59969	19 28 44.63	−27 35 33.8			355
116P	1997 07 14.60194	19 28 44.52	−27 35 34.0			355
116P	1997 07 22.92994	19 21 13.19	−27 45 40.7	16.0	T	610
116P	1997 07 22.93363	19 21 12.91	−27 45 40.7			610
116P	1997 07 22.93730	19 21 12.64	−27 45 40.7			610
116P	1997 07 24.55642	19 19 50.20	−27 46 59.0	15.5	T	372
116P	1997 07 29.58316	19 15 48.76	−27 49 36.8			372
116P	1997 08 01.60660	19 13 36.11	−27 50 13.2	15.2	T	367
116P	1997 08 01.61007	19 13 35.97	−27 50 13.3			367
116P	1997 08 01.61354	19 13 35.84	−27 50 13.1			367
116P	1997 08 01.62083	19 13 35.44	−27 50 13.1	14.2	T	360
116P	1997 08 01.62760	19 13 35.13	−27 50 12.9			360
116P	1997 08 06.86971	19 10 11.23	−27 49 38.2			118
116P	1997 08 06.87590	19 10 11.02	−27 49 37.9			118
116P	1997 08 06.88223	19 10 10.74	−27 49 38.0	16.0	T	118

117P/Helin-Roman-Alu 1

117P	1997 07 13.35265	20 58 37.99	−27 49 09.6			696
117P	1997 07 13.35468	20 58 37.93	−27 49 10.0			696
117P	1997 07 13.35648	20 58 37.86	−27 49 10.4			696
117P	1997 07 13.35826	20 58 37.80	−27 49 10.9			696
117P	1997 07 13.36006	20 58 37.74	−27 49 11.6			696
117P	1997 07 28.98307	20 49 06.58	−28 53 51.8	17.2	T	046
117P	1997 07 28.99135	20 49 06.24	−28 53 53.2			046
117P	1997 08 01.66042	20 46 41.78	−29 06 53.8	16.7	T	360
117P	1997 08 01.66510	20 46 41.59	−29 06 54.7			360
117P	1997 08 01.67083	20 46 41.37	−29 06 55.8			360
117P	1997 08 02.60417	20 46 04.58	−29 10 03.9	16.0	T	402
117P	1997 08 02.60764	20 46 04.46	−29 10 04.6			402
117P	1997 08 02.61111	20 46 04.31	−29 10 05.5			402

118P/Shoemaker-Levy 4

118P	1996 12 18.67309	05 27 38.26	+08 07 43.6		372
118P	1997 01 29.57442	05 17 08.62	+12 25 43.3		897
118P	1997 01 29.58998	05 17 08.92	+12 25 50.8	13.5 T	897
118P	1997 03 04.47301	05 47 38.04	+16 47 36.9	14.4 T	897
118P	1997 03 04.48016	05 47 38.64	+16 47 39.6		897

119P/Parker-Hartley

119P	1996 12 18.65399	07 13 53.00	+17 52 10.1		372

121P/Shoemaker-Holt 2

121P	1996 12 18.69045	10 47 33.80	+21 44 05.4		372
121P	1997 03 05.53611	10 30 09.62	+32 19 15.6	14.5 T	897
121P	1997 03 05.55000	10 30 09.08	+32 19 18.9		897

126P/IRAS

126P	1997 02 09.42822	23 51 15.22	+28 46 28.5	14.6 T	897

128P/Shoemaker-Holt 1

128P-B	1997 07 14.47420	03 25 59.83	+18 30 56.2		696
128P-B	1997 07 14.47602	03 26 00.00	+18 30 56.8		696
128P-B	1997 08 11.00628	03 59 53.33	+19 54 12.9	18.0 T	046
128P-B	1997 08 11.00804	03 59 53.49	+19 54 13.0		046
128P-B	1997 08 11.01111	03 59 53.71	+19 54 13.3		046

131P/Mueller 2

131P	1997 07 14.35838	01 03 12.79	+12 16 20.9		696
131P	1997 07 14.36228	01 03 13.01	+12 16 21.9		696
131P	1997 07 14.36616	01 03 13.24	+12 16 23.7		696
131P	1997 08 02.74425	01 20 53.77	+13 55 18.8	18.8 T	402
131P	1997 08 02.74772	01 20 53.93	+13 55 17.8		402
131P	1997 08 10.03458	01 25 59.04	+14 20 24.0	19.0 T	046
131P	1997 08 10.03890	01 25 59.14	+14 20 24.8		046
131P	1997 08 10.04350	01 25 59.35	+14 20 25.9		046
131P	1997 08 10.96483	01 26 33.75	+14 23 04.0		118
131P	1997 08 10.98052	01 26 34.37	+14 23 07.1	18.6 T	118

132P/Helin-Roman-Alu 2

132P	1997 07 13.45823	01 00 00.27	+07 36 20.4		696
132P	1997 07 13.46002	01 00 00.43	+07 36 20.9		696
132P	1997 07 13.46183	01 00 00.59	+07 36 21.8		696
132P	1997 07 14.43271	01 01 26.89	+07 43 01.7	19.6 T	696
132P	1997 07 14.43450	01 01 27.06	+07 43 02.7		696
132P	1997 07 14.43628	01 01 27.21	+07 43 03.3		696
132P	1997 08 08.72874	01 36 13.44	+09 58 30.9	18.6 T	402
132P	1997 08 08.73429	01 36 13.86	+09 58 32.4		402

Note 1: time uncertain. 2: involved with star. 3: poor sky. 4: poor distribution of reference stars. 5: faint image. 6: crowded star field.

OBSERVATIONS OF MINOR PLANETS

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

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

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

010 Caussols

E. W. Elst, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium [elst@atmos.oma.be]
C. Pollas, Observatoire de la Côte d'Azur, Avenue Copernic, F-06130 Grasse, France [pollas@ocar01.obs-azur.fr]
Observers C. Pollas, D. Albanese
Measurer E. W. Elst
0.9-m Schmidt telescope

1994 CM_{13}	1994 03 10.97708	11 06 20.46	+12 33 42.0	010
1994 CM_{13}	1994 03 10.98750	11 06 19.94	+12 33 46.8	010
1994 CM_{13}	1994 03 10.99792	11 06 19.48	+12 33 47.8	010

033 Tautenburg

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

1992 HD_7	*	1992 04 30.00903	15 09 12.31	+04 03 12.3		033
1992 HD_7		1992 05 04.04861	15 06 13.46	+04 20 14.8		033
1992 HD_7		1992 05 04.98333	15 05 31.55	+04 23 39.9	17.7	033
1992 HD_7		1992 05 05.03889	15 05 28.93	+04 23 51.5		033
1992 HD_7		1992 05 05.94653	15 04 48.16	+04 26 58.6		033
1992 HD_7		1992 05 23.89861	14 52 11.40	+04 44 59.0		033
1992 HD_7		1992 05 23.94444	14 52 09.57	+04 44 55.4		033
1992 HD_7		1992 05 24.92569	14 51 34.66	+04 43 27.2		033
1992 HD_7		1992 05 25.89861	14 51 00.92	+04 41 47.7		033
1992 HD_7		1992 05 26.89722	14 50 27.36	+04 39 47.7	18.0	033
1992 HD_7		1992 05 27.89931	14 49 54.72	+04 37 33.6		033
1992 HD_7		1992 05 28.89931	14 49 23.22	+04 35 05.3		033
(5250)		1992 04 30.00903	15 03 39.49	+04 10 22.4		033
(5250)		1992 05 04.04861	15 00 14.84	+04 29 16.3		033
(5250)		1992 05 04.98333	14 59 26.92	+04 33 15.1	18.1	033
(5250)		1992 05 05.03889	14 59 24.01	+04 33 29.0		033
(5250)		1992 05 05.94653	14 58 37.38	+04 37 11.4		033
(5250)		1992 05 23.89861	14 43 49.38	+05 16 27.9		033
(5250)		1992 05 23.94444	14 43 47.28	+05 16 28.6		033
(5250)		1992 05 24.92569	14 43 03.72	+05 16 37.8		033
(5250)		1992 05 25.89861	14 42 21.42	+05 16 35.3		033
(5250)		1992 05 26.89722	14 41 38.79	+05 16 20.4	18.4	033
(5250)		1992 05 27.89931	14 40 56.96	+05 15 50.9		033
(5250)		1992 05 28.89931	14 40 16.08	+05 15 09.7		033

046 Kleť

J. Tichá, Hvězdárna Kleť, Zátkovo nábřeží 4, CZ-37001 České Budějovice, Czech Republic [klet@klet.cz]
Observers J. Tichá, M. Tichý, Z. Moravec
Measurer M. Tichý

0.57-m reflector + CCD

GSC

1977 QQ_5	1997 08 02.03278	02 02 46.63	−09 31 31.6	16.6 V	046
1977 QQ_5	1997 08 02.03384	02 02 46.94	−09 31 33.0		046
1977 QQ_5	1997 08 02.03491	02 02 47.26	−09 31 34.4		046
1977 QQ_5	1997 08 02.03598	02 02 47.54	−09 31 36.4		046
1979 US	1997 08 07.07523	23 47 47.53	−04 11 58.2	18.2 V	046
1979 US	1997 08 07.07745	23 47 47.50	−04 11 58.5		046
1979 US	1997 08 07.08253	23 47 47.43	−04 11 58.8		046
1979 US	1997 08 08.04427	23 47 32.17	−04 13 05.4	17.9 V	046
1979 US	1997 08 08.05082	23 47 32.05	−04 13 06.0		046
1979 US	1997 08 08.05394	23 47 31.98	−04 13 06.2		046
1980 SM	1997 08 07.06315	23 29 59.33	−04 52 36.5	17.1 V	046
1980 SM	1997 08 07.06708	23 29 59.25	−04 52 35.8		046
1980 SM	1997 08 07.07174	23 29 59.13	−04 52 34.9		046
1980 SM	1997 08 07.99735	23 29 38.02	−04 49 53.6	17.2 V	046
1980 SM	1997 08 08.01131	23 29 37.65	−04 49 51.3		046
1980 SM	1997 08 08.01814	23 29 37.49	−04 49 50.3		046
1981 UZ_9	1997 08 10.01466	22 15 38.45	−24 14 35.2	16.6 V	046
1981 UZ_9	1997 08 10.01819	22 15 38.22	−24 14 36.6		046
1981 UZ_9	1997 08 10.01995	22 15 38.14	−24 14 37.3		046
1981 UZ_9	1997 08 10.91265	22 14 44.45	−24 20 36.0	16.9 V	046
1981 UZ_9	1997 08 10.91564	22 14 44.25	−24 20 37.3		046
1981 UZ_9	1997 08 10.91735	22 14 44.12	−24 20 37.8		046
1982 DC_2	1997 08 07.05220	23 24 46.94	−02 50 37.7	19.2 V	046
1982 DC_2	1997 08 07.05416	23 24 46.89	−02 50 38.9		046
1982 DC_2	1997 08 07.05859	23 24 46.75	−02 50 39.3		046
1982 DC_2	1997 08 08.02933	23 24 18.40	−02 55 11.9	18.9 V	046
1982 DC_2	1997 08 08.03438	23 24 18.27	−02 55 13.1		046
1982 DC_2	1997 08 08.03940	23 24 18.15	−02 55 14.5		046
1982 EE	1997 08 06.04771	22 40 49.72	−17 42 17.8	17.2 V	046
1982 EE	1997 08 06.05015	22 40 49.62	−17 42 18.5		046
1982 EE	1997 08 06.05528	22 40 49.42	−17 42 21.0		046
1982 EE	1997 08 07.01066	22 40 13.70	−17 49 39.6	17.4 V	046
1982 EE	1997 08 07.01258	22 40 13.62	−17 49 40.4		046
1982 EE	1997 08 07.98513	22 39 36.22	−17 57 08.2		046
1982 EE	1997 08 07.98949	22 39 36.01	−17 57 10.0		046
1982 EE	1997 08 07.99247	22 39 35.92	−17 57 11.2		046
1984 SB_1	1997 08 06.05877	22 31 53.70	−16 15 36.8	16.7 V	046
1984 SB_1	1997 08 06.06017	22 31 53.65	−16 15 36.5		046
1984 SB_1	1997 08 06.06148	22 31 53.59	−16 15 36.5		046
1984 SB_1	1997 08 06.99918	22 31 11.18	−16 15 39.5	16.6 V	046
1984 SB_1	1997 08 07.00350	22 31 10.97	−16 15 39.5		046
1984 SB_1	1997 08 07.00662	22 31 10.82	−16 15 39.5		046
1987 VR	1997 08 06.07171	22 45 20.12	+03 51 43.3	17.2 V	046
1987 VR	1997 08 06.07560	22 45 19.99	+03 51 42.7		046
1987 VR	1997 08 06.07793	22 45 19.93	+03 51 42.4		046
1987 VR	1997 08 07.02730	22 44 50.60	+03 49 29.6	17.3 V	046
1987 VR	1997 08 07.03127	22 44 50.47	+03 49 29.0		046
1987 VR	1997 08 07.03360	22 44 50.39	+03 49 28.6		046
1989 BA_1	1997 08 04.05470	01 25 53.77	+47 49 09.6		046
1989 BA_1	1997 08 04.05576	01 25 53.82	+47 49 10.2		046
1989 BA_1	1997 08 04.05684	01 25 53.89	+47 49 10.9		046
1989 BA_1	1997 08 10.95141	01 31 51.26	+48 57 00.1	18.0 V	046
1989 BA_1	1997 08 10.95289	01 31 51.36	+48 57 00.7		046
1989 BA_1	1997 08 10.95510	01 31 51.44	+48 57 02.2		046
1990 TU_8	1997 07 23.93749	19 53 47.25	−25 39 41.4	16.2 V	046
1990 TU_8	1997 07 23.94170	19 53 47.01	−25 39 42.1		046
1990 TU_8	1997 07 23.94442	19 53 46.84	−25 39 42.1		046
1990 TU_8	1997 07 28.90913	19 49 13.47	−25 46 17.3	16.7 V	046
1990 TU_8	1997 07 28.91302	19 49 13.25	−25 46 17.6		046
1990 TU_8	1997 07 28.91502	19 49 13.13	−25 46 17.8		046
1992 LR	1997 07 31.05979	01 32 35.59	+17 47 57.9	17.7 V	046
1992 LR	1997 07 31.06104	01 32 35.76	+17 47 58.8		046
1992 LR	1997 07 31.06221	01 32 35.94	+17 47 59.6		046
1992 LR	1997 07 31.06394	01 32 36.13	+17 48 01.3		046
1994 TN_3	1997 07 28.92376	20 45 38.84	−21 04 42.3	18.5 V	046
1994 TN_3	1997 07 28.92729	20 45 38.53	−21 04 43.2		046
1994 TN_3	1997 07 28.93258	20 45 38.24	−21 04 43.3		046
1994 TN_3	1997 07 28.93435	20 45 38.09	−21 04 44.0		046
1994 TN_3	1997 08 04.89292	20 38 31.66	−21 30 07.1	18.7 V	046
1994 TN_3	1997 08 04.90578	20 38 30.85	−21 30 09.4		046
1994 TN_3	1997 08 04.90806	20 38 30.76	−21 30 10.3		046
1994 TN_3	1997 08 04.91262	20 38 30.40	−21 30 11.7		046
1995 EC	1997 07 31.03539	22 51 19.47	−10 04 07.2	18.3 V	046

1995 EC	1997 07 31.03892	22 51 19.36	−10 04 07.8			046	1997 NV		1997 08 07.96994	19 17 00.53	−16 24 51.9			046
1995 EC	1997 07 31.04245	22 51 19.24	−10 04 08.3			046	1997 NV		1997 08 07.97278	19 17 00.40	−16 24 51.8			046
1995 EC	1997 08 03.02471	22 49 48.90	−10 14 28.5	18.1	V	046	1997 NU_6		1997 07 23.92472	19 28 57.33	−10 24 11.9	18.5	V	046
1995 EC	1997 08 03.02889	22 49 48.72	−10 14 29.1			046	1997 NU_6		1997 07 23.92648	19 28 57.27	−10 24 12.1			046
1995 EC	1997 08 03.03368	22 49 48.61	−10 14 30.3			046	1997 NU_6		1997 07 23.92824	19 28 57.13	−10 24 12.6			046
1996 BJ	1997 07 23.90925	19 48 00.85	−20 32 36.2	17.4	V	046	1997 NU_6		1997 07 23.93001	19 28 57.05	−10 24 12.7			046
1996 BJ	1997 07 23.91134	19 48 00.73	−20 32 36.0			046	1997 NP_{10}		1997 07 14.00670	21 12 06.58	−00 56 56.5	20.0	V F	046
1996 BJ	1997 07 23.91325	19 48 00.58	−20 32 36.1			046	1997 NP_{10}		1997 07 14.01233	21 12 06.73	−00 56 49.8		F	046
1996 BJ	1997 07 28.89574	19 42 54.75	−20 39 31.6	18.1	V	046	1997 NP_{10}		1997 07 14.01787	21 12 06.94	−00 56 47.4		F	046
1996 BJ	1997 07 28.90005	19 42 54.51	−20 39 31.3			046	1997 OH		1997 07 27.97766	20 05 35.40	−13 33 58.4	19.0	V	046
1996 BJ	1997 07 28.90233	19 42 54.36	−20 39 32.5			046	1997 OH		1997 07 27.97995	20 05 35.25	−13 33 52.5			046
1996 HP_1	1997 08 04.91699	21 48 11.53	+01 32 42.6	19.3	V	046	1997 OL	*	1997 07 28.89574	19 42 52.87	−20 42 59.5	18.5	V	046
1996 HP_1	1997 08 04.92124	21 48 11.35	+01 32 41.7			046	1997 OL		1997 07 28.89818	19 42 52.68	−20 42 59.9			046
1996 HP_1	1997 08 04.92558	21 48 11.12	+01 32 40.4			046	1997 OL		1997 07 28.90005	19 42 52.58	−20 43 00.4			046
1996 HP_1	1997 08 06.00189	21 47 21.32	+01 27 30.5	19.4	V	046	1997 OL		1997 07 28.90233	19 42 52.43	−20 43 01.5			046
1996 HP_1	1997 08 06.00611	21 47 21.02	+01 27 28.2			046	1997 OL		1997 07 29.86339	19 41 54.10	−20 48 55.7			046
1996 HP_1	1997 08 06.01675	21 47 20.51	+01 27 26.3			046	1997 OL		1997 07 29.86538	19 41 53.91	−20 48 57.6			046
1996 HP_1	1997 08 06.98873	21 46 35.19	+01 22 34.6	19.4	V	046	1997 OL		1997 07 29.86727	19 41 53.84	−20 48 58.2			046
1996 HP_1	1997 08 06.99331	21 46 34.96	+01 22 33.1			046	1997 OL		1997 07 29.86962	19 41 53.60	−20 48 58.2			046
1996 HP_1	1997 08 06.99557	21 46 34.89	+01 22 32.4			046	1997 OM_1	*	1997 07 29.88993	20 54 39.45	−05 56 06.5	17.4	V	046
1996 LA	1997 07 28.96366	20 55 18.66	−05 52 27.4	18.5	V	046	1997 OM_1		1997 07 29.89183	20 54 39.36	−05 56 07.1			046
1996 LA	1997 07 28.96756	20 55 18.47	−05 52 28.1			046	1997 OM_1		1997 07 29.89372	20 54 39.26	−05 56 07.4			046
1996 LA	1997 07 28.97002	20 55 18.37	−05 52 28.4			046	1997 OM_1		1997 07 31.01348	20 53 45.98	−06 00 50.3	17.7	V	046
1996 LA	1997 07 28.97502	20 55 18.13	−05 52 29.2			046	1997 OM_1		1997 07 31.01549	20 53 45.92	−06 00 50.7			046
1996 LA	1997 07 29.88993	20 54 36.87	−05 54 59.7	17.8	V	046	1997 OM_1		1997 07 31.01738	20 53 45.82	−06 00 51.1			046
1996 LA	1997 07 29.89372	20 54 36.68	−05 55 00.6			046	1997 OM_1		1997 07 31.01975	20 53 45.68	−06 00 51.7			046
1996 LA	1997 07 29.89600	20 54 36.57	−05 55 00.7			046	1997 OM_1		1997 07 31.02179	20 53 45.58	−06 00 52.2			046
1996 LA	1997 07 31.01348	20 53 45.75	−05 58 11.2	17.8	V	046	1997 PH		1997 08 04.93147	21 18 41.85	−27 38 06.1	17.6	V	046
1996 LA	1997 07 31.01738	20 53 45.56	−05 58 11.7			046	1997 PH		1997 08 04.93355	21 18 41.68	−27 38 06.5			046
1996 LA	1997 07 31.02179	20 53 45.37	−05 58 12.5			046	1997 PH		1997 08 04.93579	21 18 41.61	−27 38 06.4			046
1996 LA	1997 08 02.00010	20 52 15.26	−06 04 05.0	17.8	V	046	1997 PH		1997 08 04.93796	21 18 41.41	−27 38 07.7			046
1996 LA	1997 08 02.00485	20 52 15.07	−06 04 06.0			046	1997 PH		1997 08 04.94111	21 18 41.24	−27 38 07.9			046
1996 LA	1997 08 02.00932	20 52 14.80	−06 04 07.2			046	1997 PH		1997 08 06.97256	21 16 36.37	−27 44 57.5	17.5	V	046
1997 NV	1997 07 08.93931	19 45 42.64	−16 30 12.0	17.7	V	046	1997 PH		1997 08 06.97457	21 16 36.18	−27 44 57.5			046
1997 NV	1997 07 08.94179	19 45 42.49	−16 30 11.9			046	1997 PH		1997 08 06.97679	21 16 36.05	−27 44 57.4			046
1997 NV	1997 07 08.94402	19 45 42.34	−16 30 11.7			046	1997 PH		1997 08 06.97947	21 16 35.88	−27 44 58.3			046
1997 NV	1997 07 09.97156	19 44 40.42	−16 29 25.9	17.8	V	046	1997 PH		1997 08 06.98248	21 16 35.77	−27 44 58.4			046
1997 NV	1997 07 09.97552	19 44 40.19	−16 29 25.8			046	1997 PN		1997 08 02.85337	20 24 55.75	−20 53 40.1	18.1	V	046
1997 NV	1997 07 09.98253	19 44 39.75	−16 29 25.4			046	1997 PN		1997 08 02.85502	20 24 55.61	−20 53 31.7			046
1997 NV	1997 07 12.93333	19 41 38.95	−16 27 32.4	17.3	V	046	1997 PN		1997 08 02.85635	20 24 55.42	−20 53 23.0			046
1997 NV	1997 07 12.93542	19 41 38.85	−16 27 32.4			046	1997 PN		1997 08 02.85812	20 24 55.18	−20 53 14.0			046
1997 NV	1997 07 12.93935	19 41 38.58	−16 27 32.5			046	1997 PN		1997 08 02.85954	20 24 54.96	−20 53 05.8			046
1997 NV	1997 07 23.88784	19 30 19.09	−16 23 56.8	17.0	V	046	1997 PN		1997 08 03.85120	20 22 44.66	−19 20 02.3			046
1997 NV	1997 07 23.89035	19 30 18.91	−16 23 56.6			046	1997 PN		1997 08 03.85228	20 22 44.47	−19 19 56.7	18.3	V	046
1997 NV	1997 07 23.90183	19 30 18.24	−16 23 57.0			046	1997 PN		1997 08 03.85334	20 22 44.32	−19 19 51.0			046
1997 NV	1997 07 23.90377	19 30 18.13	−16 23 56.8			046	1997 PN		1997 08 03.85442	20 22 44.27	−19 19 45.5			046
1997 NV	1997 07 27.96869	19 26 17.93	−16 23 42.1	17.3	V	046	1997 PN		1997 08 04.87216	20 20 35.59	−17 45 22.8	18.0	V	046
1997 NV	1997 07 27.97154	19 26 17.80	−16 23 40.8			046	1997 PN		1997 08 04.87352	20 20 35.40	−17 45 14.9			046
1997 NV	1997 07 27.97301	19 26 17.75	−16 23 42.0			046	1997 PN		1997 08 04.87664	20 20 35.03	−17 44 58.7			046
1997 NV	1997 08 01.96839	19 21 44.48	−16 23 56.9	17.2	V	046	1997 PN		1997 08 09.92593	20 11 19.79	−10 21 34.7	18.5	V	046
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1997 PN		1997 08 09.93156	20 11 19.17	−10 21 06.7		046
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1997 PN		1997 08 10.87350	20 09 51.35	−09 04 10.4		046
1997 PN		1997 08 10.87479	20 09 51.19	−09 04 03.7		046
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1997 PO		1997 08 02.83192	20 14 18.21	−10 18 07.3	17.0 V	046
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1997 PO		1997 08 03.82876	20 14 00.20	−10 49 47.3	17.1 V	046
1997 PO		1997 08 03.82997	20 14 00.19	−10 49 50.0		046
1997 PO		1997 08 03.83164	20 14 00.15	−10 49 53.4		046
1997 PO		1997 08 03.83284	20 14 00.11	−10 49 55.7		046
1997 PO		1997 08 03.83492	20 14 00.06	−10 49 59.3		046
1997 PO		1997 08 04.88010	20 13 41.92	−11 23 11.0	17.4 V	046
1997 PO		1997 08 04.88346	20 13 41.86	−11 23 17.5		046
1997 PO		1997 08 04.88551	20 13 41.82	−11 23 21.5		046
1997 PO		1997 08 09.93819	20 12 29.67	−14 02 25.9	17.7 V	046
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1997 PO		1997 08 09.94081	20 12 29.65	−14 02 31.1		046
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1997 PO		1997 08 09.94402	20 12 29.59	−14 02 36.7		046
1997 PP		1997 08 04.02324	21 19 27.28	−27 36 50.7	17.7 V	046
1997 PP		1997 08 04.02466	21 19 27.23	−27 36 51.7		046
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1997 PP		1997 08 04.02848	21 19 27.02	−27 36 51.8		046
1997 PP		1997 08 04.02975	21 19 26.98	−27 36 51.5		046
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1997 PP		1997 08 04.93355	21 18 54.93	−27 36 48.2		046
1997 PP		1997 08 04.93579	21 18 54.85	−27 36 48.2		046
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1997 PX_1	*	1997 08 07.01066	22 39 40.05	−17 42 13.2	17.5 V	046
1997 PX_1		1997 08 07.01258	22 39 39.96	−17 42 14.1		046
1997 PX_1		1997 08 07.01449	22 39 39.94	−17 42 15.5		046
1997 PX_1		1997 08 07.01833	22 39 39.74	−17 42 16.9		046
1997 PX_1		1997 08 07.02030	22 39 39.65	−17 42 17.8		046
1997 PX_1		1997 08 07.02277	22 39 39.54	−17 42 19.1		046
1997 PX_1		1997 08 07.98513	22 38 58.96	−17 50 05.2	17.5 V	046
1997 PX_1		1997 08 07.98719	22 38 58.86	−17 50 06.3		046
1997 PX_1		1997 08 07.98949	22 38 58.77	−17 50 07.5		046
1997 PX_1		1997 08 07.99247	22 38 58.64	−17 50 08.8		046
1997 PY_1	*	1997 08 07.06315	23 29 53.22	−04 51 50.0	19.0 V	046
1997 PY_1		1997 08 07.06512	23 29 53.13	−04 51 50.4		046
1997 PY_1		1997 08 07.06708	23 29 53.10	−04 51 50.3		046
1997 PY_1		1997 08 07.06941	23 29 53.06	−04 51 50.9		046
1997 PY_1		1997 08 07.07174	23 29 52.97	−04 51 51.2		046
1997 PY_1		1997 08 08.01362	23 29 24.73	−04 52 04.1	19.0 V	046
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1997 PY_1		1997 08 08.02436	23 29 24.35	−04 52 04.7		046
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(239)		1997 08 03.05350	01 29 08.31	+09 31 40.0		046
(239)		1997 08 03.05801	01 29 08.53	+09 31 40.6		046
(433)		1997 08 11.05551	04 20 38.50	+32 29 44.4	13.2 V	046
(433)		1997 08 11.05653	04 20 38.71	+32 29 45.1		046
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(1877)		1997 07 14.03333	00 48 26.80	+06 27 18.8	16.7 V	046
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(1877)		1997 07 31.04994	00 51 35.04	+07 58 40.4	16.8 V	046
(1877)		1997 07 31.05280	00 51 35.04	+07 58 41.2		046
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(1943)		1997 08 10.88135	21 48 32.43	+17 22 29.8	15.3 V	046
(1943)		1997 08 10.88397	21 48 32.17	+17 22 28.4		046
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(1980)		1997 07 28.84861	17 42 56.70	+44 24 07.7	14.2 V	046
(1980)		1997 07 28.84992	17 42 56.58	+44 24 09.6		046
(1980)		1997 07 28.85764	17 42 55.76	+44 24 20.9		046
(1980)		1997 07 28.86053	17 42 55.43	+44 24 25.4		046
(2100)		1997 08 08.09284	01 42 20.35	+24 20 48.7	16.5 V	046
(2100)		1997 08 08.09438	01 42 20.40	+24 20 47.6		046
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(2100)		1997 08 10.96409	01 43 52.41	+23 43 08.3	16.4 V	046
(2100)		1997 08 10.96693	01 43 52.49	+23 43 06.0		046
(2100)		1997 08 10.96873	01 43 52.53	+23 43 04.5		046
(2865)		1997 08 08.09159	01 42 04.48	+24 19 06.1	15.9 V	046
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(3102)		1997 07 31.07543	03 53 41.00	+16 59 11.6	18.0 V	046
(3102)		1997 07 31.07955	03 53 41.70	+16 59 11.7		046
(3102)		1997 07 31.08074	03 53 41.87	+16 59 11.7		046
(3102)		1997 07 31.08233	03 53 42.14	+16 59 12.0		046
(3102)		1997 08 03.06525	04 01 56.76	+17 02 58.0		046
(3102)		1997 08 03.06663	04 01 57.05	+17 02 59.4	17.9 V	046
(3102)		1997 08 03.06791	04 01 57.11	+17 02 59.1		046
(5143)		1997 08 10.88934	22 16 06.24	−05 48 31.5	17.3 V	046
(5143)		1997 08 10.89227	22 16 05.89	−05 48 32.9		046
(5143)		1997 08 10.89390	22 16 05.71	−05 48 33.9		046
(5202)		1997 07 09.95953	19 43 05.98	−10 50 03.2	16.9 V	046
(5202)		1997 07 09.96777	19 43 05.50	−10 50 02.3		046
(5202)		1997 07 23.92472	19 28 29.45	−10 26 30.0	16.8 V	046
(5202)		1997 07 23.92648	19 28 29.34	−10 26 29.7		046
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(7482)		1997 07 27.83913	18 19 34.70	−16 56 57.5		046
(7482)		1997 07 27.86203	18 19 32.81	−16 58 04.8	16.8 V	046

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0.50-m f/1.4 Schmidt

(20)	1997 07 05.90972	18 43 55.76	−21 58 51.6		071
(147)	1997 07 05.90972	18 48 34.44	−21 24 49.9		071
(163)	1997 07 02.90753	19 35 45.68	−15 41 15.0		071
(163)	1997 07 02.99434	19 35 40.64	−15 41 26.3		071
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(307)	1997 07 02.88115	18 55 02.48	−22 57 00.8		071
(658)	1997 08 01.91384	20 32 52.76	−20 29 56.7		071
(1262)	1997 08 01.91384	20 36 34.47	−19 39 07.0		071
(1262)	1997 08 01.98548	20 36 31.07	−19 39 37.1		071
(1954)	1997 07 05.90972	18 52 53.19	−20 56 15.5		071
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(2524)	1997 07 02.88115	18 59 27.09	−22 42 53.1		071
(2524)	1997 07 03.04133	18 59 18.53	−22 43 12.1		071

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0.4-m f/4 double astrograph
PPM

1982 SO_4	1993 09 23.95007	00 21 43.45	−01 08 49.3			E	095
1982 SO_4	1993 10 12.85174	00 01 24.18	−01 11 21.6			E	095
1987 RZ	1993 09 23.95007	00 41 07.31	+01 16 02.7				095
1987 RZ	1993 10 12.85174	00 27 47.64	−00 15 43.2			E	095
1988 RY_5	1993 09 23.95007	00 13 12.57	+01 35 43.4	16.5		E	095
1989 SU	1993 09 15.90392	00 25 39.01	+10 56 35.9				095
1989 SU	1993 09 23.87854	00 18 56.25	+10 26 55.3			r	095
1989 SX	1993 10 12.85174	00 19 43.92	−02 11 36.0			r	095
1989 UB_3	1993 09 24.02228	01 54 13.32	+04 17 41.2				095
1989 UB_3	1993 10 12.92325	01 40 15.07	+03 21 40.3				095
1989 UJ_3	1993 09 15.97752	00 44 42.02	+06 55 39.2				095
1989 UJ_3	1993 10 12.85174	00 15 58.61	+06 52 54.2			E	095
1991 TS_{14}	1991 10 05.89583	01 56 53.81	+13 18 51.7	16.0			095
1991 TS_{14}	1991 10 05.90972	01 56 52.89	+13 18 46.1	16.0			095
1992 GF_4	1993 10 12.92325	01 51 01.35	+07 35 36.2				095
1993 RE	1993 09 15.90392	00 00 43.57	+03 35 04.1			E	095
1993 RE	1993 09 23.87854	23 53 52.97	+02 49 58.1				095
1993 RF_2	1993 09 15.97752	00 24 11.24	+03 43 50.1			E	095
1993 RF_2	1993 09 23.87854	00 16 15.06	+03 28 11.6				095
1993 RF_2	1993 09 23.95007	00 16 10.44	+03 28 02.3				095
1993 RF_2	1993 10 12.85174	23 58 29.09	+02 45 49.1				095
1993 RH_2	1993 09 23.95007	00 26 43.05	+03 19 40.6				095
1993 RH_2	1993 10 12.85174	00 05 24.20	+04 35 10.2				095
1993 RL_5	1993 09 23.87854	00 20 15.17	+06 30 39.5				095
1993 RL_5	1993 09 23.95007	00 20 10.96	+06 30 20.2				095
1993 RT_6	1993 10 12.85174	00 12 06.58	+02 58 08.5	16.5			095
1993 RB_7	1993 09 23.95007	00 27 20.09	+04 10 53.1				095
1993 RU_{20}	* 1993 09 15.90392	00 09 53.32	+10 01 03.2	16.0			095
1993 RU_{20}	1993 09 23.87854	00 02 53.06	+09 34 13.3	16.0			095
1993 RV_{20}	* 1993 09 15.90392	00 13 09.45	+08 36 49.3	16.0			095
1993 RV_{20}	1993 09 23.87854	00 06 07.27	+08 28 45.4	16.0			095
1993 RW_{20}	* 1993 09 15.97752	00 33 18.73	+00 50 26.4	16.5			095
1993 RW_{20}	1993 09 23.95007	00 28 04.52	+00 32 52.0	16.5			095
1993 RX_{20}	* 1993 09 15.97752	00 34 40.16	+03 53 56.8	16.2		I	095
1993 RX_{20}	1993 09 23.95007	00 28 56.08	+02 48 03.6	16.5			095
1993 RY_{20}	* 1993 09 15.97752	00 35 40.08	+04 38 05.8	16.5			095
1993 RY_{20}	1993 09 23.95007	00 28 56.61	+04 08 50.6	16.5			095
1993 RZ_{20}	* 1993 09 15.97752	00 37 22.90	+02 29 08.2	16.5			095
1993 RZ_{20}	1993 09 23.95007	00 32 13.48	+02 00 29.0	16.3			095
1993 RA_{21}	* 1993 09 15.97752	00 39 06.49	+07 56 01.2	16.2		E	095
1993 RA_{21}	1993 09 23.95007	00 32 16.21	+07 18 02.8	16.3		E	095
1993 RB_{21}	* 1993 09 15.97752	00 43 03.30	+05 16 48.3	16.5			095
1993 RB_{21}	1993 09 23.95007	00 37 08.14	+04 25 01.1	16.3			095
1993 RC_{21}	* 1993 09 15.97752	00 48 24.02	+03 13 36.9	16.2			095
1993 RC_{21}	1993 09 23.95007	00 40 54.61	+02 42 55.0	16.3			095
1993 RD_{21}	* 1993 09 15.97752	00 57 46.55	+04 17 21.3	16.5		E	095
1993 RD_{21}	1993 09 23.95007	00 49 57.08	+04 21 54.7	16.3		E	095
1993 SR_1	1993 09 15.97752	01 00 28.02	+01 09 59.6			E	095
1993 SK_3	1993 10 12.85174	00 04 49.45	+03 44 52.9				095
1993 SL_6	1993 09 15.97752	00 44 58.38	+04 13 36.1				095
1993 SL_6	1993 09 23.95007	00 39 16.79	+03 30 04.7				095
1993 TC	1993 09 24.02228	02 11 15.18	+05 55 36.7	16.2			095
1993 TQ	1993 10 12.92325	02 05 18.33	+01 32 30.4				095
1993 TX	1993 09 24.02228	02 04 33.90	+00 41 49.1			E	095
1993 TX	1993 10 12.92325	01 49 02.85	+02 09 05.5				095
1993 TC_1	1993 09 24.02228	01 52 47.29	+06 29 09.7	16.0			095
1993 TC_3	1993 09 24.02228	01 58 18.67	+09 29 35.5			E	095
1993 TC_3	1993 10 12.92325	01 46 28.68	+07 30 56.2				095
1993 UF_1	1993 10 12.99685	03 07 01.91	+14 51 41.0	16.3			095
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1994 YT	1993 09 23.95007	00 32 57.12	+08 00 20.5			E	095
1996 ST	1993 09 23.95007	00 29 06.99	+05 22 30.4				095
2553 P-L	1993 09 15.97752	00 48 13.34	+05 21 35.8				095
2553 P-L	1993 09 23.95007	00 42 48.62	+04 49 28.4				095
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(27)	1993 09 15.97752	00 44 42.15	+01 46 19.5				095
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(27)	1993 10 12.85174	00 20 26.55	−00 51 55.9				095
(75)	1993 09 15.90392	00 30 39.89	+03 27 08.2			E	095
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(75)	1993 09 23.87854	00 24 05.62	+03 26 37.5			E	095
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(189)	1993 09 15.90392	00 23 26.33	+06 12 03.8				095
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(189)	1993 10 12.85174	00 01 59.20	+02 39 43.0				095
(201)	1993 09 15.81644	21 59 34.14	−12 36 14.3				095
(201)	1993 09 15.82331	21 59 33.90	−12 36 15.7				095

(223)	1993 09 15.81644	21 57 23.23	−15 13 38.2		095
(223)	1993 09 15.82331	21 57 23.00	−15 13 38.3		095
(257)	1993 10 12.99685	02 51 14.87	+16 32 23.1		095
(269)	1993 09 24.02228	01 45 33.06	+04 59 18.5	r	095
(288)	1993 09 24.02228	02 18 06.83	+07 36 26.5		095
(288)	1993 10 12.92325	02 05 34.62	+06 12 20.3		095
(308)	1993 09 15.97752	00 50 11.71	+04 52 00.1		095
(308)	1993 09 23.95007	00 44 31.28	+04 01 55.7		095
(308)	1993 10 12.85174	00 29 56.69	+01 56 47.0	E	095
(316)	1993 09 23.95007	00 14 13.42	−01 42 14.3	r	095
(334)	1993 10 12.99685	03 10 19.48	+11 29 58.9		095
(380)	1993 09 24.02228	02 06 05.85	+02 30 14.6		095
(380)	1993 10 12.92325	01 52 21.07	+01 03 05.1		095
(396)	1993 09 15.90392	00 00 35.82	+04 16 37.4	E	095
(396)	1993 09 23.87854	23 54 01.31	+03 31 06.8		095
(399)	1993 09 15.81644	22 11 00.46	−14 53 04.9		095
(399)	1993 09 15.82331	22 11 00.14	−14 53 04.7		095
(444)	1993 10 12.99685	03 06 27.39	+11 24 10.4		095
(449)	1993 10 12.99685	02 45 55.81	+11 56 18.7		095
(450)	1993 09 15.97752	00 30 57.91	−00 37 01.6	E	095
(450)	1993 09 23.95007	00 24 10.62	−00 49 38.3	E	095
(450)	1993 10 12.85174	00 07 57.86	−01 12 30.3	E	095
(458)	1993 09 15.81644	22 27 11.73	−18 50 21.0	r	095
(496)	1993 09 15.90392	00 13 20.38	+04 57 18.0		095
(496)	1993 09 23.87854	00 06 01.66	+03 55 40.7		095
(542)	1993 09 15.81644	21 57 34.51	−13 43 10.9		095
(542)	1993 09 15.82331	21 57 34.20	−13 43 12.6		095
(577)	1993 09 15.90392	00 10 04.13	+05 43 38.4		095
(577)	1993 09 23.87854	00 03 44.92	+05 17 01.0		095
(604)	1993 09 15.81644	21 53 16.05	−17 08 56.2		095
(604)	1993 09 15.82331	21 53 15.73	−17 08 56.6		095
(609)	1993 09 24.02228	01 55 06.11	+08 08 47.6		095
(609)	1993 10 12.92325	01 42 50.71	+06 33 10.1		095
(620)	1993 09 15.81644	22 11 11.05	−16 28 11.9		095
(620)	1993 09 15.82331	22 11 10.76	−16 28 10.8		095
(673)	1993 09 15.90392	23 55 03.68	+03 09 24.8	r	095
(673)	1993 09 23.87854	23 48 50.06	+02 23 41.4	r	095
(735)	1993 10 12.99685	02 57 17.97	+10 06 20.3	r	095
(788)	1993 09 15.97752	00 32 42.47	+01 28 42.8		095
(788)	1993 09 23.95007	00 27 35.49	+00 28 06.8		095
(788)	1993 10 12.85174	00 15 19.28	−01 51 13.8	E	095
(885)	1993 09 15.81644	21 58 27.55	−13 08 29.3		095
(885)	1993 09 15.82331	21 58 27.30	−13 08 30.6		095
(1114)	1993 10 12.99685	02 50 54.26	+10 47 06.7	E	095
(1186)	1993 10 12.99685	03 22 04.28	+18 02 09.6	r	095
(1187)	1993 09 15.90392	23 53 21.25	+10 24 47.0	r	095
(1201)	1993 09 15.90392	23 59 54.72	+05 12 48.4		095
(1201)	1993 09 23.87854	23 53 49.69	+04 11 27.3		095
(1212)	1993 09 24.02228	01 58 00.82	+03 49 02.2		095
(1212)	1993 10 12.92325	01 48 07.52	+02 25 57.6		095
(1230)	1993 10 12.99685	02 50 25.72	+12 14 59.8		095
(1253)	1993 09 15.97752	00 43 08.87	+03 14 30.2		095
(1253)	1993 09 23.95007	00 37 44.63	+02 43 07.4		095
(1253)	1993 10 12.85174	00 23 44.29	+01 24 23.2		095
(1269)	1993 09 24.02228	01 58 58.83	+08 38 29.4		095
(1269)	1993 10 12.92325	01 48 49.33	+07 33 08.7		095
(1296)	1993 10 12.99685	03 04 00.89	+18 41 29.7		095
(1352)	1993 09 15.97752	00 46 24.51	+05 06 55.7		095
(1352)	1993 09 23.95007	00 40 48.21	+04 18 24.9		095
(1352)	1993 10 12.85174	00 26 22.03	+02 14 52.7	E	095
(1459)	1993 10 12.99685	03 00 28.54	+14 09 39.2		095
(1465)	1993 10 12.92325	01 43 36.40	+01 59 50.7		095
(1563)	1993 09 24.02228	01 49 26.98	+04 45 39.3	E	095
(1563)	1993 10 12.92325	01 31 28.05	+03 31 47.2	r	095
(1572)	1993 09 23.95007	00 11 17.77	−00 43 50.3	r	095
(1572)	1993 10 12.85174	23 54 18.28	−00 19 30.2	E	095
(1601)	1993 10 12.99685	03 19 11.12	+13 24 00.5	E	095
(1622)	1993 09 15.97752	00 40 10.13	+03 58 20.5		095
(1622)	1993 09 23.95007	00 31 42.96	+03 33 49.6		095
(1622)	1993 10 12.85174	00 11 45.63	+02 31 41.3		095
(1623)	1993 09 24.02228	01 57 32.55	+08 02 23.8		095
(1623)	1993 10 12.92325	01 45 36.96	+06 43 15.0		095
(1624)	1993 09 23.95007	00 18 21.03	−00 19 33.6		095
(1675)	1993 10 12.99685	02 43 46.96	+16 15 49.7		095
(1698)	1993 09 15.97752	00 26 47.09	+01 55 32.7	E	095
(1698)	1993 09 23.95007	00 21 10.26	+01 21 29.2		095
(1698)	1993 10 12.85174	00 07 45.92	+00 01 34.7		095
(1706)	1993 09 15.97752	00 47 35.49	+08 45 51.0	r	095
(1706)	1993 09 23.95007	00 39 55.38	+08 01 51.4	E	095
(1706)	1993 10 12.85174	00 20 52.58	+05 56 33.1		095
(1729)	1993 09 15.97752	00 37 28.38	+03 27 40.1		095
(1729)	1993 09 23.95007	00 29 42.85	+02 49 32.6		095
(1729)	1993 10 12.85174	00 11 15.15	+01 18 06.5		095
(1742)	1993 09 15.97752	00 54 46.19	+03 29 06.4		095
(1742)	1993 09 23.95007	00 49 22.16	+02 45 29.7		095
(1753)	1993 09 24.02228	02 05 03.49	+01 44 57.3		095
(1753)	1993 10 12.92325	01 51 01.63	+00 57 46.3		095
(1776)	1993 09 24.02228	02 04 21.42	+06 37 24.8		095
(1776)	1993 10 12.92325	01 53 12.22	+04 33 13.2		095
(1778)	1993 09 15.82331	22 23 50.91	−12 59 03.3	E	095
(1796)	1993 09 24.02228	02 21 55.39	+03 47 13.6	E	095
(1803)	1993 09 15.82331	22 04 55.06	−10 40 35.4	E	095
(1824)	1993 09 15.97752	00 45 32.59	+04 20 46.4		095
(1824)	1993 09 23.95007	00 39 37.35	+03 48 13.8		095
(1824)	1993 10 12.85174	00 24 35.54	+02 25 01.4		095
(1828)	1993 09 15.97752	00 34 17.49	+04 16 23.1		095
(1828)	1993 09 23.95007	00 29 22.06	+03 00 31.3		095
(1828)	1993 10 12.85174	00 17 09.93	−00 03 52.3		095
(1898)	1993 10 12.99685	03 17 09.37	+16 50 48.2	E	095
(1957)	1993 10 12.99685	03 17 08.49	+15 25 28.7	E	095
(1968)	1993 09 24.02228	01 46 21.88	+05 11 45.2	E	095
(1968)	1993 10 12.92325	01 31 37.01	+03 52 39.4	r	095
(1975)	1993 10 12.99685	03 05 28.06	+09 59 23.2	r	095
(2045)	1993 09 15.82331	22 18 19.40	−17 00 05.7		095

(2092)	1993 10 12.99685	03 09 38.77	+15 08 07.7		095
(2172)	1993 09 24.02228	02 08 21.39	+08 01 57.0		095
(2172)	1993 10 12.92325	01 56 16.96	+06 53 57.2		095
(2321)	1993 09 24.02228	01 54 21.55	+06 03 23.6		095
(2321)	1993 10 12.92325	01 40 20.09	+05 20 13.0		095
(2323)	1993 10 12.99685	02 51 20.12	+20 04 47.3	r	095
(2344)	1993 10 12.99685	03 17 29.62	+12 31 21.3	E	095
(2348)	1993 09 23.87854	00 10 07.00	+01 45 50.9	E	095
(2372)	1993 09 15.81644	22 03 48.16	−15 32 39.0		095
(2372)	1993 09 15.82331	22 03 48.03	−15 32 39.7		095
(2425)	1993 09 24.02228	02 14 03.83	+04 59 58.1		095
(2425)	1993 10 12.92325	02 00 19.33	+04 22 39.0		095
(2624)	1993 09 15.81644	22 08 00.50	−11 05 52.4		095
(2624)	1993 09 15.82331	22 08 00.01	−11 05 53.4		095
(2675)	1993 09 15.97752	00 44 03.44	+04 21 44.9		095
(2675)	1993 09 23.95007	00 36 54.56	+03 54 21.8		095
(2675)	1993 10 12.85174	00 18 41.23	+02 40 26.3		095
(2713)	1993 09 15.81644	22 20 27.63	−10 20 33.1	E	095
(2713)	1993 09 15.82331	22 20 27.14	−10 20 36.7	E	095
(2833)	1993 09 15.97752	00 55 58.50	+07 06 50.8		095
(2910)	1993 09 24.02228	02 09 28.39	+10 10 27.0	r	095
(2931)	1993 09 15.97752	00 42 50.76	+03 16 32.4		095
(2931)	1993 09 23.95007	00 36 46.50	+02 43 22.8		095
(2931)	1993 10 12.85174	00 21 42.17	+01 22 35.3		095
(2949)	1993 09 24.02228	01 58 38.13	+07 00 08.0		095
(2949)	1993 10 12.92325	01 42 46.03	+04 29 11.1		095
(2953)	1993 09 15.97752	00 36 52.26	+05 36 21.6		095
(2953)	1993 09 23.95007	00 30 50.95	+04 57 47.4		095
(2953)	1993 10 12.85174	00 16 08.42	+03 18 36.4		095
(2956)	1993 10 12.99685	03 08 35.35	+13 32 16.1		095
(2958)	1993 09 23.95007	00 42 36.78	+06 10 44.0		095
(2963)	1993 10 12.99685	03 12 08.38	+17 13 25.5		095
(2999)	1993 10 12.92325	01 44 00.74	+00 24 07.9	E	095
(3095)	1993 09 15.90392	00 04 41.13	+04 43 41.9		095
(3095)	1993 09 23.87854	23 59 15.49	+04 11 54.0		095
(3207)	1993 10 12.92325	01 34 40.83	+07 46 22.9	E	095
(3258)	1993 10 12.99685	03 12 57.75	+15 03 21.8		095
(3262)	1993 09 24.02228	02 20 10.54	+03 05 12.6		095
(3262)	1993 10 12.92325	02 07 56.22	+02 04 52.7	E	095
(3264)	1993 09 23.95007	00 30 21.57	+02 14 17.1		095
(3276)	1993 09 15.97752	01 00 56.61	+02 25 42.4	E	095
(3458)	1993 10 12.99685	02 58 51.12	+13 52 09.8		095
(3482)	1993 09 15.81644	22 04 11.43	−15 53 11.7		095
(3482)	1993 09 15.82331	22 04 11.22	−15 53 12.3		095
(3507)	1993 09 24.02228	01 50 58.89	+06 52 59.0		095
(3507)	1993 10 12.92325	01 37 53.94	+05 36 58.8		095
(3517)	1993 10 12.99685	02 45 46.25	+13 26 00.4		095
(3594)	1993 09 15.90392	00 23 42.91	+12 24 51.6	r	095
(3622)	1993 09 15.90392	00 33 11.09	+10 37 14.2	r	095
(3647)	1993 09 15.81644	22 19 36.49	−17 57 48.2		095
(3647)	1993 09 15.82331	22 19 36.39	−17 57 48.0		095
(3735)	1993 09 15.90392	00 01 57.15	+07 06 11.0		095
(3735)	1993 09 23.87854	23 56 06.55	+06 34 01.0		095
(3783)	1993 10 12.99685	02 58 57.06	+11 04 40.2	E	095
(3899)	1993 09 15.81644	22 08 55.49	−15 42 18.7		095
(3899)	1993 09 15.82331	22 08 55.22	−15 42 19.5		095
(3901)	1993 09 15.97752	00 40 54.43	+02 48 39.0		095
(3901)	1993 09 23.95007	00 33 06.39	+02 30 34.2		095
(3901)	1993 10 12.85174	00 14 41.23	+01 47 07.2		095
(3957)	1993 09 15.97752	00 29 49.17	+03 09 03.4		095
(3957)	1993 09 23.87854	00 24 24.71	+02 13 54.1	E	095
(3957)	1993 09 23.95007	00 24 21.50	+02 13 23.5		095
(3957)	1993 10 12.85174	00 11 33.77	+00 04 28.0		095
(4003)	1993 09 24.02228	01 50 46.65	+10 08 41.4	r	095
(4003)	1993 10 12.92325	01 39 14.61	+08 38 18.3	E	095
(4259)	1993 09 15.97752	00 49 58.48	+01 25 33.8		095
(4259)	1993 09 23.95007	00 44 09.26	+00 50 22.0		095
(4292)	1993 09 23.87854	23 49 19.68	+02 31 10.0	r	095
(4325)	1993 10 12.92325	01 33 19.17	+03 54 57.2	E	095
(4420)	1993 09 15.90392	00 04 55.76	+12 48 16.0	E	095
(4446)	1993 09 24.02228	01 56 13.83	+09 34 00.8	E	095
(4446)	1993 10 12.92325	01 45 22.53	+07 56 23.7	E	095
(4593)	1993 09 23.87854	23 57 17.92	+02 02 09.3	E	095
(4799)	1993 10 12.99685	02 43 12.57	+16 20 28.7	E	095
(4817)	1993 09 15.97752	00 55 41.30	+04 22 03.3		095
(4817)	1993 09 23.95007	00 50 26.57	+03 32 28.1	r	095
(4882)	1993 10 12.99685	03 05 04.66	+15 09 29.6		095
(5353)	1993 10 12.99685	02 52 11.32	+16 11 13.3		095
(5479)	1993 09 15.90392	00 16 45.17	+11 25 14.6		095
(5479)	1993 09 23.87854	00 11 38.60	+09 38 22.6		095
(5701)	1993 10 12.99685	03 00 20.17	+17 06 07.8		095
(5703)	1993 09 24.02228	01 55 53.72	+01 56 09.9		095
(5703)	1993 10 12.92325	01 37 56.90	+02 34 26.2		095
(5710)	1993 09 15.97752	00 57 44.81	+06 53 31.5	E	095
(5711)	1993 09 15.81644	22 16 43.71	−16 35 05.8		095
(5711)	1993 09 15.82331	22 16 43.57	−16 35 06.1		095
(5719)	1993 09 15.90392	00 30 51.46	+09 34 51.1	E	095
(5719)	1993 09 23.87854	00 22 49.04	+09 07 29.9	E	095
(5719)	1993 10 12.85174	00 04 23.56	+07 36 37.8	r	095
(5730)	1993 10 12.92325	01 34 03.02	+06 50 39.1	E	095
(5733)	1993 09 24.02228	01 46 21.13	+08 08 30.8	r	095
(5733)	1993 10 12.92325	01 33 48.03	+06 57 14.7	E	095
(5744)	1993 10 12.92325	01 58 27.01	+09 09 17.4	r	095
(5750)	1993 09 15.90392	00 00 47.09	+07 13 34.8		095
(5750)	1993 09 23.87854	23 54 05.41	+06 53 54.2		095
(5781)	1993 09 15.90392	00 14 46.50	+07 04 38.2		095
(5781)	1993 09 23.87854	00 07 05.29	+06 15 20.2		095
(5791)	1993 10 12.99685	02 53 21.60	+12 18 08.7		095
(6236)	1993 09 23.95007	00 26 10.25	−00 27 12.6		095
(6236)	1993 10 12.85174	00 12 24.28	−01 51 43.5	E	095
(6260)	1993 09 15.90392	23 57 38.01	+12 46 24.4	E	095
(6274)	1993 09 24.02228	02 08 01.98	+06 05 21.3		095
(6274)	1993 10 12.92325	01 51 13.10	+04 22 54.3		095
(6287)	1993 09 23.95007	00 22 50.34	+01 50 50.1		095

(6320)	1993 10 12.85174	00 23 16.44	+06 15 53.7			095
(6532)	1993 09 24.02228	01 57 09.05	+04 03 47.6			095
(6532)	1993 10 12.92325	01 44 41.03	+02 41 51.9			095
(6978)	1993 09 23.87854	23 51 39.75	+04 05 30.6		E	095
(6993)	1993 10 12.99685	02 55 23.27	+12 59 42.9			095
(7079)	1993 09 23.87854	00 01 58.73	+04 02 57.2			095
(7080)	1993 09 24.02228	01 56 40.81	+05 19 56.9			095
(7080)	1993 10 12.92325	01 43 48.92	+02 22 54.1			095
(7097)	1993 09 24.02228	01 56 28.80	+08 31 55.6			095
(7097)	1993 10 12.92325	01 43 42.76	+07 17 14.2			095
(7168)	1993 09 24.02228	02 15 24.12	+05 51 45.1			095
(7168)	1993 10 12.92325	02 02 19.72	+04 06 00.0			095
(7192)	1993 09 23.87854	23 53 29.68	+01 30 33.5		r	095
(7254)	1993 09 24.02228	02 21 08.47	+07 22 06.3		E	095
(7293)	1993 10 12.99685	03 03 00.45	+17 05 10.1	16.0		095
(7394)	1993 10 12.85174	00 14 37.75	−00 57 49.4			095

097 Wise Observatory, Mitzpeh Ramon

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Observer T. Contini
Measurer E. O. Ofek, H. Mendelson, A. Retter

1.0-m $f/7$ reflector + CCD
GSC

1997 NU	1997 07 11.75905	15 01 43.18	−01 38 38.4	15.5	R	097
1997 NU	1997 07 11.76405	15 01 43.31	−01 38 40.7	15.5	R	097
1997 NU	1997 07 11.76608	15 01 43.45	−01 38 42.0	15.5	R	097
1997 NU	1997 07 11.77012	15 01 43.41	−01 38 42.4	15.5	R	097
1997 NU	1997 07 18.73928	15 04 36.53	−02 49 56.3	15.4	R	097
1997 NU	1997 07 18.74825	15 04 36.78	−02 50 02.4	15.4	R	097
1997 NU	1997 07 19.73506	15 05 06.62	−03 00 16.7	15.4	R	097
1997 NU	1997 07 19.74235	15 05 06.85	−03 00 21.3	15.4	R	097

098 Asiago Observatory, Cima Ekar

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

0.67-m $f/3.2$ Schmidt

1996 CG_9	1996 01 15.94826	08 52 59.04	+06 41 58.2			098
1996 CG_9	1996 01 15.96910	08 52 57.87	+06 42 00.8			098
1996 CG_9	1996 01 16.98628	08 52 00.59	+06 45 40.1			098
1996 CG_9	1996 01 17.00894	08 51 59.19	+06 45 42.7	17.0	V	098

104 San Marcello Pistoiese

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Observers A. Boattini, L. Tesi, G. Cattani, C. Cattani
Measurers A. Boattini, L. Tesi, G. Forti

0.40-m $f/5$ reflector + CCD
GSC

1979 ML_1	1997 07 09.93634	20 23 19.40	−14 48 43.5			104
1979 ML_1	1997 07 09.94479	20 23 18.97	−14 48 42.7			104
1979 ML_1	1997 07 09.95343	20 23 18.51	−14 48 41.8			104
1984 WC_2	1997 07 13.88872	19 56 25.21	−15 45 32.7			104
1984 WC_2	1997 07 13.90532	19 56 24.31	−15 45 33.0			104
1984 WC_2	1997 07 13.90972	19 56 24.05	−15 45 33.0			104
1987 BS_1	1997 07 08.92946	20 01 15.04	−20 51 57.1			104
1987 BS_1	1997 07 08.93403	20 01 14.76	−20 51 56.7			104
1987 BS_1	1997 07 08.93854	20 01 14.51	−20 51 56.3			104
1987 RV_3	1997 07 08.89622	20 14 07.52	−12 15 28.0			104
1987 RV_3	1997 07 08.90521	20 14 07.09	−12 15 28.1			104
1987 RV_3	1997 07 08.91082	20 14 06.83	−12 15 28.1			104
1989 AL_3	1997 07 09.88385	20 18 17.30	−18 00 54.9			104
1989 AL_3	1997 07 09.88924	20 18 17.00	−18 00 56.4			104
1989 AL_3	1997 07 09.89497	20 18 16.67	−18 00 57.9			104
1989 EZ_2	1997 07 15.88414	19 57 07.32	−15 36 01.1	18.5	V	104
1989 EZ_2	1997 07 15.88819	19 57 07.05	−15 36 01.4			104
1989 EZ_2	1997 07 15.89236	19 57 06.81	−15 36 01.6			104
1992 EX_{17}	1997 07 08.87189	20 09 00.28	−07 19 49.8			104
1992 EX_{17}	1997 07 08.87743	20 08 59.97	−07 19 51.3			104
1992 EX_{17}	1997 07 08.88194	20 08 59.80	−07 19 51.6			104
1993 FL_{84}	1997 07 15.90455	20 05 23.09	−04 55 33.6			104
1993 FL_{84}	1997 07 15.90972	20 05 22.80	−04 55 34.8			104
1993 FL_{84}	1997 07 15.91701	20 05 22.43	−04 55 36.1			104
1994 PA	1997 07 27.88333	19 26 25.48	−13 39 49.0	18.2	V	104
1994 PA	1997 07 27.89954	19 26 24.55	−13 39 49.7			104
1994 PW_{16}	1997 07 15.92755	20 29 11.37	−18 26 15.1			104
1994 PW_{16}	1997 07 15.93235	20 29 11.05	−18 26 15.6			104
1994 QC	1997 07 27.85910	17 31 17.26	+20 29 46.8	18.2	V	104
1994 QC	1997 07 27.86169	17 31 17.40	+20 29 39.2			104
1994 QC	1997 07 27.86539	17 31 17.70	+20 29 27.3			104
1994 VB_7	1997 07 09.93634	20 23 36.69	−14 47 36.8	18.5	V	104
1994 VB_7	1997 07 09.94074	20 23 36.48	−14 47 37.2			104
1994 VB_7	1997 07 09.94479	20 23 36.26	−14 47 37.5			104
1994 VB_7	1997 07 09.95343	20 23 35.81	−14 47 38.3			104
1994 YE_1	1997 07 06.94887	20 05 11.89	−15 42 35.4			104
1996 CN_7	1997 07 29.99421	22 00 39.60	−16 16 04.3			104
1996 CN_7	1997 07 30.00328	22 00 39.20	−16 16 07.6			104
1996 CN_7	1997 07 30.00560	22 00 38.97	−16 16 07.8			104
1996 CW_7	1997 07 15.08744	01 13 10.14	+02 45 19.2	18.4	V	104
1996 CW_7	1997 07 15.09537	01 13 10.61	+02 45 20.4			104
1996 CW_7	1997 07 15.10810	01 13 11.59	+02 45 24.3			104
1996 CX_7	1997 07 27.83156	16 59 59.86	−17 30 56.8	17.8	V	104
1996 CX_7	1997 07 27.87488	16 59 59.32	−17 31 11.9			104
1996 CX_7	1997 07 29.85289	16 59 48.53	−17 41 22.2			104
1996 CX_7	1997 07 29.88565	16 59 48.32	−17 41 34.0			104
1996 CS_8	1997 07 27.83604	16 04 57.53	−14 50 51.6	18.4	V	104
1996 CS_8	1997 07 27.86917	16 04 57.94	−14 50 58.4			104
1996 CS_8	1997 07 29.84713	16 05 26.34	−14 58 17.9	18.5	V	104
1996 CS_8	1997 07 29.88090	16 05 26.87	−14 58 24.4			104
1996 EG_2	1997 07 09.86292	20 17 17.24	−03 59 56.7			104
1996 EG_2	1997 07 09.86667	20 17 17.07	−03 59 58.0			104
1996 EG_2	1997 07 09.87118	20 17 16.85	−03 59 59.1			104
1996 HW	1997 07 30.01250	21 50 49.56	−38 28 31.2	17.0	V	104

1996 HW		1997 07 30.01644	21 50 49.22	−38 28 32.8		104
1996 HW		1997 07 30.02384	21 50 48.75	−38 28 35.4		104
1997 NZ_2		1997 07 14.92153	19 29 04.99	−27 52 19.6	17.4 V	104
1997 NZ_2		1997 07 14.93507	19 29 03.97	−27 52 22.5		104
1997 NZ_2		1997 07 14.96897	19 29 02.13	−27 52 29.4		104
1997 NZ_2		1997 07 27.89485	19 17 48.63	−28 26 48.9	17.8 V	104
1997 NZ_2		1997 07 27.91644	19 17 47.47	−28 26 51.0		104
1997 NJ_{10}		1997 07 13.94800	21 17 46.41	−04 57 55.3	17.9 V	104
1997 NJ_{10}		1997 07 13.95231	21 17 46.26	−04 57 56.3		104
1997 NJ_{10}		1997 07 13.95694	21 17 46.10	−04 57 57.4		104
1997 NJ_{10}		1997 07 14.95012	21 17 12.70	−05 00 45.4	18.0 V	104
1997 NJ_{10}		1997 07 14.96200	21 17 12.30	−05 00 48.0		104
1997 NJ_{10}		1997 07 15.10597	21 17 07.17	−05 01 12.6		104
1997 NJ_{10}		1997 07 27.92382	21 08 48.77	−05 49 31.8	17.3 V	104
1997 NJ_{10}		1997 07 27.93285	21 08 48.37	−05 49 33.5		104
1997 NJ_{10}		1997 07 29.90729	21 07 23.31	−05 58 48.3	17.3 V	104
1997 NJ_{10}		1997 07 29.94207	21 07 21.73	−05 58 58.2		104
1997 NK_{10}		1997 07 13.92748	21 14 21.40	+00 32 41.2	18.0 V	104
1997 NK_{10}		1997 07 13.93264	21 14 21.23	+00 32 40.0		104
1997 NK_{10}		1997 07 13.93681	21 14 21.05	+00 32 38.5		104
1997 NK_{10}		1997 07 14.94704	21 13 45.89	+00 29 26.5		104
1997 NK_{10}		1997 07 14.95928	21 13 45.39	+00 29 24.1		104
1997 NK_{10}		1997 07 27.92730	21 04 49.08	−00 31 53.6	17.6 V	104
1997 NK_{10}		1997 07 27.93649	21 04 48.63	−00 31 57.1		104
1997 NL_{10}		1997 07 14.95486	21 17 23.55	+01 06 08.9	18.8 V	104
1997 NL_{10}		1997 07 14.96543	21 17 23.20	+01 06 06.5		104
1997 NM_{10}	*	1997 07 13.88872	19 56 41.52	−15 46 41.9	17.8 V	104
1997 NM_{10}		1997 07 13.89248	19 56 41.25	−15 46 40.4		104
1997 NM_{10}		1997 07 13.90532	19 56 40.42	−15 46 34.8		104
1997 NM_{10}		1997 07 13.90972	19 56 40.15	−15 46 32.9		104
1997 NM_{10}		1997 07 14.91586	19 55 35.03	−15 39 03.0	17.6 V	104
1997 NM_{10}		1997 07 14.91706	19 55 34.97	−15 39 02.5		104
1997 NM_{10}		1997 07 14.93345	19 55 33.83	−15 38 55.0		104
1997 NM_{10}		1997 07 15.85984	19 54 33.67	−15 32 02.1		104
1997 NM_{10}		1997 07 15.86458	19 54 33.38	−15 32 00.2		104
1997 NM_{10}		1997 07 15.86875	19 54 33.09	−15 31 58.5		104
1997 NO_{10}		1997 07 15.07535	01 12 37.56	+03 36 09.0	19.0 V	104
1997 NO_{10}		1997 07 15.07810	01 12 37.73	+03 36 10.5		104
1997 NO_{10}		1997 07 15.08102	01 12 38.01	+03 36 11.2		104
1997 NO_{10}		1997 07 15.08410	01 12 38.23	+03 36 13.1		104
1997 OB_1	*	1997 07 29.91303	21 04 20.58	−11 11 16.9	17.9 V	104
1997 OB_1		1997 07 29.92771	21 04 19.94	−11 11 21.2		104
1997 OB_1		1997 07 29.94777	21 04 18.96	−11 11 29.7		104
1997 OB_1		1997 08 07.96902	20 57 28.07	−12 13 12.6	18.1 V	104
1997 OB_1		1997 08 07.97731	20 57 27.70	−12 13 16.4		104
1997 OB_1		1997 08 07.98189	20 57 27.49	−12 13 19.1		104
1997 OC_1	*	1997 07 29.91416	21 03 46.72	−11 30 05.7	17.7 V	104
1997 OC_1		1997 07 29.92882	21 03 45.92	−11 30 10.2		104
1997 OC_1		1997 07 29.95134	21 03 44.85	−11 30 18.5		104
1997 OD_1	*	1997 07 29.91637	21 03 44.28	−11 35 32.9	15.7 V	104
1997 OD_1		1997 07 29.93102	21 03 43.56	−11 35 39.0		104
1997 OD_1		1997 07 29.95274	21 03 42.47	−11 35 50.3		104
1997 OD_1		1997 08 07.95502	20 56 25.44	−12 54 13.7	15.7 V	104
1997 OD_1		1997 08 07.95856	20 56 25.26	−12 54 15.3		104
1997 OD_1		1997 08 07.96204	20 56 25.08	−12 54 17.0		104
(6876)		1997 07 27.83588	17 02 20.40	−15 26 06.6	17.5 V	104
(6876)		1997 07 27.87847	17 02 20.15	−15 26 07.3		104

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

GSC

1997 OU_2	*	1997 07 30.94236	21 03 30.08	−09 56 41.5	17.2 R	106
1997 OU_2		1997 07 30.98759	21 03 28.11	−09 57 11.4	17.2 R	106
1997 OU_2		1997 08 04.90956	21 00 04.62	−10 53 34.2	16.7 R	106
1997 OU_2		1997 08 04.92019	21 00 04.14	−10 53 41.8	16.7 R	106

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

GSC

1994 PA		1997 07 26.91421	19 27 22.99	−13 38 49.6		108
1994 PA		1997 07 26.93154	19 27 21.94	−13 38 51.1		108
1994 PA		1997 07 26.95208	19 27 21.15	−13 38 44.6		108
1994 PA		1997 08 04.87105	19 19 12.75	−13 49 45.8		108
1994 PA		1997 08 04.88146	19 19 12.34	−13 49 45.0		108
1994 PA		1997 08 04.89161	19 19 11.67	−13 49 47.1	18.5 V	108
1994 QC		1997 08 02.84974	17 39 32.02	+15 22 48.3		108
1994 QC		1997 08 02.85700	17 39 32.76	+15 22 24.6	18.0 V	108
1994 QC		1997 08 02.86468	17 39 33.19	+15 22 04.0		108
1996 CN_7		1997 07 27.04293	22 02 51.70	−16 04 35.5	17.4 V	108
1996 CN_7		1997 07 27.05196	22 02 51.26	−16 04 40.2		108
1996 CN_7		1997 07 27.06149	22 02 50.91	−16 04 41.1		108
1996 CN_7		1997 07 27.07220	22 02 50.40	−16 04 44.5		108
1996 CN_7		1997 08 07.99038	21 52 54.07	−16 52 56.1	17.0 V	108
1996 CN_7		1997 08 07.99465	21 52 53.81	−16 52 57.9		108
1996 CN_7		1997 08 07.99844	21 52 53.64	−16 52 57.2		108
1996 CX_7		1997 07 26.85684	17 00 08.45	−17 26 01.9	17.0 V	108
1996 CX_7		1997 07 26.88913	17 00 08.08	−17 26 12.8		108
1996 CV_8		1997 08 05.04834	23 36 25.51	−10 05 47.9		108
1996 CV_8		1997 08 05.05214	23 36 25.43	−10 05 50.1		108
1996 CV_8		1997 08 05.05677	23 36 25.35	−10 05 50.4		108
1996 CV_8		1997 08 05.06372	23 36 25.14	−10 05 50.8	17.2 V	108
1996 CV_8		1997 08 08.04398	23 35 12.45	−10 17 03.3		108
1996 CV_8		1997 08 08.05208	23 35 12.33	−10 17 03.9		108
1996 CV_8		1997 08 08.07014	23 35 11.84	−10 17 07.8	16.5 V	108
1997 NK_{10}		1997 07 26.98529	21 05 32.29	−00 26 13.4	17.6 V	108
1997 NK_{10}		1997 07 27.02524	21 05 30.54	−00 26 27.7		108
1997 NM_{10}		1997 07 26.97131	19 42 30.37	−14 13 41.4	17.4 V	108
1997 NM_{10}		1997 07 26.99938	19 42 28.62	−14 13 28.7		108
1997 NM_{10}		1997 07 27.01078	19 42 28.02	−14 13 24.9		108
1997 OJ		1997 08 07.91421	20 02 10.26	−22 21 04.8	17.9 V	108
1997 OJ		1997 08 07.93916	20 02 09.09	−22 21 09.2		108

1997 OK	1997 08 07.89313	19 58 40.87	−20 10 53.9			108
1997 OK	1997 08 07.90241	19 58 40.25	−20 10 50.9	17.8	V	108
1997 OB_1	1997 08 02.98214	21 01 17.33	−11 38 02.2			108
1997 OB_1	1997 08 03.02538	21 01 15.09	−11 38 15.9			108
1997 OC_1	1997 07 30.95113	21 02 56.01	−11 36 13.3	17.7	V	108
1997 OC_1	1997 07 30.96230	21 02 55.36	−11 36 16.3			108
1997 OC_1	1997 07 30.97239	21 02 54.97	−11 36 21.0			108
1997 OC_1	1997 08 02.97372	21 00 26.13	−11 54 30.3			108
1997 OC_1	1997 08 03.00686	21 00 24.48	−11 54 41.3	17.7	V	108
1997 OD_1	1997 07 30.94109	21 02 55.85	−11 44 02.9	15.5	V	108
1997 OD_1	1997 07 30.98525	21 02 53.64	−11 44 26.2			108
1997 OD_1	1997 08 02.96595	21 00 30.00	−12 09 52.2			108
1997 OD_1	1997 08 02.98916	21 00 28.93	−12 10 05.2			108
1997 OD_1	1997 08 02.99345	21 00 28.61	−12 10 08.5	15.5	V	108
1997 PB	1997 08 02.90081	20 23 56.63	−20 51 33.9			108
1997 PB	1997 08 02.90637	20 23 56.51	−20 51 35.1			108
1997 PB	1997 08 02.92154	20 23 55.48	−20 51 42.6	17.0	V	108
1997 PB	1997 08 02.93012	20 23 55.05	−20 51 45.1			108
1997 PB	1997 08 05.00406	20 22 05.24	−21 04 37.8			108
1997 PB	1997 08 05.00946	20 22 05.01	−21 04 38.7			108
1997 PB	1997 08 05.01484	20 22 04.69	−21 04 42.6	17.0	V	108
1997 PN	1997 08 02.94787	20 24 42.54	−20 44 45.4	18.0	V	108
1997 PO	1997 08 04.89931	20 13 41.54	−11 23 48.3			108
1997 PO	1997 08 04.90139	20 13 41.59	−11 23 52.5	17.2	V	108
1997 PO	1997 08 04.90683	20 13 41.44	−11 24 01.6			108
1997 PO	1997 08 04.91157	20 13 41.42	−11 24 10.5	16.9	V	108
(1373)	1997 08 02.87828	19 39 38.27	−20 08 35.0			108
(1373)	1997 08 02.88463	19 39 37.85	−20 08 31.8	16.0	V	108
(1373)	1997 08 02.88937	19 39 37.53	−20 08 28.8			108
(1980)	1997 08 02.82993	17 35 12.15	+46 16 01.3			108
(1980)	1997 08 02.83316	17 35 11.76	+46 16 05.5			108
(1980)	1997 08 02.83559	17 35 11.61	+46 16 07.3			108
(1980)	1997 08 02.84010	17 35 11.21	+46 16 14.6	15.0	V	108
(3750)	1997 08 08.03921	23 05 04.47	−15 17 35.0			108
(3750)	1997 08 08.05417	23 05 03.81	−15 17 38.1	16.5	V	108
(3750)	1997 08 08.06308	23 05 03.40	−15 17 39.4			108
(6269)	1997 07 30.88612	21 03 25.02	−11 14 56.0	17.0	V	108
(6269)	1997 07 30.92240	21 03 23.17	−11 15 10.6			108
(6269)	1997 07 30.93483	21 03 22.43	−11 15 16.9			108
(6269)	1997 08 02.98214	21 00 49.62	−11 37 20.7			108
(6269)	1997 08 03.02538	21 00 47.35	−11 37 40.7			108
(6876)	1997 07 26.86728	17 02 28.18	−15 25 51.7			108
(6876)	1997 07 26.89832	17 02 27.98	−15 25 52.4			108

118 Modra

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0.6-m $f/5.5$ reflector + CCD

GSC

1977 QQ_5	1997 07 23.06834	01 18 26.73	−06 01 52.1			118
1977 QQ_5	1997 07 23.07486	01 18 28.38	−06 01 59.4	16.8	R	118
1981 EE_{28}	1997 08 04.98954	22 07 44.04	−15 18 09.0			118
1981 EE_{28}	1997 08 04.99572	22 07 43.76	−15 18 10.6	17.2	R	118
1981 EE_{28}	1997 08 05.03513	22 07 41.97	−15 18 20.4			118
1981 EE_{28}	1997 08 07.04089	22 06 12.34	−15 26 41.9			118
1981 EE_{28}	1997 08 07.04491	22 06 12.14	−15 26 42.9			118
1981 EE_{28}	1997 08 07.04929	22 06 11.94	−15 26 43.9	17.7	R	118
1981 EE_{28}	1997 08 07.97806	22 05 29.48	−15 30 38.3			118
1981 EE_{28}	1997 08 07.99392	22 05 28.73	−15 30 42.3	18.0	R	118
1981 EE_{28}	1997 08 08.04156	22 05 26.48	−15 30 54.1			118
1981 EE_{28}	1997 08 08.99391	22 04 42.25	−15 34 55.3			118
1981 EE_{28}	1997 08 08.99611	22 04 42.14	−15 34 55.8	17.6	R	118
1981 EE_{28}	1997 08 10.94918	22 03 09.53	−15 43 11.7			118
1981 EE_{28}	1997 08 10.95826	22 03 09.08	−15 43 14.0	18.1	R	118
1984 UT	1997 07 28.94678	19 43 22.60	+01 03 10.0			118
1984 UT	1997 07 28.95000	19 43 22.44	+01 03 09.7	17.8	R	118
1984 UT	1997 07 28.95382	19 43 22.24	+01 03 09.3			118
1984 UT	1997 07 30.90050	19 41 45.46	+00 59 24.5	18.7	R	118
1984 UT	1997 07 30.91192	19 41 44.85	+00 59 23.3	18.7	R	118
1984 UT	1997 07 30.92296	19 41 44.37	+00 59 22.9	18.7	R	118
1984 UT	1997 07 30.92859	19 41 44.03	+00 59 21.6	18.9	R	118
1990 EZ_5	1997 08 11.04244	22 32 20.68	−08 58 40.0			118
1990 EZ_5	1997 08 11.04422	22 32 20.61	−08 58 40.3			118
1990 EZ_5	1997 08 11.04809	22 32 20.46	−08 58 41.4	17.8	R I	118
1990 VB_{14}	1997 08 04.89845	21 46 23.41	−12 08 17.3			118
1990 VB_{14}	1997 08 04.90376	21 46 23.09	−12 08 18.4			118
1990 VB_{14}	1997 08 04.93549	21 46 21.33	−12 08 25.9	18.5	R	118
1990 VB_{14}	1997 08 05.86707	21 45 31.22	−12 11 54.6	18.6	R	118
1990 VB_{14}	1997 08 05.87022	21 45 30.97	−12 11 54.7			118
1990 VB_{14}	1997 08 06.95477	21 44 31.45	−12 16 01.5			118
1990 VB_{14}	1997 08 06.95667	21 44 31.35	−12 16 01.5	18.3	R	118
1991 PO_2	1997 08 11.07633	23 07 38.77	−08 52 23.6			118
1991 PO_2	1997 08 11.07962	23 07 38.66	−08 52 24.6			118
1991 PO_2	1997 08 11.08276	23 07 38.55	−08 52 25.4	18.4	R	118
1994 QC	1997 07 28.99688	17 32 43.49	+19 32 27.5	18.0	R	118
1994 QC	1997 07 29.00035	17 32 43.75	+19 32 16.9			118
1994 QC	1997 07 30.93940	17 35 20.05	+17 53 30.5	17.8	R	118
1994 QC	1997 07 30.94641	17 35 20.57	+17 53 08.9	17.5	R	118
1994 QC	1997 08 01.88020	17 38 05.71	+16 13 17.4			118
1994 QC	1997 08 01.89398	17 38 06.79	+16 12 33.0	18.1	R	118
1995 EC	1997 08 09.05001	22 46 22.60	−10 37 11.6	17.8	R	118
1995 EC	1997 08 09.05191	22 46 22.52	−10 37 12.3			118
1995 EC	1997 08 09.05590	22 46 22.38	−10 37 13.0			118
1995 EC	1997 08 10.98950	22 45 10.27	−10 44 56.2			118
1995 EC	1997 08 10.99251	22 45 10.14	−10 44 56.8			118
1995 EC	1997 08 10.99559	22 45 10.04	−10 44 57.6	18.1	R	118
1997 MD_{10}	1997 08 06.84700	17 36 25.29	−07 07 14.2		r	118
1997 MD_{10}	1997 08 06.85059	17 36 25.05	−07 07 08.2		r	118
1997 MD_{10}	1997 08 07.87189	17 35 02.87	−06 35 20.2		r	118
1997 MD_{10}	1997 08 07.87402	17 35 02.72	−06 35 16.5		r	118
1997 MD_{10}	1997 08 07.88307	17 35 01.96	−06 34 59.7		r	118
1997 MD_{10}	1997 08 08.82149	17 33 49.56	−06 06 06.6			118
1997 MD_{10}	1997 08 08.83609	17 33 48.42	−06 05 38.9			118

1997 MD_{10}	1997 08 08.83808	17 33 48.30	−06 05 35.6				118
1997 OJ_1	1997 08 07.97806	22 05 37.93	−15 27 44.2	18.4	R		118
1997 OJ_1	1997 08 07.99392	22 05 37.20	−15 27 50.9				118
1997 OJ_1	1997 08 08.04156	22 05 35.04	−15 28 04.6				118
1997 OJ_1	1997 08 08.99391	22 04 53.02	−15 32 58.6			r	118
1997 OJ_1	1997 08 08.99611	22 04 52.96	−15 32 59.0			p	118
1997 OJ_1	1997 08 09.00983	22 04 52.32	−15 33 02.7			p	118
1997 PN	1997 08 04.85806	20 20 37.44	−17 46 41.2	18.5	R		118
1997 PN	1997 08 04.86066	20 20 37.04	−17 46 26.5				118
1997 PN	1997 08 04.86250	20 20 36.84	−17 46 16.4				118
1997 PN	1997 08 06.89020	20 16 37.11	−14 42 34.9				118
1997 PN	1997 08 06.89245	20 16 36.84	−14 42 22.8	18.4	R		118
1997 PN	1997 08 06.89465	20 16 36.57	−14 42 11.0				118
1997 PN	1997 08 07.91431	20 14 44.37	−13 12 27.3				118
1997 PN	1997 08 07.91635	20 14 44.13	−13 12 17.1				118
1997 PN	1997 08 07.91850	20 14 43.90	−13 12 05.7	18.4	R		118
1997 PN	1997 08 08.89551	20 13 02.11	−11 48 02.4				118
1997 PN	1997 08 08.89693	20 13 01.97	−11 47 55.2				118
1997 PN	1997 08 09.86772	20 11 25.83	−10 26 23.8	18.4	R		118
1997 PN	1997 08 09.87057	20 11 25.55	−10 26 09.8				118
1997 PN	1997 08 10.83391	20 09 55.24	−09 07 21.6				118
1997 PN	1997 08 10.83879	20 09 54.71	−09 06 57.9				118
1997 PN	1997 08 10.84109	20 09 54.49	−09 06 47.1	18.5	R		118
1997 PZ_1	* 1997 08 04.89250	21 46 13.69	−12 10 22.5				118
1997 PZ_1	1997 08 04.90113	21 46 13.36	−12 10 24.8				118
1997 PZ_1	1997 08 04.93851	21 46 11.61	−12 10 35.8				118
1997 PZ_1	1997 08 05.85655	21 45 31.64	−12 14 56.3			S	118
1997 PZ_1	1997 08 05.86032	21 45 31.51	−12 14 55.8	18.5	R	I	118
1997 PZ_1	1997 08 05.88069	21 45 30.53	−12 15 02.9			I	118
1997 PZ_1	1997 08 08.93457	21 43 13.99	−12 29 44.0				118
1997 PZ_1	1997 08 08.94143	21 43 13.67	−12 29 46.0	18.6	R		118
1997 PZ_1	1997 08 10.88579	21 41 44.83	−12 39 18.9				118
1997 PZ_1	1997 08 10.89326	21 41 44.49	−12 39 20.9				118
1997 PZ_1	1997 08 10.92409	21 41 43.03	−12 39 29.9	18.7	R		118
1997 PA_2	* 1997 08 04.98954	22 07 40.98	−15 17 35.2	19.0	R		118
1997 PA_2	1997 08 04.99572	22 07 40.74	−15 17 36.2				118
1997 PA_2	1997 08 05.03513	22 07 39.00	−15 17 45.2				118
1997 PA_2	1997 08 07.05907	22 06 10.36	−15 26 03.1			V	118
1997 PA_2	1997 08 07.06786	22 06 09.90	−15 26 03.7			S	118
1997 PA_2	1997 08 10.94918	22 03 12.13	−15 42 07.1	19.2	R		118
1997 PA_2	1997 08 10.95170	22 03 12.00	−15 42 08.1				118
1997 PA_2	1997 08 10.95826	22 03 11.71	−15 42 09.5				118
1997 PB_2	* 1997 08 05.09153	22 46 17.76	−13 37 14.6			r	118
1997 PB_2	1997 08 05.09498	22 46 17.52	−13 37 15.3			I	118
1997 PB_2	1997 08 05.09662	22 46 17.44	−13 37 16.0			S	118
1997 PB_2	1997 08 05.97552	22 45 48.16	−13 44 37.6				118
1997 PB_2	1997 08 05.98525	22 45 47.74	−13 44 42.6				118
1997 PB_2	1997 08 05.99425	22 45 47.40	−13 44 46.9	18.3	R		118
(1373)	1997 07 27.91330	19 46 22.51	−20 46 36.2				118
(1373)	1997 07 27.92802	19 46 21.48	−20 46 30.8				118
(1373)	1997 07 27.93116	19 46 21.27	−20 46 29.8	16.4	R		118
(1386)	1997 07 28.04941	00 51 57.30	+05 51 40.6	16.3	R		118
(1386)	1997 07 28.05315	00 51 57.57	+05 51 40.2				118
(1943)	1997 07 29.07121	22 08 56.15	+18 12 07.1	15.5	R		118
(1943)	1997 07 29.07426	22 08 55.87	+18 12 07.2				118
(1943)	1997 07 29.07728	22 08 55.58	+18 12 07.5				118
(1943)	1997 07 29.08142	22 08 55.18	+18 12 07.8				118
(1943)	1997 08 01.98694	22 02 58.69	+18 11 19.6	15.7	R		118
(1943)	1997 08 03.96039	21 59 50.32	+18 06 01.8	15.7	R		118
(1943)	1997 08 03.96747	21 59 49.63	+18 06 00.3				118
(1980)	1997 07 14.92973	18 08 53.92	+37 05 13.0				118
(1980)	1997 07 14.93287	18 08 53.52	+37 05 20.5				118
(1980)	1997 07 14.93547	18 08 53.20	+37 05 26.5				118
(1980)	1997 08 01.83692	17 36 39.17	+45 55 17.3	14.0	R		118
(1980)	1997 08 01.84485	17 36 38.41	+45 55 27.4				118
(1980)	1997 08 03.93417	17 33 37.82	+46 38 08.1				118
(1980)	1997 08 03.94017	17 33 37.29	+46 38 14.8	14.1	R		118
(2100)	1997 07 23.00970	01 28 39.38	+26 22 22.7	17.0	R		118
(2100)	1997 07 23.01549	01 28 39.72	+26 22 21.3				118
(2100)	1997 07 27.01893	01 32 42.50	+26 02 58.4				118
(2100)	1997 07 27.03890	01 32 43.56	+26 02 52.4	16.6	R		118
(2100)	1997 08 02.03222	01 38 04.48	+25 21 45.8				118
(2100)	1997 08 02.03877	01 38 04.76	+25 21 42.5	16.8	R		118
(3040)	1997 07 29.01563	16 46 16.27	+32 08 19.1				118
(3040)	1997 07 29.01910	16 46 16.24	+32 08 13.7				118
(3040)	1997 07 29.02328	16 46 16.21	+32 08 07.3	17.2	R		118
(3040)	1997 07 30.95750	16 45 58.84	+31 17 59.2	17.7	R	r	118
(3040)	1997 07 30.96715	16 45 58.76	+31 17 43.8	17.2	R	r	118
(3040)	1997 08 01.85708	16 45 49.47	+30 28 12.5	17.5	R		118
(3040)	1997 08 01.86513	16 45 49.44	+30 27 59.8				118
(3619)	1997 07 28.01421	00 37 23.41	+04 13 42.6				118
(3619)	1997 07 28.02028	00 37 23.78	+04 13 43.7	16.6	R		118
(6411)	1997 07 22.96105	20 04 41.40	+05 23 04.5				118
(6411)	1997 07 22.97090	20 04 40.84	+05 23 00.7	18.0	R		118
(6411)	1997 07 26.95297	20 01 07.29	+04 54 00.9	17.8	R		118
(6411)	1997 07 26.96995	20 01 06.40	+04 53 53.0				118
(6411)	1997 07 31.02307	19 57 28.79	+04 20 52.1	17.8	R		118
(6411)	1997 07 31.04200	19 57 28.06	+04 20 47.3	17.1	R		118
(6411)	1997 08 01.92666	19 55 47.70	+04 04 13.5	17.8	R		118
(6411)	1997 08 01.93340	19 55 47.29	+04 04 09.9				118
(6411)	1997 08 04.00082	19 53 58.44	+03 45 18.7				118
(6411)	1997 08 04.00382	19 53 58.20	+03 45 16.2	17.7	R		118
(7031)	1997 08 05.09153	22 45 47.62	−13 38 29.9	18.0	R	r	118
(7031)	1997 08 05.09498	22 45 47.41	−13 38 30.8			S	118
(7031)	1997 08 05.09662	22 45 47.38	−13 38 31.3			S	118

122 Pises Observatory
B. Gaillard, 34 rue du Mas de Lemasson, F-34070 Montpellier, France
[observatoire.pises@hol.fr]
Observers B. Gaillard, A. Jacquey, J. Lopez, C. Cavadore, R. Poncy,
Measurer B. Gaillard
0.40-m $f/4.7$ reflector + CCD

1997 NU_6	1997 07 29.00892	19 24 52.77	−10 30 58.7	17.9	122
1997 NU_6	1997 07 29.01129	19 24 52.65	−10 30 58.8	17.9	122
1997 NU_6	1997 07 29.01362	19 24 52.55	−10 30 59.1	18.1	122

1997 NU_6		1997 07 29.01594	19 24 52.45	−10 30 59.3	18.0	122
1997 NU_6		1997 08 01.93728	19 21 58.28	−10 37 27.9	18.2	122
1997 NU_6		1997 08 01.93928	19 21 58.19	−10 37 28.2		122
1997 NU_6		1997 08 01.94138	19 21 58.11	−10 37 28.3		122
1997 NU_6		1997 08 01.94360	19 21 58.01	−10 37 28.8		122
1997 NU_6		1997 08 03.95951	19 20 34.43	−10 41 10.2	18.1	122
1997 NU_6		1997 08 03.96215	19 20 34.30	−10 41 10.5		122
1997 OH		1997 07 28.05074	20 05 30.71	−13 31 03.2	19.4	122
1997 OH		1997 07 28.05317	20 05 30.58	−13 30 57.3		122
1997 OH		1997 07 28.05544	20 05 30.48	−13 30 53.4		122
1997 OH		1997 07 28.05647	20 05 30.35	−13 30 49.5		122
1997 OH		1997 07 28.05865	20 05 30.24	−13 30 44.7		122
1997 PJ	*	1997 08 01.95294	19 22 35.68	−10 30 45.4	18.5	122
1997 PJ		1997 08 01.95506	19 22 35.57	−10 30 46.1		122
1997 PJ		1997 08 01.95670	19 22 35.49	−10 30 46.5		122
1997 PJ		1997 08 02.99838	19 21 53.94	−10 35 33.6		122
1997 PJ		1997 08 03.00017	19 21 53.88	−10 35 34.2		122
1997 PJ		1997 08 03.00176	19 21 53.86	−10 35 34.2		122
1997 PJ		1997 08 03.00343	19 21 53.80	−10 35 34.4		122
1997 PJ		1997 08 03.95088	19 21 17.19	−10 39 59.2	18.4	122
1997 PJ		1997 08 03.95257	19 21 17.12	−10 39 59.5		122
1997 PJ		1997 08 03.95626	19 21 16.97	−10 40 00.7		122
1997 PJ		1997 08 03.95951	19 21 16.87	−10 40 01.8		122
1997 PJ		1997 08 03.96215	19 21 16.73	−10 40 02.1		122

124 Castres
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0.20-m f/6.15 reflector + CCD
GSC

1997 PF_1	*	1997 08 02.06074	22 17 59.14	−07 59 22.8	18.5	124
1997 PF_1		1997 08 02.06506	22 17 58.96	−07 59 23.0	18.0	124
1997 PF_1		1997 08 03.03265	22 17 19.71	−07 59 23.3	18.3	124
1997 PF_1		1997 08 03.04559	22 17 19.09	−07 59 23.1	18.2	124
1997 PF_1		1997 08 04.03401	22 16 37.42	−07 59 30.8	17.9	124
1997 PF_1		1997 08 04.04693	22 16 36.76	−07 59 29.8	18.3	124
1997 PF_1		1997 08 07.05640	22 14 20.26	−08 00 38.5	18.3	124
1997 PF_1		1997 08 07.06502	22 14 19.74	−08 00 40.3	17.9	124
1997 PF_1		1997 08 07.07795	22 14 19.12	−08 00 39.9	18.1	124

126 Monte Viseggi
P. Pietrapiana, Associazione Astrofili Spezzini, Casella Postale 11, I-19100 La Spezia, Italy [MC7316@mclink.it]
Observers P. Pietrapiana, L. Zannoni, G. Scarfi
Measurer P. Pietrapiana
0.40-m f/5 reflector + CCD
GSC

1987 YA		1997 08 02.92100	18 16 17.62	−19 48 07.8	17.6	126
1987 YA		1997 08 02.96709	18 16 15.78	−19 48 11.8	17.7	126
1990 TU_8		1997 07 25.92584	19 51 56.12	−25 42 43.3		126
1990 TU_8		1997 07 25.93572	19 51 55.77	−25 42 42.3		126
1990 TU_8		1997 07 25.94101	19 51 55.45	−25 42 43.0		126
1990 TU_8		1997 07 26.92590	19 51 01.13	−25 44 01.3		126
1990 TU_8		1997 07 26.93330	19 51 00.70	−25 44 02.0		126
1990 TU_8		1997 07 26.94484	19 51 00.02	−25 44 02.9		126
1991 PF_{10}		1997 07 21.92933	18 43 41.92	−20 37 05.8		126
1991 PF_{10}		1997 07 21.94167	18 43 41.22	−20 37 08.0		126
1991 PF_{10}		1997 07 22.87366	18 42 50.61	−20 39 33.3		126
1991 PF_{10}		1997 07 22.92955	18 42 47.49	−20 39 42.1		126
1991 PF_{10}		1997 07 22.96671	18 42 45.39	−20 39 49.4		126
1994 WU_1		1997 08 03.08166	22 12 22.36	+03 17 04.0	16.9	126
1994 WU_1		1997 08 03.08748	22 12 22.13	+03 17 00.6	17.0	126
1994 WU_1		1997 08 03.09222	22 12 21.97	+03 16 58.6	17.2	126
1994 WU_1		1997 08 03.10853	22 12 21.45	+03 16 49.8	17.0	126
1994 WU_1		1997 08 03.11706	22 12 21.15	+03 16 45.3	17.2	126
1076 T-3		1997 07 25.89638	20 33 42.31	−19 48 52.9		126
1076 T-3		1997 07 25.89920	20 33 42.14	−19 48 52.2		126
1076 T-3		1997 07 25.91105	20 33 41.31	−19 48 52.0		126
1076 T-3		1997 07 25.91829	20 33 40.81	−19 48 51.6		126
1076 T-3		1997 07 26.87173	20 32 36.61	−19 47 59.9		126
1076 T-3		1997 07 26.87870	20 32 36.13	−19 47 59.5		126
1076 T-3		1997 07 26.89866	20 32 34.73	−19 47 58.5		126
1076 T-3		1997 07 26.91199	20 32 33.79	−19 47 58.0		126
(6982)		1997 07 21.97788	19 09 03.94	+00 15 36.5		126
(6982)		1997 07 21.98890	19 09 03.41	+00 15 34.3		126
(6982)		1997 07 22.00226	19 09 02.76	+00 15 32.2		126

127 Bornheim
N. Ehring, Stationenweg 54, D-53332 Bornheim, Germany [norbert.ehring@t-online.de]
0.19-m f/4 FFC + CCD
GSC

1988 GF		1997 07 27.92043	20 25 23.61	+05 33 28.0		127
1988 GF		1997 07 27.92396	20 25 23.45	+05 33 27.6		127
1988 GF		1997 07 29.91343	20 23 43.08	+05 30 00.3		127
1988 GF		1997 07 29.92205	20 23 42.61	+05 29 59.1		127
1989 CJ_8		1997 04 01.93144	13 42 31.14	+03 52 17.3		127
1989 CJ_8		1997 04 01.93709	13 42 30.91	+03 52 21.0		127
1989 CJ_8		1997 04 06.88368	13 39 14.03	+04 41 06.4		127
1989 CJ_8		1997 04 06.89559	13 39 13.53	+04 41 13.6		127
1989 CJ_8		1997 04 09.89440	13 37 05.38	+05 09 05.9		127
1989 CJ_8		1997 04 09.89858	13 37 05.20	+05 09 07.8		127
1990 SW		1997 08 05.96701	22 52 18.56	+06 00 04.3		127
1990 SW		1997 08 05.97697	22 52 18.24	+06 00 02.5		127
1990 SW		1997 08 06.95839	22 51 49.03	+05 57 17.4		127
1990 SW		1997 08 06.96377	22 51 48.87	+05 57 16.3		127
1990 UO_2		1997 08 04.92193	20 53 27.21	+26 02 45.3		127
1990 UO_2		1997 08 04.92757	20 53 26.86	+26 02 46.5		127
1990 UO_2		1997 08 05.90411	20 52 27.35	+26 05 25.8		127
1990 UO_2		1997 08 05.90772	20 52 27.09	+26 05 26.6		127
1990 UO_2		1997 08 06.89742	20 51 26.59	+26 07 40.2		127
1990 UO_2		1997 08 06.90477	20 51 26.15	+26 07 41.2		127
1991 YV		1997 04 09.92066	13 50 26.31	+12 47 33.1		127
1991 YV		1997 04 09.93006	13 50 25.79	+12 47 35.7		127
1992 WY_4		1997 08 04.96019	22 05 52.04	+18 45 07.3		127
1992 WY_4		1997 08 04.96360	22 05 51.83	+18 45 08.8		127
1992 WY_4		1997 08 05.95685	22 04 49.70	+18 52 49.4		127

1992 WY_4	1997 08 05.96400	22 04 49.24	+18 52 52.9	127
1993 FB_1	1997 03 27.88337	12 09 14.98	+13 57 21.1	127
1993 FB_1	1997 03 27.89334	12 09 14.35	+13 57 22.5	127
1993 FB_1	1997 03 31.87043	12 05 34.72	+14 07 03.8	127
1993 FB_1	1997 03 31.87402	12 05 34.52	+14 07 04.4	127
1993 FB_1	1997 04 01.86668	12 04 40.82	+14 08 54.2	127
1993 FB_1	1997 04 01.87037	12 04 40.65	+14 08 54.5	127
1993 FB_1	1997 04 06.85164	12 00 22.52	+14 14 25.6	127
1993 FB_1	1997 04 06.85897	12 00 22.13	+14 14 25.9	127
1993 JL	1997 04 01.92344	13 53 13.84	+12 30 49.9	127
1993 JL	1997 04 01.92703	13 53 13.66	+12 30 51.0	127
1993 JL	1997 04 06.90301	13 48 47.53	+12 48 08.3	127
1993 JL	1997 04 06.91076	13 48 47.10	+12 48 09.9	127
1993 JL	1997 04 09.90726	13 45 57.30	+12 55 55.2	127
1993 JL	1997 04 09.91302	13 45 56.98	+12 55 56.1	127
1993 SG_1	1997 07 27.93131	21 17 12.05	+04 03 44.4	127
1993 SG_1	1997 07 27.93571	21 17 11.92	+04 03 42.7	127
1993 SG_1	1997 07 29.92708	21 16 12.66	+03 49 07.9	127
1993 SG_1	1997 07 29.93686	21 16 12.33	+03 49 03.3	127
1995 YM	1997 04 07.93530	14 28 49.18	+13 54 21.3	127
1995 YM	1997 04 07.94002	14 28 48.97	+13 54 22.7	127
9076 P-L	1997 08 05.93134	21 56 22.63	+06 59 25.9	127
9076 P-L	1997 08 05.93981	21 56 22.29	+06 59 24.0	127
9076 P-L	1997 08 06.93377	21 55 42.43	+06 54 52.0	127
9076 P-L	1997 08 06.93811	21 55 42.25	+06 54 50.6	127
4161 T-1	1997 08 04.97008	21 06 26.58	+03 50 41.8	127
4161 T-1	1997 08 04.97787	21 06 26.23	+03 50 37.7	127
4161 T-1	1997 08 05.91419	21 05 44.87	+03 42 40.7	127
4161 T-1	1997 08 05.92689	21 05 44.29	+03 42 34.1	127
4161 T-1	1997 08 06.90804	21 05 00.80	+03 33 58.2	127
4161 T-1	1997 08 06.91638	21 05 00.39	+03 33 53.5	127
(1093)	1997 04 06.92494	14 27 49.98	+04 22 40.0	127
(1093)	1997 04 06.93281	14 27 49.59	+04 22 40.4	127
(1093)	1997 04 07.92373	14 26 59.76	+04 23 38.4	127
(1093)	1997 04 07.93293	14 26 59.29	+04 23 38.9	127
(1093)	1997 04 09.93649	14 25 15.75	+04 25 18.5	127
(1093)	1997 04 09.94512	14 25 15.29	+04 25 19.1	127
(1428)	1997 04 01.89874	13 20 17.63	+17 40 26.0	127
(1428)	1997 04 01.90301	13 20 17.43	+17 40 27.6	127
(1428)	1997 04 06.86250	13 16 23.08	+18 08 37.9	127
(1428)	1997 04 06.86985	13 16 22.72	+18 08 40.2	127
(1819)	1997 03 27.86918	11 50 32.16	+29 16 03.0	127
(1819)	1997 03 27.87720	11 50 31.81	+29 16 05.5	127
(1819)	1997 03 28.83247	11 49 49.74	+29 21 04.1	127
(1819)	1997 03 28.83565	11 49 49.60	+29 21 05.1	127
(1819)	1997 03 31.85422	11 47 38.84	+29 35 18.9	127
(1819)	1997 03 31.85764	11 47 38.67	+29 35 19.7	127
(1943)	1997 07 27.95590	22 10 33.85	+18 09 57.9	127
(1943)	1997 07 27.95961	22 10 33.53	+18 09 58.4	127
(1943)	1997 07 29.95075	22 07 38.89	+18 13 02.8	127
(1943)	1997 07 29.96557	22 07 37.47	+18 13 03.5	127
(3228)	1997 04 01.88287	11 47 48.29	−02 12 29.8	127
(3228)	1997 04 01.88737	11 47 48.08	−02 12 28.0	127
(4954)	1997 03 31.89670	11 49 56.02	−02 03 04.5	127
(4954)	1997 03 31.90212	11 49 55.56	−02 03 04.0	127
(4954)	1997 04 01.87536	11 48 36.44	−02 01 33.4	127
(4954)	1997 04 01.88524	11 48 35.65	−02 01 32.3	127
(6764)	1997 03 31.88469	11 49 11.75	+04 58 56.7	127
(6764)	1997 03 31.89317	11 49 11.19	+04 58 57.5	127
(6764)	1997 04 06.84006	11 43 17.18	+05 07 17.9	127
(6764)	1997 04 06.84786	11 43 16.70	+05 07 18.4	127
(6911)	1997 07 27.94288	21 18 44.30	+29 21 53.7	127
(6911)	1997 07 27.94676	21 18 44.10	+29 21 54.2	127
(6911)	1997 08 04.93038	21 12 02.40	+29 18 33.4	127
(6911)	1997 08 04.94497	21 12 01.55	+29 18 31.0	127
(6982)	1997 07 27.90425	19 04 41.60	−00 06 30.6	127
(6982)	1997 07 27.91262	19 04 41.26	−00 06 32.8	127
(6982)	1997 07 29.89877	19 03 21.35	−00 15 43.1	127
(6982)	1997 07 29.90833	19 03 20.94	−00 15 45.8	127
(7514)	1997 04 06.87309	12 53 36.95	−01 28 37.8	127
(7514)	1997 04 06.87674	12 53 36.75	−01 28 37.1	127
(7514)	1997 04 07.91730	12 52 38.83	−01 25 48.6	127
(7514)	1997 04 07.92095	12 52 38.60	−01 25 48.1	127
(7660)	1997 03 09.96748	11 25 53.15	+03 12 39.5	127
(7660)	1997 03 09.97095	11 25 52.93	+03 12 44.8	127
(7660)	1997 03 11.00174	11 24 57.60	+03 39 32.3	127
(7660)	1997 03 11.00451	11 24 57.44	+03 39 36.8	127

132 Bedoin

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[Pierre.Antonini@wanadoo.fr]

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

1997 OY_1	*	1997 07 29.93801	20 57 43.26	−05 20 26.0	18.3	132
1997 OY_1		1997 07 29.97395	20 57 41.42	−05 20 39.0		132
1997 OY_1		1997 07 30.00245	20 57 39.97	−05 20 47.8	18.5	132
1997 OY_1		1997 08 02.91444	20 54 16.30	−05 43 16.6	18.3	132
1997 OY_1		1997 08 02.94172	20 54 14.88	−05 43 27.2	18.2	132
1997 OY_1		1997 08 02.96828	20 54 13.39	−05 43 36.8	18.3	132
1997 ON_2	*	1997 07 29.93801	20 57 43.47	−05 25 51.1		132
1997 ON_2		1997 07 29.97395	20 57 41.19	−05 25 49.3	18.4	132
1997 ON_2		1997 07 30.00245	20 57 39.65	−05 25 47.9	18.5	132

138 Village-Neuf

C. Demeautis, 9 rue de Huningue, F-68300 Saint-Louis, France
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Observers C. Demeautis, D. Matter
Measurer C. Demeautis

0.20-m $f/6.3$ Schmidt-Cassegrain + CCD
USNO SA-1.0

1993 FL_{84}	1997 07 13.07352	20 07 46.67	−04 47 00.1	16.7	138
1993 FL_{84}	1997 07 13.09678	20 07 45.53	−04 47 04.3	17.0	138
1993 MC	1997 07 12.92857	17 46 53.04	−02 08 34.1	16.7	138
1993 MC	1997 07 12.98657	17 46 51.21	−02 08 34.5	17.1	138
1993 MC	1997 07 13.02581	17 46 50.05	−02 08 34.6	16.9	138

(7757)	1997 07 12.93414	17 38 18.25	+11 34 13.5	15.8	138
(7757)	1997 07 12.99398	17 38 15.88	+11 34 42.6	15.6	138
(7778)	1997 07 12.92269	18 24 48.68	+16 44 22.7	14.8	138
(7778)	1997 07 12.95947	18 24 46.93	+16 44 40.8	14.8	138
(7778)	1997 07 13.01845	18 24 44.16	+16 45 07.4	14.9	138

139 Antibes
L. Brunetto, 252 Chemin Spagnon, F-06600 Antibes, France
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Observers L. Brunetto, D. Clermont
Measurer L. Brunetto
0.25-m $f/6.56$ reflector + CCD
GSC

(185)	1997 07 05.95878	16 32 29.27	+10 08 42.8	12.3	139
(185)	1997 07 05.96171	16 32 29.18	+10 08 41.7	12.3	139
(185)	1997 07 05.96464	16 32 29.09	+10 08 39.1	12.3	139
(185)	1997 07 06.95171	16 31 59.52	+10 01 24.6	12.3	139
(185)	1997 07 06.95462	16 31 59.44	+10 01 23.3	12.3	139
(185)	1997 07 06.95755	16 31 59.34	+10 01 22.0	12.3	139
(234)	1997 07 05.97758	17 00 34.32	+00 39 50.0	12.5	139
(234)	1997 07 05.98051	17 00 34.20	+00 39 48.5	12.7	139
(234)	1997 07 05.98344	17 00 34.05	+00 39 46.8	12.5	139
(234)	1997 07 07.01421	16 59 51.06	+00 30 08.7	12.5	139
(234)	1997 07 07.01644	16 59 50.96	+00 30 07.2	12.5	139
(234)	1997 07 07.01866	16 59 50.87	+00 30 06.1	12.6	139
(611)	1997 07 05.99068	17 04 26.03	−04 55 12.5	15.8	139
(611)	1997 07 05.99297	17 04 25.94	−04 55 12.7	15.8	139
(611)	1997 07 05.99513	17 04 25.86	−04 55 12.9	15.8	139
(611)	1997 07 06.98921	17 03 50.93	−04 56 30.5	15.7	139
(611)	1997 07 06.99213	17 03 50.84	−04 56 30.7	15.7	139
(611)	1997 07 06.99505	17 03 50.73	−04 56 31.0	15.7	139

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 R. Chen, Z. Y. Zheng, H. J. Yan, J. Zhu, C. M. Ma, Y. J. Chen, X. Y. Li, L. C. Deng, X. Zhou
Measurers Y. J. Chen, X. Y. Li, C. M. Ma, J. Zhu
0.60-m Schmidt + CCD

1976 GL_8	1997 07 08.61391	19 26 36.50	−18 30 38.8	15.1	327
1976 GL_8	1997 07 08.63199	19 26 35.37	−18 30 36.5		327
1976 GL_8	1997 07 08.64939	19 26 34.32	−18 30 34.3		327
1982 FG_3	1997 06 15.78613	22 56 53.14	−06 08 01.0		327
1982 FG_3	1997 06 15.79046	22 56 53.36	−06 07 58.8		327
1982 FG_3	1997 06 15.80347	22 56 53.97	−06 07 55.6		327
1982 FG_3	1997 06 15.80786	22 56 54.20	−06 07 52.4	18.5	327
1989 GJ_2	1997 06 11.65311	19 38 26.79	−12 28 18.2	17.5	327
1989 GJ_2	1997 06 11.65786	19 38 26.63	−12 28 17.3		327
1989 GJ_2	1997 06 11.66258	19 38 26.41	−12 28 16.6		327
1989 TU_1	1997 07 13.67900	19 51 30.58	−15 07 19.1	18.9	327
1989 TU_1	1997 07 13.69388	19 51 29.68	−15 07 19.5		327
1990 TV_{12}	1997 06 27.54858	15 37 08.73	−18 57 14.5		327
1990 TV_{12}	1997 06 27.58672	15 37 07.92	−18 57 06.1	18.6	327
1990 TV_{12}	1997 06 27.61152	15 37 07.46	−18 57 01.8		327
1991 VP_7	1996 10 23.58168	02 36 33.20	+13 30 13.4	17.6 V	327
1991 VP_7	1996 10 23.60771	02 36 32.03	+13 30 00.4		327
1991 VP_7	1996 10 23.61644	02 36 31.62	+13 29 56.0		327
1994 YC_1	1997 07 09.70376	19 21 18.49	−22 31 31.1	18.7	327
1994 YC_1	1997 07 09.71807	19 21 17.79	−22 31 32.4		327
1994 YC_1	1997 07 09.73324	19 21 17.03	−22 31 33.7		327
1995 DQ_1	1995 03 30.55221	11 18 36.66	+12 59 07.6	18.0 V	327
1995 DQ_1	1995 03 30.58457	11 18 35.06	+12 59 16.6		327
1996 AL_{20}	* 1996 01 04.80200	10 00 00.13	+14 39 14.3	18.5 V	327
1996 AL_{20}	1996 01 04.81903	09 59 59.65	+14 39 17.0		327
1996 AL_{20}	1996 01 04.84257	09 59 59.23	+14 39 20.1		327
1997 KS	1997 07 13.63189	19 17 40.52	−12 14 50.2	16.8	327
1997 KS	1997 07 13.64231	19 17 39.90	−12 14 50.1		327
1997 KS	1997 07 13.65287	19 17 39.30	−12 14 51.3		327
1997 KS	1997 07 24.60590	19 08 06.69	−12 25 20.5		327
1997 KS	1997 07 24.61023	19 08 06.51	−12 25 20.6	17.1	327
1997 KS	1997 07 24.61477	19 08 06.26	−12 25 21.0		327
1997 LY_4	1997 07 17.59340	19 39 51.83	+02 52 12.5	16.6	327
1997 LY_4	1997 07 17.59840	19 39 51.66	+02 52 18.8		327
1997 LY_4	1997 07 17.60203	19 39 51.59	+02 52 23.4		327
1997 LE_{18}	* 1997 06 03.53663	12 55 38.07	+08 10 44.6		327
1997 LE_{18}	1997 06 03.54132	12 55 38.14	+08 10 42.2		327
1997 LE_{18}	1997 06 03.54616	12 55 38.20	+08 10 39.3		327
1997 LE_{18}	1997 06 03.55071	12 55 38.26	+08 10 36.8	18.8	327
1997 LE_{18}	1997 06 10.57954	12 58 02.05	+07 04 15.4	19.1	327
1997 LE_{18}	1997 06 10.58425	12 58 02.19	+07 04 12.7		327
1997 LE_{18}	1997 06 10.58896	12 58 02.30	+07 04 10.0		327
1997 LE_{18}	1997 06 10.59368	12 58 02.37	+07 04 07.4		327
1997 MV	1997 07 13.72249	19 46 54.01	−18 27 19.8		327
1997 MV	1997 07 13.72682	19 46 53.74	−18 27 21.3		327
1997 MV	1997 07 13.73116	19 46 53.48	−18 27 23.9		327
1997 MV	1997 07 13.73549	19 46 53.19	−18 27 25.5	18.7	327
1997 MX	1997 07 13.67326	19 50 44.35	−17 13 59.4	17.8	327
1997 MX	1997 07 13.68863	19 50 43.47	−17 14 04.0		327
1997 MX	1997 07 13.70348	19 50 42.59	−17 14 09.8		327
1997 MZ	1997 07 13.66336	19 49 39.92	−14 50 04.7	19.8	327
1997 MZ	1997 07 13.67900	19 49 38.90	−14 50 03.2		327
1997 MZ	1997 07 13.69388	19 49 37.94	−14 50 01.4		327
1997 NA_3	1997 07 13.70900	19 15 48.18	−21 02 44.7		327
1997 NA_3	1997 07 25.63780	19 06 10.75	−21 11 12.6		327
1997 NA_3	1997 07 25.64697	19 06 10.32	−21 11 12.7	17.7	327
1997 NA_3	1997 07 25.65679	19 06 09.88	−21 11 12.7		327
1997 NR_6	1997 07 25.64260	19 00 09.77	−18 03 10.3		327
1997 NR_6	1997 07 25.65216	19 00 09.32	−18 03 13.8		327
1997 NR_6	1997 07 25.66112	19 00 08.90	−18 03 17.2	17.3	327
1997 NB_8	1997 07 13.70900	19 15 38.58	−21 13 15.3		327
1997 NB_8	1997 07 13.71333	19 15 38.30	−21 13 15.1		327
1997 NB_8	1997 07 13.71782	19 15 37.95	−21 13 15.4	17.5	327
1997 NB_8	1997 07 25.63780	19 03 47.09	−21 11 03.8	18.9	327
1997 NB_8	1997 07 25.64697	19 03 46.52	−21 11 03.3		327

1997 NB_8		1997 07 25.65679	19 03 45.94	−21 11 03.2			327	1997 PC_1		1997 08 03.82186	23 48 32.89	−03 34 53.3	18.7		327
1997 NC_{11}	*	1997 07 09.70811	19 13 59.05	−21 49 35.6			327	1997 PC_1		1997 08 05.78176	23 48 06.74	−03 38 49.6	18.9		327
1997 NC_{11}		1997 07 09.72252	19 13 58.41	−21 49 36.1	17.2		327	1997 PC_1		1997 08 05.79234	23 48 06.60	−03 38 50.6			327
1997 NC_{11}		1997 07 09.73757	19 13 57.75	−21 49 36.7			327	1997 PC_1		1997 08 05.80360	23 48 06.40	−03 38 52.5			327
1997 NC_{11}		1997 07 12.62538	19 11 46.87	−21 51 31.9			327	1997 PD_1	*	1997 08 03.80006	23 48 51.32	−03 57 31.9			327
1997 NC_{11}		1997 07 12.63414	19 11 46.48	−21 51 32.1	17.7		327	1997 PD_1		1997 08 03.81072	23 48 51.21	−03 57 33.2			327
1997 NC_{11}		1997 07 12.64355	19 11 46.04	−21 51 32.3			327	1997 PD_1		1997 08 03.82186	23 48 51.11	−03 57 35.0	18.7		327
1997 ND_{11}	*	1997 07 13.63683	19 16 38.04	−17 36 03.5			327	1997 PD_1		1997 08 05.78176	23 48 29.23	−04 03 24.3	19.5		327
1997 ND_{11}		1997 07 13.64723	19 16 37.48	−17 36 02.0			327	1997 PD_1		1997 08 05.79234	23 48 29.08	−04 03 26.3			327
1997 ND_{11}		1997 07 13.65780	19 16 36.88	−17 36 01.3	17.2		327	1997 PD_1		1997 08 05.80360	23 48 28.87	−04 03 28.1			327
1997 ND_{11}		1997 07 24.62147	19 07 14.87	−17 19 11.3	17.0		327	(295)		1997 07 09.74266	19 23 51.53	−21 10 58.6	14.3		327
1997 ND_{11}		1997 07 24.62595	19 07 14.65	−17 19 10.7			327	(295)		1997 07 09.75862	19 23 50.61	−21 10 59.8			327
1997 ND_{11}		1997 07 24.63028	19 07 14.41	−17 19 10.6			327	(295)		1997 07 09.77632	19 23 49.64	−21 11 00.8			327
1997 ND_{11}		1997 07 25.66561	19 06 24.92	−17 17 43.4			327	(552)		1997 07 01.56398	17 09 04.47	−23 22 37.5			327
1997 ND_{11}		1997 07 25.68560	19 06 23.96	−17 17 41.8	17.0		327	(552)		1997 07 01.57707	17 09 03.92	−23 22 35.2			327
1997 NF_{11}	*	1997 07 09.70811	19 14 11.44	−21 50 36.0	18.6		327	(552)		1997 07 01.59020	17 09 03.40	−23 22 32.5	13.9		327
1997 NF_{11}		1997 07 09.72252	19 14 10.65	−21 50 37.3			327	(805)		1997 07 04.69444	21 40 40.42	+00 19 12.5			327
1997 NF_{11}		1997 07 09.73757	19 14 09.86	−21 50 39.2			327	(805)		1997 07 04.71020	21 40 40.26	+00 19 10.8	14.0		327
1997 NF_{11}		1997 07 12.62538	19 11 37.66	−21 55 50.8		I	327	(805)		1997 07 04.72586	21 40 40.11	+00 19 09.0			327
1997 NF_{11}		1997 07 12.64355	19 11 36.72	−21 55 53.8		I	327	(805)		1997 07 04.74233	21 40 39.95	+00 19 07.1			327
1997 NG_{11}	*	1997 07 09.70811	19 16 22.51	−21 20 20.6			327	(805)		1997 07 04.75817	21 40 39.80	+00 19 05.4			327
1997 NG_{11}		1997 07 09.72252	19 16 21.79	−21 20 25.0	17.7		327	(1487)		1997 07 09.70376	19 20 28.11	−22 49 38.9	15.4		327
1997 NG_{11}		1997 07 09.73757	19 16 20.99	−21 20 30.7			327	(1487)		1997 07 09.71807	19 20 27.41	−22 49 40.5			327
1997 NG_{11}		1997 07 12.62538	19 13 51.46	−21 37 56.5	17.3		327	(1487)		1997 07 09.73324	19 20 26.62	−22 49 42.9			327
1997 NG_{11}		1997 07 12.63414	19 13 51.03	−21 37 59.3			327	(1883)		1997 06 23.63572	15 19 46.53	−10 34 16.3			327
1997 NG_{11}		1997 07 12.64355	19 13 50.55	−21 38 01.7			327	(1883)		1997 06 23.65007	15 19 45.98	−10 34 20.9	17.3		327
1997 NH_{11}	*	1997 07 09.70811	19 16 28.53	−21 53 05.4			327	(1883)		1997 06 23.66432	15 19 45.39	−10 34 24.4			327
1997 NH_{11}		1997 07 09.72252	19 16 27.55	−21 53 05.8	18.4		327	(2108)		1997 06 14.79959	23 04 30.20	−07 58 08.9			327
1997 NH_{11}		1997 07 09.73757	19 16 26.54	−21 53 06.2			327	(2108)		1997 06 14.80392	23 04 30.38	−07 58 07.1	16.9		327
1997 NH_{11}		1997 07 12.62538	19 13 21.36	−21 55 16.0			327	(2108)		1997 06 14.80838	23 04 30.52	−07 58 05.3			327
1997 NH_{11}		1997 07 12.63414	19 13 20.77	−21 55 16.2	17.8		327	(2108)		1997 06 14.81271	23 04 30.70	−07 58 03.4			327
1997 NH_{11}		1997 07 12.64355	19 13 20.10	−21 55 16.7			327	(2958)		1997 07 01.65523	19 25 13.94	−22 20 13.5	16.5		327
1997 PZ	*	1997 08 03.80006	23 47 13.02	−03 33 27.0			327	(2958)		1997 07 01.66830	19 25 13.24	−22 20 14.9			327
1997 PZ		1997 08 03.81072	23 47 12.87	−03 33 29.2			327	(2958)		1997 07 01.67701	19 25 12.79	−22 20 16.0			327
1997 PZ		1997 08 03.82186	23 47 12.71	−03 33 31.9	18.9		327	(2958)		1997 07 09.70376	19 18 05.18	−22 31 25.8	16.2		327
1997 PZ		1997 08 05.78176	23 46 44.05	−03 41 20.6			327	(2958)		1997 07 09.71807	19 18 04.45	−22 31 26.8			327
1997 PZ		1997 08 05.79234	23 46 43.90	−03 41 23.5	19.3		327	(2958)		1997 07 09.73324	19 18 03.56	−22 31 28.0			327
1997 PZ		1997 08 05.80360	23 46 43.70	−03 41 26.3			327	(3145)		1997 07 01.64652	19 36 30.65	−21 19 08.0			327
1997 PA_1	*	1997 08 03.80006	23 48 01.66	−04 01 26.7	19.3		327	(3145)		1997 07 01.65958	19 36 29.94	−21 19 05.3	16.1		327
1997 PA_1		1997 08 03.81072	23 48 01.43	−04 01 28.0			327	(3145)		1997 07 01.67265	19 36 29.20	−21 19 02.0			327
1997 PA_1		1997 08 03.82186	23 48 01.19	−04 01 29.7			327	(3499)		1997 06 15.78613	22 57 15.05	−06 16 06.0			327
1997 PA_1		1997 08 05.78176	23 47 19.77	−04 06 23.6			327	(3499)		1997 06 15.79046	22 57 15.23	−06 16 04.4			327
1997 PA_1		1997 08 05.79234	23 47 19.59	−04 06 25.7	19.9		327	(3499)		1997 06 15.80347	22 57 15.83	−06 16 01.5			327
1997 PA_1		1997 08 05.80360	23 47 19.30	−04 06 27.1			327	(3499)		1997 06 15.80786	22 57 16.05	−06 16 00.4	18.1		327
1997 PB_1	*	1997 08 03.80006	23 48 02.83	−03 55 30.9			327	(4493)		1997 07 01.55964	17 03 49.35	−23 03 16.7			327
1997 PB_1		1997 08 03.81072	23 48 02.70	−03 55 34.3	19.8		327	(4493)		1997 07 01.57272	17 03 48.72	−23 03 14.7			327
1997 PB_1		1997 08 03.82186	23 48 02.63	−03 55 38.5			327	(4493)		1997 07 01.58578	17 03 48.17	−23 03 11.9	16.5		327
1997 PB_1		1997 08 05.78176	23 47 38.22	−04 06 17.7			327	(5015)		1997 06 26.75734	20 00 21.77	−16 59 47.6	16.5		327
1997 PB_1		1997 08 05.79234	23 47 38.05	−04 06 22.8	20.1		327	(5015)		1997 06 26.77230	20 00 21.03	−16 59 50.1			327
1997 PB_1		1997 08 05.80360	23 47 37.95	−04 06 25.2			327	(5015)		1997 06 26.78707	20 00 20.34	−16 59 53.0			327
1997 PC_1	*	1997 08 03.80006	23 48 33.17	−03 34 50.6			327	(5816)		1997 07 01.74089	22 10 56.94	−11 39 49.6	18.6		327
1997 PC_1		1997 08 03.81072	23 48 33.05	−03 34 51.7			327	(5816)		1997 07 01.75626	22 10 56.80	−11 39 47.9			327

(5816)	1997 07 01.76940	22 10 56.69	−11 39 47.3		327
(6366)	1997 06 15.78613	22 56 05.39	−06 10 21.9	18.7	327
(6366)	1997 06 15.79046	22 56 05.47	−06 10 21.6		327
(6366)	1997 06 15.80347	22 56 05.78	−06 10 20.2		327
(6366)	1997 06 15.80786	22 56 05.87	−06 10 20.5		327
(6919)	1997 06 27.77395	20 04 48.38	−16 21 59.2		327
(6919)	1997 06 27.78466	20 04 47.86	−16 22 01.8		327
(6919)	1997 06 27.79522	20 04 47.31	−16 22 03.9	17.4	327
(6965)	1997 07 01.73581	22 01 31.70	−12 03 05.9	18.5	327
(6965)	1997 07 01.75123	22 01 31.60	−12 03 08.5		327
(6965)	1997 07 01.76505	22 01 31.53	−12 03 11.0		327
(7723)	1997 07 09.74266	19 24 16.60	−21 27 27.5	15.9	327
(7723)	1997 07 09.75862	19 24 15.51	−21 27 33.6		327
(7723)	1997 07 09.77632	19 24 14.29	−21 27 39.6		327
(7732)	1997 06 15.78613	22 56 10.80	−06 09 46.4		327
(7732)	1997 06 15.79046	22 56 10.94	−06 09 45.9	18.1	327
(7732)	1997 06 15.80347	22 56 11.35	−06 09 42.6		327
(7732)	1997 06 15.80786	22 56 11.52	−06 09 41.4		327
(7788)	1997 06 10.60231	15 25 39.56	−07 53 23.9	18.5	327
(7788)	1997 06 10.61197	15 25 39.18	−07 53 23.3		327
(7788)	1997 06 10.62161	15 25 38.85	−07 53 23.9		327

355 Hadano

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

1997 BR	1997 07 14.73684	02 16 50.58	+13 25 27.2		355
1997 BR	1997 07 14.73835	02 16 50.41	+13 25 05.1		355
1997 BR	1997 07 14.73971	02 16 50.29	+13 24 44.0	15.3 V	355
1997 BR	1997 07 14.74103	02 16 50.21	+13 24 23.7		355
1997 BR	1997 07 14.74306	02 16 49.98	+13 23 52.3		355
1997 BR	1997 07 14.74574	02 16 49.76	+13 23 11.9		355
1997 LY_4	1997 07 02.63858	19 43 55.97	−03 08 07.3		355
1997 LY_4	1997 07 02.63987	19 43 55.95	−03 08 05.1		355
1997 LY_4	1997 07 02.64647	19 43 55.81	−03 07 54.4		355
1997 MW_1	1997 07 02.60278	18 12 19.59	−02 14 55.7		355
1997 MW_1	1997 07 02.60836	18 12 18.16	−02 14 46.1		355
1997 NZ	1997 07 14.56397	19 14 00.94	−20 25 29.1		355
1997 NZ	1997 07 14.56667	19 14 00.73	−20 25 28.0	15.0 V	355
1997 NZ	1997 07 14.57097	19 14 00.49	−20 25 27.1		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 NG_3	1997 07 14.70922	20 32 37.01	−08 21 51.4	16.8 V	358
1997 NG_3	1997 07 14.71948	20 32 36.56	−08 21 55.3		358
1997 NG_3	1997 07 14.74269	20 32 35.45	−08 22 03.0		358
1997 NG_3	1997 07 17.68955	20 30 32.55	−08 36 28.1	16.8 V	358
1997 NG_3	1997 07 17.73249	20 30 30.67	−08 36 40.2		358
1997 NG_3	1997 07 18.70021	20 29 49.22	−08 41 40.9	17.1 V	358
1997 NG_3	1997 07 18.73632	20 29 47.43	−08 41 51.0		358
1997 NE_{11}	* 1997 07 06.63465	20 39 23.98	−07 44 04.4	16.1 V	358
1997 NE_{11}	1997 07 06.65631	20 39 23.13	−07 43 56.8		358
1997 NE_{11}	1997 07 06.68139	20 39 22.02	−07 43 46.6		358
1997 NE_{11}	1997 07 11.57457	20 35 39.92	−07 14 20.3	16.5 V	358
1997 NE_{11}	1997 07 11.58656	20 35 39.34	−07 14 16.5		358
1997 NE_{11}	1997 07 11.58996	20 35 39.30	−07 14 16.4		358
1997 NE_{11}	1997 07 12.73360	20 34 43.06	−07 07 50.8	16.1 V	358
1997 NE_{11}	1997 07 12.76402	20 34 41.53	−07 07 38.2		358
1997 NE_{11}	1997 07 14.70649	20 33 03.76	−06 57 06.7	16.1 V	358
1997 NE_{11}	1997 07 14.75502	20 33 01.16	−06 56 50.6		358
1997 NE_{11}	1997 07 18.72923	20 29 31.22	−06 36 54.0	15.9 V	358
1997 NE_{11}	1997 07 18.75544	20 29 29.76	−06 36 45.5		358
1997 OZ_1	* 1997 07 29.66138	21 43 25.76	−05 46 48.3	17.3 V	358
1997 OZ_1	1997 07 29.68073	21 43 25.08	−05 46 59.2		358
1997 OZ_1	1997 07 29.70444	21 43 23.90	−05 47 09.8		358
1997 OZ_1	1997 08 01.71883	21 41 16.34	−06 14 42.9	17.4 V	358
1997 OZ_1	1997 08 01.72440	21 41 15.97	−06 14 43.9		358
1997 OA_2	* 1997 07 29.71758	21 40 56.72	−08 44 39.1	17.7 V	358
1997 OA_2	1997 07 29.73424	21 40 56.03	−08 44 44.7		358
1997 OA_2	1997 07 29.75510	21 40 54.98	−08 44 53.8		358
1997 OA_2	1997 08 01.63312	21 38 32.07	−09 02 03.7	17.6 V	358
1997 OA_2	1997 08 01.67757	21 38 29.65	−09 02 22.6		358

360 Kuma Kogen Astronomical Observatory

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0.60-m $f/6.0$ Ritchey-Chrétien + CCD
GSC, USNO-SA1.0

1994 QC	1997 07 23.55174	17 26 14.57	+24 00 10.6	17.9 V	360
1994 QC	1997 07 23.55486	17 26 14.73	+24 00 01.8		360
1994 QC	1997 07 23.56319	17 26 15.20	+23 59 37.8		360
1995 BH_1	1997 08 01.69566	22 18 52.89	−09 50 00.9	18.6 V	360
1995 BH_1	1997 08 01.70052	22 18 52.69	−09 50 01.6		360
1997 MW_1	1997 07 23.53681	17 09 19.32	+02 50 54.8	18.0 V	360
1997 MW_1	1997 07 23.54097	17 09 18.83	+02 50 55.8		360
1997 MW_1	1997 07 23.54479	17 09 18.39	+02 50 57.3		360
1997 MW_1	1997 07 30.52569	16 59 30.89	+03 13 44.1		360
1997 MW_1	1997 07 30.53056	16 59 30.53	+03 13 44.8		360
1997 MW_1	1997 07 30.53542	16 59 30.17	+03 13 45.0		360
1997 MD_{10}	1997 08 01.58299	17 44 16.64	−09 56 34.0	19.1 V	360
1997 MD_{10}	1997 08 01.59861	17 44 15.07	−09 56 02.7		360
1997 MD_{10}	1997 08 01.60260	17 44 14.70	−09 55 55.1		360
1997 OX	* 1997 07 24.59635	19 21 58.76	−27 46 55.2	16.3 V	360
1997 OX	1997 07 24.60139	19 21 58.51	−27 46 56.6		360
1997 OX	1997 07 24.64167	19 21 56.45	−27 47 07.1		360
1997 OX	1997 07 30.54132	19 17 15.64	−28 10 49.0		360
1997 OX	1997 07 30.54618	19 17 15.41	−28 10 50.3		360
1997 OX	1997 07 30.55417	19 17 15.05	−28 10 52.1		360
1997 OX	1997 08 01.60885	19 15 43.06	−28 18 21.2		360
1997 OX	1997 08 01.61510	19 15 42.76	−28 18 22.4	16.4 V	360
1997 OX	1997 08 03.57083	19 14 18.89	−28 25 09.3		360
1997 OX	1997 08 03.57743	19 14 18.59	−28 25 10.4		360
1997 OY	* 1997 07 24.61372	20 47 50.93	−20 36 41.7	18.1 V	360

1997 OY		1997 07 24.61910	20 47 50.63	−20 36 42.7			360
1997 OY		1997 07 24.63194	20 47 49.91	−20 36 43.8			360
1997 OY		1997 07 30.56701	20 42 18.01	−20 45 26.5			360
1997 OY		1997 07 30.58264	20 42 17.13	−20 45 27.9			360
1997 OY		1997 07 30.61771	20 42 15.06	−20 45 31.0			360
1997 OY		1997 08 01.63872	20 40 20.83	−20 48 12.1	17.9	V	360
1997 OY		1997 08 01.64444	20 40 20.51	−20 48 12.6			360
1997 OY		1997 08 01.65469	20 40 19.92	−20 48 13.2			360
1997 OY		1997 08 03.58559	20 38 31.04	−20 50 37.9		S	360
1997 OY		1997 08 03.59149	20 38 30.74	−20 50 38.5		S	360
1997 PM	*	1997 08 01.63872	20 40 25.34	−20 49 05.3	18.2	V	360
1997 PM		1997 08 01.64444	20 40 25.01	−20 49 06.1			360
1997 PM		1997 08 01.65469	20 40 24.41	−20 49 07.7			360
1997 PM		1997 08 03.58559	20 38 37.59	−20 53 45.2		S	360
1997 PM		1997 08 03.59149	20 38 37.23	−20 53 45.9		S	360
(268)		1997 08 01.71198	22 30 11.23	−11 02 05.2	13.4	V	360
(268)		1997 08 01.71736	22 30 11.03	−11 02 06.6			360
(1943)		1997 07 24.64635	22 15 04.76	+17 57 43.5	15.9	V	360
(1943)		1997 07 24.64983	22 15 04.47	+17 57 44.5			360
(1980)		1997 07 23.56840	17 52 13.44	+42 01 25.1	14.4	V	360
(1980)		1997 07 23.57188	17 52 13.03	+42 01 31.2			360
(2489)		1997 07 24.61372	20 47 54.26	−20 41 26.3	15.7	V	360
(2489)		1997 07 24.61910	20 47 54.00	−20 41 27.4			360
(2489)		1997 07 24.63194	20 47 53.37	−20 41 30.0			360
(3504)		1997 08 01.71198	22 29 49.82	−10 58 54.1	16.0	V	360
(3504)		1997 08 01.71736	22 29 49.64	−10 58 55.5			360
(4485)		1997 07 24.61372	20 48 00.36	−20 37 51.1	16.5	V	360
(4485)		1997 07 24.61910	20 48 00.07	−20 37 51.4			360
(4485)		1997 07 24.63194	20 47 59.37	−20 37 52.1			360
(4485)		1997 07 30.56701	20 42 44.91	−20 42 28.8			360
(4485)		1997 07 30.58264	20 42 44.07	−20 42 29.4			360
(4485)		1997 07 30.61771	20 42 42.14	−20 42 30.8			360

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

1993 TE	1997 08 01.66632	00 26 58.89	+10 48 56.3	17.2	V	367
1993 TE	1997 08 01.67118	00 26 59.13	+10 48 56.7			367
1993 TE	1997 08 01.67612	00 26 59.38	+10 48 57.1			367
1993 TX	1997 08 01.65174	22 19 23.89	−34 14 16.6	16.2	V	367
1993 TX	1997 08 01.65521	22 19 23.73	−34 14 18.2			367
1993 TX	1997 08 01.65868	22 19 23.59	−34 14 19.9			367
1997 NR_{10}	1997 08 01.61910	19 52 07.50	−14 33 45.1	18.5	V	367
1997 NR_{10}	1997 08 01.62396	19 52 07.37	−14 33 47.0			367
1997 NR_{10}	1997 08 01.62882	19 52 07.12	−14 33 49.1			367

372 Geisei
T. Seki, Kamimachi 2-9-35, Kochi 780, Japan
0.60-m $f/3.5$ reflector

(2060)	1997 07 24.53090	13 39 18.73	−09 48 39.6		372

385 Nihondaira Observatory
T. Urata, 1-8, Dobayashi 1 Chome, Shimizu, Shizuoka-Ken, 424 Japan
0.31-m $f/4.7$ reflector + CCD
GSC, USNO-A1.0

1990 UC	1997 07 19.69352	23 22 42.05	+04 21 49.7	17.2	V	385
1990 UC	1997 07 19.69949	23 22 42.28	+04 21 50.2			385
1990 UC	1997 07 19.70229	23 22 42.35	+04 21 50.1			385
1991 BE	1997 07 19.68160	23 01 18.63	+20 33 14.8	18.2	V	385
1991 BE	1997 07 19.68529	23 01 18.48	+20 33 16.6			385
1992 LR	1997 07 19.71796	01 00 26.28	+14 53 53.7	18.1	V	385
1992 LR	1997 07 19.72037	01 00 26.74	+14 53 57.4			385
1992 LR	1997 07 19.72252	01 00 27.16	+14 53 58.7			385
1992 XB	1997 07 19.73715	01 39 13.57	+21 35 37.7	17.9	V	385
1992 XB	1997 07 19.74014	01 39 13.78	+21 35 40.3			385
1992 XB	1997 07 19.74307	01 39 13.94	+21 35 41.9			385
1993 EE	1997 08 08.53029	19 05 29.31	−20 30 35.8			385
1993 EE	1997 08 08.53382	19 05 29.12	−20 30 36.3			385
1994 SB	1997 07 19.65172	22 24 30.80	−05 52 19.9	16.5	V	385
1994 SB	1997 07 19.65765	22 24 30.65	−05 52 19.1			385
1994 SB	1997 07 19.66069	22 24 30.51	−05 52 20.2			385
1994 XY	1997 07 19.66915	22 54 02.89	−17 11 17.2			385
1994 XY	1997 07 19.67638	22 54 02.96	−17 11 20.6			385

402 Dynic Astronomical Observatory
A. Sugie, Dynic Astronomical Observatory, Taga 283-1, Taga, Inukami-Gun, Shiga-Ken 522-03, Japan [hhf00201@niftyserve.or.jp]
0.60-m $f/5.0$ reflector + CCD
GSC

1993 PE	1997 08 08.70420	01 23 37.30	+14 36 48.4	17.6	V	402
1993 PE	1997 08 08.70698	01 23 37.41	+14 36 49.3			402
1993 PE	1997 08 08.71823	01 23 37.79	+14 36 53.0			402
1993 TE	1997 08 08.69040	00 32 27.44	+11 02 40.6	17.1	V	402
1993 TE	1997 08 08.69457	00 32 27.59	+11 02 40.7			402
1993 TE	1997 08 08.71367	00 32 28.34	+11 02 42.0			402
1997 MD_{10}	1997 08 02.54446	17 42 44.67	−09 25 02.0	19.5	V	402
1997 MD_{10}	1997 08 02.54654	17 42 44.56	−09 24 57.9			402
1997 MD_{10}	1997 08 02.54862	17 42 44.27	−09 24 53.3			402
1997 MD_{10}	1997 08 02.55094	17 42 44.03	−09 24 49.6			402
1997 MD_{10}	1997 08 02.55302	17 42 43.82	−09 24 45.3			402
1997 NZ	1997 07 18.56402	19 10 00.59	−20 02 11.5	15.3	V	402
1997 NZ	1997 07 18.56540	19 10 00.51	−20 02 10.9			402
1997 NZ	1997 07 18.56679	19 10 00.42	−20 02 10.6			402
1997 NR_{10}	1997 07 18.57211	20 02 07.67	−12 57 11.3	17.9	V	402
1997 NR_{10}	1997 07 18.58311	20 02 07.18	−12 57 16.1			402
1997 NR_{10}	1997 07 18.62996	20 02 04.93	−12 57 33.2			402
1997 NR_{10}	1997 07 18.63413	20 02 04.73	−12 57 34.5			402
1997 NR_{10}	1997 07 19.62893	20 01 21.25	−13 03 43.1	18.4	V	402
1997 NR_{10}	1997 07 19.63102	20 01 21.17	−13 03 44.2			402
1997 NR_{10}	1997 07 19.63310	20 01 21.11	−13 03 45.0			402
1997 NR_{10}	1997 08 02.56339	19 51 31.75	−14 40 42.0	18.6	V	402
1997 NR_{10}	1997 08 02.56547	19 51 31.67	−14 40 43.0			402
1997 NR_{10}	1997 08 02.56756	19 51 31.59	−14 40 43.8			402

413 Siding Spring
C.-I. Lagerkvist, Uppsala Observatory, Box 515, S-75120 Uppsala, Sweden [classe@laban.uu.se] (3)
R. H. McNaught, Anglo-Australian Observatory, Coonabarabran, N.S.W. 2357, Australia [rmn@aaocbn1.aao.gov.au]
Observers K. S. Russell, G. J. Garradd
Measurers O. Hernius, R. H. McNaught
1.2-m U.K. Schmidt, 1.0-m reflector + CCD

1993 FX_{32}	1993 04 16.61791	12 42 44.42	+02 19 50.6	18.3		3	413
1993 FA_{34}	1993 04 16.61791	12 48 36.24	+02 39 04.4	19.0		3	413
1994 TU_2	1996 01 28.70986	10 34 10.27	+05 08 25.0	18.5	V		413
1994 TU_2	1996 01 28.71465	10 34 10.05	+05 08 26.3				413
1994 TU_2	1996 01 28.71939	10 34 09.83	+05 08 27.4	20	V	I	413
1994 TU_2	1996 01 28.72411	10 34 09.65	+05 08 28.3				413
1997 JP_{15}	1993 04 16.52653	11 55 45.46	+02 09 11.9	17.2		3	413
1997 JH_{16}	1993 04 17.43889	12 07 02.14	−02 29 13.1	18.5		3	413
9525 P-L	1993 04 18.43884	12 51 38.16	−01 41 03.3	18.5		3	413

422 Loomberah
G. J. Garradd, P.O. Box 157, Tamworth, NSW 2340, Australia [gjg@mpx.com.au]
0.25-m f/4.1 reflector + CCD
GSC

1994 LX	1997 08 10.77608	02 10 25.85	−53 52 05.5	17.0	R		422
1994 LX	1997 08 10.77728	02 10 26.10	−53 52 08.9	17.0	R		422
1994 LX	1997 08 10.77848	02 10 26.40	−53 52 12.4	17.0	R		422
1997 BR	1997 07 14.77060	02 16 46.73	+13 18 49.3	16.2	R		422
1997 BR	1997 07 14.77138	02 16 46.64	+13 18 36.9	16.3	R		422
1997 BR	1997 07 20.81184	02 11 27.20	−09 45 53.7				422
1997 BR	1997 07 20.81243	02 11 27.18	−09 46 00.7				422
1997 BR	1997 07 20.81302	02 11 27.13	−09 46 07.3				422
1997 BR	1997 07 28.80708	02 05 42.95	−29 33 55.0	16.7	R	E	422
1997 BR	1997 07 28.80782	02 05 42.93	−29 33 59.9	16.7	R	E	422
1997 BR	1997 07 28.80854	02 05 42.82	−29 34 05.0	16.6	R	E	422
1997 BR	1997 08 04.79308	01 59 07.60	−39 48 57.0	16.7	R		422
1997 BR	1997 08 04.79376	01 59 07.54	−39 49 00.2	16.8	R		422
1997 BR	1997 08 04.79445	01 59 07.48	−39 49 02.6	16.9	R		422
1997 MD_{10}	1997 07 14.45664	18 19 59.78	−20 07 38.0			F	422
1997 MD_{10}	1997 07 14.45794	18 19 59.61	−20 07 35.5			F	422
1997 NC_1	1997 07 14.42816	13 20 17.71	−25 05 05.6	16.9	R		422
1997 NC_1	1997 07 14.42900	13 20 17.77	−25 05 10.0	16.9	R		422
1997 NC_1	1997 07 14.42985	13 20 17.82	−25 05 14.5	17.0	R		422
1997 NC_1	1997 07 21.38651	13 28 43.21	−33 50 39.0	17.6	R		422
1997 NC_1	1997 07 21.38724	13 28 43.28	−33 50 41.7	17.4	R		422
1997 NC_1	1997 07 23.38982	13 31 09.48	−35 52 26.9	17.2	R		422
1997 NC_1	1997 07 23.39063	13 31 09.50	−35 52 29.6	17.4	R		422
1997 NC_1	1997 07 23.39142	13 31 09.56	−35 52 32.7	17.4	R		422
1997 NC_1	1997 07 24.46846	13 32 27.67	−36 53 34.2	17.7	R		422
1997 NC_1	1997 07 24.46942	13 32 27.72	−36 53 36.6	17.8	R		422
1997 NC_1	1997 07 24.47041	13 32 27.80	−36 53 40.1	17.7	R		422
1997 NC_1	1997 07 28.47574	13 37 27.15	−40 18 09.7	17.9	R		422
1997 NC_1	1997 07 28.47671	13 37 27.19	−40 18 12.0	18.1	R		422
1997 NC_1	1997 07 28.47767	13 37 27.25	−40 18 14.5	18.1	R		422
1997 NC_1	1997 07 31.4528	13 41 16.10	−42 30 35.3	17.3	R	T	422
1997 NC_1	1997 07 31.4539	13 41 16.18	−42 30 38.8	17.6	R	T	422
1997 PN	1997 08 03.37428	20 23 47.76	−20 04 02.7	18.4	R		422
1997 PN	1997 08 03.37618	20 23 47.40	−20 03 49.9	18.0	R	F	422
1997 PN	1997 08 05.45539	20 19 25.08	−16 51 18.8	18.6	R		422
1997 PN	1997 08 05.45651	20 19 24.87	−16 51 11.3	18.5	R	I	422
1997 PO	1997 08 03.39023	20 14 08.13	−10 35 35.7	17.6	R	I	422
1997 PO	1997 08 03.39176	20 14 08.18	−10 35 41.0	17.6	R		422
1997 PO	1997 08 07.72546	20 12 57.17	−12 52 55.3	18.0	R	b	422
1997 PO	1997 08 07.72859	20 12 57.15	−12 53 01.1	18.0	R	b	422
1997 PP	1997 08 05.46981	21 18 35.95	−27 36 26.8	18.0	R	I	422
1997 PP	1997 08 05.47153	21 18 35.89	−27 36 26.7	18.0	R	I	422
1997 PP	1997 08 05.47325	21 18 35.81	−27 36 26.5	18.0	R	I	422
(15)	1997 07 24.50319	17 11 28.17	−28 48 08.1	10.0	R		422
(15)	1997 07 24.50403	17 11 28.14	−28 48 07.7	10.0	R		422
(15)	1997 07 24.50491	17 11 28.12	−28 48 07.5	10.0	R		422
(46)	1997 07 24.47828	15 36 46.97	−16 19 43.6	13.3	R		422
(46)	1997 07 24.47907	15 36 46.99	−16 19 43.6	13.3	R		422
(46)	1997 08 05.49061	15 41 53.82	−16 47 33.1	14.4	R		422
(46)	1997 08 05.49142	15 41 53.86	−16 47 33.1	14.3	R		422
(46)	1997 08 05.49224	15 41 53.88	−16 47 33.1	14.0	R		422
(69)	1997 07 14.53490	22 04 41.69	−03 17 27.8	13.4	R		422
(69)	1997 07 14.53572	22 04 41.68	−03 17 28.0	13.4	R		422
(69)	1997 07 14.53653	22 04 41.65	−03 17 28.0	13.5	R		422
(69)	1997 07 24.53889	22 00 00.95	−03 40 25.6	13.1	R		422
(69)	1997 07 24.53975	22 00 00.93	−03 40 25.7	13.1	R		422
(69)	1997 07 24.54062	22 00 00.90	−03 40 25.8	13.1	R		422
(69)	1997 08 05.47901	21 52 38.01	−04 24 09.1	12.1	R		422
(69)	1997 08 05.47993	21 52 37.98	−04 24 09.4	12.3	R		422
(69)	1997 08 05.48083	21 52 37.93	−04 24 09.5	12.6	R		422
(69)	1997 08 10.74934	21 48 56.35	−04 48 18.6	12.6	R		422
(69)	1997 08 10.75012	21 48 56.32	−04 48 18.7	12.6	R		422
(69)	1997 08 10.75091	21 48 56.28	−04 48 19.0	12.6	R		422
(126)	1997 07 24.52984	18 20 56.62	−28 17 09.3	12.0	R		422
(126)	1997 07 24.53067	18 20 56.59	−28 17 09.4	12.0	R		422
(126)	1997 07 24.53149	18 20 56.54	−28 17 09.3	12.1	R		422
(126)	1997 08 09.68615	18 12 52.26	−28 00 35.0	12.8	R		422
(126)	1997 08 09.68768	18 12 52.27	−28 00 34.8	12.9	R		422
(126)	1997 08 09.68824	18 12 52.24	−28 00 34.5	12.8	R		422
(132)	1997 08 07.76448	23 27 26.56	+30 53 47.0	14.7	R		422
(132)	1997 08 07.76535	23 27 26.53	+30 53 47.2	14.8	R		422
(132)	1997 08 07.76620	23 27 26.51	+30 53 47.5	14.8	R		422
(132)	1997 08 10.73138	23 25 46.02	+31 05 43.0	14.5	R		422
(132)	1997 08 10.73202	23 25 46.01	+31 05 43.3	14.5	R		422
(132)	1997 08 10.73264	23 25 45.98	+31 05 43.3	14.5	R		422
(170)	1997 07 14.49175	20 57 29.10	−15 51 18.5	13.8	R		422
(170)	1997 07 14.49282	20 57 29.04	−15 51 18.3	13.8	R		422
(170)	1997 07 14.49365	20 57 28.99	−15 51 18.4	13.9	R		422
(170)	1997 08 07.73493	20 32 42.72	−15 17 53.0	13.5	R		422
(170)	1997 08 07.73576	20 32 42.68	−15 17 53.0	13.4	R		422
(170)	1997 08 07.73660	20 32 42.61	−15 17 52.8	13.4	R		422
(180)	1997 08 07.77854	23 13 59.17	−04 22 54.0	15.5	R		422

(180)	1997 08 07.77932	23 13 59.13	−04 22 54.0	15.5	R		422
(180)	1997 08 07.78008	23 13 59.10	−04 22 54.1	15.7	R		422
(180)	1997 08 10.75798	23 12 20.46	−04 32 19.9	15.6	R		422
(180)	1997 08 10.75890	23 12 20.45	−04 32 19.8	15.3	R		422
(180)	1997 08 10.75980	23 12 20.41	−04 32 20.1	15.5	R		422
(183)	1997 07 14.48284	18 09 24.95	+03 22 43.6	14.9	R		422
(183)	1997 07 14.48370	18 09 24.91	+03 22 43.5	15.0	R		422
(183)	1997 07 14.48455	18 09 24.86	+03 22 43.0	14.9	R		422
(183)	1997 07 24.51328	18 01 50.45	+02 04 01.7	15.3	R		422
(183)	1997 07 24.51412	18 01 50.40	+02 04 01.2	15.1	R		422
(183)	1997 07 24.51497	18 01 50.36	+02 04 00.9	15.2	R		422
(183)	1997 08 05.49968	17 54 58.96	+00 13 27.2	15.9	R		422
(183)	1997 08 05.50056	17 54 58.93	+00 13 26.8	15.6	R		422
(183)	1997 08 05.50141	17 54 58.90	+00 13 26.0	15.9	R		422
(313)	1997 07 14.52845	22 10 53.55	−00 33 38.8	14.0	R		422
(313)	1997 07 14.52920	22 10 53.53	−00 33 39.0	14.0	R		422
(313)	1997 07 31.4648	22 01 16.07	−01 37 08.1	13.5	R	T	422
(313)	1997 07 31.4658	22 01 16.00	−01 37 08.1	13.6	R	T	422
(313)	1997 07 31.4667	22 01 15.97	−01 37 08.4	13.6	R	T	422
(313)	1997 08 05.48424	21 57 27.15	−02 06 09.6	13.9	R		422
(313)	1997 08 05.48506	21 57 27.11	−02 06 10.1	13.9	R		422
(313)	1997 08 05.48589	21 57 27.08	−02 06 09.7	14.0	R		422
(313)	1997 08 10.74110	21 53 08.03	−02 40 54.0	13.5	R		422
(313)	1997 08 10.74245	21 53 07.94	−02 40 54.7	13.7	R		422
(347)	1997 08 09.76705	01 23 24.67	−07 12 34.0	14.4	R		422
(347)	1997 08 09.76949	01 23 24.67	−07 12 34.3	14.4	R		422
(347)	1997 08 09.77063	01 23 24.68	−07 12 34.6	14.4	R		422
(351)	1997 07 20.80352	00 42 13.63	−06 42 29.4				422
(351)	1997 07 20.80421	00 42 13.65	−06 42 29.6				422
(351)	1997 07 20.80491	00 42 13.65	−06 42 30.0				422
(351)	1997 08 07.78674	00 45 12.23	−07 39 49.1	15.1	R		422
(351)	1997 08 07.78741	00 45 12.23	−07 39 49.2	15.1	R		422
(351)	1997 08 07.78807	00 45 12.22	−07 39 49.5	15.0	R		422
(714)	1997 08 07.75444	22 50 31.26	+15 24 05.0	12.8	R		422
(714)	1997 08 07.75528	22 50 31.23	+15 24 05.2	13.0	R		422
(714)	1997 08 07.75612	22 50 31.21	+15 24 05.3	13.0	R		422
(714)	1997 08 10.76336	22 48 41.55	+15 24 58.0	12.6	R		422
(714)	1997 08 10.76415	22 48 41.51	+15 24 58.2	12.5	R		422
(714)	1997 08 10.76494	22 48 41.50	+15 24 57.9	12.5	R		422
(778)	1997 08 07.77278	23 03 15.98	−00 46 30.9	15.8	R		422
(778)	1997 08 07.77366	23 03 15.96	−00 46 31.1	15.7	R		422
(778)	1997 08 07.77451	23 03 15.92	−00 46 31.0	15.6	R		422
(778)	1997 08 09.74457	23 02 04.99	−00 45 58.0	15.7	R		422
(778)	1997 08 09.74542	23 02 04.97	−00 45 58.0	15.6	R		422
(778)	1997 08 09.74605	23 02 04.95	−00 45 57.8	15.7	R		422
(1508)	1997 08 09.70131	21 48 43.10	−50 13 49.1	18.4	R		422
(1508)	1997 08 09.70368	21 48 42.89	−50 13 49.8	18.2	R		422
(1508)	1997 08 09.70560	21 48 42.74	−50 13 49.8	18.1	R		422
(2938)	1997 08 10.76989	01 27 04.03	−48 34 11.1	14.9	R		422
(2938)	1997 08 10.77096	01 27 04.15	−48 34 11.9	15.5	R		422
(2938)	1997 08 10.77204	01 27 04.24	−48 34 13.3	15.5	R		422
(3671)	1997 07 14.40289	09 37 03.66	−54 17 03.4	14.7	R		422
(3671)	1997 07 14.40379	09 37 02.94	−54 17 09.1	14.7	R		422
(3671)	1997 07 14.40441	09 37 02.45	−54 17 12.9	14.9	R		422
(3671)	1997 07 21.36277	07 50 07.79	−63 09 00.3	15.4	R		422
(3671)	1997 07 21.36340	07 50 07.14	−63 09 01.9	15.6	R		422
(3671)	1997 07 21.36401	07 50 06.55	−63 09 02.8	15.3	R		422
(3671)	1997 08 05.78734	04 33 36.58	−62 30 09.3	15.9	R	I	422
(3671)	1997 08 05.78968	04 33 35.43	−62 30 06.3	15.9	R		422
(3671)	1997 08 05.79064	04 33 34.94	−62 30 05.3	15.8	R		422
(3753)	1997 08 04.80635	03 03 41.70	−05 17 12.7	17.9	R		422
(3753)	1997 08 04.80887	03 03 41.97	−05 17 13.5			F	422
(3753)	1997 08 05.77876	03 05 37.05	−05 27 09.6	18.0	R		422
(3753)	1997 08 05.78027	03 05 37.18	−05 27 10.6	17.9	R		422
(3840)	1997 08 09.78732	02 07 07.38	+10 02 21.5	17.7	R	I	422
(3840)	1997 08 09.78909	02 07 07.39	+10 02 22.2	17.5	R		422
(3840)	1997 08 09.79033	02 07 07.41	+10 02 22.5	17.8	R		422
(5349)	1997 08 09.75917	23 22 43.02	−30 25 24.2	17.8	R	E	422
(5349)	1997 08 09.76103	23 22 42.95	−30 25 24.8	17.8	R	E	422
(5349)	1997 08 09.76198	23 22 42.84	−30 25 25.5	17.9	R	E	422

423 North Ryde

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

1988 JW	1997 07 24.55106	20 22 31.82	−25 29 31.1	16.5	V		423
1988 JW	1997 07 24.56779	20 22 30.82	−25 29 43.1	16.9	V		423
1988 JW	1997 07 27.49556	20 19 56.96	−26 04 29.7	16.3	V		423
1988 JW	1997 07 27.54563	20 19 54.16	−26 05 04.8	16.5	V		423
1988 JW	1997 07 27.55152	20 19 53.87	−26 05 08.6	16.3	V		423
1988 JW	1997 07 27.55715	20 19 53.53	−26 05 12.6	16.4	V		423
1988 JW	1997 07 27.59089	20 19 51.64	−26 05 36.1	16.1	V		423
1988 JW	1997 07 27.61682	20 19 50.25	−26 05 54.5	16.3	V		423
1990 TU_8	1997 07 14.51539	20 02 31.88	−25 19 44.7	16.8	V		423
1990 TU_8	1997 07 14.59831	20 02 27.07	−25 19 58.5	16.1	V		423
1990 TU_8	1997 07 14.60882	20 02 26.54	−25 19 59.9	16.3	V		423
1990 TU_8	1997 07 14.64583	20 02 24.45	−25 20 04.9	16.3	V		423
1993 TX	1997 07 28.55281	22 21 44.28	−33 42 16.9	16.3	V		423
1993 TX	1997 07 28.55933	22 21 44.12	−33 42 20.1	16.3	V		423
1993 TX	1997 07 28.57375	22 21 43.60	−33 42 27.2	16.1	V		423
1993 TX	1997 07 28.65266	22 21 40.99	−33 43 05.6	15.8	V		423
1993 TX	1997 07 30.52227	22 20 41.16	−33 57 48.6	16.0	V		423
1993 TX	1997 07 30.53613	22 20 40.69	−33 57 55.2	16.4	V		423
1993 TX	1997 07 30.55124	22 20 40.15	−33 58 02.3	16.2	V		423
1993 TX	1997 07 30.56530	22 20 39.64	−33 58 08.7	16.0	V		423
1993 TX	1997 07 30.60347	22 20 38.17	−33 58 27.1	16.1	V		423
1993 TX	1997 08 07.53847	22 15 07.53	−34 55 40.5	16.0	V		423
1993 TX	1997 08 07.55799	22 15 06.47	−34 55 47.9	16.1	V		423
1993 TX	1997 08 07.57115	22 15 05.79	−34 55 53.0	15.8	V		423
1993 TX	1997 08 07.63466	22 15 02.50	−34 56 18.3	16.0	V		423
1993 TX	1997 08 07.64024	22 15 02.19	−34 56 20.2	16.0	V		423
1993 TX	1997 08 07.66417	22 15 00.99	−34 56 29.3	15.9	V		423
1993 TX	1997 08 09.54808	22 13 26.95	−35 08 15.1	16.0	V		423
1993 TX	1997 08 09.56791	22 13 25.88	−35 08 22.5	15.9	V		423

1993 TX		1997 08 09.59249	22 13 24.54	−35 08 31.7	16.3	V	423
1993 TX		1997 08 09.61551	22 13 23.28	−35 08 39.8	15.9	V	423
1993 TX		1997 08 09.64876	22 13 21.43	−35 08 51.7	16.2	V	423
1993 TX		1997 08 09.66563	22 13 20.51	−35 08 58.0	16.1	V	423
1993 TX		1997 08 09.68488	22 13 19.43	−35 09 04.5	16.0	V	423

426 Woomera
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0.30-m f/3.3 Schmidt-Cassegrain + CCD
GSC

1997 OG_1	*	1997 07 27.43166	20 01 01.58	−19 58 05.7	18.0	R	426
1997 OG_1		1997 07 27.44910	20 01 00.02	−19 57 52.5	18.1	R	426
1997 OG_1		1997 07 27.46919	20 00 58.18	−19 57 36.3	17.8	R	426
1997 OG_1		1997 07 29.42232	19 58 09.87	−19 32 11.1	18.3	R	426
1997 OG_1		1997 07 29.46087	19 58 06.49	−19 31 41.7	18.3	R	426
1997 OG_1		1997 08 01.41008	19 54 04.00	−18 53 51.2	18.8	R	426
1997 OG_1		1997 08 01.43014	19 54 02.41	−18 53 35.9	19.2	R	426
1997 OG_1		1997 08 01.44865	19 54 00.83	−18 53 22.1	18.8	R	426
1997 OG_1		1997 08 04.42226	19 50 12.91	−18 16 03.7	18.0	R	426
1997 OG_1		1997 08 04.43932	19 50 11.66	−18 15 52.1	18.0	R	426
1997 OG_1		1997 08 04.45684	19 50 10.19	−18 15 38.3	18.2	R	426
1997 PQ	*	1997 08 01.41914	19 52 41.25	−20 25 39.3	18.4	R	426
1997 PQ		1997 08 01.45733	19 52 38.89	−20 25 51.8	18.2	R	426
1997 PQ		1997 08 04.43095	19 49 44.27	−20 40 54.5	18.6	R	426
1997 PQ		1997 08 04.46543	19 49 42.31	−20 41 05.2	18.3	R	426
1997 PR	*	1997 08 01.54507	22 34 17.36	−08 05 07.5	16.9	R	426
1997 PR		1997 08 01.56336	22 34 16.50	−08 05 03.6	17.8	R	426
1997 PR		1997 08 04.52521	22 32 01.74	−07 54 48.7	17.2	R	426
1997 PR		1997 08 04.54282	22 32 00.84	−07 54 45.1	17.3	R	426
1997 PR		1997 08 04.56098	22 31 59.96	−07 54 41.4	17.2	R	426
(1094)		1997 08 01.54507	22 33 46.66	−08 11 06.1	16.1	R	426
(1094)		1997 08 01.56336	22 33 46.05	−08 11 14.7	16.5	R	426
(1094)		1997 08 04.50900	22 32 06.36	−08 35 10.3	16.3	R	426
(1094)		1997 08 04.53433	22 32 05.46	−08 35 23.0	16.3	R	426
(1094)		1997 08 04.55171	22 32 04.81	−08 35 31.8	16.2	R	426
(2377)		1997 07 26.45181	20 02 10.33	−19 32 20.4	17.3	R	426
(2377)		1997 07 26.47420	20 02 09.13	−19 32 23.5	17.2	R	426
(2377)		1997 07 27.42309	20 01 20.17	−19 34 34.4	17.4	R	426
(2377)		1997 07 27.44085	20 01 19.22	−19 34 37.0	17.5	R	426
(2377)		1997 07 27.46102	20 01 18.18	−19 34 39.9	17.6	R	426
(2377)		1997 07 29.42664	19 59 37.25	−19 39 06.4	17.4	R	426
(2377)		1997 07 29.44432	19 59 36.36	−19 39 08.9	17.5	R	426
(2377)		1997 07 29.46507	19 59 35.28	−19 39 12.0	17.5	R	426
(2528)		1997 07 26.46141	20 02 01.48	−19 55 31.4	16.6	R	426
(2528)		1997 07 26.50517	20 01 59.27	−19 55 38.5	16.9	R	426
(2528)		1997 07 27.43166	20 01 13.91	−19 57 59.7	16.3	R	426
(2528)		1997 07 27.44910	20 01 13.03	−19 58 02.4	16.6	R	426
(2528)		1997 07 27.46919	20 01 12.02	−19 58 05.9	17.0	R	426
(3298)		1997 07 26.44679	20 00 38.40	−19 05 03.8	16.5	R	426
(3298)		1997 07 26.46950	20 00 37.03	−19 05 05.0	16.4	R	426
(3298)		1997 07 27.41832	19 59 42.36	−19 05 44.0	16.3	R	426
(3298)		1997 07 27.45567	19 59 40.16	−19 05 46.3	16.4	R	426
(4193)		1997 07 26.50517	20 02 33.09	−20 04 17.0	17.3	R	426
(4193)		1997 07 27.43166	20 01 47.30	−20 07 05.4	17.0	R	426
(4193)		1997 07 27.44910	20 01 46.45	−20 07 08.9	16.9	R	426
(4193)		1997 07 27.46919	20 01 45.45	−20 07 12.4	17.0	R	426
(6851)		1997 08 01.41914	19 52 06.35	−20 25 16.6	18.7	R	426
(6851)		1997 08 01.43853	19 52 05.16	−20 25 22.8	18.5	R	426
(6851)		1997 08 01.45733	19 52 03.96	−20 25 28.2	18.4	R	426
(6851)		1997 08 04.43095	19 49 04.88	−20 38 52.3	18.2	R	426
(6851)		1997 08 04.46543	19 49 02.80	−20 39 02.3	18.4	R	426

471 Houstrup
H. Achterberg, Liegnitzer Str. 12, D-22850 Norderstedt, Germany
0.20-m f/10 Schmidt-Cassegrain + CCD
GSC

1993 JL		1997 04 11.97563	13 43 57.31	+12 59 57.5	16.1	R	471
1993 JL		1997 04 11.98269	13 43 56.88	+12 59 58.2	16.0	R	471
1993 JL		1997 04 11.98951	13 43 56.50	+12 59 58.9	16.1	R	471
1993 JL		1997 04 11.99549	13 43 56.13	+12 59 59.6	16.1	R	471
1993 JL		1997 04 12.00243	13 43 55.71	+13 00 00.5	16.2	R	471
1993 JL		1997 04 12.01007	13 43 55.26	+13 00 00.8	16.0	R	471
1993 JL		1997 04 12.01486	13 43 54.97	+13 00 01.8	16.1	R	471
(5262)		1997 04 06.98237	13 22 19.20	+18 37 37.1	14.4	R	471
(5262)		1997 04 06.98748	13 22 18.95	+18 37 37.9	14.5	R	471
(5262)		1997 04 06.99300	13 22 18.67	+18 37 38.8	14.4	R	471
(5262)		1997 04 06.99975	13 22 18.33	+18 37 40.0	14.5	R	471
(5262)		1997 04 07.00799	13 22 17.91	+18 37 41.2	14.5	R	471
(5392)		1997 04 16.91399	14 33 45.16	+10 45 59.8	14.0	R	471
(5392)		1997 04 16.91701	14 33 44.86	+10 45 57.3	13.9	R	471
(5392)		1997 04 16.92049	14 33 44.52	+10 45 54.1	14.0	R	471
(5392)		1997 04 16.92743	14 33 43.83	+10 45 47.9	14.0	R	471
(5392)		1997 04 16.93438	14 33 43.14	+10 45 41.4	14.0	R	471
(5392)		1997 04 16.93646	14 33 42.94	+10 45 39.8	14.0	R	471
(5392)		1997 04 16.94340	14 33 42.26	+10 45 33.5	14.1	R	471
(5392)		1997 04 16.94687	14 33 41.92	+10 45 30.3	14.0	R	471
(5392)		1997 04 16.95243	14 33 41.38	+10 45 25.2	14.0	R	471

476 Grange Observatory
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0.30-m f/4.0 reflector + CCD
GSC

1992 PD_2		1997 07 07.92639	19 17 46.50	−10 06 12.7			476

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, Tycho

1976 GL_8		1997 07 22.91771	19 13 11.62	−18 03 42.6	15.5	R	540
1976 GL_8		1997 07 22.92189	19 13 11.40	−18 03 41.9			540
1976 GL_8		1997 07 22.92536	19 13 11.25	−18 03 41.3			540
1976 GL_8		1997 07 30.91111	19 06 56.42	−17 51 13.0	15.9	R I	540

1976 GL_8	1997 07 30.91385	19 06 56.30	−17 51 13.2		I	540
1976 GL_8	1997 07 30.92057	19 06 55.96	−17 51 12.7			540
1978 PW_3	1997 07 22.88501	17 25 51.92	−12 50 13.7	17.5 R		540
1978 PW_3	1997 07 22.88885	17 25 51.89	−12 50 14.9			540
1978 PW_3	1997 07 22.89923	17 25 51.68	−12 50 17.7			540
1981 DE	1997 08 06.85687	19 21 06.55	−14 47 13.1	17.1 R		540
1981 DE	1997 08 06.86009	19 21 06.39	−14 47 13.0			540
1981 DE	1997 08 06.86318	19 21 06.31	−14 47 12.5			540
1981 DE	1997 08 06.88773	19 21 05.04	−14 47 16.1			540
1981 DE	1997 08 07.87390	19 20 20.81	−14 48 57.7	17.3 R		540
1981 DE	1997 08 07.88062	19 20 20.41	−14 48 58.2		I	540
1981 DE	1997 08 07.88766	19 20 20.17	−14 49 00.3			540
1992 QE_2	1997 07 22.93530	19 50 45.71	−00 16 50.6	16.5 R		540
1992 QE_2	1997 07 22.93871	19 50 45.59	−00 16 51.5			540
1992 QE_2	1997 07 22.94183	19 50 45.40	−00 16 52.9			540
1992 QE_2	1997 07 30.94132	19 44 50.76	−01 04 32.6	17.4 R		540
1992 QE_2	1997 07 30.94443	19 44 50.62	−01 04 34.0			540
1992 QE_2	1997 07 30.94758	19 44 50.46	−01 04 35.1			540
1994 YE_1	1997 08 06.87147	19 34 46.59	−14 48 06.7	16.6 R		540
1994 YE_1	1997 08 06.87728	19 34 46.27	−14 48 06.5			540
1994 YE_1	1997 08 06.88024	19 34 46.14	−14 48 06.1			540
1994 YE_1	1997 08 07.86760	19 33 56.37	−14 46 50.8	16.7 R		540
1994 YE_1	1997 08 07.89920	19 33 54.77	−14 46 49.0			540
1997 PO	1997 08 07.90833	20 12 55.35	−12 58 56.7	17.7 R		540
1997 PO	1997 08 07.91278	20 12 55.26	−12 59 05.3			540

552 San Vittore

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Observers C. Vacchi, G. Sassi, E. Colombini, R. Di Luca
0.45-m $f/3.3$ reflector + CCD
GSC

1979 ML_1	1997 07 30.87609	20 02 48.78	−14 24 19.3	17.5 V		552
1979 ML_1	1997 07 30.92084	20 02 46.03	−14 24 18.6			552
1980 RC	1980 09 03.92292	22 35 37.01	−04 27 28.5			552
1980 RC	1980 09 04.90903	22 34 50.28	−04 39 59.0	17.0 V		552
1980 RC	1980 09 04.92500	22 34 49.50	−04 40 12.6			552
1980 RC	1980 09 10.86944	22 30 14.26	−05 56 47.0			552
1980 RC	1980 09 10.89861	22 30 12.97	−05 57 10.3			552
1980 RC	1980 09 12.91042	22 28 44.02	−06 23 04.7	17.5 V		552
1980 RC	1980 09 12.92708	22 28 43.10	−06 23 19.2			552
1997 ON	1997 08 02.84361	20 09 28.88	−14 28 37.7	17.3 V		552
1997 ON	1997 08 02.86889	20 09 27.34	−14 28 41.3			552
1997 ON	1997 08 02.88181	20 09 26.62	−14 28 44.5	17.3 V		552
1997 ON	1997 08 02.89391	20 09 25.86	−14 28 46.6			552
1997 ON	1997 08 03.88600	20 08 28.53	−14 31 43.1	17.5 V		552
1997 ON	1997 08 03.91020	20 08 27.07	−14 31 47.0			552
1997 ON	1997 08 03.95329	20 08 24.48	−14 31 55.3			552
1997 ON	1997 08 04.85397	20 07 33.26	−14 34 36.5	17.2 V		552
1997 ON	1997 08 04.88480	20 07 31.29	−14 34 40.3			552
1997 ON	1997 08 04.91190	20 07 29.85	−14 34 46.9			552
1997 ON	1997 08 08.85883	20 03 53.47	−14 46 45.4	17.1 V		552
1997 ON	1997 08 08.87426	20 03 52.54	−14 46 48.5			552
1997 OU_1	* 1997 07 30.89123	20 07 28.59	−14 22 53.3	18.4 V		552
1997 OU_1	1997 07 30.93475	20 07 25.74	−14 22 53.0			552
1997 OU_1	1997 08 02.82971	20 04 27.04	−14 22 41.9	18.4 V		552
1997 OU_1	1997 08 02.84981	20 04 25.85	−14 22 40.6			552
1997 OU_1	1997 08 03.86948	20 03 24.46	−14 22 40.3	18.8 V		552
1997 OU_1	1997 08 03.89903	20 03 22.58	−14 22 40.4			552
1997 OU_1	1997 08 03.96980	20 03 18.20	−14 22 40.9			552
1997 OU_1	1997 08 04.83927	20 02 26.99	−14 22 42.6	19.0 V		552
1997 OU_1	1997 08 04.86779	20 02 25.23	−14 22 42.0			552
1997 OU_1	1997 08 04.90330	20 02 23.09	−14 22 42.8			552
1997 OU_1	1997 08 08.84992	19 58 40.44	−14 22 55.4	19.1 V		552
1997 OU_1	1997 08 08.86578	19 58 39.59	−14 22 55.2			552
1997 OU_1	1997 08 08.88479	19 58 38.42	−14 22 56.0			552

557 Ondřejov

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Observers P. Pravec, L. Šarounová, M. Wolf
0.65-m $f/3.6$ reflector + CCD
GSC, USNO-SA1.0

1975 SJ_1	1997 07 30.94185	22 04 48.89	+04 54 41.8			557
1975 SJ_1	1997 07 30.94792	22 04 48.69	+04 54 40.8	17.5 V		557
1975 SJ_1	1997 08 02.89433	22 03 06.31	+04 45 36.8			557
1975 SJ_1	1997 08 02.90679	22 03 05.87	+04 45 34.5			557
1975 SJ_1	1997 08 02.91010	22 03 05.73	+04 45 33.4	17.8 V		557
1979 MA_6	1997 08 06.05130	00 18 18.36	−02 22 53.9	18.7 V		557
1979 MA_6	1997 08 06.07319	00 18 18.36	−02 22 58.7			557
1979 MA_6	1997 08 08.07571	00 18 17.24	−02 30 55.0			557
1979 MA_6	1997 08 08.08951	00 18 17.27	−02 30 58.7	18.8 V		557
1981 EN	1997 08 07.98435	00 07 32.63	+00 15 02.7	19.1 V		557
1981 EN	1997 08 08.00166	00 07 32.36	+00 14 58.2			557
1981 EN	1997 08 09.95995	00 07 04.71	+00 05 34.4			557
1981 EN	1997 08 09.97970	00 07 04.40	+00 05 28.6	18.7 V		557
1981 GO_1	1997 08 06.01102	23 46 13.14	−03 35 59.0	19.1 V		557
1981 GO_1	1997 08 06.02822	23 46 12.72	−03 36 01.3			557
1981 GO_1	1997 08 08.07863	23 45 20.86	−03 41 15.4	19.3 V		557
1981 GO_1	1997 08 08.09238	23 45 20.41	−03 41 17.6		S	557
1983 CO_3	1997 08 09.90181	00 41 03.48	+22 47 48.5	18.9 V		557
1983 CO_3	1997 08 09.93538	00 41 03.18	+22 47 57.9			557
1984 UT	1997 08 04.91619	19 37 44.70	+00 47 16.2	17.9 V		557
1984 UT	1997 08 04.91999	19 37 44.53	+00 47 15.7			557
1984 UT	1997 08 05.93465	19 36 57.74	+00 44 23.6			557
1984 UT	1997 08 05.94626	19 36 57.19	+00 44 21.5			557
1987 QN	1997 08 07.85830	16 36 37.32	−00 56 24.3	18.3 V		557
1987 QN	1997 08 07.87240	16 36 37.26	−00 56 27.5		S	557
1987 QN	1997 08 09.85465	16 36 38.46	−01 04 55.7			557
1987 QN	1997 08 09.86839	16 36 38.49	−01 04 59.9	18.2 V		557
1988 EB_1	1997 08 11.01066	00 51 42.27	+01 37 00.1	19.2 V		557
1988 EB_1	1997 08 11.06823	00 51 41.92	+01 36 56.4			557
1989 GP_4	1997 08 01.94659	23 23 09.59	+04 16 09.1			557
1989 GP_4	1997 08 01.94958	23 23 09.53	+04 16 08.9			557
1989 GP_4	1997 08 01.96181	23 23 09.28	+04 16 08.2	18.2 V		557
1989 GP_4	1997 08 02.96137	23 22 51.84	+04 14 40.2			557

1989 GP_4	1997 08 02.96566	23 22 51.76	+04 14 39.9	18.0	V		557	1997 LY_4	1997 07 22.92453	19 38 15.46	+04 28 39.5				557
1989 SG_1	1997 08 04.95410	23 54 41.90	−00 05 28.8				557	1997 LY_4	1997 07 22.98397	19 38 14.05	+04 29 37.2				557
1989 SG_1	1997 08 04.98508	23 54 41.47	−00 05 35.3				557	1997 LY_4	1997 07 23.02696	19 38 13.06	+04 30 18.6				557
1989 SG_1	1997 08 08.05662	23 53 55.92	−00 17 14.5				557	1997 LY_4	1997 07 28.84014	19 36 57.90	+05 51 20.9				557
1989 SG_1	1997 08 08.07280	23 53 55.60	−00 17 17.8	19.3	V		557	1997 LY_4	1997 07 28.87427	19 36 57.36	+05 51 45.2				557
1989 WG_7	1997 08 11.00406	00 51 03.25	+07 35 29.2	19.0	V		557	1997 LY_4	1997 07 28.87697	19 36 57.31	+05 51 47.1				557
1989 WG_7	1997 08 11.06125	00 51 03.39	+07 35 32.4				557	1997 LY_4	1997 07 29.86875	19 36 48.79	+06 03 01.5				557
1990 TW_7	1997 08 10.05767	23 54 32.40	−10 04 05.8	18.4	V		557	1997 LY_4	1997 07 29.87145	19 36 48.75	+06 03 03.3				557
1990 TW_7	1997 08 10.07753	23 54 32.10	−10 04 09.4				557	1997 LY_4	1997 08 01.89093	19 36 32.63	+06 32 42.7				557
1992 BE_2	1997 08 11.00625	00 22 21.23	+06 12 02.0	18.8	V		557	1997 LY_4	1997 08 01.90420	19 36 32.50	+06 32 49.4				557
1992 BE_2	1997 08 11.06351	00 22 21.07	+06 11 58.1				557	1997 LY_4	1997 08 01.91234	19 36 32.42	+06 32 53.8				557
1992 DC_{11}	1997 08 03.05895	23 27 26.80	−03 49 25.8	19.8	V		557	1997 LY_4	1997 08 02.86792	19 36 31.23	+06 40 51.2				557
1992 DC_{11}	1997 08 03.06824	23 27 26.68	−03 49 28.5				557	1997 LY_4	1997 08 02.98178	19 36 30.38	+06 41 45.5				557
1992 DC_{11}	1997 08 04.02561	23 27 07.76	−03 52 52.2	19.6	V		557	1997 LY_4	1997 08 02.98449	19 36 30.36	+06 41 46.7				557
1992 DC_{11}	1997 08 04.02897	23 27 07.66	−03 52 53.4				557	1997 LY_4	1997 08 02.98994	19 36 30.33	+06 41 49.3				557
1992 DC_{11}	1997 08 04.03553	23 27 07.56	−03 52 54.8				557	1997 MW_1	1997 07 29.88351	17 00 12.75	+03 12 40.4	18.6	V		557
1992 DC_{11}	1997 08 04.03846	23 27 07.48	−03 52 55.2				557	1997 MW_1	1997 08 05.86538	16 54 33.11	+03 13 54.3	19.6	V		557
1992 FW_1	1997 08 01.92270	20 22 28.04	+12 02 41.2	19.5	V		557	1997 MW_1	1997 08 10.90421	16 52 50.70	+03 04 28.5				557
1992 FW_1	1997 08 01.92539	20 22 27.91	+12 02 39.6				557	1997 MW_1	1997 08 10.90736	16 52 50.69	+03 04 28.2	19.0	V		557
1992 FW_1	1997 08 02.89733	20 21 34.15	+11 56 37.4				557	1997 MD_{10}	1997 08 03.88966	17 40 40.26	−08 41 21.2	18.6	V		557
1992 FW_1	1997 08 02.90044	20 21 33.98	+11 56 35.9	19.3	V		557	1997 MD_{10}	1997 08 09.85913	17 32 32.20	−05 34 31.8				557
1993 WE	1997 08 11.00845	00 43 22.58	+06 41 52.9	19.3	V		557	1997 OH	1997 07 28.01206	20 05 33.13	−13 32 36.9				557
1993 WE	1997 08 11.06586	00 43 22.19	+06 41 54.0				557	1997 OH	1997 07 28.01514	20 05 32.95	−13 32 29.4				557
1995 EL_1	1997 08 04.06483	02 24 11.83	+12 14 01.1				557	1997 OH	1997 07 28.01809	20 05 32.72	−13 32 21.8	18.8	V		557
1995 EL_1	1997 08 04.07043	02 24 12.05	+12 14 02.0	19.3	V		557	1997 PN	1997 08 02.95191	20 24 41.80	−20 44 24.5				557
1995 EL_1	1997 08 04.07310	02 24 12.16	+12 14 02.5				557	1997 PN	1997 08 02.95356	20 24 41.56	−20 44 15.6				557
1995 EL_1	1997 08 05.06954	02 24 50.01	+12 15 42.4				557	1997 PN	1997 08 02.95521	20 24 41.35	−20 44 06.7				557
1995 EL_1	1997 08 05.07545	02 24 50.21	+12 15 42.6	19.1	V		557	1997 PN	1997 08 02.95685	20 24 41.14	−20 43 56.8				557
1995 SN	1995 10 21.99058	01 09 46.01	+08 00 04.5				557	1997 PN	1997 08 02.95848	20 24 40.87	−20 43 47.6	17.7	V		557
1995 SN	1995 10 22.00477	01 09 45.30	+08 00 00.0				557	1997 PN	1997 08 03.92631	20 22 34.32	−19 13 03.9				557
1996 DA	1997 08 08.01899	00 35 33.79	−01 09 54.9	18.2	V		557	1997 PN	1997 08 03.93118	20 22 33.66	−19 12 36.7				557
1996 DA	1997 08 08.03906	00 35 33.73	−01 09 58.2				557	1997 PN	1997 08 03.93280	20 22 33.47	−19 12 28.1	18.2	V		557
1996 DA	1997 08 11.00087	00 35 20.99	−01 18 04.3				557	1997 PN	1997 08 07.90265	20 14 45.80	−13 13 28.3				557
1996 DA	1997 08 11.01285	00 35 20.89	−01 18 06.2	18.2	V		557	1997 PN	1997 08 07.90431	20 14 45.60	−13 13 20.4				557
1996 HR	1997 08 02.97198	20 52 55.39	−24 44 21.6				557	1997 PN	1997 08 07.90596	20 14 45.42	−13 13 11.0	18.3	V		557
1996 HR	1997 08 02.99708	20 52 53.97	−24 44 28.8				557	1997 PN	1997 08 09.88260	20 11 24.31	−10 25 10.2				557
1996 HR	1997 08 03.00194	20 52 53.70	−24 44 30.4	18.2	V		557	1997 PN	1997 08 09.88422	20 11 24.16	−10 25 02.7	18.2	V		557
1996 HR	1997 08 03.95403	20 52 02.08	−24 49 03.3				557	1997 PN	1997 08 10.85269	20 09 53.36	−09 05 51.5				557
1996 HR	1997 08 03.95708	20 52 01.94	−24 49 04.6				557	1997 PN	1997 08 10.85773	20 09 52.84	−09 05 26.9				557
1996 HR	1997 08 03.96315	20 52 01.58	−24 49 06.6				557	1997 PN	1997 08 10.85936	20 09 52.76	−09 05 18.6	18.6	V		557
1996 HR	1997 08 03.96617	20 52 01.45	−24 49 07.0				557	1997 PO	1997 08 02.84904	20 14 17.80	−10 18 40.3				557
1996 LH	1997 08 04.03181	00 11 27.74	−01 47 31.8	19.3	V		557	1997 PO	1997 08 02.85733	20 14 17.64	−10 18 55.9	17.0	V		557
1996 LH	1997 08 04.05463	00 11 27.43	−01 47 30.7				557	1997 PO	1997 08 02.86045	20 14 17.56	−10 19 02.1				557
1996 LH	1997 08 06.04826	00 10 59.98	−01 46 44.8	18.9	V		557	1997 PO	1997 08 03.87703	20 13 59.20	−10 51 19.7				557
1996 LH	1997 08 06.07021	00 10 59.66	−01 46 44.4				557	1997 PO	1997 08 03.90020	20 13 58.72	−10 52 04.0				557
1996 OO	1997 08 03.01156	00 20 44.04	+13 03 13.9				557	1997 PO	1997 08 03.90385	20 13 58.65	−10 52 11.1				557
1996 OO	1997 08 03.02201	00 20 43.98	+13 03 14.4				557	1997 PF_2	* 1997 08 08.07571	00 18 43.95	−02 32 59.0	19.3	V		557
1996 OO	1997 08 03.03510	00 20 43.89	+13 03 15.1				557	1997 PF_2	1997 08 08.08951	00 18 44.27	−02 32 56.9				557
1996 OO	1997 08 03.06514	00 20 43.73	+13 03 16.9	18.9	V		557	1997 PF_2	1997 08 10.05470	00 19 22.80	−02 29 29.5	19.0	V	w	557
1996 OO	1997 08 07.92502	00 20 08.66	+13 06 10.9			W	557	1997 PF_2	1997 08 11.08000	00 19 39.62	−02 27 59.5			w	557
1996 OO	1997 08 08.08161	00 20 07.09	+13 06 13.9	19.1	V		557	4047 P-L	1997 08 05.94931	23 39 33.58	−02 10 57.6				557
1997 LY_4	1997 07 22.90535	19 38 15.91	+04 28 20.7	16.2	V		557	4047 P-L	1997 08 05.99421	23 39 32.64	−02 11 01.6				557

4047 P-L	1997 08 07.94497	23 38 51.18	−02 14 00.6	18.4 V	557
4047 P-L	1997 08 07.96219	23 38 50.79	−02 14 01.8		557
6071 P-L	1997 08 10.94522	23 45 26.35	+05 17 24.9	18.2 V	557
6071 P-L	1997 08 10.95777	23 45 26.06	+05 17 22.3		557
1344 T-2	1997 08 03.05135	22 53 15.39	−07 57 25.7	19.0 V	557
1344 T-2	1997 08 03.06205	22 53 15.06	−07 57 28.2		557
1344 T-2	1997 08 04.00359	22 52 46.97	−08 01 09.2	19.2 V	557
1344 T-2	1997 08 04.00973	22 52 46.75	−08 01 10.9		557
(1943)	1997 07 28.85807	22 09 16.01	+18 11 45.0		557
(1943)	1997 07 28.89562	22 09 12.59	+18 11 49.6		557
(1943)	1997 07 28.94630	22 09 07.91	+18 11 55.2		557
(1943)	1997 07 28.98833	22 09 03.98	+18 11 59.6		557
(1943)	1997 07 29.03534	22 08 59.56	+18 12 03.9		557
(1943)	1997 08 04.83013	21 58 26.65	+18 02 37.3		557
(1943)	1997 08 04.87215	21 58 22.43	+18 02 27.6		557
(1943)	1997 08 04.94819	21 58 14.65	+18 02 09.0		557
(1943)	1997 08 05.01128	21 58 08.13	+18 01 52.8		557
(1943)	1997 08 05.06318	21 58 02.78	+18 01 38.8		557
(1943)	1997 08 05.84006	21 56 48.09	+17 57 56.5		557
(1943)	1997 08 05.91499	21 56 40.44	+17 57 35.0		557
(1943)	1997 08 05.97543	21 56 34.18	+17 57 16.8		557
(1943)	1997 08 06.03701	21 56 27.78	+17 56 57.6		557
(1943)	1997 08 06.09009	21 56 22.29	+17 56 40.4		557
(1980)	1997 07 22.93198	17 53 23.96	+41 42 15.4	14.3 V	557
(1980)	1997 07 22.95980	17 53 20.70	+41 43 05.2		557
(1980)	1997 07 23.01273	17 53 14.54	+41 44 39.5		557
(1980)	1997 07 23.07823	17 53 07.05	+41 46 35.3		557
(1980)	1997 07 23.95601	17 51 30.43	+42 12 44.0		557
(1980)	1997 07 23.99073	17 51 26.44	+42 13 44.0		557
(1980)	1997 07 24.05303	17 51 19.38	+42 15 30.6		557
(1980)	1997 07 24.09005	17 51 15.25	+42 16 33.6		557
(1980)	1997 08 06.85010	17 29 49.48	+47 32 41.1		557
(1980)	1997 08 06.91832	17 29 44.03	+47 33 52.2		557
(1980)	1997 08 06.96002	17 29 40.77	+47 34 34.9		557
(1980)	1997 08 07.02542	17 29 35.79	+47 35 41.2		557
(1980)	1997 08 07.08715	17 29 31.26	+47 36 43.4		557
(1980)	1997 08 07.84498	17 28 37.64	+47 50 03.3		557
(1980)	1997 08 07.92830	17 28 31.28	+47 51 27.1		557
(1980)	1997 08 07.98112	17 28 27.37	+47 52 19.1		557
(1980)	1997 08 08.05075	17 28 22.35	+47 53 27.0		557
(3288)	1997 08 05.02794	00 36 23.06	+10 15 55.8	19.5 V	557
(7031)	1997 08 04.02206	22 46 34.58	−13 34 35.7	18.0 V	557
(7031)	1997 08 04.06002	22 46 32.88	−13 34 43.9		557

560 Madonna di Dossobuono

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

0.40-m $f/3.5$ reflector + CCD

GSC

1966 CM	1997 07 07.89329	17 46 25.18	−05 25 54.3	18.2 V	560
1966 CM	1997 07 07.89682	17 46 25.00	−05 25 55.8		560
1966 CM	1997 07 07.90183	17 46 24.76	−05 25 57.4		560
1966 CM	1997 07 13.88495	17 42 09.51	−05 57 37.6	18.5 V	560
1966 CM	1997 07 13.89177	17 42 09.25	−05 57 40.7		560
1966 CM	1997 07 13.89731	17 42 09.00	−05 57 42.7		560
1985 UF_3	1997 07 21.89453	19 11 25.98	−01 40 32.7	16.9 V	560
1985 UF_3	1997 07 21.89791	19 11 25.82	−01 40 32.6		560
1985 UF_3	1997 07 21.90458	19 11 25.55	−01 40 34.4		560
1985 UF_3	1997 07 21.91130	19 11 25.17	−01 40 35.9		560
1993 FL_{84}	1997 07 29.88935	19 52 51.38	−06 07 29.7	17.0 V	560
1993 FL_{84}	1997 07 29.89567	19 52 51.05	−06 07 32.5		560
1993 FL_{84}	1997 07 29.90120	19 52 50.72	−06 07 34.4		560
1993 FL_{84}	1997 07 30.89634	19 51 58.67	−06 14 20.9	17.0 V	560
1993 FL_{84}	1997 07 30.90332	19 51 58.32	−06 14 23.7		560
1993 FL_{84}	1997 07 30.91091	19 51 57.88	−06 14 27.2		560
1993 MC	1997 07 19.91348	17 44 09.32	−02 15 36.2	17.1 V	560
1993 MC	1997 07 19.92175	17 44 09.18	−02 15 37.8		560
1993 MC	1997 07 19.92648	17 44 09.06	−02 15 37.8		560
1996 DE	1997 07 01.90937	17 31 09.32	−00 42 57.6	17.3 V	560
1996 DE	1997 07 01.91735	17 31 08.90	−00 43 00.9		560
1996 DE	1997 07 03.90503	17 29 33.64	−00 55 56.8	17.6 V	560
1996 DE	1997 07 03.91628	17 29 33.08	−00 56 00.7		560
1996 DE	1997 07 03.92326	17 29 32.73	−00 56 03.6		560
2114 T-3	1997 07 29.91191	19 52 00.12	−06 38 33.3	18.0 V	560
2114 T-3	1997 07 29.91834	19 51 59.80	−06 38 34.0		560
2114 T-3	1997 07 29.92444	19 51 59.51	−06 38 34.7		560
2114 T-3	1997 07 30.92461	19 51 13.83	−06 41 30.9	18.2 V	560
2114 T-3	1997 07 30.93144	19 51 13.50	−06 41 31.4		560
2114 T-3	1997 07 30.93406	19 51 13.38	−06 41 32.2		560
2114 T-3	1997 07 30.94019	19 51 13.09	−06 41 32.5		560

565 Bassano Bresciano

U. Quadri, Osservatorio di Bassano Bresciano, Via S. Michele 4, I-25020 Bassano Bresciano (BS), Italy [astrofil@astbo1.bo.cnr.it]

Observers U. Quadri, L. Strabla

0.15-m $f/8.0$ reflector

SAOC

(2)	1997 07 26.89478	19 18 20.14	+19 11 03.8		565
(2)	1997 07 26.89999	19 18 19.88	+19 11 00.2		565
(2)	1997 07 26.90566	19 18 19.67	+19 10 57.9		565
(2)	1997 07 30.84663	19 15 26.41	+18 39 01.7		565
(2)	1997 07 30.87171	19 15 25.34	+18 38 48.5		565
(2)	1997 08 02.87137	19 13 20.62	+18 12 16.5		565
(2)	1997 08 02.89088	19 13 19.76	+18 12 05.5		565
(4116)	1997 07 25.88014	19 10 26.12	+20 06 34.8		565
(4116)	1997 07 25.88880	19 10 25.75	+20 06 27.6		565
(4116)	1997 07 25.89782	19 10 25.14	+20 06 21.7		565
(4116)	1997 07 25.90159	19 10 24.82	+20 06 18.1		565
(5222)	1997 07 30.85090	18 42 00.80	+25 10 58.1		565
(5222)	1997 07 30.87834	18 41 59.65	+25 10 48.8		565
(5222)	1997 07 30.89553	18 41 58.96	+25 10 44.2		565

566 Haleakala-NEAT/GEODSS

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

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

1-m $f/2.2$ Ritchey-Chrétien + CCD

1971 UM	1997 08 03.51947	19 57 09.24	−25 47 24.7	17.7 V	566
1971 UM	1997 08 03.53057	19 57 08.59	−25 47 25.6	17.6 V	566
1971 UM	1997 08 03.54071	19 57 07.90	−25 47 27.0	17.9 V	566
1975 SR	1997 08 03.59163	20 36 10.09	−13 59 25.0	18.6 V	566
1975 SR	1997 08 03.60239	20 36 09.47	−13 59 29.1	18.2 V	566
1975 SR	1997 08 03.61722	20 36 08.56	−13 59 32.0	18.3 V	566
1981 SC_7	1996 05 14.45855	15 08 51.40	−20 14 01.0	17.3 V	566
1982 UF_7	1997 08 02.60487	04 06 56.44	+20 25 35.4	19.1 V	566
1982 UF_7	1997 08 02.61846	04 06 57.66	+20 25 37.0	19.0 V	566
1982 UF_7	1997 08 02.62828	04 06 58.54	+20 25 38.0	19.3 V	566
1983 XN_1	1997 08 01.55438	20 24 18.50	−21 15 32.7	17.8 V	566
1983 XN_1	1997 08 01.56427	20 24 17.98	−21 15 33.6	18.2 V	566
1983 XN_1	1997 08 01.57816	20 24 17.21	−21 15 33.6	17.6 V	566
1983 XN_1	1997 08 02.38788	20 23 34.59	−21 15 56.8	17.3 V	566
1983 XN_1	1997 08 02.40666	20 23 33.53	−21 15 57.3	17.5 V	566
1983 XN_1	1997 08 02.41311	20 23 33.20	−21 15 57.7	17.9 V	566
1983 XN_1	1997 08 02.41664	20 23 33.01	−21 15 57.7	18.2 V	566
1983 XN_1	1997 08 02.42405	20 23 32.58	−21 15 57.3	18.3 V	566
1983 XN_1	1997 08 02.42661	20 23 32.43	−21 15 58.0	18.4 V	566
1983 XN_1	1997 08 02.43350	20 23 32.06	−21 15 58.4	18.2 V	566
1983 XN_1	1997 08 02.44548	20 23 31.40	−21 15 58.6	17.7 V	566
1983 XN_1	1997 08 02.45579	20 23 30.82	−21 15 58.9	17.3 V	566
1983 XN_1	1997 08 02.48124	20 23 29.44	−21 15 59.3	17.5 V	566
1983 XN_1	1997 08 02.49248	20 23 28.86	−21 15 59.5	17.3 V	566
1983 XN_1	1997 08 02.50274	20 23 28.31	−21 16 00.1	17.5 V	566
1983 XN_1	1997 08 02.51947	20 23 27.38	−21 16 00.2	18.0 V	566
1983 XN_1	1997 08 02.52924	20 23 26.81	−21 16 01.0	18.4 V	566
1983 XN_1	1997 08 02.53996	20 23 26.28	−21 16 00.6	18.1 V	566
1986 CF_2	1997 08 03.48013	19 09 34.08	−32 03 28.6	17.2 V	566
1986 CF_2	1997 08 03.49335	19 09 33.34	−32 03 23.8	17.3 V	566
1986 CF_2	1997 08 03.50346	19 09 32.75	−32 03 19.9	17.3 V	566
1986 QB_3	1997 08 01.49212	19 35 44.53	−23 55 31.3	17.5 V	566
1986 QB_3	1997 08 01.50508	19 35 43.95	−23 55 33.0	17.6 V	566
1986 QB_3	1997 08 01.51485	19 35 43.46	−23 55 34.0	17.9 V	566
1987 BS_1	1997 08 01.49673	19 37 26.33	−20 23 49.2	18.1 V	566
1987 BS_1	1997 08 01.50988	19 37 25.56	−20 23 47.5	18.6 V	566
1987 BS_1	1997 08 01.51948	19 37 25.03	−20 23 47.2	18.4 V	566
1988 RH_{10}	1997 08 03.38959	20 25 09.19	−19 22 30.6	17.3 V	566
1988 RH_{10}	1997 08 03.40231	20 25 08.48	−19 22 32.9	17.3 V	566
1988 RH_{10}	1997 08 03.41210	20 25 07.94	−19 22 35.2	17.4 V	566
1988 RH_{10}	1997 08 03.50265	20 25 03.08	−19 22 51.6	17.5 V	566
1988 RH_{10}	1997 08 03.51413	20 25 02.46	−19 22 53.6	17.3 V	566
1988 RH_{10}	1997 08 03.52411	20 25 01.93	−19 22 55.4	17.4 V	566
1988 UC	1997 08 01.43131	18 50 02.23	−26 36 01.9	18.5 V	566
1988 UC	1997 08 01.44153	18 50 01.80	−26 36 01.0	17.6 V	566
1988 UC	1997 08 01.45348	18 50 01.38	−26 36 02.0	18.4 V	566
1989 PU	1997 08 02.60159	20 21 09.96	−07 36 41.9	16.4 V	566
1989 PU	1997 08 02.61415	20 21 09.36	−07 37 02.9	16.4 V	566
1989 PU	1997 08 02.62733	20 21 08.67	−07 37 24.3	16.4 V	566
1989 PU	1997 08 03.46467	20 20 28.38	−08 00 46.1	16.1 V	566
1989 PU	1997 08 03.47640	20 20 27.76	−08 01 05.6	15.9 V	566
1989 PU	1997 08 03.48634	20 20 27.23	−08 01 22.3	15.9 V	566
1989 XD_2	1997 08 03.53296	19 52 06.84	−20 28 11.2	18.6 V	566
1989 XD_2	1997 08 03.54394	19 52 06.27	−20 28 14.6	18.3 V	566
1989 XD_2	1997 08 03.55470	19 52 05.65	−20 28 18.6	18.0 V	566
1990 MR	1997 08 02.34800	16 40 38.33	−16 21 06.6	18.8 V	566
1990 MR	1997 08 02.35895	16 40 38.86	−16 21 06.6	18.5 V	566
1990 MR	1997 08 02.38435	16 40 40.16	−16 21 06.0	19.1 V	566
1990 QO	1997 08 02.52327	20 14 46.08	+02 05 01.6	17.8 V	566
1990 QO	1997 08 02.53446	20 14 45.39	+02 04 53.6	18.1 V	566
1990 QO	1997 08 02.54455	20 14 44.73	+02 04 46.9	18.1 V	566
1990 QZ_1	1997 08 03.51713	19 58 58.67	−28 53 21.9	18.8 V	566
1990 QZ_1	1997 08 03.52832	19 58 58.00	−28 53 22.8	19.0 V	566
1990 QZ_1	1997 08 03.53927	19 58 57.27	−28 53 21.4	18.7 V	566
1990 SD_5	1997 08 01.48913	19 41 15.21	−27 34 44.4	18.1 V	566
1990 SD_5	1997 08 01.50020	19 41 14.63	−27 34 44.9	18.4 V	566
1990 SD_5	1997 08 01.51252	19 41 13.98	−27 34 44.9	18.1 V	566
1990 SS_9	1997 08 03.58335	20 42 47.53	−21 38 14.7	17.8 V	566
1990 SS_9	1997 08 03.59309	20 42 46.87	−21 38 17.8	17.8 V	566
1990 SS_9	1997 08 03.60386	20 42 46.19	−21 38 20.3	17.9 V	566
1990 TU_8	1997 08 02.55546	19 45 14.50	−25 49 28.6	16.9 V	566
1990 TU_8	1997 08 02.56610	19 45 14.01	−25 49 28.2	17.0 V	566
1990 TU_8	1997 08 02.57611	19 45 13.32	−25 49 29.5	17.2 V	566
1991 AK	1997 08 01.55438	20 21 25.18	−20 56 44.5	17.1 V	566
1991 AK	1997 08 01.56427	20 21 24.63	−20 56 45.9	17.1 V	566
1991 AK	1997 08 01.57816	20 21 23.84	−20 56 47.8	17.4 V	566
1991 GK_4	1997 08 01.55588	20 17 39.22	−17 58 30.2	17.7 V	566
1991 GK_4	1997 08 01.56994	20 17 38.48	−17 58 32.4	17.8 V	566
1991 GK_4	1997 08 01.57977	20 17 38.03	−17 58 33.9	18.0 V	566
1991 UF_3	1996 04 21.25912	07 45 15.73	+35 11 05.7	18.3 V	566
1991 UF_3	1996 04 21.28085	07 45 18.15	+35 10 53.1	18.4 V	566
1991 UF_3	1996 04 21.30793	07 45 21.29	+35 10 36.8	18.5 V	566
1992 QL_2	1997 08 01.58581	20 12 12.47	−06 16 46.1	16.8 V	566
1992 QL_2	1997 08 01.59519	20 12 12.05	−06 16 47.2	16.7 V	566
1992 QL_2	1997 08 01.60521	20 12 11.59	−06 16 47.3	16.7 V	566
1993 DC_1	1997 08 01.24791	15 20 27.72	−15 25 29.3	18.6 V	566
1993 DC_1	1997 08 01.25751	15 20 28.34	−15 25 33.0	19.1 V	566
1993 DC_1	1997 08 01.26912	15 20 29.07	−15 25 37.4	18.8 V	566
1993 FB_{18}	1997 08 01.55279	20 29 22.37	−24 05 14.9	16.4 V	566
1993 FB_{18}	1997 08 01.56268	20 29 21.80	−24 05 18.5	16.3 V	566
1993 FB_{18}	1997 08 01.57589	20 29 21.03	−24 05 23.3	16.4 V	566
1993 FZ_{49}	1997 08 01.55361	20 22 32.28	−22 54 15.7	18.7 V	566
1993 FZ_{49}	1997 08 01.56347	20 22 31.65	−22 54 17.2	18.7 V	566
1993 FZ_{49}	1997 08 01.57663	20 22 30.86	−22 54 17.9	18.6 V	566
1994 PA_{19}	1997 06 01.43410	15 27 09.52	−16 35 09.2	20.2 V	566
1994 PA_{19}	1997 06 01.44342	15 27 08.86	−16 35 08.3	20.1 V	566
1994 PA_{19}	1997 06 01.45185	15 27 08.45	−16 35 06.6	19.6 V	566
1995 AH	1997 08 01.55588	20 22 08.45	−17 55 49.9	18.5 V	566
1995 AH	1997 08 01.56994	20 22 07.70	−17 55 53.8	18.1 V	566
1995 AH	1997 08 01.57977	20 22 07.09	−17 55 56.3	18.1 V	566

1996 AA_1		1997 08 01.55588	20 23 47.99	−18 39 16.2	16.9	V	566
1996 AA_1		1997 08 01.56994	20 23 47.12	−18 39 18.2	16.8	V	566
1996 AA_1		1997 08 01.57977	20 23 46.55	−18 39 19.9	17.0	V	566
1996 AL_2		1997 08 03.26214	15 08 26.11	−08 03 21.4	18.5	V	566
1996 AL_2		1997 08 03.27262	15 08 26.67	−08 03 28.4	18.3	V	566
1996 AL_2		1997 08 03.28260	15 08 27.23	−08 03 35.6	18.3	V	566
1996 CG_1		1997 08 01.24648	15 09 55.03	−21 58 25.5	18.8	V	566
1996 CG_1		1997 08 01.25609	15 09 55.32	−21 58 26.6	18.5	V	566
1996 CG_1		1997 08 01.26754	15 09 55.65	−21 58 27.7	18.9	V	566
1996 CK_9		1996 03 26.26770	10 48 43.86	+10 47 59.7	17.4	V	566
1996 CK_9		1996 03 26.29094	10 48 42.80	+10 48 08.2	17.7	V	566
1996 CK_9		1996 03 26.31550	10 48 41.65	+10 48 17.4	17.6	V	566
1996 CK_9		1996 04 22.28019	10 37 35.11	+12 26 51.9	19.0	V	566
1996 CK_9		1996 04 22.30773	10 37 35.00	+12 26 54.3	18.7	V	566
1996 CK_9		1996 04 22.33863	10 37 34.79	+12 26 56.4	18.9	V	566
1996 FM_{23}		1996 03 20.50363	11 59 28.00	−02 52 57.5	17.6	V	566
1996 FM_{23}		1996 03 20.52360	11 59 26.69	−02 52 53.2	17.7	V	566
1996 FM_{23}		1996 03 20.54444	11 59 25.30	−02 52 48.5	17.6	V	566
1996 GU_8		1997 08 01.55279	20 27 15.01	−23 59 42.5	17.7	V	566
1996 GU_8		1997 08 01.56268	20 27 14.46	−23 59 45.0	17.8	V	566
1996 GU_8		1997 08 01.57589	20 27 13.78	−23 59 47.5	18.3	V	566
1997 GZ_{42}		1997 05 06.37889	12 59 27.01	−10 22 30.6	18.3	V	566
1997 GZ_{42}		1997 05 06.38739	12 59 26.60	−10 22 29.7	18.5	V	566
1997 GZ_{42}		1997 05 06.39586	12 59 26.19	−10 22 28.5	19.2	V	566
1997 JE_{15}		1996 03 22.40555	09 31 24.02	+15 13 35.8	18.3	V	566
1997 JE_{15}		1996 03 22.42541	09 31 23.56	+15 13 37.8	17.5	V	566
1997 JE_{15}		1996 03 22.44979	09 31 23.00	+15 13 41.2	17.7	V	566
1997 MA		1997 08 01.49823	19 30 36.12	−19 01 07.5	17.1	V	566
1997 MA		1997 08 01.51147	19 30 35.46	−19 01 10.7	17.1	V	566
1997 MA		1997 08 01.52102	19 30 34.98	−19 01 12.7	17.2	V	566
1997 MX		1997 08 01.49823	19 32 54.00	−19 12 50.0	18.8	V	566
1997 MX		1997 08 01.51147	19 32 53.25	−19 12 55.0	18.8	V	566
1997 MX		1997 08 01.52102	19 32 52.76	−19 12 58.6	18.6	V	566
1997 NZ_2		1997 08 03.48174	19 13 06.95	−28 36 22.6	18.2	V	566
1997 NZ_2		1997 08 03.49482	19 13 06.48	−28 36 22.6	18.4	V	566
1997 NZ_2		1997 08 03.50496	19 13 06.10	−28 36 23.4	18.7	V	566
1997 PA	*	1997 08 01.48984	19 41 58.51	−26 58 34.2	18.3	V	566
1997 PA		1997 08 01.50093	19 41 57.80	−26 58 27.7	18.0	V	566
1997 PA		1997 08 01.51325	19 41 57.02	−26 58 21.7	18.4	V	566
1997 PA		1997 08 02.47800	19 41 01.25	−26 49 41.4	18.2	V	566
1997 PA		1997 08 02.48948	19 41 00.55	−26 49 35.1	18.2	V	566
1997 PA		1997 08 02.49961	19 40 59.83	−26 49 29.6	18.9	V	566
1997 PA		1997 08 02.51701	19 40 58.85	−26 49 19.1	18.0	V	566
1997 PA		1997 08 02.52768	19 40 58.14	−26 49 13.5	18.1	V	566
1997 PA		1997 08 02.53836	19 40 57.53	−26 49 07.2	18.3	V	566
1997 PB	*	1997 08 01.55438	20 25 08.60	−20 42 56.5	16.8	V	566
1997 PB		1997 08 01.56427	20 25 08.05	−20 43 00.0	16.8	V	566
1997 PB		1997 08 01.57816	20 25 07.24	−20 43 05.4	16.9	V	566
1997 PB		1997 08 02.38788	20 24 24.17	−20 48 16.7	16.8	V	566
1997 PB		1997 08 02.40666	20 24 23.10	−20 48 24.0	16.9	V	566
1997 PB		1997 08 02.41311	20 24 22.72	−20 48 26.4	17.0	V	566
1997 PB		1997 08 02.41664	20 24 22.53	−20 48 27.7	16.9	V	566
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1997 PB		1997 08 02.42661	20 24 21.95	−20 48 31.8	16.9	V	566
1997 PB		1997 08 02.48124	20 24 18.82	−20 48 52.2	16.9	V	566
1997 PB		1997 08 02.49248	20 24 18.19	−20 48 56.2	16.8	V	566
1997 PB		1997 08 02.50274	20 24 17.58	−20 49 00.4	16.9	V	566
1997 PB		1997 08 02.51947	20 24 16.65	−20 49 06.5	16.8	V	566
1997 PB		1997 08 02.52924	20 24 16.10	−20 49 10.1	16.9	V	566
1997 PB		1997 08 02.53996	20 24 15.47	−20 49 14.1	17.0	V	566
1997 PC	*	1997 08 01.55438	20 26 32.23	−20 55 06.0	17.5	V	566
1997 PC		1997 08 01.56427	20 26 31.67	−20 55 06.7	17.4	V	566
1997 PC		1997 08 01.57816	20 26 30.88	−20 55 07.7	17.6	V	566
1997 PC		1997 08 02.38788	20 25 46.98	−20 56 13.5	17.6	V	566
1997 PC		1997 08 02.40666	20 25 45.87	−20 56 14.9	17.6	V	566
1997 PC		1997 08 02.41311	20 25 45.52	−20 56 15.6	17.7	V	566
1997 PC		1997 08 02.41664	20 25 45.32	−20 56 15.9	17.7	V	566
1997 PC		1997 08 02.42405	20 25 44.87	−20 56 16.4	17.7	V	566
1997 PC		1997 08 02.42661	20 25 44.71	−20 56 16.7	17.6	V	566
1997 PC		1997 08 02.43350	20 25 44.31	−20 56 17.3	17.6	V	566
1997 PC		1997 08 02.44548	20 25 43.62	−20 56 17.6	17.4	V	566
1997 PC		1997 08 02.45579	20 25 43.00	−20 56 18.9	17.6	V	566
1997 PC		1997 08 02.48124	20 25 41.49	−20 56 20.5	17.5	V	566
1997 PC		1997 08 02.49248	20 25 40.85	−20 56 21.4	17.5	V	566
1997 PC		1997 08 02.50274	20 25 40.21	−20 56 22.2	17.6	V	566
1997 PD	*	1997 08 01.58275	20 13 20.56	−09 25 51.3	16.4	V	566
1997 PD		1997 08 01.59376	20 13 19.91	−09 25 44.0	16.4	V	566
1997 PD		1997 08 01.60365	20 13 19.34	−09 25 38.2	16.3	V	566
1997 PD		1997 08 02.35450	20 12 38.07	−09 18 05.4	16.2	V	566
1997 PD		1997 08 02.38035	20 12 36.50	−09 17 49.7	16.3	V	566
1997 PD		1997 08 02.40402	20 12 35.06	−09 17 35.8	16.4	V	566
1997 PD		1997 08 02.43428	20 12 33.24	−09 17 17.6	16.3	V	566
1997 PD		1997 08 02.44621	20 12 32.51	−09 17 10.4	16.3	V	566
1997 PD		1997 08 02.45651	20 12 31.90	−09 17 04.4	16.4	V	566
1997 PD		1997 08 03.35791	20 11 42.51	−09 08 09.2	16.3	V	566
1997 PD		1997 08 03.36791	20 11 41.92	−09 08 03.7	16.3	V	566
1997 PD		1997 08 03.37767	20 11 41.31	−09 07 57.5	16.3	V	566
1997 PE	*	1997 08 01.58275	20 15 47.28	−09 45 46.9	17.5	V	566
1997 PE		1997 08 01.59376	20 15 46.61	−09 45 49.9	17.7	V	566
1997 PE		1997 08 01.60365	20 15 46.07	−09 45 52.2	17.8	V	566
1997 PE		1997 08 02.35450	20 15 03.98	−09 49 13.8	17.4	V	566
1997 PE		1997 08 02.38035	20 15 02.46	−09 49 21.0	17.5	V	566
1997 PE		1997 08 02.40402	20 15 01.07	−09 49 27.3	17.5	V	566
1997 PE		1997 08 02.43428	20 14 59.31	−09 49 35.3	17.3	V	566
1997 PE		1997 08 02.44621	20 14 58.60	−09 49 38.6	17.2	V	566
1997 PE		1997 08 02.45651	20 14 57.99	−09 49 41.7	17.1	V	566
1997 PE		1997 08 02.48347	20 14 56.40	−09 49 48.6	17.3	V	566
1997 PE		1997 08 02.49338	20 14 55.82	−09 49 51.1	17.4	V	566
1997 PE		1997 08 02.50371	20 14 55.22	−09 49 53.9	17.4	V	566
1997 PE		1997 08 03.35791	20 14 07.40	−09 53 42.4	17.3	V	566
1997 PE		1997 08 03.36791	20 14 06.82	−09 53 45.1	17.4	V	566
1997 PE		1997 08 03.37767	20 14 06.26	−09 53 48.5	17.6	V	566
1997 PE		1997 08 03.38788	20 14 05.77	−09 53 53.3	17.6	V	566
1997 PE		1997 08 03.39885	20 14 05.14	−09 53 56.6	17.7	V	566

1997 PE	1997 08 03.40946	20 14 04.55	−09 53 59.0	17.9 V	566
1997 PE	1997 08 03.50187	20 13 59.15	−09 54 24.7	17.4 V	566
1997 PE	1997 08 03.51325	20 13 58.50	−09 54 27.5	17.6 V	566
1997 PE	1997 08 03.52341	20 13 57.90	−09 54 30.3	17.4 V	566
1997 PF	* 1997 08 01.58275	20 16 09.52	−10 11 32.8	18.3 V	566
1997 PF	1997 08 01.59376	20 16 09.02	−10 11 33.8	18.4 V	566
1997 PF	1997 08 01.60365	20 16 08.53	−10 11 35.3	18.3 V	566
1997 PF	1997 08 02.48347	20 15 28.98	−10 13 41.6	18.3 V	566
1997 PF	1997 08 02.49338	20 15 28.51	−10 13 42.4	18.0 V	566
1997 PF	1997 08 02.50371	20 15 28.07	−10 13 44.3	18.3 V	566
1997 PF	1997 08 03.38788	20 14 48.71	−10 15 54.2	18.2 V	566
1997 PF	1997 08 03.39885	20 14 48.19	−10 15 56.0	18.0 V	566
1997 PF	1997 08 03.40946	20 14 47.68	−10 15 57.5	18.6 V	566
1997 PF	1997 08 03.50187	20 14 43.41	−10 16 11.3	17.9 V	566
1997 PF	1997 08 03.51325	20 14 42.89	−10 16 12.8	18.4 V	566
1997 PF	1997 08 03.52341	20 14 42.42	−10 16 14.2	18.0 V	566
1997 PG	* 1997 08 01.60130	21 22 42.21	−28 17 19.3	17.7 V	566
1997 PG	1997 08 01.61564	21 22 41.43	−28 17 21.5	18.0 V	566
1997 PG	1997 08 01.62574	21 22 40.85	−28 17 23.7	18.0 V	566
1997 PG	1997 08 02.53672	21 21 52.10	−28 19 48.2	17.4 V	566
1997 PG	1997 08 02.54992	21 21 51.38	−28 19 49.8	17.4 V	566
1997 PG	1997 08 02.55951	21 21 50.85	−28 19 52.1	17.5 V	566
1997 PH	* 1997 08 01.60293	21 22 01.63	−27 25 30.8	18.0 V	566
1997 PH	1997 08 01.61712	21 22 00.75	−27 25 35.3	18.7 V	566
1997 PH	1997 08 01.62652	21 22 00.17	−27 25 36.6	18.2 V	566
1997 PH	1997 08 02.53672	21 21 06.27	−27 29 12.1	17.8 V	566
1997 PH	1997 08 02.54992	21 21 05.45	−27 29 15.1	17.8 V	566
1997 PH	1997 08 02.55951	21 21 04.86	−27 29 17.4	18.1 V	566
1997 PK	* 1997 08 01.55508	20 24 46.40	−20 06 43.2	17.4 V	566
1997 PK	1997 08 01.56924	20 24 45.50	−20 06 47.2	17.5 V	566
1997 PK	1997 08 01.57888	20 24 44.91	−20 06 49.7	17.5 V	566
1997 PK	1997 08 03.38959	20 22 56.31	−20 15 05.0	17.5 V	566
1997 PK	1997 08 03.40231	20 22 55.46	−20 15 08.3	17.5 V	566
1997 PK	1997 08 03.41210	20 22 54.88	−20 15 11.2	17.9 V	566
1997 PL	* 1997 08 01.58351	20 12 40.06	−08 24 52.0	18.2 V	566
1997 PL	1997 08 01.59450	20 12 39.38	−08 24 53.5	18.8 V	566
1997 PL	1997 08 01.60441	20 12 38.80	−08 24 55.0	18.7 V	566
1997 PL	1997 08 03.35791	20 10 52.80	−08 30 02.4	18.4 V	566
1997 PL	1997 08 03.36791	20 10 52.20	−08 30 04.6	18.7 V	566
1997 PL	1997 08 03.37767	20 10 51.57	−08 30 06.5	18.4 V	566
1997 PN	* 1997 08 01.55361	20 27 51.93	−22 56 37.3	18.5 V	566
1997 PN	1997 08 01.56347	20 27 50.50	−22 55 39.9	18.1 V	566
1997 PN	1997 08 01.57663	20 27 48.52	−22 54 24.9	18.6 V	566
1997 PN	1997 08 02.43350	20 25 51.52	−21 33 12.3	18.7 V	566
1997 PN	1997 08 02.44548	20 25 49.81	−21 32 05.1	18.2 V	566
1997 PN	1997 08 02.45579	20 25 48.30	−21 31 06.2	18.4 V	566
1997 PN	1997 08 02.48124	20 25 44.53	−21 28 41.4	18.6 V	566
1997 PN	1997 08 02.49248	20 25 42.80	−21 27 38.2	18.2 V	566
1997 PN	1997 08 02.50274	20 25 41.35	−21 26 39.0	18.5 V	566
1997 PN	1997 08 02.51947	20 25 38.84	−21 25 03.3	18.3 V	566
1997 PN	1997 08 02.52924	20 25 37.41	−21 24 06.3	18.1 V	566
1997 PN	1997 08 02.53996	20 25 35.89	−21 23 04.2	18.8 V	566
1997 PN	1997 08 03.50265	20 23 28.04	−19 52 29.7	18.8 V	566
1997 PN	1997 08 03.51413	20 23 26.47	−19 51 24.4	18.6 V	566
1997 PN	1997 08 03.52411	20 23 25.04	−19 50 27.6	18.9 V	566
1997 PO	* 1997 08 01.58275	20 14 40.66	−09 38 24.0	17.0 V	566
1997 PO	1997 08 01.59376	20 14 40.42	−09 38 44.7	17.3 V	566
1997 PO	1997 08 01.60365	20 14 40.21	−09 39 03.3	17.3 V	566
1997 PO	1997 08 02.35450	20 14 26.98	−10 02 53.7	17.4 V	566
1997 PO	1997 08 02.38035	20 14 26.38	−10 03 43.4	17.7 V	566
1997 PO	1997 08 02.40402	20 14 25.80	−10 04 28.5	17.2 V	566
1997 PO	1997 08 02.43428	20 14 25.09	−10 05 26.0	16.8 V	566
1997 PO	1997 08 02.44621	20 14 24.83	−10 05 48.7	16.8 V	566
1997 PO	1997 08 02.45651	20 14 24.60	−10 06 08.5	16.8 V	566
1997 PO	1997 08 02.48347	20 14 23.96	−10 06 59.7	17.2 V	566
1997 PO	1997 08 02.49338	20 14 23.74	−10 07 18.0	17.2 V	566
1997 PO	1997 08 02.50371	20 14 23.50	−10 07 38.1	17.5 V	566
1997 PO	1997 08 03.50187	20 14 05.26	−10 39 20.8	17.1 V	566
1997 PO	1997 08 03.51325	20 14 05.03	−10 39 42.0	17.7 V	566
1997 PO	1997 08 03.52341	20 14 04.81	−10 40 01.6	17.3 V	566
1997 PP	* 1997 08 01.60293	21 20 51.60	−27 36 05.4	18.5 V	566
1997 PP	1997 08 01.61712	21 20 51.10	−27 36 05.7	18.6 V	566
1997 PP	1997 08 01.62652	21 20 50.71	−27 36 05.7	19.0 V	566
1997 PP	1997 08 02.53672	21 20 19.51	−27 36 31.0	18.3 V	566
1997 PP	1997 08 02.54992	21 20 18.99	−27 36 30.9	18.5 V	566
1997 PP	1997 08 02.55951	21 20 18.60	−27 36 30.7	18.7 V	566
1997 PE_2	1997 08 03.55090	19 42 48.55	−07 39 59.0	15.2 V	566
1997 PE_2	1997 08 03.56121	19 42 48.19	−07 40 12.0	15.2 V	566
1997 PE_2	1997 08 03.57137	19 42 47.86	−07 40 24.9	15.2 V	566
7604 P-L	1997 08 02.55617	19 46 55.82	−25 07 57.5	18.2 V	566
7604 P-L	1997 08 02.56695	19 46 55.19	−25 07 58.8	18.7 V	566
7604 P-L	1997 08 02.57687	19 46 54.75	−25 08 01.1	19.3 V	566
3058 T-1	1997 04 07.53650	12 33 21.75	−07 36 22.8	18.5 V	566
3058 T-1	1997 04 07.54497	12 33 21.20	−07 36 20.6	18.7 V	566
3058 T-1	1997 04 07.55393	12 33 20.66	−07 36 18.2	18.4 V	566
1076 T-3	1997 08 03.38959	20 24 03.96	−19 39 46.3	16.6 V	566
1076 T-3	1997 08 03.40231	20 24 03.05	−19 39 45.5	16.7 V	566
1076 T-3	1997 08 03.41210	20 24 02.37	−19 39 44.7	16.7 V	566
5022 T-3	1996 02 24.58923	11 02 41.23	+10 51 18.6	17.4 V	566
5022 T-3	1996 02 24.60999	11 02 40.33	+10 51 28.2	17.5 V	566
5022 T-3	1996 02 24.63072	11 02 39.41	+10 51 37.5	17.6 V	566
5192 T-3	1997 08 03.56452	20 55 38.22	−32 20 48.7	18.5 V	566
5192 T-3	1997 08 03.57444	20 55 37.69	−32 20 50.4	18.5 V	566
5192 T-3	1997 08 03.58421	20 55 37.14	−32 20 53.1	18.0 V	566
(23)	1997 08 03.60556	04 07 34.43	+16 33 06.3	12.3 V	566
(23)	1997 08 03.61893	04 07 35.62	+16 33 10.4	12.3 V	566
(23)	1997 08 03.63181	04 07 36.80	+16 33 15.0	12.2 V	566
(281)	1997 08 03.25780	14 51 08.55	−20 26 53.6	17.0 V	566
(281)	1997 08 03.26739	14 51 09.00	−20 26 55.4	16.8 V	566
(281)	1997 08 03.27713	14 51 09.50	−20 26 57.2	16.8 V	566
(282)	1997 08 03.26214	15 05 08.92	−07 05 25.4	16.5 V	566
(282)	1997 08 03.27262	15 05 09.36	−07 05 29.9	16.6 V	566
(282)	1997 08 03.28260	15 05 09.84	−07 05 34.7	16.5 V	566
(910)	1997 08 02.60487	04 06 20.09	+20 22 13.4	17.2 V	566

(910)	1997 08 02.61846	04 06 20.89	+20 22 17.0	17.0	V	566
(910)	1997 08 02.62828	04 06 21.46	+20 22 19.1	17.0	V	566
(1026)	1997 08 03.25912	14 58 43.12	−13 41 37.7	16.7	V	566
(1026)	1997 08 03.26893	14 58 43.74	−13 41 42.3	16.9	V	566
(1026)	1997 08 03.27872	14 58 44.40	−13 41 47.3	17.2	V	566
(1523)	1997 08 01.48984	19 35 54.09	−25 55 17.2	16.0	V	566
(1523)	1997 08 01.50093	19 35 53.40	−25 55 16.7	16.0	V	566
(1523)	1997 08 01.51325	19 35 52.65	−25 55 16.7	15.9	V	566
(1594)	1997 08 03.60556	04 04 15.30	+16 15 44.2	16.9	V	566
(1594)	1997 08 03.61893	04 04 16.43	+16 15 48.3	16.9	V	566
(1594)	1997 08 03.63181	04 04 17.49	+16 15 51.5	16.9	V	566
(1934)	1997 08 03.29882	15 47 44.56	−16 37 09.6	18.1	V	566
(1934)	1997 08 03.31161	15 47 44.66	−16 37 15.8	18.0	V	566
(1934)	1997 08 03.32226	15 47 44.74	−16 37 20.9	18.1	V	566
(2141)	1997 08 03.25780	14 51 26.23	−19 16 07.1	17.5	V	566
(2141)	1997 08 03.26739	14 51 26.62	−19 16 07.6	17.8	V	566
(2141)	1997 08 03.27713	14 51 27.10	−19 16 08.5	18.0	V	566
(2380)	1997 08 02.59458	20 34 52.87	−19 44 13.2	15.8	V	566
(2380)	1997 08 02.60577	20 34 52.13	−19 44 15.2	15.9	V	566
(2380)	1997 08 02.61936	20 34 51.15	−19 44 17.5	16.1	V	566
(2528)	1997 08 03.53296	19 55 34.93	−20 15 20.4	16.5	V	566
(2528)	1997 08 03.54394	19 55 34.38	−20 15 22.3	16.3	V	566
(2528)	1997 08 03.55470	19 55 33.91	−20 15 23.1	16.2	V	566
(2554)	1997 08 02.28654	21 46 01.28	−09 47 28.2	15.0	V	566
(2554)	1997 08 02.29778	21 46 00.65	−09 47 28.5	15.0	V	566
(2554)	1997 08 02.30919	21 45 59.96	−09 47 29.2	14.9	V	566
(2606)	1997 08 03.60556	04 03 08.61	+15 16 42.7	18.4	V	566
(2606)	1997 08 03.61893	04 03 09.39	+15 16 42.6	18.3	V	566
(2606)	1997 08 03.63181	04 03 10.16	+15 16 42.8	18.4	V	566
(2609)	1997 08 03.25501	13 22 52.60	−14 26 56.1	18.4	V	566
(2609)	1997 08 03.26448	13 22 53.57	−14 27 00.9	18.3	V	566
(2609)	1997 08 03.27491	13 22 54.61	−14 27 05.1	17.4	V	566
(2811)	1997 08 02.60487	04 02 50.69	+21 38 09.7	18.1	V	566
(2811)	1997 08 02.61846	04 02 51.74	+21 38 13.1	18.0	V	566
(2811)	1997 08 02.62828	04 02 52.50	+21 38 15.1	17.7	V	566
(2823)	1997 08 01.55889	20 14 31.24	−14 01 57.6	16.8	V	566
(2823)	1997 08 01.56119	20 14 31.15	−14 01 57.2	16.5	V	566
(2823)	1997 08 01.57134	20 14 30.50	−14 01 58.9	16.8	V	566
(2823)	1997 08 01.57442	20 14 30.36	−14 01 59.4	16.6	V	566
(2823)	1997 08 01.58125	20 14 29.98	−14 02 01.1	16.8	V	566
(2823)	1997 08 01.58507	20 14 29.75	−14 02 00.2	16.6	V	566
(2889)	1997 08 02.60487	04 02 02.97	+20 19 28.8	17.7	V	566
(2889)	1997 08 02.61846	04 02 03.97	+20 19 29.7	17.5	V	566
(2889)	1997 08 02.62828	04 02 04.73	+20 19 31.3	17.4	V	566
(3017)	1997 08 02.24914	20 48 41.84	−02 30 48.6	17.3	V	566
(3017)	1997 08 02.26085	20 48 41.24	−02 30 50.0	16.9	V	566
(3017)	1997 08 02.27611	20 48 40.44	−02 30 51.6	17.0	V	566
(3119)	1997 08 02.51947	20 23 20.28	−21 04 29.7	18.7	V	566
(3119)	1997 08 02.52924	20 23 19.78	−21 04 31.8	19.1	V	566
(3119)	1997 08 02.53996	20 23 19.29	−21 04 34.2	18.8	V	566
(3220)	1997 08 01.60293	21 19 55.89	−27 50 23.6	16.0	V	566
(3220)	1997 08 01.61712	21 19 54.96	−27 50 27.3	16.1	V	566
(3220)	1997 08 01.62652	21 19 54.30	−27 50 30.2	16.1	V	566
(3220)	1997 08 02.53672	21 18 53.57	−27 54 51.2	15.8	V	566
(3220)	1997 08 02.54992	21 18 52.66	−27 54 54.7	15.9	V	566
(3220)	1997 08 02.55951	21 18 51.96	−27 54 57.2	15.9	V	566
(3452)	1997 08 03.58255	20 47 23.73	−22 14 55.7	16.5	V	566
(3452)	1997 08 03.58335	20 47 23.56	−22 14 54.1	16.7	V	566
(3452)	1997 08 03.59238	20 47 23.08	−22 14 58.4	16.4	V	566
(3452)	1997 08 03.59309	20 47 22.95	−22 14 56.5	16.7	V	566
(3452)	1997 08 03.60310	20 47 22.38	−22 15 00.8	16.7	V	566
(3452)	1997 08 03.60386	20 47 22.30	−22 14 59.7	16.8	V	566
(3486)	1997 08 03.58255	20 48 36.37	−23 16 47.6	17.6	V	566
(3486)	1997 08 03.59238	20 48 35.77	−23 16 49.4	17.6	V	566
(3486)	1997 08 03.60310	20 48 35.11	−23 16 52.4	17.8	V	566
(3588)	1997 08 01.55361	20 28 33.32	−22 59 23.7	17.6	V	566
(3588)	1997 08 01.56347	20 28 32.85	−22 59 24.3	17.9	V	566
(3588)	1997 08 01.57663	20 28 32.19	−22 59 26.1	18.1	V	566
(3664)	1997 08 02.28724	21 45 13.98	−08 23 54.5	16.9	V	566
(3664)	1997 08 02.29926	21 45 13.40	−08 23 55.7	16.7	V	566
(3664)	1997 08 02.31000	21 45 12.87	−08 23 57.1	16.7	V	566
(3766)	1997 08 01.49442	19 38 06.06	−21 06 48.7	18.0	V	566
(3766)	1997 08 01.50766	19 38 05.50	−21 06 50.1	18.1	V	566
(3766)	1997 08 01.51714	19 38 05.13	−21 06 50.9	18.0	V	566
(3818)	1997 08 03.53457	19 51 50.64	−17 15 48.7	16.5	V	566
(3818)	1997 08 03.54552	19 51 50.09	−17 15 49.6	16.6	V	566
(3818)	1997 08 03.55644	19 51 49.57	−17 15 50.7	16.6	V	566
(3832)	1997 08 03.52109	19 53 37.41	−22 28 53.6	17.2	V	566
(3832)	1997 08 03.53219	19 53 36.88	−22 28 55.1	17.3	V	566
(3832)	1997 08 03.54320	19 53 36.36	−22 28 57.3	17.7	V	566
(4011)	1997 08 03.58575	20 43 39.99	−20 20 07.8	17.4	V	566
(4011)	1997 08 03.59547	20 43 39.36	−20 20 10.1	17.5	V	566
(4011)	1997 08 03.60727	20 43 38.60	−20 20 12.9	17.4	V	566
(4115)	1997 08 03.59931	20 23 13.69	−05 09 01.2	17.2	V	566
(4115)	1997 08 03.61400	20 23 13.07	−05 09 03.7	17.7	V	566
(4115)	1997 08 03.62585	20 23 12.45	−05 09 05.6	17.8	V	566
(4118)	1997 08 03.38959	20 23 39.16	−19 38 06.3	16.3	V	566
(4118)	1997 08 03.40231	20 23 38.47	−19 38 06.5	16.2	V	566
(4118)	1997 08 03.41210	20 23 37.92	−19 38 06.9	16.4	V	566
(4193)	1997 08 03.53296	19 56 03.96	−20 27 54.6	16.6	V	566
(4193)	1997 08 03.54394	19 56 03.44	−20 27 56.6	16.7	V	566
(4193)	1997 08 03.55470	19 56 02.93	−20 27 57.9	16.7	V	566
(4292)	1997 08 02.59458	20 33 41.79	−20 11 58.4	16.5	V	566
(4292)	1997 08 02.60577	20 33 41.16	−20 11 59.5	16.7	V	566
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(4360)	1997 08 03.58575	20 45 05.16	−19 38 40.0	16.8	V	566
(4360)	1997 08 03.59547	20 45 04.59	−19 38 41.6	16.9	V	566
(4360)	1997 08 03.60727	20 45 03.90	−19 38 43.7	16.9	V	566
(4389)	1997 08 01.55508	20 21 49.95	−18 54 46.4	16.6	V	566
(4389)	1997 08 01.56924	20 21 49.21	−18 54 49.6	16.6	V	566
(4389)	1997 08 01.57888	20 21 48.73	−18 54 51.5	16.4	V	566
(4556)	1997 08 03.29882	15 42 50.86	−16 44 29.6	18.2	V	566
(4556)	1997 08 03.31161	15 42 51.38	−16 44 33.3	17.9	V	566
(4556)	1997 08 03.32226	15 42 51.82	−16 44 37.3	18.9	V	566

(4648)	1997 08 03.51947	19 59 29.93	−25 26 51.9	17.5	V	566	(6107)	1997 08 03.51864	20 05 30.74	−33 55 50.1	16.7	V	566
(4648)	1997 08 03.53057	19 59 29.20	−25 26 51.8	17.1	V	566	(6107)	1997 08 03.52988	20 05 29.85	−33 56 03.6	17.0	V	566
(4648)	1997 08 03.54071	19 59 28.50	−25 26 51.0	17.6	V	566	(6110)	1997 08 01.28746	16 00 03.38	−21 18 28.1	16.9	V	566
(4669)	1997 08 03.60556	04 05 24.82	+16 40 37.8	18.1	V	566	(6110)	1997 08 01.29746	16 00 04.24	−21 18 28.2	16.8	V	566
(4669)	1997 08 03.61893	04 05 26.52	+16 40 41.8	18.5	V	566	(6110)	1997 08 01.31090	16 00 05.38	−21 18 28.3	17.1	V	566
(4669)	1997 08 03.63181	04 05 28.14	+16 40 46.2	18.5	V	566	(6115)	1997 08 03.52109	19 53 32.51	−23 01 53.5	16.8	V	566
(4893)	1997 08 03.59465	20 33 26.13	−10 30 51.8	16.9	V	566	(6115)	1997 08 03.53219	19 53 31.78	−23 01 52.8	16.9	V	566
(4893)	1997 08 03.60644	20 33 25.55	−10 30 56.8	16.8	V	566	(6115)	1997 08 03.54320	19 53 31.07	−23 01 52.6	17.0	V	566
(4893)	1997 08 03.61977	20 33 25.01	−10 31 02.1	17.0	V	566	(6123)	1997 08 02.35219	16 44 38.82	−08 53 06.4	17.8	V	566
(5053)	1997 08 02.60014	20 24 37.29	−11 51 05.1	17.4	V	566	(6123)	1997 08 02.37133	16 44 38.99	−08 53 13.3	18.0	V	566
(5053)	1997 08 02.61149	20 24 36.67	−11 51 09.9	17.5	V	566	(6123)	1997 08 02.40139	16 44 39.30	−08 53 25.1	18.2	V	566
(5053)	1997 08 02.62547	20 24 35.88	−11 51 16.1	17.8	V	566	(6160)	1997 08 03.59617	20 32 43.12	−09 11 29.9	16.0	V	566
(5086)	1997 08 02.59758	20 28 04.97	−13 14 45.8	16.0	V	566	(6160)	1997 08 03.60804	20 32 42.43	−09 11 31.1	16.1	V	566
(5086)	1997 08 02.61078	20 28 04.20	−13 14 49.8	16.1	V	566	(6160)	1997 08 03.62137	20 32 41.72	−09 11 32.4	16.3	V	566
(5086)	1997 08 02.62480	20 28 03.41	−13 14 54.9	16.4	V	566	(6195)	1997 08 01.49673	19 36 32.02	−20 26 50.2	18.6	V	566
(5096)	1997 08 03.58335	20 46 26.48	−21 03 16.4	16.5	V	566	(6195)	1997 08 01.50988	19 36 31.28	−20 26 52.6	18.3	V	566
(5096)	1997 08 03.59309	20 46 25.83	−21 03 17.4	16.7	V	566	(6195)	1997 08 01.51948	19 36 30.81	−20 26 54.6	18.4	V	566
(5096)	1997 08 03.60386	20 46 25.16	−21 03 17.0	16.7	V	566	(6393)	1997 08 01.52952	20 37 16.50	−30 10 38.1	18.2	V	566
(5174)	1997 08 03.54855	19 44 28.26	−12 11 51.5	19.0	V	566	(6393)	1997 08 01.54157	20 37 15.88	−30 10 40.9	17.9	V	566
(5174)	1997 08 03.55972	19 44 27.72	−12 11 54.6	18.5	V	566	(6393)	1997 08 01.55123	20 37 15.42	−30 10 42.9	17.8	V	566
(5174)	1997 08 03.56988	19 44 27.26	−12 11 57.8	19.1	V	566	(6395)	1997 08 01.55744	20 16 48.44	−17 09 00.2	17.3	V	566
(5179)	1997 08 01.48913	19 40 26.64	−27 13 33.2	17.8	V	566	(6395)	1997 08 01.57063	20 16 47.64	−17 09 02.6	17.6	V	566
(5179)	1997 08 01.48984	19 40 26.58	−27 13 30.9	17.6	V	566	(6395)	1997 08 01.58052	20 16 47.04	−17 09 04.2	17.7	V	566
(5179)	1997 08 01.50020	19 40 26.00	−27 13 31.9	17.8	V	566	(6804)	1997 08 01.28821	16 06 06.89	−19 27 02.6	18.8	V	566
(5179)	1997 08 01.50093	19 40 25.83	−27 13 29.7	17.6	V	566	(6804)	1997 08 01.29821	16 06 07.10	−19 27 03.3	18.7	V	566
(5179)	1997 08 01.51252	19 40 25.23	−27 13 31.2	17.7	V	566	(6804)	1997 08 01.31169	16 06 07.47	−19 27 03.6	19.1	V	566
(5179)	1997 08 01.51325	19 40 25.09	−27 13 29.3	17.5	V	566	(6818)	1997 08 03.56907	20 46 53.49	−25 05 16.7	17.4	V	566
(5286)	1997 08 01.24791	15 17 22.93	−15 31 34.2	18.5	V	566	(6818)	1997 08 03.58112	20 46 52.67	−25 05 19.4	17.4	V	566
(5286)	1997 08 01.25751	15 17 23.23	−15 31 35.9	19.1	V	566	(6818)	1997 08 03.59079	20 46 52.03	−25 05 20.9	17.4	V	566
(5286)	1997 08 01.26912	15 17 23.59	−15 31 38.1	18.8	V	566	(6886)	1997 08 01.48984	19 37 40.56	−26 15 12.1	17.3	V	566
(5347)	1997 08 03.55013	19 43 12.36	−09 11 11.1	18.2	V	566	(6886)	1997 08 01.50093	19 37 39.94	−26 15 14.7	17.2	V	566
(5347)	1997 08 03.56047	19 43 11.87	−09 11 14.7	17.8	V	566	(6886)	1997 08 01.51325	19 37 39.23	−26 15 17.3	17.3	V	566
(5347)	1997 08 03.57056	19 43 11.54	−09 11 18.5	18.0	V	566	(6956)	1997 08 02.60014	20 24 51.92	−11 06 05.5	19.2	V	566
(5560)	1997 08 02.55177	19 50 35.56	−28 53 13.1	17.1	V	566	(6956)	1997 08 02.61149	20 24 51.31	−11 06 07.0	18.6	V	566
(5560)	1997 08 02.56173	19 50 34.88	−28 53 16.3	16.9	V	566	(6956)	1997 08 02.62547	20 24 50.52	−11 06 09.5	18.7	V	566
(5560)	1997 08 02.57296	19 50 34.23	−28 53 19.3	17.0	V	566	(6972)	1997 08 01.58275	20 10 20.25	−10 09 36.1	17.8	V	566
(5601)	1997 08 01.54963	20 30 34.06	−28 08 04.9	16.6	V	566	(6972)	1997 08 01.59376	20 10 19.60	−10 09 38.3	18.1	V	566
(5601)	1997 08 01.55966	20 30 33.34	−28 08 06.4	16.5	V	566	(6972)	1997 08 01.60365	20 10 19.12	−10 09 40.5	18.0	V	566
(5601)	1997 08 01.57212	20 30 32.46	−28 08 08.1	16.6	V	566	(6994)	1997 08 02.59458	20 33 55.30	−19 50 51.2	18.0	V	566
(5606)	1997 08 02.43428	20 16 23.92	−09 38 50.6	17.1	V	566	(6994)	1997 08 02.60577	20 33 54.75	−19 50 53.6	18.1	V	566
(5606)	1997 08 02.44621	20 16 23.22	−09 38 55.5	16.7	V	566	(6994)	1997 08 02.61936	20 33 54.09	−19 50 54.9	18.6	V	566
(5606)	1997 08 02.45651	20 16 22.62	−09 38 59.3	16.8	V	566	(7001)	1997 08 02.28654	21 50 48.24	−10 22 13.7	17.8	V	566
(5606)	1997 08 02.48347	20 16 20.97	−09 39 09.6	16.8	V	566	(7001)	1997 08 02.29778	21 50 47.72	−10 22 18.7	17.8	V	566
(5606)	1997 08 02.49338	20 16 20.39	−09 39 13.6	17.0	V	566	(7001)	1997 08 02.30919	21 50 47.28	−10 22 24.2	18.0	V	566
(5606)	1997 08 02.50371	20 16 19.78	−09 39 17.5	16.8	V	566	(7045)	1997 08 01.55211	20 25 55.58	−25 18 20.8	18.1	V	566
(5749)	1997 08 01.24648	15 10 23.97	−20 39 37.0	18.2	V	566	(7045)	1997 08 01.56194	20 25 54.89	−25 18 21.4	18.2	V	566
(5749)	1997 08 01.25609	15 10 24.35	−20 39 36.2	18.2	V	566	(7045)	1997 08 01.57520	20 25 54.04	−25 18 23.3	18.0	V	566
(5749)	1997 08 01.26754	15 10 24.74	−20 39 36.4	17.9	V	566	(7185)	1997 08 02.28791	22 01 38.08	−16 41 50.3	17.9	V	566
(6064)	1997 08 02.34949	16 42 31.66	−14 29 38.6	17.9	V	566	(7185)	1997 08 02.30053	22 01 37.61	−16 41 57.2	17.4	V	566
(6064)	1997 08 02.35960	16 42 32.08	−14 29 43.2	17.4	V	566	(7185)	1997 08 02.31074	22 01 37.15	−16 42 03.3	17.1	V	566
(6064)	1997 08 02.38700	16 42 33.17	−14 29 53.7	17.6	V	566	(7747)	1997 08 03.25780	14 55 54.20	−20 04 05.3	17.5	V	566
(6107)	1997 08 03.50883	20 05 31.54	−33 55 38.1	16.7	V	566	(7747)	1997 08 03.26739	14 55 54.95	−20 04 06.9	17.6	V	566

(7747)	1997 08 03.27713	14 55 55.77	−20 04 07.4	18.0 V	566
(7789)	1997 08 01.49442	19 34 48.68	−22 27 28.8	16.9 V	566
(7789)	1997 08 01.50766	19 34 47.86	−22 27 27.7	16.9 V	566
(7789)	1997 08 01.51714	19 34 47.27	−22 27 27.3	16.9 V	566

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Observers R. J. Whiteley, D. J. Tholen

Measurer D. J. Tholen

2.24-m telescope + CCD, 0.61-m telescope + CCD

USNO-A1.0

1995 UU_6	1997 02 09.59656	11 17 27.80	+04 00 49.6		568
1995 UU_6	1997 02 09.60140	11 17 27.57	+04 00 50.2		568
1995 UU_6	1997 02 10.59141	11 16 42.89	+04 03 32.5		568
1995 UU_6	1997 02 10.59491	11 16 42.72	+04 03 33.1		568
1995 UU_6	1997 05 30.28767	10 38 53.20	+05 45 43.2	22.9	568
1995 UU_6	1997 05 30.29417	10 38 53.46	+05 45 41.5	22.9	568
1997 MW_1	1997 07 16.31899	17 25 04.14	+01 52 29.1		568
1997 MW_1	1997 07 16.37043	17 24 55.50	+01 53 03.1		568
1997 MW_1	1997 07 17.31301	17 22 31.93	+02 03 04.7		568
1997 MW_1	1997 07 17.51087	17 22 00.65	+02 05 04.4		568
1997 NC_1	1997 07 16.28819	13 22 32.32	−27 44 22.7		568
1997 NC_1	1997 07 16.31594	13 22 33.83	−27 46 34.7		568
1997 NC_1	1997 07 17.26441	13 23 43.50	−29 01 51.0		568
1997 NC_1	1997 07 17.30360	13 23 45.63	−29 04 48.9		568

587 Sormano

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Observers M. Cavagna, E. Galliani, P. Sicoli, F. Manca, A. Testa, V. Giuliani

0.5-m reflector + CCD

GSC

1994 QC	1997 07 26.89120	17 30 05.19	+21 17 55.5		587
1994 QC	1997 07 26.89410	17 30 05.39	+21 17 46.6		587
1994 QC	1997 07 26.89959	17 30 05.73	+21 17 29.5		587
1994 QC	1997 07 29.91944	17 33 57.14	+18 45 42.1		587
1994 QC	1997 07 29.92274	17 33 57.31	+18 45 31.0		587
1996 DF_1	1997 07 26.90656	20 10 47.37	−22 13 54.8		587
1996 DF_1	1997 07 26.92383	20 10 46.34	−22 13 55.6		587
1996 DF_1	1997 07 26.96772	20 10 43.79	−22 13 56.5		587
1996 DF_1	1997 08 08.90874	19 59 48.28	−22 14 03.0		587
1996 DF_1	1997 08 08.92031	19 59 47.76	−22 14 02.6		587
1997 NP_{10}	1997 07 29.90926	21 20 48.07	+01 29 30.2		587
1997 NP_{10}	1997 07 29.93732	21 20 48.65	+01 29 40.8		587
1997 OJ	* 1997 07 26.90947	20 11 20.39	−21 53 11.2	17.5 V	587
1997 OJ	1997 07 26.93275	20 11 19.18	−21 53 15.6		587
1997 OJ	1997 07 26.98203	20 11 16.78	−21 53 22.9		587
1997 OJ	1997 07 27.88657	20 10 33.26	−21 55 45.4	p	587
1997 OJ	1997 07 27.90376	20 10 32.42	−21 55 48.4		587
1997 OJ	1997 07 29.87656	20 08 57.92	−22 00 51.2		587
1997 OJ	1997 07 29.89467	20 08 57.01	−22 00 54.6		587
1997 OJ	1997 08 01.91838	20 06 35.13	−22 08 15.1		587
1997 OJ	1997 08 01.92949	20 06 34.58	−22 08 16.4		587
1997 OJ	1997 08 08.83640	20 01 32.21	−22 22 50.1		587
1997 OJ	1997 08 08.86146	20 01 31.16	−22 22 53.8		587
1997 OK	* 1997 07 26.91270	20 10 17.98	−21 20 16.3	17.5 V	587
1997 OK	1997 07 26.93781	20 10 16.32	−21 20 07.4		587
1997 OK	1997 07 27.01337	20 10 11.47	−21 19 43.0		587
1997 OK	1997 07 27.88194	20 09 18.02	−21 14 54.7		587
1997 OK	1997 07 27.89213	20 09 17.31	−21 14 51.6		587
1997 OK	1997 07 27.90104	20 09 16.82	−21 14 48.1		587
1997 OK	1997 07 29.87210	20 07 15.95	−21 03 44.4		587
1997 OK	1997 07 29.88837	20 07 14.95	−21 03 39.4		587
1997 OK	1997 08 01.87388	20 04 16.15	−20 46 32.0		587
1997 OK	1997 08 01.91181	20 04 13.87	−20 46 19.6		587
1997 OK	1997 08 08.84184	19 57 51.99	−20 05 11.1		587
1997 OK	1997 08 08.85295	19 57 51.39	−20 05 07.2		587
1997 PN	1997 08 02.92731	20 24 45.50	−20 46 44.2		587
1997 PN	1997 08 02.93032	20 24 45.04	−20 46 24.7		587
1997 PN	1997 08 02.93594	20 24 44.30	−20 45 56.8		587
1997 PN	1997 08 03.89467	20 22 38.85	−19 15 59.3		587
1997 PN	1997 08 03.89815	20 22 38.31	−19 15 40.3		587
1997 PN	1997 08 03.90137	20 22 37.89	−19 15 22.5		587
1997 PO	1997 08 03.87638	20 13 59.33	−10 51 17.3		587
1997 PO	1997 08 03.88131	20 13 59.19	−10 51 27.9		587
1997 PO	1997 08 03.88495	20 13 59.08	−10 51 34.8		587
1997 PO	1997 08 08.87639	20 12 42.72	−13 29 18.4		587
1997 PO	1997 08 08.87986	20 12 42.63	−13 29 24.9		587
1997 PO	1997 08 08.88403	20 12 42.56	−13 29 32.7		587
1997 PO	1997 08 10.86204	20 12 20.01	−14 31 03.1		587
1997 PP	1997 08 03.93990	21 19 30.57	−27 36 50.8		587
1997 PP	1997 08 03.95000	21 19 30.19	−27 36 51.4		587

589 Santa Lucia Stroncone

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Observers A. Vagnozzi, G. Bernabei, V. Risoldi, E. Gregori, F. Lombardi

0.50-m $f/2.8$ Ritchey-Chrétien + CCD

GSC

1993 SO_2	1997 07 08.88199	20 35 23.07	−07 00 01.3	18.2 V	I	589
1993 SO_2	1997 07 08.88939	20 35 22.81	−07 00 02.1			589
1993 SO_2	1997 07 08.90138	20 35 22.22	−07 00 01.9			589
1993 SO_2	1997 07 12.88841	20 32 25.36	−07 05 55.1	17.2 V		589
1993 SO_2	1997 07 12.89638	20 32 25.07	−07 05 56.7			589
1993 SO_2	1997 07 12.91059	20 32 24.38	−07 05 58.5			589
1994 WU_1	1997 07 12.92178	22 17 51.27	+05 12 01.7	17.6 V		589
1994 WU_1	1997 07 12.93080	22 17 51.28	+05 11 59.3			589
1994 WU_1	1997 07 12.94406	22 17 51.27	+05 11 58.7			589
1994 WU_1	1997 07 12.96466	22 17 51.28	+05 11 56.1			589
1996 DO_1	1997 07 02.87443	16 35 59.96	−30 10 45.8	17.5 V		589
1996 DO_1	1997 07 02.88491	16 35 59.59	−30 10 42.3			589
1996 DO_1	1997 07 02.89362	16 35 59.30	−30 10 39.0			589
1996 DO_1	1997 07 12.83786	16 32 10.14	−29 09 11.9			589
1996 DO_1	1997 07 12.84779	16 32 09.91	−29 09 08.0	17.3 V		589
1996 DO_1	1997 07 12.86051	16 32 09.79	−29 09 04.5			589

1996 DO_1	1997 07 12.87251	16 32 09.55	−29 08 59.8		589
(1966)	1997 07 01.84262	13 41 49.74	−07 16 40.4	19.0 V	589
(1966)	1997 07 01.86206	13 41 50.42	−07 16 47.2		589
(7714)	1997 07 01.87324	15 55 54.65	−20 36 23.2	18.5 V	589
(7714)	1997 07 01.88665	15 55 54.39	−20 36 22.1		589

595 Farra d'Isonzo

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

Measurers E. Pettarin, A. Toso

0.4-m $f/4.5$ reflector + CCD

GSC

1993 WA	1997 07 13.85168	16 32 42.20	+00 56 42.0		595
1993 WA	1997 07 13.89128	16 32 41.28	+00 56 37.8		595
1994 XQ	1997 07 31.00194	20 20 22.20	−09 29 44.9	16.4 V	595
1994 XQ	1997 07 31.02971	20 20 20.66	−09 29 53.4		595
1997 MQ_1	1997 07 24.89856	18 50 34.02	−12 15 50.8		595
1997 MQ_1	1997 07 24.94547	18 50 31.75	−12 16 00.0		595
1997 NB_1	1997 07 26.92796	19 08 49.34	−27 12 26.6		595
1997 NB_1	1997 07 26.96037	19 08 47.69	−27 12 27.9		595
1997 NQ_2	1997 07 24.88578	20 01 21.52	−03 21 23.6		595
1997 NQ_2	1997 07 24.90800	20 01 20.19	−03 21 19.9		595
1997 NK_6	1997 07 24.92330	20 07 05.82	−09 30 46.8		595
1997 NK_6	1997 07 24.93617	20 07 05.17	−09 30 49.8		595
1997 NL_6	1997 07 22.87394	20 10 49.32	−10 13 36.5		595
1997 NL_6	1997 07 22.92153	20 10 46.75	−10 13 49.7		595
1997 OV_1	1997 07 30.01503	20 40 01.15	−08 11 04.5		595
1997 OV_1	∗ 1997 07 30.03223	20 40 00.12	−08 11 06.6	19.5 V	595
1997 OV_1	1997 07 30.86745	20 39 11.59	−08 12 38.7		595
1997 OV_1	1997 07 30.89037	20 39 10.23	−08 12 41.4		595
1997 OW_1	1997 07 30.95799	20 40 12.30	−08 21 34.3		595
1997 OW_1	∗ 1997 07 30.97944	20 40 11.24	−08 21 35.6		595
1997 OW_1	1997 08 01.85720	20 38 38.77	−08 23 36.6	17.3 V	595
1997 OW_1	1997 08 01.87013	20 38 38.09	−08 23 38.1		595
1997 OW_1	1997 08 08.88863	20 32 56.56	−08 33 34.3		595
1997 OW_1	1997 08 08.90500	20 32 55.74	−08 33 35.9		595
1997 OX_1	1997 07 31.01163	20 20 04.62	−09 07 12.7		595
1997 OX_1	∗ 1997 07 31.02572	20 20 04.00	−09 07 19.1	17.7 V	595
1997 OX_1	1997 08 01.86306	20 18 50.16	−09 21 45.1		595
1997 OX_1	1997 08 01.87499	20 18 49.62	−09 21 50.5		595
1997 OX_1	1997 08 08.88104	20 14 28.31	−10 21 18.0		595
1997 OX_1	1997 08 08.89856	20 14 27.68	−10 21 27.6		595

596 Colleverde di Guidonia

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0.40-m $f/2.95$ reflector + CCD

GSC

1976 GL_8	1993 08 12.81546	20 17 53.11	−12 10 26.7		596
1976 GL_8	1993 08 12.83726	20 17 51.83	−12 10 23.3		596
1976 GL_8	1993 08 12.85580	20 17 50.98	−12 10 28.0		596
1997 NQ	1997 07 04.91150	20 02 05.04	+00 38 42.0	16.9 V	596
1997 NQ	1997 07 04.92516	20 02 04.55	+00 38 43.8		596
1997 NQ	1997 07 04.93581	20 02 04.06	+00 38 45.6		596
1997 NQ	1997 07 08.86748	19 59 10.85	+00 47 46.6	17.1 V	596
1997 NQ	1997 07 08.87488	19 59 10.52	+00 47 47.2		596
1997 NQ	1997 07 08.88409	19 59 10.06	+00 47 47.7		596
1997 NQ	1997 07 15.87704	19 53 33.93	+00 54 12.5	16.8 V	596
1997 NQ	1997 07 15.88303	19 53 33.63	+00 54 13.2		596
1997 NQ	1997 07 15.89154	19 53 33.20	+00 54 12.0		596

599 Campo Imperatore-CINEOS

A. Carusi, Istituto Astrofisica Spaziale–Planetogia, Viale Universitá 11, I-00185 Rome, Italy [carusi@saturn.ias.fra.cnr.it]

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

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

0.60-m $f/3$ Schmidt + CCD

1997 NJ_{10}	∗	1997 07 10.00312	21 19 49.90	−04 48 10.8	18.2 V	599
1997 NJ_{10}		1997 07 10.01366	21 19 49.57	−04 48 12.0		599
1997 NK_{10}	∗	1997 07 10.02075	21 16 26.39	+00 42 58.5	18.1 V	599
1997 NK_{10}		1997 07 10.04375	21 16 25.71	+00 42 55.2		599
1997 NL_{10}	∗	1997 07 10.02075	21 19 36.91	+01 01 51.0	18.7 V	599
1997 NL_{10}		1997 07 10.04375	21 19 36.30	+01 01 51.9		599
1997 NO_{10}	∗	1997 07 10.06743	01 06 22.41	+03 03 28.3	18.9 V	599
1997 NO_{10}		1997 07 10.08528	01 06 23.76	+03 03 36.2		599

606 Norderstedt

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

GSC

(751)	1997 01 01.93911	02 05 40.62	+03 55 45.5	12.9 R	606
(751)	1997 01 01.94166	02 05 40.69	+03 55 47.4	12.9 R	606
(751)	1997 01 01.94524	02 05 40.79	+03 55 50.3	12.9 R	606
(751)	1997 01 01.94878	02 05 40.90	+03 55 53.0	12.9 R	606
(751)	1997 01 01.95226	02 05 41.01	+03 55 55.8	12.9 R	606
(751)	1997 01 01.95503	02 05 41.07	+03 55 57.7	12.9 R	606
(4435)	1997 02 02.13361	06 36 21.90	+50 06 44.6	15.0 R	606
(4435)	1997 02 02.13981	06 36 21.92	+50 06 31.8	15.0 R	606
(4435)	1997 02 02.14329	06 36 21.96	+50 06 24.9	15.2 R	606
(4435)	1997 02 02.15370	06 36 21.98	+50 06 03.4	15.1 R	606
(4435)	1997 02 02.15718	06 36 22.00	+50 05 56.4	15.0 R	606
(4435)	1997 02 02.16065	06 36 22.01	+50 05 49.3	15.1 R	606
(4547)	1997 01 01.97493	02 12 23.37	+37 22 31.9		606
(4547)	1997 01 01.98241	02 12 23.41	+37 22 29.5	15.6 R	606
(4547)	1997 01 01.98646	02 12 23.46	+37 22 28.2	15.6 R	606
(4547)	1997 01 01.99266	02 12 23.61	+37 22 27.1	15.6 R	606
(4547)	1997 01 02.02028	02 12 24.13	+37 22 19.4	15.7 R	606
(4547)	1997 01 02.02655	02 12 24.26	+37 22 18.0	15.6 R	606
(4547)	1997 01 02.03280	02 12 24.35	+37 22 16.1	15.5 R	606
(4547)	1997 01 02.04411	02 12 24.59	+37 22 13.6	15.7 R	606

608 Haleakala-AMOS

P. Kervin, Air Force Maui Optical Station, 535 Lipoa Parkway, Suite 200, Kihei, Maui, HI 96753, U.S.A. [paul@ulua.mhpcc.af.mil]

E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.
[efh@temblor.jpl.nasa.gov]
Observers A. Alday, K. Moore, M. Tranilla, T. Goggia, A. Sylva
Measurers D. O'Connell, P. Kervin, B. Kraszewski, V. Soo Hoo, B. Africano, J. Africano, P. Sydney, D. Nishimoto, A. Angara, B. McCartney, B. McCarthy
1.2-m reflector + CCD

1989 TT	1997 07 24.36260	21 30 21.39	+04 24 41.0	17.1	R	608
1989 TT	1997 07 24.40112	21 30 20.01	+04 24 29.7	17.1	R	608
1990 QO	1997 07 05.48769	20 39 49.35	+05 22 49.6	16.9	R	608
1990 QO	1997 07 05.53641	20 39 47.35	+05 22 42.5	17.0	R	608
1990 QO	1997 07 12.45547	20 34 46.44	+04 58 23.0	17.4	R	608
1990 QO	1997 07 12.49542	20 34 44.43	+04 58 12.1	17.4	R	608
1990 QO	1997 07 13.45024	20 33 58.17	+04 53 35.5	16.5	R	608
1990 QO	1997 07 13.49561	20 33 55.83	+04 53 21.6	17.2	R	608
1990 QO	1997 07 14.44295	20 33 08.80	+04 48 28.4	17.4	R	608
1990 QO	1997 07 14.48164	20 33 06.75	+04 48 16.0	17.4	R	608
1990 QO	1997 07 27.34728	20 21 04.22	+03 11 12.4	16.7	R	608
1990 QO	1997 07 27.38859	20 21 01.62	+03 10 48.5	17.1	R	608
1991 TL_1	1997 07 24.32395	15 18 40.82	+00 22 55.2	18.6	R	608
1991 TL_1	1997 07 24.34908	15 18 41.10	+00 22 49.1	18.5	R	608
1991 TL_1	1997 07 27.31080	15 19 23.17	+00 10 14.5	18.3	R	608
1991 TL_1	1997 07 27.35643	15 19 23.74	+00 10 03.4	18.3	R	608
1992 WY_4	1997 07 24.38027	22 15 54.19	+16 49 25.5	16.9	R	608
1992 WY_4	1997 07 24.40956	22 15 52.91	+16 49 46.3	16.8	R	608
1996 FW_4	1997 07 05.45232	19 30 27.07	−23 53 03.2	17.3	R	608
1996 FW_4	1997 07 05.50448	19 30 24.43	−23 53 09.9	17.3	R	608
1996 FW_4	1997 07 12.43247	19 24 38.73	−24 08 08.5	17.5	R	608
1996 FW_4	1997 07 12.48557	19 24 35.99	−24 08 14.8	17.4	R	608
1996 FW_4	1997 07 13.44053	19 23 48.24	−24 10 11.0	17.5	R	608
1996 FW_4	1997 07 13.47796	19 23 46.31	−24 10 15.5	17.5	R	608
1997 NJ_6	1997 07 12.41051	16 21 19.38	−07 08 07.1	21.4	R	608
1997 NJ_6	1997 07 12.43494	16 21 18.33	−07 07 43.4	21.1	R	608
(305)	1997 07 14.46622	22 07 44.21	−05 49 17.1	14.8	R	608
(305)	1997 07 14.52021	22 07 42.90	−05 49 21.3	14.8	R	608
(513)	1997 07 14.46493	22 06 33.58	−01 24 19.8	14.3	R	608
(513)	1997 07 14.51896	22 06 32.50	−01 24 23.7	14.4	R	608
(1094)	1997 07 13.49111	22 40 04.75	−06 12 28.7	16.7	R	608
(1094)	1997 07 13.53694	22 40 04.34	−06 12 41.0	16.7	R	608
(1094)	1997 07 14.47896	22 39 57.17	−06 16 59.0	16.7	R	608
(1094)	1997 07 14.52539	22 39 56.71	−06 17 12.1	16.8	R	608
(1102)	1997 07 14.47007	22 57 36.64	+14 03 37.7	13.4	R	608
(1102)	1997 07 14.53030	22 57 36.76	+14 03 54.4	13.9	R	608
(1373)	1997 07 12.43928	20 04 24.92	−22 17 39.2	16.2	R	608
(1373)	1997 07 12.48872	20 04 21.46	−22 17 23.2	16.4	R	608
(1373)	1997 07 13.44374	20 03 15.98	−22 12 07.5	16.6	R	608
(1373)	1997 07 13.48393	20 03 13.14	−22 11 54.2	16.6	R	608
(1466)	1997 07 13.47957	22 15 47.05	−03 37 03.9	16.1	R	608
(1466)	1997 07 13.53312	22 15 46.11	−03 37 21.0	15.9	R	608
(1466)	1997 07 14.46751	22 15 31.38	−03 42 33.8	15.8	R	608
(1466)	1997 07 14.52152	22 15 30.34	−03 42 52.3	15.7	R	608
(1943)	1997 07 12.48737	22 27 16.32	+16 00 29.7	15.5	R	608
(1943)	1997 07 12.51272	22 27 15.11	+16 00 51.4	15.4	R	608
(1943)	1997 07 13.48119	22 26 34.06	+16 14 00.3	15.3	R	608
(1943)	1997 07 13.53445	22 26 31.27	+16 14 43.2	15.3	R	608
(1980)	1997 07 05.44356	18 27 32.36	+30 04 44.6	14.8	R	608
(1980)	1997 07 05.47673	18 27 28.32	+30 06 22.3	14.4	R	608
(1980)	1997 07 24.35977	17 50 46.53	+42 24 38.2	13.7	R	608
(1980)	1997 07 24.39828	17 50 41.98	+42 25 44.1	13.8	R	608
(1980)	1997 07 27.34038	17 45 29.68	+43 46 11.9	14.3	R	608
(1980)	1997 07 27.38391	17 45 24.79	+43 47 18.9	14.0	R	608
(2966)	1997 07 13.49758	23 16 37.09	−08 37 47.9	17.1	R	608
(2966)	1997 07 13.54404	23 16 37.31	−08 37 50.5	16.9	R	608
(2966)	1997 07 14.48771	23 16 41.29	−08 38 33.3	17.4	R	608
(3040)	1997 07 05.42560	17 00 42.11	+41 04 10.7	17.3	R	608
(3040)	1997 07 05.44977	17 00 40.56	+41 03 43.6	17.3	R	608
(3040)	1997 07 24.33929	16 47 31.40	+34 06 54.2	17.4	R	608
(3529)	1997 07 05.48957	21 19 06.33	−10 58 04.7	17.8	R	608
(3529)	1997 07 05.53805	21 19 05.21	−10 58 06.4	17.7	R	608
(3529)	1997 07 12.46833	21 16 01.78	−11 05 50.5	18.3	R	608
(3529)	1997 07 12.50131	21 16 00.78	−11 05 53.4	18.1	R	608
(3529)	1997 07 13.45784	21 15 29.22	−11 07 35.4	18.0	R	608
(3529)	1997 07 13.51519	21 15 27.11	−11 07 41.8	18.1	R	608
(3529)	1997 07 14.45163	21 14 54.80	−11 09 31.6	18.1	R	608
(3529)	1997 07 14.49539	21 14 53.18	−11 09 36.2	18.1	R	608
(4034)	1997 07 13.51882	23 58 32.04	+11 09 11.9	19.2	R	608
(4034)	1997 07 13.54036	23 58 35.47	+11 09 29.5	19.4	R	608
(4034)	1997 07 14.51313	00 01 17.98	+11 22 21.2	19.5	R	608
(4034)	1997 07 14.52866	00 01 20.46	+11 22 33.3	19.5	R	608
(4168)	1997 07 05.50909	21 49 27.84	−18 26 08.7	18.6	R	608
(4168)	1997 07 05.55603	21 49 26.33	−18 26 12.0	18.6	R	608
(4168)	1997 07 13.47158	21 44 44.39	−18 36 54.3	19.9	R	608
(4168)	1997 07 13.53033	21 44 41.92	−18 36 59.6	19.6	R	608
(4168)	1997 07 14.46242	21 44 03.53	−18 38 27.9	19.8	R	608
(4168)	1997 07 14.51630	21 44 01.21	−18 38 33.2	19.9	R	608
(4209)	1997 07 05.53208	22 37 32.54	−15 09 51.1	15.3	R	608
(4209)	1997 07 05.56033	22 37 32.16	−15 09 45.3	15.6	R	608
(4209)	1997 07 13.48251	22 35 02.42	−14 45 09.1	16.4	R	608
(4209)	1997 07 13.53570	22 35 01.05	−14 45 00.5	16.6	R	608
(4209)	1997 07 14.47134	22 34 37.22	−14 42 21.4	16.6	R	608
(4209)	1997 07 14.52415	22 34 35.76	−14 42 12.8	16.5	R	608
(4257)	1997 07 05.44139	18 06 37.54	+37 02 37.0	19.6	R	608
(4257)	1997 07 05.47893	18 06 34.29	+37 02 20.7	19.7	R	608
(4257)	1997 07 12.42260	17 57 07.88	+36 00 51.7	19.7	R	608
(4257)	1997 07 12.45998	17 57 04.89	+36 00 27.9	20.0	R	608
(4257)	1997 07 13.43346	17 55 50.19	+35 49 59.2	20.0	R	608
(4257)	1997 07 13.47531	17 55 46.94	+35 49 31.4	19.9	R	608
(4341)	1997 07 24.32869	15 45 43.71	−12 21 42.1	18.9	R	608
(4341)	1997 07 24.36948	15 45 44.79	−12 22 05.8	18.9	R	608
(4660)	1997 07 13.44809	20 17 53.72	−20 34 45.6	21.3	R	608
(4660)	1997 07 13.48874	20 17 49.53	−20 34 56.6	21.0	R	608
(5143)	1997 07 13.51353	23 04 35.76	−02 53 13.5	16.9	R	608
(5143)	1997 07 13.53855	23 04 33.77	−02 53 18.2	16.9	R	608
(5143)	1997 07 14.48957	23 03 19.80	−02 56 34.4	17.4	R	608

(5143)	1997 07 14.52683	23 03 16.76	−02 56 42.6	17.5 R	608
(5332)	1997 07 24.33583	15 52 18.43	+09 35 10.2	19.9 R	608
(5332)	1997 07 24.37387	15 52 18.25	+09 34 46.2	19.6 R	608
(5647)	1997 07 12.46383	21 14 40.07	+15 16 30.2	16.8 R	608
(5647)	1997 07 12.49839	21 14 38.56	+15 16 40.7	16.7 R	608
(5732)	1997 07 14.44874	21 12 51.44	+15 22 17.6	19.4 R	608
(5732)	1997 07 14.48462	21 12 49.65	+15 22 24.7	19.4 R	608
(5732)	1997 07 25.47237	21 03 04.39	+15 44 12.6	19.0 R	608
(5732)	1997 07 25.50562	21 03 02.46	+15 44 13.4	19.0 R	608
(5869)	1997 07 12.41388	17 14 55.39	−02 46 03.5	21.4 R	608
(5869)	1997 07 12.44469	17 14 53.71	−02 46 02.4	21.8 R	608
(6411)	1997 07 12.44159	20 13 43.43	+06 22 20.3	17.7 R	608
(6411)	1997 07 12.49066	20 13 40.98	+06 22 07.5	17.9 R	608
(6411)	1997 07 13.44561	20 12 54.00	+06 17 48.2	17.4 R	608
(6411)	1997 07 13.48582	20 12 51.94	+06 17 37.1	18.0 R	608
(6411)	1997 07 14.44096	20 12 04.38	+06 13 04.4	18.1 R	608
(6411)	1997 07 14.47667	20 12 02.54	+06 12 54.2	17.9 R	608
(7482)	1997 07 05.44740	19 06 02.00	+06 22 42.5	15.9 R	608
(7482)	1997 07 05.48601	19 05 55.63	+06 20 03.6	16.0 R	608
(7482)	1997 07 12.43081	18 48 33.35	−01 37 15.9	17.8 R	608
(7482)	1997 07 12.45715	18 48 29.42	−01 39 03.2	17.9 R	608
(7482)	1997 07 13.43892	18 46 12.38	−02 45 16.4	17.2 R	608
(7482)	1997 07 13.45615	18 46 09.88	−02 46 25.4	16.9 R	608

610 Pianoro

V. Goretti, Via Resistenza 93, I-40065 Pianoro (BO), Italy
[astrofil@astbo1.bo.cnr.it]

Observers V. Goretti, A. Boattini
Measurer V. Goretti
0.25-m $f/4$ Schmidt-Cassegrain + CCD
GSC

1966 CM	1997 07 01.93439	17 51 11.64	−04 58 41.4	16.6 V	610
1966 CM	1997 07 01.93924	17 51 11.33	−04 58 43.3		610
1966 CM	1997 07 01.94410	17 51 11.01	−04 58 45.2		610
1966 CM	1997 07 03.92897	17 49 32.89	−05 07 17.1	16.6 V	610
1966 CM	1997 07 03.93956	17 49 32.31	−05 07 19.0		610
1966 CM	1997 07 03.95043	17 49 31.72	−05 07 20.9		610
1966 CM	1997 07 06.91706	17 47 10.16	−05 21 06.9	16.6 V	610
1966 CM	1997 07 06.92442	17 47 09.81	−05 21 09.2		610
1966 CM	1997 07 06.93119	17 47 09.48	−05 21 11.3		610
1966 CM	1997 07 08.86760	17 45 41.23	−05 30 46.5	16.7 V	610
1966 CM	1997 07 08.87594	17 45 40.84	−05 30 49.3		610
1966 CM	1997 07 08.88426	17 45 40.45	−05 30 52.1		610
1966 CM	1997 07 12.87296	17 42 50.12	−05 51 59.2	16.7 V	610
1966 CM	1997 07 12.88126	17 42 49.78	−05 52 02.1		610
1966 CM	1997 07 12.88956	17 42 49.44	−05 52 05.0		610
1971 UM	1997 07 02.02421	20 27 24.19	−24 00 18.3	17.0 V	610
1971 UM	1997 07 02.03113	20 27 23.95	−24 00 19.5		610
1971 UM	1997 07 02.03808	20 27 23.70	−24 00 20.6		610
1971 UM	1997 07 07.02221	20 23 47.33	−24 19 07.7	17.0 V	610
1971 UM	1997 07 07.02708	20 23 47.08	−24 19 08.8		610
1971 UM	1997 07 07.03211	20 23 46.81	−24 19 09.9		610
1971 UM	1997 07 09.03712	20 22 08.99	−24 26 49.3	17.0 V	610
1971 UM	1997 07 09.04060	20 22 08.79	−24 26 50.2		610
1971 UM	1997 07 09.04406	20 22 08.59	−24 26 51.0		610
1971 UM	1997 07 13.00978	20 18 39.79	−24 41 58.9	17.0 V	610
1971 UM	1997 07 13.01391	20 18 39.53	−24 41 59.8		610
1971 UM	1997 07 13.01806	20 18 39.27	−24 42 00.6		610
1976 GL_8	1997 07 01.97520	19 32 53.75	−18 45 23.4	15.0 V	610
1976 GL_8	1997 07 01.97868	19 32 53.54	−18 45 22.9		610
1976 GL_8	1997 07 01.98214	19 32 53.34	−18 45 22.3		610
1976 GL_8	1997 07 06.95013	19 28 12.80	−18 34 11.7	14.7 V	610
1976 GL_8	1997 07 06.95637	19 28 12.41	−18 34 10.8		610
1976 GL_8	1997 07 06.96262	19 28 12.03	−18 34 09.8		610
1976 GL_8	1997 07 09.02038	19 26 12.73	−18 29 46.9	14.8 V	610
1976 GL_8	1997 07 09.02387	19 26 12.52	−18 29 46.3		610
1976 GL_8	1997 07 09.02733	19 26 12.31	−18 29 45.6		610
1976 GL_8	1997 07 12.92294	19 22 25.98	−18 21 53.0	14.7 V	610
1976 GL_8	1997 07 12.93340	19 22 25.29	−18 21 51.6		610
1976 GL_8	1997 07 12.94205	19 22 24.73	−18 21 50.4		610
1985 UF_3	1997 07 08.94119	19 22 49.81	−01 10 04.2	16.1 V	610
1985 UF_3	1997 07 08.94605	19 22 49.60	−01 10 04.9		610
1985 UF_3	1997 07 08.95091	19 22 49.39	−01 10 05.7		610
1985 UF_3	1997 07 12.92027	19 19 18.13	−01 15 37.6	16.0 V	610
1985 UF_3	1997 07 12.93073	19 19 17.60	−01 15 38.9		610
1985 UF_3	1997 07 12.93921	19 19 17.16	−01 15 40.0		610
1995 DK_1	1997 07 02.06446	22 26 21.52	−11 51 13.5	16.6 V	610
1995 DK_1	1997 07 02.07139	22 26 21.44	−11 51 15.0		610
1995 DK_1	1997 07 02.07835	22 26 21.36	−11 51 16.6		610
1995 DK_1	1997 07 07.04506	22 25 43.18	−12 10 16.5	16.7 V	610
1995 DK_1	1997 07 07.04990	22 25 43.15	−12 10 18.1		610
1995 DK_1	1997 07 07.05477	22 25 43.11	−12 10 19.7		610
1995 DK_1	1997 07 09.05791	22 25 20.01	−12 18 48.6	16.7 V	610
1995 DK_1	1997 07 09.06276	22 25 19.89	−12 18 50.1		610
1995 DK_1	1997 07 09.06762	22 25 19.77	−12 18 51.6		610
1997 OB_1	1997 07 31.01372	21 03 31.69	−11 18 17.0	17.9 V	610
1997 OB_1	1997 07 31.01924	21 03 31.39	−11 18 18.8		610
1997 OB_1	1997 07 31.02479	21 03 31.10	−11 18 20.5		610
1997 OC_1	1997 07 30.97061	21 02 55.10	−11 36 18.0	17.7 V	610
1997 OC_1	1997 07 30.97615	21 02 54.86	−11 36 20.5		610
1997 OC_1	1997 07 30.98167	21 02 54.62	−11 36 23.1		610
1997 OD_1	1997 07 30.94269	21 02 55.90	−11 44 01.7	15.6 V	610
1997 OD_1	1997 07 30.94822	21 02 55.64	−11 44 04.6		610
1997 OD_1	1997 07 30.95375	21 02 55.37	−11 44 07.5		610
(2953)	1997 07 07.96556	19 45 03.29	−20 09 31.6	15.4 V	610
(2953)	1997 07 07.97042	19 45 03.04	−20 09 32.5		610
(2953)	1997 07 07.97528	19 45 02.78	−20 09 33.3		610
(3698)	1997 07 06.95013	19 27 56.91	−18 30 30.8	14.4 V	610
(3698)	1997 07 06.95637	19 27 56.56	−18 30 32.5		610
(3698)	1997 07 06.96262	19 27 56.21	−18 30 34.2		610
(4695)	1997 07 01.93924	17 51 36.94	−04 54 55.8	16.6 V	610
(4695)	1997 07 01.94410	17 51 36.69	−04 54 56.2		610
(4695)	1997 07 01.94896	17 51 36.45	−04 54 56.7		610
(4695)	1997 07 03.93247	17 49 59.48	−04 58 25.8	16.6 V	610
(4695)	1997 07 03.94235	17 49 59.00	−04 58 26.4		610

(4695)	1997 07 03.95321	17 49 58.48	−04 58 27.0		610
(4897)	1997 06 14.91852	17 56 42.58	−06 19 12.1	15.3 V	610
(4897)	1997 06 14.92800	17 56 42.09	−06 19 11.2		610
(4897)	1997 06 14.93715	17 56 41.62	−06 19 10.3		610
(4897)	1997 06 23.96365	17 49 34.49	−06 09 25.9	15.5 V	610
(4897)	1997 06 23.97293	17 49 34.03	−06 09 25.9		610
(4897)	1997 06 23.98539	17 49 33.41	−06 09 25.9		610
(4897)	1997 07 06.91331	17 40 00.82	−06 17 21.5		610
(4897)	1997 07 06.92159	17 40 00.47	−06 17 22.2		610
(4897)	1997 07 06.92789	17 40 00.21	−06 17 22.8		610
(7723)	1997 07 01.99586	19 32 20.48	−20 40 26.5	16.6 V	610
(7723)	1997 07 02.00137	19 32 20.17	−20 40 27.8		610
(7723)	1997 07 02.00691	19 32 19.86	−20 40 29.1		610
(7723)	1997 07 06.94735	19 27 18.45	−21 10 07.7	16.4 V	610
(7723)	1997 07 06.95359	19 27 18.05	−21 10 10.0		610
(7723)	1997 07 06.95985	19 27 17.65	−21 10 12.4		610
(7723)	1997 07 08.97111	19 25 07.58	−21 22 38.9	16.2 V	610
(7723)	1997 07 08.97596	19 25 07.27	−21 22 40.6		610
(7723)	1997 07 08.98083	19 25 06.95	−21 22 42.3		610
(7723)	1997 07 12.93595	19 20 43.15	−21 47 33.8	16.1 V	610
(7723)	1997 07 12.94444	19 20 42.56	−21 47 36.7		610
(7723)	1997 07 12.95201	19 20 42.03	−21 47 39.2		610
(7729)	1997 06 06.94421	16 56 14.89	−17 48 54.6	14.6 V	610
(7729)	1997 06 06.96017	16 56 13.84	−17 48 57.8		610
(7729)	1997 06 06.97544	16 56 12.84	−17 49 00.9		610
(7729)	1997 06 23.93797	16 39 38.00	−18 55 24.5	15.0 V	610
(7729)	1997 06 23.94282	16 39 37.74	−18 55 25.7		610
(7729)	1997 06 23.94770	16 39 37.48	−18 55 26.9		610
(7729)	1997 07 03.90674	16 32 50.52	−19 42 06.4	15.5 V	610
(7729)	1997 07 03.91160	16 32 50.38	−19 42 08.2		610
(7729)	1997 07 03.91646	16 32 50.25	−19 42 10.0		610
(7736)	1997 06 14.87492	16 15 27.65	+02 15 23.6	15.4 V	610
(7736)	1997 06 14.89039	16 15 26.85	+02 15 23.8		610
(7736)	1997 06 14.90197	16 15 26.26	+02 15 24.0		610
(7736)	1997 06 23.91354	16 09 19.03	+02 08 18.5	15.4 V	610
(7736)	1997 06 23.91909	16 09 18.83	+02 08 17.7		610
(7736)	1997 06 23.92465	16 09 18.63	+02 08 16.9		610
(7736)	1997 06 27.92091	16 07 09.15	+01 58 19.4	15.5 V	610
(7736)	1997 06 27.92785	16 07 08.89	+01 58 18.4		610
(7736)	1997 06 27.93479	16 07 08.63	+01 58 17.3		610
(7736)	1997 07 03.88108	16 04 40.74	+01 36 18.7	15.6 V	610
(7736)	1997 07 03.88663	16 04 40.61	+01 36 17.4		610
(7736)	1997 07 03.89219	16 04 40.47	+01 36 16.0		610
(7736)	1997 07 07.88148	16 03 33.62	+01 17 09.7	15.6 V	610
(7736)	1997 07 07.88843	16 03 33.50	+01 17 07.7		610
(7736)	1997 07 07.89093	16 03 33.45	+01 17 06.9		610

611 Starkenburg Sternwarte, Heppenheim
M. Busch, Giessener Strasse 4, D-64646 Heppenheim, Germany [mab@iez.com]
Observers M. Busch, F. Hormuth, L. Kurtze, K. Sonnenberg
Measurer M. Busch
0.45-m $f/4.4$ reflector + CCD
GSC

1991 RK_7	1997 08 09.95903	22 20 00.03	−05 24 10.3		611
1991 RK_7	1997 08 10.03333	22 19 55.60	−05 24 21.6	17.0 R	611
1991 RK_7	1997 08 10.05139	22 19 54.52	−05 24 24.5	16.0 R	611
1991 RK_7	1997 08 10.89375	22 19 06.54	−05 26 36.3	16.0 R	611
1991 RK_7	1997 08 10.91944	22 19 04.95	−05 26 40.6	16.3 R	611
1997 PK_2	* 1997 08 09.95903	22 19 22.19	−05 19 57.5	16.8 R	611
1997 PK_2	1997 08 09.96181	22 19 20.92	−05 19 57.2		611
1997 PK_2	1997 08 10.05139	22 19 17.21	−05 19 56.5	17.2 R	611
1997 PK_2	1997 08 10.89375	22 18 33.52	−05 19 50.6	17.4 R	611
1997 PK_2	1997 08 10.91944	22 18 31.97	−05 19 50.4	16.9 R	611

620 Observatorio Astronómico de Mallorca
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[astroam@dinky.bitel.es]
Observers R. Pacheco, A. Lopez
0.30-m $f/3.3$ Schmidt-Cassegrain + CCD

1993 FA_{27}	1997 08 05.90440	20 27 57.40	−06 26 12.4		620
1993 FA_{27}	1997 08 05.94815	20 27 55.18	−06 26 23.3		620
1993 FA_{27}	1997 08 05.98958	20 27 53.02	−06 26 33.1		620
1997 NP_2	1997 07 16.93611	20 40 27.31	−08 24 09.0		620
1997 NP_2	1997 07 16.95139	20 40 26.49	−08 24 11.6		620
1997 NP_2	1997 07 16.96250	20 40 25.84	−08 24 13.6		620
1997 NP_2	1997 07 24.91221	20 32 53.89	−08 53 44.7		620
1997 NP_2	1997 07 24.92251	20 32 53.25	−08 53 47.2	17.6	620
1997 NP_2	1997 07 24.98669	20 32 49.28	−08 54 05.2	17.7	620
1997 OZ	* 1997 07 25.91493	21 04 51.67	−20 06 54.7		620
1997 OZ	1997 07 25.93657	21 04 50.60	−20 07 00.2	17.9	620
1997 OZ	1997 07 25.96007	21 04 49.43	−20 07 06.2	18.3	620
1997 OZ	1997 07 25.97222	21 04 48.82	−20 07 09.3	18.1	620
1997 OZ	1997 07 29.88044	21 01 51.86	−20 24 04.8	18.0	620
1997 OZ	1997 07 29.95579	21 01 48.17	−20 24 26.4		620
1997 OZ	1997 07 29.99109	21 01 46.49	−20 24 36.1	17.8	620
1997 OZ	1997 08 01.90752	20 59 30.22	−20 36 58.7	17.6	620
1997 OZ	1997 08 01.92558	20 59 29.29	−20 37 03.8	17.7	620
1997 OZ	1997 08 01.95590	20 59 27.73	−20 37 12.4	17.7	620
1997 OA_1	* 1997 07 25.95608	21 06 21.54	−20 17 25.7	19.0	620
1997 OA_1	1997 07 25.96869	21 06 20.80	−20 17 28.0	18.5	620
1997 OA_1	1997 07 25.97824	21 06 20.25	−20 17 29.7	18.8	620
1997 OA_1	1997 07 29.95243	21 02 35.67	−20 24 42.3		620
1997 OA_1	1997 07 29.97361	21 02 34.36	−20 24 45.2	18.7	620
1997 OA_1	1997 07 29.98681	21 02 33.55	−20 24 46.9	18.9	620
1997 OA_1	1997 08 01.90752	20 59 44.42	−20 29 41.3	18.8	620
1997 OA_1	1997 08 01.92558	20 59 43.27	−20 29 42.9	19.1	620
1997 OA_1	1997 08 01.95590	20 59 41.35	−20 29 45.6		620
1997 OB_2	* 1997 07 29.89005	21 00 11.92	−20 47 32.2	18.1	620
1997 OB_2	1997 07 29.90868	21 00 10.67	−20 47 29.1	18.5	620
1997 OB_2	1997 07 29.92604	21 00 09.51	−20 47 26.2	18.3	620
1997 OB_2	1997 08 01.91863	20 57 13.07	−20 40 22.5	18.8	620
1997 OB_2	1997 08 01.95069	20 57 11.06	−20 40 19.2	18.6	620
1997 OB_2	1997 08 01.96586	20 57 10.12	−20 40 17.6	18.2	620
1997 OC_2	* 1997 07 29.96412	21 26 02.47	−12 49 41.5	18.3	620
1997 OC_2	1997 07 29.97731	21 26 01.76	−12 49 44.2	18.2	620
1997 OC_2	1997 07 29.99514	21 26 00.79	−12 49 47.8	18.5	620

1997 OC_2		1997 08 01.98287	21 23 15.93	−13 01 05.9	18.3	620
1997 OC_2		1997 08 01.99699	21 23 15.13	−13 01 09.6	18.4	620
1997 OC_2		1997 08 02.01273	21 23 14.25	−13 01 13.6		620
1997 OD_2	*	1997 07 29.96725	21 25 19.36	−12 37 18.5	18.7	620
1997 OD_2		1997 07 29.98021	21 25 18.80	−12 37 21.9		620
1997 OD_2		1997 07 29.99826	21 25 18.02	−12 37 26.7	19.0	620
1997 OD_2		1997 08 01.98993	21 22 59.21	−12 52 42.9	18.8	620
1997 OD_2		1997 08 02.00903	21 22 58.15	−12 52 48.6	18.9	620
1997 OD_2		1997 08 02.01875	21 22 57.61	−12 52 51.5		620
1997 OE_2	*	1997 07 29.96725	21 26 22.85	−12 39 19.6	18.2	620
1997 OE_2		1997 07 29.98021	21 26 22.23	−12 39 25.5		620
1997 OE_2		1997 07 29.99826	21 26 21.37	−12 39 33.9	18.3	620
1997 OE_2		1997 08 01.98287	21 23 47.47	−13 03 01.2		620
1997 OE_2		1997 08 02.01273	21 23 45.78	−13 03 14.6		620
1997 OE_2		1997 08 02.03056	21 23 44.77	−13 03 22.6	18.1	620
1997 PG_1	*	1997 08 05.92581	22 02 30.80	−08 52 55.5	18.4	620
1997 PG_1		1997 08 05.96806	22 02 27.07	−08 52 21.0	19.2	620
1997 PG_1		1997 08 06.00324	22 02 24.02	−08 51 52.7	18.9	620
1997 PG_1		1997 08 06.90428	22 01 05.90	−08 40 08.9	18.4	620
1997 PG_1		1997 08 06.92188	22 01 04.35	−08 39 54.4		620
1997 PG_1		1997 08 06.92512	22 01 04.06	−08 39 51.7	18.2	620
1997 PG_1		1997 08 06.94965	22 01 01.90	−08 39 31.4	18.2	620

621 Bergisch Gladbach

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0.60-m $f/5$ reflector + CCD

GSC, PPM

1997 KM_4	1997 07 09.92012	15 09 25.79	+02 53 43.7	21.2	621
1997 KM_4	1997 07 10.91613	15 09 33.32	+02 47 42.1	20.3	621
1997 KM_4	1997 07 11.91788	15 09 42.13	+02 41 31.1	20.8	621

625 Kihei-AMOS Remote Maui Experimental Site

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Observers D. Nishimoto, J. Africano, B. Africano, J. Pye, G. Fricke

Measurers P. Kervin, B. Kraszewski, V. Soo Hoo, P. Sydney, A. Angara, B. McCartney, B. McCarthy

0.30-m Schmidt-Cassegrain + CCD

(2)	1997 07 08.49528	19 33 03.26	+20 49 53.6	10.4	625
(2)	1997 07 08.54939	19 33 00.59	+20 49 43.8	10.0	625
(2)	1997 07 11.51311	19 30 35.84	+20 39 47.1	10.1	625
(2)	1997 07 11.54465	19 30 34.26	+20 39 39.5	10.0	625
(14)	1997 07 11.50511	18 32 35.84	−27 08 30.3	9.8	625
(14)	1997 07 11.53796	18 32 33.89	−27 08 36.6	9.7	625
(14)	1997 07 15.45494	18 28 54.70	−27 22 26.5	10.3	625
(14)	1997 07 15.50603	18 28 51.81	−27 22 37.3	10.1	625
(20)	1997 07 11.50894	18 38 13.13	−22 04 23.2	10.2	625
(20)	1997 07 11.54187	18 38 11.12	−22 04 24.6	10.2	625
(20)	1997 07 17.45054	18 32 30.31	−22 09 38.0	10.7	625
(20)	1997 07 17.47996	18 32 28.65	−22 09 39.9	10.6	625
(34)	1997 07 17.52621	21 00 18.49	−09 51 55.6	13.6	625
(34)	1997 07 17.59840	21 00 15.14	−09 52 09.5	13.6	625
(34)	1997 07 18.49547	20 59 34.95	−09 55 05.0	13.7	625
(34)	1997 07 18.53372	20 59 33.16	−09 55 12.8	13.6	625
(44)	1997 07 11.50776	18 36 54.33	−20 20 04.7	10.9	625
(44)	1997 07 11.54070	18 36 52.37	−20 20 09.6	10.8	625
(44)	1997 07 17.44916	18 31 20.50	−20 32 48.7	11.3	625
(44)	1997 07 17.47849	18 31 18.84	−20 32 52.2	11.1	625
(62)	1997 07 15.46077	18 38 07.43	−21 55 14.8	13.7	625
(62)	1997 07 17.45190	18 36 33.01	−21 57 50.7	13.8	625
(62)	1997 07 17.48162	18 36 31.58	−21 57 53.4	13.7	625
(87)	1997 07 02.58721	20 37 41.43	−29 26 35.5	12.8	625
(87)	1997 07 02.61343	20 37 40.51	−29 26 44.5	12.6	625
(87)	1997 07 11.52341	20 32 00.18	−30 15 41.6	12.7	625
(87)	1997 07 11.56540	20 31 58.30	−30 15 55.4	12.6	625
(126)	1997 07 11.50648	18 32 40.80	−28 17 14.8	12.2	625
(126)	1997 07 11.53926	18 32 38.73	−28 17 15.1	12.3	625
(126)	1997 07 15.45354	18 28 45.94	−28 18 50.6	12.4	625
(126)	1997 07 15.50479	18 28 42.88	−28 18 50.1	12.3	625
(147)	1997 07 11.51036	18 43 56.06	−21 27 44.7	13.4	625
(147)	1997 07 11.54302	18 43 54.46	−21 27 45.6	13.3	625
(147)	1997 07 17.45328	18 39 14.76	−21 30 35.6	13.7	625
(147)	1997 07 17.48297	18 39 13.38	−21 30 38.1	13.6	625
(163)	1997 07 08.49350	19 30 20.57	−15 56 30.1	14.1	625
(163)	1997 07 08.54762	19 30 17.22	−15 56 39.3	14.0	625
(163)	1997 07 17.46409	19 21 23.68	−16 24 01.3	14.0	625
(163)	1997 07 17.49690	19 21 21.71	−16 24 07.5	14.2	625
(170)	1997 07 11.57383	21 00 03.62	−15 56 25.6	13.9	625
(170)	1997 07 11.59133	21 00 02.68	−15 56 24.0	14.0	625
(170)	1997 07 17.52291	20 54 38.80	−15 46 29.8	14.1	625
(170)	1997 07 17.59594	20 54 34.40	−15 46 22.3	13.9	625
(218)	1997 07 08.47747	18 04 23.45	+00 50 58.1	12.8	625
(218)	1997 07 08.53061	18 04 21.00	+00 50 41.0	12.7	625
(218)	1997 07 15.44588	17 59 37.08	+00 08 34.6	13.1	625
(218)	1997 07 15.49843	17 59 35.04	+00 08 13.8	13.0	625
(286)	1997 07 15.46670	19 06 34.96	−05 19 07.3	14.3	625
(286)	1997 07 15.51639	19 06 32.67	−05 19 23.7	14.2	625
(286)	1997 07 17.48722	19 05 05.76	−05 30 21.5	14.4	625
(286)	1997 07 18.44033	19 04 24.43	−05 35 49.9	13.7	625
(286)	1997 07 18.51450	19 04 20.93	−05 36 15.9	14.4	625
(287)	1997 07 08.49201	19 29 32.08	−11 57 56.4	11.3	625
(287)	1997 07 08.54617	19 29 28.85	−11 58 16.0	11.5	625
(287)	1997 07 17.46280	19 20 58.83	−12 57 15.0	11.3	625
(287)	1997 07 17.49562	19 20 56.91	−12 57 28.6	11.4	625
(301)	1997 07 17.52480	20 54 55.86	−14 56 01.4	14.9	625
(301)	1997 07 17.59718	20 54 52.54	−14 56 21.5	14.8	625
(301)	1997 07 18.49358	20 54 12.53	−15 00 39.7	15.0	625
(301)	1997 07 18.53231	20 54 10.73	−15 00 51.4	15.0	625
(306)	1997 07 11.57543	21 14 22.73	−11 22 49.2	11.7	625
(306)	1997 07 11.59274	21 14 22.25	−11 22 55.2	11.7	625
(306)	1997 07 18.49881	21 10 51.14	−12 09 22.0	11.8	625
(306)	1997 07 18.53632	21 10 49.67	−12 09 39.1	11.7	625
(322)	1997 07 15.46514	18 55 32.32	−15 09 56.6	12.7	625
(322)	1997 07 15.51511	18 55 29.43	−15 09 52.4	12.6	625

(322)	1997 07 17.45582	18 53 41.23	−15 07 24.8	12.6	625
(322)	1997 07 17.48577	18 53 39.50	−15 07 22.7	12.8	625
(322)	1997 07 18.43890	18 52 47.20	−15 06 15.3	12.6	625
(322)	1997 07 18.51299	18 52 42.99	−15 06 09.6	12.7	625
(379)	1997 07 11.57684	21 15 41.43	−13 58 05.7	13.5	625
(379)	1997 07 11.59413	21 15 40.96	−13 58 08.6	13.4	625
(379)	1997 07 18.53764	21 11 51.81	−14 16 18.0	13.4	625
(444)	1997 07 02.58880	20 43 04.09	−01 32 11.9	12.5	625
(444)	1997 07 02.61522	20 43 03.31	−01 32 10.0	12.5	625
(444)	1997 07 08.55771	20 40 00.46	−01 27 28.0	12.2	625
(444)	1997 07 08.60000	20 39 58.93	−01 27 27.6	12.0	625
(444)	1997 07 15.54266	20 35 34.22	−01 31 55.3	12.4	625
(444)	1997 07 15.56610	20 35 33.19	−01 31 57.5	12.1	625
(530)	1997 07 15.44469	17 45 21.83	−16 08 55.2	13.4	625
(530)	1997 07 15.49714	17 45 19.77	−16 09 06.8	13.2	625
(530)	1997 07 18.42801	17 43 35.57	−16 20 23.6	13.4	625
(530)	1997 07 18.50722	17 43 32.78	−16 20 41.4	13.4	625
(791)	1997 07 15.53046	20 01 11.64	−14 03 45.9	13.5	625
(791)	1997 07 15.55842	20 01 10.32	−14 04 00.8	13.6	625
(791)	1997 07 18.44917	19 58 59.24	−14 30 10.8	13.7	625
(791)	1997 07 18.52319	19 58 55.70	−14 30 51.6	13.7	625
(869)	1997 07 02.59011	20 46 25.34	−09 14 17.1	15.0	625
(869)	1997 07 08.60322	20 43 15.91	−09 39 29.3	15.3	625
(978)	1997 07 08.48889	19 16 20.24	+10 34 05.2	13.9	625
(978)	1997 07 08.54299	19 16 17.59	+10 34 13.5	13.8	625
(978)	1997 07 18.44306	19 08 30.95	+10 46 11.8	13.6	625
(978)	1997 07 18.51746	19 08 27.33	+10 46 10.8	14.0	625
(1165)	1997 07 08.48620	18 19 38.10	−02 46 56.5	14.4	625
(1165)	1997 07 08.53992	18 19 35.72	−02 46 57.9	14.6	625
(1165)	1997 07 17.43833	18 13 40.31	−02 59 33.7	16.2	625

627 Blauvac
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Observer R. Roy
0.26-m $f/4.7$ reflector + CCD
GSC

1997 LG_1	1997 07 28.88913	16 01 09.51	−08 32 27.4	19.4	627
1997 LG_1	1997 07 28.90215	16 01 09.97	−08 32 40.6	19.3	627
1997 LG_1	1997 07 28.91198	16 01 10.34	−08 32 43.9	19.7	627
1997 OY_1	1997 08 03.87318	20 53 25.84	−05 49 08.7	18.4	627
1997 OY_1	1997 08 03.88329	20 53 25.23	−05 49 11.8	18.1	627
1997 OY_1	1997 08 03.90993	20 53 23.78	−05 49 21.7	18.1	627
1997 OY_1	1997 08 03.91639	20 53 23.53	−05 49 23.9	18.0	627
1997 ON_2	1997 08 03.89329	20 53 06.78	−05 28 22.3	18.6	627
1997 ON_2	1997 08 03.89979	20 53 06.38	−05 28 23.7	18.2	627
1997 ON_2	1997 08 03.92706	20 53 04.90	−05 28 26.4	18.6	627
1997 ON_2	1997 08 03.93302	20 53 04.54	−05 28 26.6	18.4	627

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0.2-m Schmidt-Cassegrain + CCD
GSC

1985 UF_3	1997 08 04.91162	19 00 49.24	−02 48 57.3	16.8 V	628
1985 UF_3	1997 08 04.92204	19 00 48.82	−02 49 00.5	16.6 V	628
1985 UF_3	1997 08 04.93245	19 00 48.39	−02 49 04.2	16.6 V	628
1985 UF_3	1997 08 06.87759	18 59 37.32	−03 00 49.5	16.7 V	628
1985 UF_3	1997 08 06.89079	18 59 36.87	−03 00 54.2	16.5 V	628
1985 UF_3	1997 08 06.91787	18 59 35.90	−03 01 04.5	16.9 V	628
1985 UF_3	1997 08 07.89565	18 59 02.36	−03 07 09.2	16.8 V	628
1985 UF_3	1997 08 07.90745	18 59 01.84	−03 07 11.1	17.2 V	628
1985 UF_3	1997 08 07.92204	18 59 01.33	−03 07 19.1	17.3 V	628
1985 UF_3	1997 08 07.93315	18 59 00.99	−03 07 23.8	17.0 V	628
1985 UF_3	1997 08 08.88593	18 58 29.59	−03 13 24.5	16.7 V	628
1985 UF_3	1997 08 08.90051	18 58 28.99	−03 13 29.0	16.7 V	628
(1386)	1997 08 09.98732	01 05 21.80	+04 53 48.5	15.5 V	628
(1386)	1997 08 10.01579	01 05 23.21	+04 53 37.9	15.8 V	628
(1386)	1997 08 10.03662	01 05 24.23	+04 53 29.5	15.8 V	628

629 JATE Observatory, Szeged
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Observers K. Sárneczky, L. Kiss, B. Csák, F. Puskás
Measurers L. Kiss, K. Sárneczky
0.28-m Schmidt-Cassegrain + CCD
GSC

(106)	1997 07 29.96216	19 06 46.27	−27 36 31.6	11.7	629
(106)	1997 07 29.97608	19 06 45.58	−27 36 33.3	11.8	629
(512)	1997 07 29.94337	18 04 39.98	−24 11 04.7	12.6	629
(568)	1997 06 29.92764	16 40 48.47	−18 02 01.8	16.0	629
(688)	1997 06 29.89848	16 18 03.99	−04 58 57.9	15.1	629
(688)	1997 06 29.96324	16 18 01.96	−04 59 06.8	15.2	629
(762)	1997 06 30.03630	23 17 17.62	+03 20 38.4	14.2	629
(925)	1997 07 29.96782	19 25 40.50	−24 37 06.2	13.0	629
(925)	1997 07 29.98140	19 25 39.65	−24 37 02.4	13.5	629
(1466)	1997 06 30.00069	22 16 37.64	−02 46 18.1		629
(1466)	1997 06 30.03155	22 16 37.79	−02 46 22.7	15.8	629
(1650)	1997 06 29.92299	16 41 05.03	−17 30 32.9	16.1	629
(1650)	1997 06 29.93980	16 41 04.48	−17 30 32.5	16.0	629
(1980)	1997 07 29.99266	17 41 03.26	+44 51 35.8	14.1	629
(1980)	1997 07 29.99451	17 41 03.04	+44 51 38.3	14.1	629
(1980)	1997 07 29.99610	17 41 02.86	+44 51 40.5	14.1	629
(1980)	1997 07 29.99866	17 41 02.70	+44 51 43.9	14.3	629
(1980)	1997 07 30.00356	17 41 02.11	+44 51 50.2	13.9	629
(1980)	1997 07 30.00613	17 41 01.93	+44 51 53.7	14.3	629

631 Hamburg-Georgswerder
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0.15-m $f/8$ refractor + CCD
GSC

(978)	1997 08 05.89856	18 56 07.30	+09 57 03.0	13.7 R	631
(978)	1997 08 05.97601	18 56 04.75	+09 56 40.3	13.9 R	631
(978)	1997 08 08.89002	18 54 38.49	+09 41 31.7	13.3 R	631
(1094)	1997 08 08.94346	22 29 18.52	−09 13 34.5	16.0 R	631

(1094)	1997 08 09.02307	22 29 15.23	−09 14 17.0	15.9 R		631
(1980)	1997 08 08.87470	17 27 26.64	+48 07 24.4	14.2 R		631
(1980)	1997 08 08.95222	17 27 21.05	+48 08 39.4	14.3 R		631
(5143)	1997 08 08.92925	22 19 54.54	−05 32 49.0	16.7 R		631
(5143)	1997 08 09.01596	22 19 44.25	−05 33 30.3	16.5 R		631

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Observers D. D. Balam, G. C. L. Aikman
Measurer D. D. Balam
1.82-m Plaskett telescope + CCD
GSC, USNO-A1.0

1987 QF_6	1997 07 29.31022	18 49 09.49	+05 34 24.9			658
1987 QF_6	1997 07 29.31370	18 49 09.31	+05 34 23.5			658
1987 QF_6	1997 07 29.31674	18 49 09.16	+05 34 21.8			658
1990 QO	1997 07 29.36502	20 19 01.35	+02 50 51.9			658
1990 QO	1997 07 29.36799	20 19 01.15	+02 50 50.2			658
1990 QO	1997 07 29.37262	20 19 00.86	+02 50 47.2			658
1991 CS	1997 07 29.23494	14 15 33.48	+35 06 13.3			658
1991 CS	1997 07 29.23813	14 15 33.86	+35 06 07.8			658
1991 CS	1997 07 29.24122	14 15 34.24	+35 06 01.6			658
1991 VH	1997 07 29.24894	13 45 49.15	+07 25 03.2			658
1991 VH	1997 07 29.25073	13 45 49.43	+07 24 59.7			658
1991 VH	1997 07 29.25300	13 45 49.75	+07 24 56.1			658
1992 DF_1	1997 07 29.34953	19 48 23.08	−03 12 27.7			658
1992 DF_1	1997 07 29.35478	19 48 22.75	−03 12 30.9			658
1992 DF_1	1997 07 29.35794	19 48 22.54	−03 12 33.3			658
1992 LR	1997 07 29.45373	01 28 35.08	+17 27 50.9			658
1992 LR	1997 07 29.45572	01 28 35.39	+17 27 52.5			658
1992 LR	1997 07 29.45944	01 28 35.95	+17 27 55.8			658
1993 PE	1997 07 29.43052	01 16 20.40	+13 31 12.6			658
1993 PE	1997 07 29.43659	01 16 20.74	+13 31 14.9			658
1993 PE	1997 07 29.43949	01 16 20.87	+13 31 16.0			658
1994 QC	1997 07 29.25721	17 33 04.75	+19 19 20.2			658
1994 QC	1997 07 29.25916	17 33 04.88	+19 19 14.4			658
1994 QC	1997 07 29.26113	17 33 05.01	+19 19 08.3			658
1994 QC	1997 08 09.26733	17 49 56.87	+09 45 50.9			658
1994 QC	1997 08 09.27361	17 49 57.50	+09 45 30.8			658
1994 QC	1997 08 09.27641	17 49 57.77	+09 45 21.1			658
1994 TL_3	1997 07 29.41641	21 38 17.88	+03 27 44.0			658
1994 TL_3	1997 07 29.41850	21 38 17.80	+03 27 43.9			658
1994 TL_3	1997 07 29.42367	21 38 17.55	+03 27 43.5			658
1997 LY_4	1997 07 29.32169	19 36 52.80	+05 56 56.1			658
1997 LY_4	1997 07 29.33580	19 36 52.59	+05 57 05.3			658
1997 LY_4	1997 08 09.23331	19 37 11.19	+07 17 26.9			658
1997 LY_4	1997 08 09.23802	19 37 11.21	+07 17 28.3			658
1997 LY_4	1997 08 09.24321	19 37 11.25	+07 17 29.1			658
1997 MV_1	1997 07 29.39919	21 29 36.80	+01 25 20.4			658
1997 MV_1	1997 07 29.40270	21 29 36.73	+01 25 19.8			658
1997 MV_1	1997 07 29.40748	21 29 36.62	+01 25 18.8			658
1997 MW_1	1997 07 29.26880	17 00 55.05	+03 11 32.4			658
1997 MW_1	1997 07 29.27168	17 00 54.86	+03 11 32.9			658
1997 MW_1	1997 07 29.27522	17 00 54.59	+03 11 32.9			658
1997 MD_{10}	1997 08 11.23416	17 30 54.76	−04 53 20.0			658
1997 MD_{10}	1997 08 11.24056	17 30 54.27	−04 53 09.1			658
1997 MD_{10}	1997 08 11.24325	17 30 54.13	−04 53 04.0			658
1997 NP_{10}	1997 07 29.37792	21 20 34.08	+01 26 08.3			658
1997 NP_{10}	1997 07 29.38620	21 20 34.14	+01 26 11.4			658
1997 NP_{10}	1997 07 29.39069	21 20 34.30	+01 26 12.6			658
1997 NP_{10}	1997 08 09.35024	21 24 36.79	+02 09 03.1			658
1997 NP_{10}	1997 08 09.35617	21 24 36.84	+02 09 03.6			658
1997 NP_{10}	1997 08 09.36539	21 24 37.00	+02 09 03.8			658
1997 NP_{10}	1997 08 10.34344	21 24 57.30	+02 10 06.2			658
1997 NP_{10}	1997 08 10.34963	21 24 57.40	+02 10 06.3			658
1997 NP_{10}	1997 08 10.35551	21 24 57.48	+02 10 06.8			658
1997 OQ_1	1997 08 09.37564	21 53 19.21	−15 22 43.7	19.5 R		658
1997 OQ_1	1997 08 09.38154	21 53 18.83	−15 22 47.4			658
1997 OQ_1	1997 08 09.38707	21 53 18.55	−15 22 50.8			658
1997 PD	1997 08 09.32203	20 06 39.22	−08 13 35.3			658
1997 PD	1997 08 09.32388	20 06 39.14	−08 13 33.7			658
1997 PD	1997 08 09.32619	20 06 39.04	−08 13 32.4			658
1997 PD	1997 08 10.29657	20 05 55.05	−08 05 21.9			658
1997 PD	1997 08 10.29955	20 05 54.92	−08 05 20.4			658
1997 PD	1997 08 10.30292	20 05 54.76	−08 05 18.7			658
1997 PD	1997 08 11.27826	20 05 12.20	−07 57 17.8			658
1997 PD	1997 08 11.28166	20 05 12.03	−07 57 16.1			658
1997 PD	1997 08 11.28571	20 05 11.83	−07 57 14.3			658
1997 PN	1997 08 09.34191	20 12 16.65	−11 10 17.5			658
1997 PN	1997 08 09.34389	20 12 16.44	−11 10 08.0			658
1997 PN	1997 08 09.34608	20 12 16.20	−11 09 55.8			658
1997 PN	1997 08 10.31841	20 10 42.28	−09 49 16.2			658
1997 PN	1997 08 10.32193	20 10 41.88	−09 48 58.9			658
1997 PN	1997 08 10.32524	20 10 41.57	−09 48 42.8			658
1997 PO	1997 08 09.33152	20 12 36.75	−13 43 32.2			658
1997 PO	1997 08 09.33414	20 12 36.63	−13 43 37.0			658
1997 PO	1997 08 09.33701	20 12 36.55	−13 43 42.4			658
1997 PO	1997 08 10.30632	20 12 25.62	−14 13 51.2			658
1997 PO	1997 08 10.30972	20 12 25.59	−14 13 57.5			658
1997 PO	1997 08 10.31336	20 12 25.53	−14 14 04.2			658
1997 PT	1997 08 10.36318	21 33 04.43	−10 58 20.7			658
1997 PT	1997 08 10.36681	21 33 04.25	−10 58 22.2			658
1997 PT	1997 08 10.37091	21 33 04.07	−10 58 23.8			658
1997 PX	1997 08 10.37546	21 42 24.18	−10 50 45.8			658
1997 PX	1997 08 10.37924	21 42 24.00	−10 50 47.0			658
1997 PX	1997 08 10.38270	21 42 23.77	−10 50 48.4			658
1997 PL_2	1997 08 09.46229	22 33 17.22	−05 45 56.4			658
1997 PL_2	1997 08 09.46560	22 33 17.09	−05 45 56.9			658
1997 PL_2	1997 08 09.46914	22 33 16.95	−05 45 57.6			658
1997 PM_2	1997 08 09.44836	22 32 49.56	−05 55 32.1			658
1997 PM_2	1997 08 09.45314	22 32 49.37	−05 55 32.8			658
1997 PM_2	1997 08 09.45778	22 32 49.17	−05 55 33.5			658
1997 PN_2	* 1997 08 09.43065	22 07 52.39	−15 08 46.7	19.7 R		658
1997 PN_2	1997 08 09.43692	22 07 52.09	−15 08 47.3			658
1997 PN_2	1997 08 10.41144	22 07 05.04	−15 10 53.2			658

1997 PN_2		1997 08 10.41619	22 07 04.74	−15 10 53.8		658
1997 PN_2		1997 08 10.42001	22 07 04.61	−15 10 54.4		658
1997 PO_2	*	1997 08 10.30632	20 12 35.82	−14 15 14.3	19.7 R	658
1997 PO_2		1997 08 10.30972	20 12 35.69	−14 15 14.3		658
1997 PO_2		1997 08 10.31336	20 12 35.44	−14 15 14.4		658
1997 PO_2		1997 08 11.29051	20 11 46.20	−14 16 42.7		658
(4034)		1997 07 29.44534	00 52 59.31	+14 41 18.3		658
(4034)		1997 07 29.44719	00 52 59.72	+14 41 20.3		658
(4034)		1997 07 29.44912	00 53 00.26	+14 41 22.0		658
(5836)		1997 07 29.47381	03 33 17.22	+25 35 53.4		658
(5836)		1997 07 29.47778	03 33 17.81	+25 35 54.8		658

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9 = 6 + 3

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

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

GSC, PPM

1976 UR_{15}		1993 10 10.27014	00 53 07.78	−05 03 31.1		9 675
1976 UR_{15}		1993 10 10.30781	00 53 05.54	−05 03 34.7		9 675
1982 DT_6		1993 09 21.41528	01 49 40.11	−09 22 10.6		9 675
1982 EE		1993 09 21.41528	01 27 33.79	−06 05 07.8		9 675
1982 EE		1993 09 21.45435	01 27 32.28	−06 05 23.8		9 675
1982 KK_1		1993 10 10.27014	00 45 11.47	−04 59 22.9		9 675
1982 KK_1		1993 10 10.30781	00 45 09.20	−04 59 33.7		9 675
1983 RX_3		1993 10 10.27014	00 52 02.79	−04 56 11.0		9 675
1983 RX_3		1993 10 10.30781	00 52 01.15	−04 56 35.2		9 675
1985 PQ		1994 02 12.32326	09 23 05.62	+13 24 23.1		9 675
1985 PQ		1994 02 12.36094	09 23 03.06	+13 24 38.3		9 675
1985 TZ_3		1994 02 12.32326	09 15 47.79	+13 56 19.3		9 675
1985 TZ_3		1994 02 12.36094	09 15 45.27	+13 56 25.8		9 675
1986 RG_3		1993 10 10.30781	00 49 22.03	−03 53 27.9		9 675
1988 GD		1993 10 10.27014	00 41 15.56	−04 38 52.5		9 675
1988 GL		1992 04 08.38420	14 17 57.80	+08 36 18.7		9 675
1988 GL		1992 04 08.41476	14 17 55.99	+08 36 16.9		9 675
1988 XJ_1		1993 09 21.41528	01 27 58.97	−10 12 09.9		9 675
1988 XJ_1		1993 09 21.45435	01 27 57.37	−10 12 20.1		9 675
1988 XJ_1		1993 10 14.27431	01 10 23.00	−11 25 13.3		9 675
1989 NY		1993 09 21.40660	00 53 13.62	−10 03 28.1		9 675
1989 NY		1993 09 21.44635	00 53 12.03	−10 03 56.4		9 675
1989 TM_1		1993 09 21.39878	00 25 23.25	−03 55 52.5	16.8	9 675
1989 TM_1		1993 09 21.43872	00 25 20.84	−03 55 55.7		9 675
1991 OL_1		1994 02 12.32326	09 19 22.73	+17 19 23.8		9 675
1991 OL_1		1994 02 12.36094	09 19 21.02	+17 19 32.0		9 675
1991 PE_5		1994 02 12.32326	09 30 02.00	+12 52 48.2		9 675
1991 PE_5		1994 02 12.36094	09 29 59.99	+12 52 58.0		9 675
1992 EZ_6		1993 08 14.40139	23 24 52.17	−13 23 47.4	17.8	9 675
1992 EZ_6		1993 08 14.42899	23 24 51.26	−13 24 05.6		9 675
1992 PY_6	*	1992 08 06.36493	22 18 49.92	−11 56 29.9		9 675
1992 PY_6		1992 08 06.40416	22 18 48.29	−11 56 44.3		9 675
1992 RT_7		1994 02 12.32326	09 12 05.86	+14 34 48.1		9 675
1992 RT_7		1994 02 12.36094	09 12 03.80	+14 34 51.5		9 675
1993 RR_2		1993 09 21.40660	00 52 29.32	−10 49 54.4		9 675
1993 RR_2		1993 09 21.44635	00 52 28.68	−10 50 37.2		9 675
1993 SW_3		1993 10 10.27014	00 52 34.14	−03 59 15.2		9 675
1993 SW_3		1993 10 10.30781	00 52 31.71	−03 59 15.9		9 675
1993 SX_{14}	*	1993 09 18.32934	00 42 08.36	−06 04 32.0	17.8	9 675
1993 SX_{14}		1993 09 18.36684	00 42 06.79	−06 04 44.9		9 675
1993 SX_{14}		1993 09 22.33854	00 39 18.72	−06 27 21.3	18.0	9 675
1993 SX_{14}		1993 09 22.37778	00 39 16.97	−06 27 34.5		9 675
1993 SY_{14}	*	1993 09 18.32934	00 45 32.63	−06 09 06.8	17.5	9 675
1993 SY_{14}		1993 09 18.36684	00 45 30.39	−06 09 14.3		9 675
1993 SY_{14}		1993 09 22.33854	00 41 39.30	−06 20 15.2	17.5	9 675
1993 SY_{14}		1993 09 22.37778	00 41 36.82	−06 20 19.4		9 675
1993 SZ_{14}	*	1993 09 18.32934	00 45 55.23	−06 03 49.3	17.5	9 675
1993 SZ_{14}		1993 09 18.36684	00 45 53.33	−06 04 06.7		9 675
1993 SZ_{14}		1993 09 22.33854	00 42 44.94	−06 36 13.7	17.5	9 675
1993 SZ_{14}		1993 09 22.37778	00 42 42.90	−06 36 32.0		9 675
1993 SA_{15}	*	1993 09 18.32934	00 50 34.08	−04 40 19.2	17.8	9 675
1993 SA_{15}		1993 09 18.36684	00 50 32.41	−04 40 38.4		9 675
1993 SA_{15}		1993 09 22.33854	00 47 37.63	−05 14 08.7	17.5	9 675
1993 SA_{15}		1993 09 22.37778	00 47 35.68	−05 14 27.9		9 675
1993 SB_{15}	*	1993 09 19.37604	01 28 07.58	−11 52 35.0		9 675
1993 SB_{15}		1993 09 19.41476	01 28 06.38	−11 52 59.1		9 675
1993 SB_{15}		1993 09 20.35764	01 27 37.07	−12 02 37.8		9 675
1993 SB_{15}		1993 09 20.39392	01 27 35.89	−12 02 59.8		9 675
1993 SB_{15}		1993 09 21.41528	01 27 02.87	−12 13 24.0		9 675
1993 SB_{15}		1993 09 21.45435	01 27 01.37	−12 13 46.7		9 675
1993 SB_{15}		1993 10 10.27743	01 13 49.58	−15 00 43.9		9 675
1993 SB_{15}		1993 10 10.31528	01 13 47.57	−15 00 59.4		9 675
1993 SC_{15}	*	1993 09 21.40660	00 56 54.78	−17 06 16.1		9 675
1993 SC_{15}		1993 09 21.44635	00 56 53.04	−17 06 39.1		9 675
1993 SC_{15}		1993 09 22.34566	00 56 15.65	−17 15 17.5		9 675
1993 SC_{15}		1993 09 22.38576	00 56 13.87	−17 15 41.7		9 675
1993 TQ_{36}		1993 09 18.32934	01 02 11.46	−10 10 46.8	17.2	9 675
1993 TQ_{36}		1993 09 18.36684	01 02 09.76	−10 10 57.3		9 675
1993 TQ_{36}		1993 09 20.35764	01 00 40.02	−10 19 30.2		9 675
1993 TQ_{36}		1993 09 20.39392	01 00 38.15	−10 19 38.1		9 675
1993 TQ_{36}		1993 09 21.40660	00 59 50.85	−10 23 49.0		9 675
1993 TQ_{36}		1993 09 21.44635	00 59 48.95	−10 23 58.9		9 675
1993 TQ_{36}		1993 09 22.33854	00 59 06.64	−10 27 36.1	17.2	9 675
1993 TQ_{36}		1993 09 22.37778	00 59 04.71	−10 27 45.0		9 675
1993 TQ_{36}		1993 10 10.27014	00 43 29.54	−11 16 05.5		9 675
1993 TS_{36}		1993 09 20.35764	01 12 01.88	−16 56 01.7		9 675
1993 TS_{36}		1993 09 20.39392	01 12 00.08	−16 56 11.3		9 675

1993 TS_{36}	1993 09 22.34566	01 10 23.05	−17 04 46.5		9	675
1993 TS_{36}	1993 09 22.38576	01 10 20.90	−17 04 57.1		9	675
1993 TU_{36}	1993 09 19.37604	01 20 38.16	−13 05 53.1		9	675
1993 TU_{36}	1993 09 19.41476	01 20 36.49	−13 06 08.6		9	675
1993 TU_{36}	1993 09 20.35764	01 19 57.04	−13 12 46.2		9	675
1993 TU_{36}	1993 09 20.39392	01 19 55.38	−13 13 01.1		9	675
1993 UC	1993 09 21.41528	01 26 30.95	−11 16 19.0		9	675
1993 UE	1993 09 22.34566	01 03 57.54	−19 49 52.0		9	675
1993 UE	1993 09 22.38576	01 03 55.76	−19 50 16.3		9	675
1993 UF	1993 09 22.34566	01 02 57.61	−18 21 27.6		9	675
1993 UF	1993 09 22.38576	01 02 56.10	−18 22 01.2		9	675
1993 VC_5	1993 09 20.35764	01 10 08.19	−12 27 52.1		9	675
1993 VC_5	1993 09 20.39392	01 10 07.87	−12 28 56.4		9	675
1993 VC_5	1993 10 10.27743	01 04 54.00	−21 46 23.3		9	675
1993 VC_5	1993 10 10.31528	01 04 52.96	−21 47 18.9		9	675
1994 BM	1994 02 12.32326	09 27 43.67	+14 05 49.8		9	675
1994 BM	1994 02 12.36094	09 27 41.11	+14 05 53.2		9	675
1994 ED_9	1994 03 14.25121	10 01 55.91	+06 38 25.6	18.5	9	675
1994 ED_9	1994 03 14.29392	10 01 54.47	+06 38 39.6		9	675
1994 YC	1991 02 07.34149	09 14 28.79	+15 44 55.8	18.0	9	675
1994 YC	1991 02 07.37257	09 14 26.82	+15 44 58.7		9	675
1995 CW_1	1988 08 19.37135	22 50 39.57	+30 01 06.3	18.8	9	675
1996 DW_2	1989 08 01.36597	21 22 43.52	−10 48 47.0		9	675
1996 DW_2	1989 08 01.40521	21 22 41.72	−10 49 14.7		9	675
1996 FL_5	1989 04 01.41354	14 15 18.98	−12 22 58.9	16.8	9	675
1996 FL_5	1989 04 01.45399	14 15 17.04	−12 23 02.6		9	675
1996 XA_{32}	1994 02 12.32326	09 17 47.10	+13 42 06.7		9	675
1996 XA_{32}	1994 02 12.36094	09 17 44.65	+13 42 16.4		9	675
1996 YW_2	1994 02 12.36094	09 05 32.24	+13 34 31.6		9	675
1997 KR_3	1993 10 10.27014	00 39 36.72	−08 38 03.4		9	675
1997 KR_3	1993 10 10.30781	00 39 35.02	−08 38 12.0		9	675
1997 NZ	1993 09 12.18819	21 10 52.45	−00 15 45.0	15.6	2	675
1997 NZ	1993 09 12.21545	21 10 51.57	−00 15 48.3	15.5	2	675
3087 P-L	* 1960 09 24.27708	00 33 43.01	+16 59 08.4	17.3	4	675
3087 P-L	1960 09 25.46250	00 32 49.60	+16 53 38.2		4	675
3087 P-L	1960 09 26.24514	00 32 14.76	+16 49 52.4		4	675
3087 P-L	1960 09 27.27569	00 31 28.07	+16 44 46.1		4	675
3087 P-L	1960 09 28.34722	00 30 39.33	+16 39 16.6		4	675
3087 P-L	1960 09 28.46181	00 30 33.92	+16 38 41.4		4	675
3087 P-L	1960 09 29.47153	00 29 47.91	+16 33 20.0		4	675
3087 P-L	1960 10 17.17917	00 17 06.51	+14 42 04.5		4	675
3087 P-L	1960 10 17.23681	00 17 04.31	+14 41 41.2		4	675
3087 P-L	1960 10 17.33750	00 17 00.31	+14 40 58.6		4	675
3087 P-L	1960 10 22.12083	00 14 11.31	+14 08 07.6		4	675
3087 P-L	1960 10 22.17778	00 14 09.41	+14 07 43.7		4	675
3087 P-L	1960 10 22.29097	00 14 05.52	+14 06 57.4		4	675
3087 P-L	1960 10 24.21256	00 13 04.70	+13 53 49.3		4	675
3087 P-L	1960 10 24.30972	00 13 01.54	+13 53 10.9		4	675
3087 P-L	1960 10 25.20486	00 12 34.95	+13 47 06.1		4	675
3087 P-L	1960 10 25.32778	00 12 31.17	+13 46 16.5		4	675
3087 P-L	1960 10 26.28264	00 12 03.77	+13 39 50.2		4	675
3087 P-L	1960 10 26.37951	00 12 00.88	+13 39 11.5		4	675
3090 P-L	* 1960 09 24.27708	00 30 44.08	+19 31 00.9	17.8	4	675
3090 P-L	1960 09 25.46250	00 29 54.97	+19 22 56.8		4	675
3090 P-L	1960 09 26.24514	00 29 22.96	+19 17 28.7		4	675
3090 P-L	1960 09 28.46181	00 27 49.75	+19 01 16.0		4	675
3090 P-L	1960 10 17.17917	00 15 14.48	+16 13 12.2		4	675
3090 P-L	1960 10 17.23681	00 15 12.32	+16 12 36.8		4	675
3090 P-L	1960 10 17.33750	00 15 08.57	+16 11 36.6		4	675
3090 P-L	1960 10 22.12083	00 12 30.66	+15 23 33.5		4	675
3090 P-L	1960 10 22.17778	00 12 28.76	+15 23 00.0		4	675
3090 P-L	1960 10 22.29097	00 12 25.13	+15 21 51.5		4	675
3090 P-L	1960 10 24.30972	00 11 25.78	+15 01 30.3		4	675
3090 P-L	1960 10 25.20486	00 11 01.20	+14 52 31.2		4	675
3090 P-L	1960 10 25.32778	00 10 57.62	+14 51 15.6		4	675
3090 P-L	1960 10 26.28264	00 10 32.47	+14 41 43.5		4	675
3090 P-L	1960 10 26.37951	00 10 29.80	+14 40 43.8		4	675
4315 P-L	* 1960 09 24.37573	00 36 41.17	+04 57 08.4	19.5	4	675
4315 P-L	1960 09 25.42780	00 35 52.45	+04 51 31.4		4	675
4315 P-L	1960 09 26.30558	00 35 11.86	+04 46 48.7		4	675
4315 P-L	1960 09 28.36808	00 33 35.36	+04 35 38.5		4	675
4315 P-L	1960 10 22.22293	00 16 20.76	+02 31 44.1		4	675
4315 P-L	1960 10 26.32573	00 14 04.50	+02 14 33.7		4	675
6039 P-L	* 1960 09 24.33613	00 13 11.63	+02 32 40.2	17.2	4	675
6039 P-L	1960 09 25.32502	00 12 27.15	+02 24 13.5		4	675
6039 P-L	1960 09 26.27573	00 11 44.24	+02 16 04.5		4	675
6039 P-L	1960 09 28.32780	00 10 11.47	+01 58 26.6		4	675
6039 P-L	1960 10 17.28198	23 57 10.90	−00 36 56.9		4	675
6039 P-L	1960 10 22.23406	23 54 35.43	−01 11 34.7		4	675
6039 P-L	1960 10 25.25350	23 53 15.07	−01 30 46.6		4	675
6039 P-L	1960 10 26.26113	23 52 50.81	−01 36 49.6		4	675
6039 P-L	1960 10 26.31531	23 52 49.45	−01 37 10.3		4	675
7061 P-L	1960 09 26.27573	00 11 35.61	+06 46 28.8		4	675
7061 P-L	1960 09 28.32780	00 09 56.37	+06 28 51.1		4	675
7061 P-L	* 1960 10 17.27085	23 56 39.92	+03 45 34.5	19.0	4	675
7061 P-L	1960 10 22.22293	23 54 21.13	+03 08 14.0		4	675
7061 P-L	1960 10 24.35836	23 53 33.31	+02 53 24.1		4	675
7061 P-L	1960 10 26.26113	23 52 57.83	+02 40 55.1		4	675
7061 P-L	1960 10 26.32573	23 52 56.57	+02 40 29.9		4	675
2228 T-1	1971 03 24.37118	12 15 57.17	+01 56 04.3		4	675
2228 T-1	1971 03 25.24340	12 15 12.58	+02 02 03.1		4	675
2228 T-1	* 1971 03 25.28715	12 15 10.24	+02 02 23.2	19.1	4	675
2228 T-1	1971 03 26.25208	12 14 20.79	+02 08 54.8		4	675
2228 T-1	1971 03 27.31181	12 13 26.61	+02 16 02.5		4	675
2228 T-1	1971 04 02.41285	12 08 24.39	+02 54 50.2		4	675
4220 T-1	1952 09 15.26944	00 27 29.55	+02 46 44.8	18.0	6	675
4220 T-1	1952 09 15.29444	00 27 28.53	+02 46 32.5		6	675
4220 T-1	1971 03 24.40486	12 34 59.07	−02 03 07.6		4	675
4220 T-1	1971 03 24.42015	12 34 58.48	−02 03 00.6		4	675
4220 T-1	1971 03 25.33090	12 34 20.18	−01 56 06.3		4	675
4220 T-1	1971 03 26.31007	12 33 38.79	−01 48 45.0		4	675
4220 T-1	* 1971 03 26.34896	12 33 37.05	−01 48 27.5	19.1	4	675
4220 T-1	1971 03 27.35208	12 32 54.78	−01 40 51.4		4	675
4220 T-1	1971 04 02.43993	12 28 35.08	−00 54 45.3		4	675

4220 T-1		1971 04 16.21476	12 19 25.10	+00 42 42.2		4	675
4220 T-1		1971 04 16.27708	12 19 22.77	+00 43 07.2		4	675
4220 T-1		1971 05 13.20278	12 08 59.35	+02 47 26.5	18.5	4	675
4220 T-1		1971 05 14.23246	12 08 51.82	+02 49 56.2	18.5	4	675
4220 T-1		1971 05 16.29774	12 08 40.49	+02 54 28.0	20.0	4	675
4878 T-1	*	1971 05 13.20278	12 29 18.91	+03 05 55.0	19.0	4	675
4878 T-1		1971 05 14.23246	12 29 03.27	+03 08 05.4	19.0	4	675
4878 T-1		1971 05 16.29774	12 28 35.31	+03 12 01.2	19.0	4	675
2235 T-2		1973 09 19.19948	00 46 52.01	+04 20 36.9		4	675
2235 T-2		1973 09 19.25006	00 46 50.06	+04 20 22.9		4	675
2235 T-2		1973 09 20.26458	00 46 11.12	+04 15 12.1		4	675
2235 T-2		1973 09 24.36181	00 43 26.96	+03 53 53.7		4	675
2235 T-2		1973 09 24.42847	00 43 24.08	+03 53 33.7		4	675
2235 T-2		1973 09 25.25642	00 42 50.23	+03 49 05.3		4	675
2235 T-2		1973 09 25.32031	00 42 47.54	+03 48 44.7		4	675
2235 T-2		1973 09 29.26632	00 40 00.89	+03 27 21.4		4	675
2235 T-2	*	1973 09 29.33073	00 39 58.05	+03 26 59.4	19.2	4	675
2235 T-2		1973 09 30.22257	00 39 20.10	+03 22 06.7		4	675
2235 T-2		1973 09 30.28785	00 39 17.18	+03 21 43.3		4	675
2235 T-2		1973 10 04.30208	00 36 24.66	+02 59 46.2		4	675
2235 T-2		1973 10 04.36476	00 36 21.82	+02 59 27.0		4	675
2235 T-2		1973 10 05.32917	00 35 40.75	+02 54 10.9		4	675
2235 T-2		1973 10 05.39132	00 35 37.97	+02 53 50.3		4	675
3310 T-2		1973 09 19.22500	00 33 18.92	−01 01 44.8		4	675
3310 T-2		1973 09 19.27865	00 33 16.18	−01 02 05.3		4	675
3310 T-2		1973 09 20.30278	00 32 25.72	−01 08 25.9		4	675
3310 T-2		1973 09 24.38750	00 28 57.28	−01 33 57.4		4	675
3310 T-2		1973 09 24.45434	00 28 53.70	−01 34 20.8		4	675
3310 T-2		1973 09 25.28125	00 28 10.82	−01 39 32.1		4	675
3310 T-2		1973 09 25.34601	00 28 07.24	−01 39 55.5		4	675
3310 T-2		1973 09 29.29219	00 24 37.95	−02 04 05.8		4	675
3310 T-2		1973 09 29.35694	00 24 34.41	−02 04 27.8		4	675
3310 T-2		1973 09 30.23524	00 23 47.90	−02 09 44.7		4	675
3310 T-2		1973 09 30.24826	00 23 47.15	−02 09 49.9		4	675
3310 T-2	*	1973 09 30.30174	00 23 44.14	−02 10 07.6	18.5	4	675
3310 T-2		1973 09 30.31476	00 23 43.52	−02 10 11.8		4	675
3310 T-2		1973 10 04.32708	00 20 11.45	−02 33 12.9		4	675
3310 T-2		1973 10 04.38889	00 20 08.04	−02 33 34.2		4	675
3310 T-2		1973 10 05.34167	00 19 18.95	−02 38 48.9		4	675
3310 T-2		1973 10 05.35382	00 19 18.06	−02 38 52.4		4	675
3310 T-2		1973 10 05.40347	00 19 15.59	−02 39 09.0		4	675
3310 T-2		1973 10 05.41597	00 19 14.74	−02 39 11.8		4	675
4095 T-2		1973 09 19.19948	00 34 23.84	+01 20 15.7		4	675
4095 T-2		1973 09 19.22500	00 34 22.88	+01 20 01.3		4	675
4095 T-2		1973 09 19.25006	00 34 21.87	+01 19 46.3		4	675
4095 T-2		1973 09 19.27865	00 34 20.71	+01 19 32.0		4	675
4095 T-2		1973 09 20.30278	00 33 40.96	+01 09 51.3		4	675
4095 T-2		1973 09 24.38750	00 30 58.63	+00 31 03.0		4	675
4095 T-2		1973 09 24.45434	00 30 55.89	+00 30 25.5		4	675
4095 T-2		1973 09 25.28125	00 30 22.77	+00 22 32.3		4	675
4095 T-2		1973 09 25.34601	00 30 20.08	+00 21 54.7		4	675
4095 T-2	*	1973 09 29.29219	00 27 39.97	−00 15 28.2	19.0	4	675
4095 T-2		1973 09 29.35694	00 27 37.23	−00 16 06.3		4	675
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4095 T-2		1973 10 04.32708	00 24 16.52	−01 02 06.6		4	675
4095 T-2		1973 10 04.38889	00 24 13.96	−01 02 38.0		4	675
4095 T-2		1973 10 05.35382	00 23 35.74	−01 11 23.6		4	675
4095 T-2		1973 10 05.41597	00 23 33.18	−01 11 57.1		4	675
5049 T-2		1973 09 20.21458	00 13 54.81	+16 08 01.1		4	675
5049 T-2		1973 09 20.29253	00 13 50.25	+16 07 39.5		4	675
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5049 T-2		1973 09 24.47986	00 09 44.11	+15 46 55.9		4	675
5049 T-2	*	1973 09 25.29375	00 08 56.44	+15 42 28.1	19.2	4	675
5049 T-2		1973 09 25.35903	00 08 52.40	+15 42 10.3		4	675
5049 T-2		1973 09 29.24062	00 05 04.44	+15 19 27.8		4	675
5049 T-2		1973 09 29.30486	00 05 00.41	+15 19 02.4		4	675
5049 T-2		1973 09 30.19722	00 04 08.54	+15 13 30.6		4	675
5049 T-2		1973 09 30.35295	00 03 59.20	+15 12 32.2		4	675
4517 T-3		1977 10 11.30000	01 24 42.22	+01 10 48.7		4	675
4517 T-3		1977 10 11.36771	01 24 38.29	+01 10 15.0		4	675
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684 Prescott

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[comba@northlink.com]

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GSC

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1997 PG_2		1997 08 10.32718	22 00 24.53	−15 20 49.3			684
1997 PG_2		1997 08 10.34868	22 00 23.47	−15 20 57.6	19.2 R		684
1997 PH_2	*	1997 08 05.32198	22 04 34.14	−14 49 19.2	19.1 R		684
1997 PH_2		1997 08 05.32743	22 04 33.91	−14 49 21.0			684
1997 PH_2		1997 08 05.33419	22 04 33.62	−14 49 23.1			684
1997 PH_2		1997 08 10.31153	22 01 08.34	−15 16 06.9			684
1997 PH_2		1997 08 10.32718	22 01 07.65	−15 16 12.6			684
1997 PH_2		1997 08 10.34868	22 01 06.76	−15 16 18.7	18.3 R		684
1997 PJ_2	*	1997 08 07.33600	22 03 07.34	−14 49 13.8			684
1997 PJ_2		1997 08 07.34351	22 03 06.99	−14 49 17.0			684
1997 PJ_2		1997 08 07.35755	22 03 06.42	−14 49 23.5	18.4 R		684
1997 PJ_2		1997 08 10.30515	22 01 02.78	−15 11 36.0			684
1997 PJ_2		1997 08 10.31811	22 01 02.16	−15 11 42.0			684
1997 PJ_2		1997 08 10.33346	22 01 01.48	−15 11 48.7	17.8 R		684
(2123)		1997 08 01.34422	22 02 01.17	−11 47 22.6			684
(2123)		1997 08 01.35567	22 02 00.68	−11 47 24.8	15.1 R		684

688 Lowell Observatory, Anderson Mesa Station

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

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

1.07-m Hall reflector + CCD, 0.8-m reflector + CCD

USNO-A1.0

1975 SJ_1		1997 07 08.32395	22 13 24.71	+05 09 44.9	17.8 R		688
1975 SJ_1		1997 07 08.35334	22 13 24.41	+05 09 47.3			688
1975 SM_1		1997 07 03.23627	16 32 10.14	−17 21 02.6		V	688
1975 SM_1		1997 07 03.24083	16 32 09.94	−17 21 02.9		V	688
1975 SM_1		1997 07 03.26400	16 32 08.94	−17 21 02.8		V	688
1975 SM_1		1997 07 03.26649	16 32 08.79	−17 21 02.6		V	688
1975 SM_1		1997 07 04.19171	16 31 30.32	−17 20 53.9		I	688
1975 SM_1		1997 07 04.21590	16 31 29.30	−17 20 53.2		V	688
1975 SM_1		1997 07 04.21840	16 31 29.18	−17 20 53.6		V	688
1981 RF_7		1997 07 08.33731	22 18 41.63	−19 41 26.7	17.7 R		688
1981 RF_7		1997 07 08.37296	22 18 41.38	−19 41 26.8			688
1984 WC_2		1997 07 01.33576	20 07 00.26	−15 47 55.0			688
1984 WC_2		1997 07 01.33825	20 07 00.13	−15 47 54.3			688
1984 WC_2		1997 07 01.35666	20 06 59.28	−15 47 53.6		I	688
1984 WC_2		1997 07 01.35914	20 06 59.15	−15 47 53.6		I	688
1986 GZ		1997 05 27.32296	15 01 54.04	+05 59 06.4	17.9 R		688
1986 GZ		1997 05 27.32590	15 01 53.92	+05 59 07.8	17.5 R		688
1986 GZ		1997 05 27.34620	15 01 52.92	+05 59 20.5	17.6 R		688
1986 GZ		1997 05 27.34913	15 01 52.75	+05 59 22.6	17.7 R		688
1988 CL_2		1997 06 12.30691	16 03 23.26	−13 14 42.6	18.7 R		688
1988 CL_2		1997 06 12.31913	16 03 22.67	−13 14 41.8	17.8 R		688
1988 CL_2		1997 07 02.16696	15 49 22.71	−13 26 06.3			688
1988 CL_2		1997 07 02.16944	15 49 22.63	−13 26 06.4			688
1988 CL_2		1997 07 02.19270	15 49 21.95	−13 26 08.6			688
1988 CL_2		1997 07 02.19520	15 49 21.87	−13 26 09.1			688
1988 CL_2		1997 07 03.16725	15 48 55.40	−13 27 46.1			688
1988 CL_2		1997 07 03.16973	15 48 55.39	−13 27 46.5			688
1988 CL_2		1997 07 03.19468	15 48 54.69	−13 27 49.9			688
1988 RR_{10}		1997 07 01.27308	15 43 44.75	+00 45 10.7			688
1988 RR_{10}		1997 07 01.27487	15 43 44.74	+00 45 10.4			688
1988 RR_{10}		1997 07 01.28623	15 43 44.52	+00 45 09.3			688
1988 RR_{10}		1997 07 01.28802	15 43 44.52	+00 45 09.2			688
1988 RL_{13}		1997 07 03.21590	15 16 46.97	−18 32 37.8			688
1988 RL_{13}		1997 07 03.21840	15 16 46.95	−18 32 37.5			688
1988 RL_{13}		1997 07 03.24340	15 16 46.59	−18 32 38.7			688
1988 RL_{13}		1997 07 03.24589	15 16 46.59	−18 32 38.4			688
1988 RL_{13}		1997 07 04.16781	15 16 34.28	−18 33 21.9			688
1988 RL_{13}		1997 07 04.17029	15 16 34.29	−18 33 22.6			688
1988 RL_{13}		1997 07 04.19455	15 16 33.98	−18 33 23.7			688
1988 RL_{13}		1997 07 04.19705	15 16 33.91	−18 33 24.0			688
1988 SJ_3		1997 07 04.18367	16 16 39.27	−13 23 37.0		I	688
1988 SJ_3		1997 07 04.18617	16 16 39.17	−13 23 37.5		I	688
1988 SJ_3		1997 07 04.21302	16 16 38.50	−13 23 41.1		I	688
1989 TM_1		1997 07 06.40936	23 21 30.31	−16 26 46.1			688
1989 TM_1		1997 07 06.41186	23 21 30.29	−16 26 45.5			688
1989 TM_1		1997 07 06.42464	23 21 30.53	−16 26 46.4			688
1989 TM_1		1997 07 06.42713	23 21 30.56	−16 26 46.4			688
1989 TM_1		1997 07 07.40659	23 21 47.49	−16 27 22.8			688
1989 TM_1		1997 07 07.40909	23 21 47.54	−16 27 23.2			688
1989 TM_1		1997 07 07.42215	23 21 47.73	−16 27 23.8			688
1989 TM_1		1997 07 07.42465	23 21 47.80	−16 27 24.1			688
1989 XD_2		1997 07 01.34091	20 20 36.53	−17 18 10.6			688
1989 XD_2		1997 07 01.34340	20 20 36.47	−17 18 11.3			688
1989 XD_2		1997 07 01.36181	20 20 35.73	−17 18 16.7			688
1990 QT_1		1997 07 03.22101	15 18 30.19	−14 07 10.7			688

1990 QT_1	1997 07 03.22350	15 18 30.13	−14 07 11.0			688
1990 QT_1	1997 07 03.24850	15 18 29.94	−14 07 13.6		I	688
1990 QT_1	1997 07 03.25100	15 18 29.89	−14 07 13.9		I	688
1990 QT_1	1997 07 04.17293	15 18 23.37	−14 08 48.0			688
1990 QT_1	1997 07 04.17542	15 18 23.31	−14 08 47.4			688
1990 QT_1	1997 07 04.19964	15 18 23.10	−14 08 50.1			688
1990 QT_1	1997 07 04.20214	15 18 23.10	−14 08 50.7			688
1990 QX_1	1997 07 08.34074	22 34 08.30	−10 27 47.2	18.2 R		688
1990 QX_1	1997 07 08.37720	22 34 08.40	−10 27 48.0			688
1990 QC_3	1997 07 08.34663	23 40 05.68	−00 44 11.7	18.5 R		688
1990 QC_3	1997 07 08.38553	23 40 07.71	−00 44 01.7			688
1990 QO_5	1997 07 08.36295	21 24 24.15	−17 41 32.8	17.6 R		688
1990 RF_2	1997 07 01.29551	19 52 12.89	−18 02 49.1			688
1990 RF_2	1997 07 01.29730	19 52 12.79	−18 02 49.1			688
1990 RF_2	1997 07 01.31852	19 52 11.72	−18 02 50.5			688
1990 RF_2	1997 07 01.32031	19 52 11.62	−18 02 50.6			688
1990 RW_8	1997 07 08.32731	22 02 38.28	−06 29 57.1	17.5 R		688
1990 RM_9	1997 07 03.22605	15 21 09.84	−17 30 30.6			688
1990 RM_9	1997 07 03.22855	15 21 09.82	−17 30 30.1			688
1990 RM_9	1997 07 03.25359	15 21 09.42	−17 30 25.6			688
1990 RM_9	1997 07 03.25608	15 21 09.35	−17 30 25.1			688
1990 RM_9	1997 07 04.17811	15 20 57.76	−17 27 46.8			688
1990 RM_9	1997 07 04.18060	15 20 57.72	−17 27 46.8			688
1990 RM_9	1997 07 04.20471	15 20 57.36	−17 27 42.3			688
1990 RM_9	1997 07 04.20720	15 20 57.32	−17 27 42.3			688
1990 SX_{10}	1997 07 08.34987	23 51 58.66	+02 09 26.8	17.3 R		688
1990 SX_{10}	1997 07 08.38980	23 52 00.28	+02 09 46.1			688
1990 TK_{15}	1997 07 06.37267	22 46 11.15	−12 22 34.6			688
1990 TK_{15}	1997 07 06.37516	22 46 11.15	−12 22 34.3			688
1990 TK_{15}	1997 07 06.39918	22 46 11.36	−12 22 30.8			688
1990 TK_{15}	1997 07 06.40167	22 46 11.45	−12 22 30.8			688
1990 TK_{15}	1997 07 07.37060	22 46 21.67	−12 20 19.4			688
1990 TK_{15}	1997 07 07.37309	22 46 21.71	−12 20 19.1			688
1990 TK_{15}	1997 07 07.39617	22 46 21.89	−12 20 16.4			688
1990 TK_{15}	1997 07 07.39867	22 46 21.91	−12 20 15.8			688
1991 RD_{16}	1997 05 27.33022	15 58 40.93	−12 16 04.6	18.6 R		688
1991 RD_{16}	1997 05 27.33385	15 58 40.62	−12 16 03.6	18.6 R		688
1991 RD_{16}	1997 05 27.35330	15 58 39.33	−12 15 59.8	18.8 R		688
1991 RD_{16}	1997 05 27.35692	15 58 39.16	−12 15 59.8	18.5 R		688
1992 EZ_6	1997 07 06.36723	22 25 00.38	−10 28 55.4		E	688
1992 EZ_6	1997 07 06.36972	22 25 00.42	−10 28 56.0		E	688
1992 EZ_6	1997 07 06.39409	22 25 00.78	−10 29 05.8		E	688
1992 EZ_6	1997 07 06.39659	22 25 00.86	−10 29 07.2		E	688
1992 EZ_6	1997 07 07.36551	22 25 17.64	−10 35 33.3		E	688
1992 EZ_6	1997 07 07.36800	22 25 17.65	−10 35 33.5		E	688
1992 EZ_6	1997 07 07.39102	22 25 17.97	−10 35 42.9		E	688
1992 EZ_6	1997 07 07.39351	22 25 18.02	−10 35 44.0		E	688
1992 EP_7	1997 06 12.32931	17 02 45.31	−00 11 43.2	16.5 R		688
1992 EP_7	1997 06 12.34287	17 02 44.56	−00 11 46.3	16.4 R		688
1992 ES_{13}	1997 07 01.34618	20 25 50.99	−15 52 35.4			688
1992 ES_{13}	1997 07 01.34867	20 25 50.86	−15 52 36.1			688
1992 ES_{13}	1997 07 01.36723	20 25 50.02	−15 52 38.0			688
1992 ES_{13}	1997 07 01.36972	20 25 49.90	−15 52 38.1			688
1992 LF	1997 07 01.26922	14 07 06.30	+10 05 14.9			688
1992 LF	1997 07 01.27102	14 07 06.32	+10 05 14.1			688
1992 LF	1997 07 01.28216	14 07 06.38	+10 05 11.0			688
1992 LF	1997 07 01.28396	14 07 06.35	+10 05 10.1			688
1993 FD_{40}	1997 07 02.18240	16 10 19.42	−09 45 20.7		I	688
1993 FD_{40}	1997 07 02.18488	16 10 19.39	−09 45 21.5		I	688
1993 FD_{40}	1997 07 02.20808	16 10 18.90	−09 45 24.6		I	688
1993 FD_{40}	1997 07 02.21057	16 10 18.77	−09 45 25.0		I	688
1993 FD_{40}	1997 07 03.18264	16 09 58.37	−09 47 28.4		I	688
1993 FD_{40}	1997 07 03.18513	16 09 58.30	−09 47 28.4		I	688
1993 FD_{40}	1997 07 03.21075	16 09 57.72	−09 47 31.1		I	688
1993 FD_{40}	1997 07 03.21325	16 09 57.64	−09 47 31.6		I	688
1993 FP_{73}	1997 07 02.17216	15 51 30.86	−17 38 10.7			688
1993 FP_{73}	1997 07 02.17465	15 51 30.79	−17 38 10.7			688
1993 FP_{73}	1997 07 02.19781	15 51 30.15	−17 38 07.9			688
1993 FP_{73}	1997 07 02.20031	15 51 30.08	−17 38 07.6			688
1993 FP_{73}	1997 07 03.17234	15 51 05.40	−17 36 31.4		I	688
1993 FP_{73}	1997 07 03.17484	15 51 05.30	−17 36 30.8		I	688
1993 FP_{73}	1997 07 03.20051	15 51 04.66	−17 36 29.3		I	688
1993 FP_{73}	1997 07 03.20301	15 51 04.61	−17 36 29.2		I	688
1993 XB	1997 06 12.35159	19 25 46.07	−11 50 13.2	18.0 R		688
1993 XB	1997 06 12.36676	19 25 45.58	−11 50 11.4	18.1 R		688
1993 XS	1997 07 08.33072	21 24 51.91	−17 48 08.8	19.2 R		688
1993 XS	1997 07 08.36295	21 24 50.90	−17 48 15.2			688
1994 AL_1	1997 05 14.37175	17 55 01.01	+07 47 40.3	17.5 R		688
1994 AL_1	1997 05 14.37425	17 55 00.85	+07 47 39.3	17.6 R		688
1994 AL_1	1997 05 27.33831	17 39 30.86	+05 27 44.2	17.2 R		688
1994 AL_1	1997 05 27.34193	17 39 30.51	+05 27 41.0	17.2 R		688
1994 AL_1	1997 05 27.36117	17 39 28.79	+05 27 24.5	17.2 R		688
1994 AL_1	1997 05 27.36479	17 39 28.43	+05 27 21.8	17.3 R		688
1994 YC	1997 07 06.36458	22 18 39.93	−10 09 32.7		I	688
1994 YC	1997 07 06.38888	22 18 39.51	−10 09 33.3			688
1994 YC	1997 07 06.39137	22 18 39.47	−10 09 33.2			688
1994 YC	1997 07 07.36031	22 18 23.06	−10 09 48.5			688
1994 YC	1997 07 07.36280	22 18 23.03	−10 09 48.4			688
1994 YC	1997 07 07.38593	22 18 22.59	−10 09 49.0			688
1994 YC	1997 07 07.38841	22 18 22.52	−10 09 49.0			688
1995 CW_1	1997 07 01.38125	21 35 26.53	+22 21 12.0			688
1995 CW_1	1997 07 01.38374	21 35 26.47	+22 21 13.8		I	688
1995 CW_1	1997 07 01.40353	21 35 26.28	+22 21 26.0			688
1995 CW_1	1997 07 01.40602	21 35 26.28	+22 21 27.5			688
1995 CW_1	1997 07 03.34178	21 35 06.69	+22 41 04.2			688
1995 CW_1	1997 07 03.34427	21 35 06.62	+22 41 05.8			688
1995 SW_{48}	1997 06 12.28509	14 53 11.08	−13 15 48.5	17.7 R		688
1995 SW_{48}	1997 06 12.29709	14 53 10.69	−13 15 35.7	17.7 R		688
1995 XD_1	1997 07 03.21590	15 16 38.96	−18 28 37.2			688
1995 XD_1	1997 07 03.21840	15 16 38.94	−18 28 37.1			688
1995 XD_1	1997 07 03.24340	15 16 38.64	−18 28 37.7			688
1995 XD_1	1997 07 03.24589	15 16 38.63	−18 28 37.4			688
1995 XD_1	1997 07 04.16781	15 16 29.88	−18 29 01.8		V	688
1995 XD_1	1997 07 04.17029	15 16 29.76	−18 29 01.8		V	688

1995 XD_1		1997 07 04.19455	15 16 29.53	−18 29 01.7		V	688
1995 XD_1		1997 07 04.19705	15 16 29.54	−18 29 01.7		V	688
1995 YD_1		1997 06 12.30206	15 27 43.24	−07 43 43.5	17.1 R		688
1995 YD_1		1997 06 12.31433	15 27 42.70	−07 43 46.6	17.0 R		688
1996 DW_2		1997 07 01.24748	14 54 50.15	+06 26 20.4			688
1996 DW_2		1997 07 01.24925	14 54 50.12	+06 26 19.6			688
1996 DW_2		1997 07 01.25637	14 54 50.03	+06 26 17.3			688
1996 DW_2		1997 07 01.25816	14 54 50.05	+06 26 16.2			688
1996 FL_5		1997 07 06.41446	00 40 30.30	−02 01 33.2			688
1996 FL_5		1997 07 06.41694	00 40 30.41	−02 01 32.5			688
1996 FL_5		1997 07 06.42998	00 40 30.96	−02 01 29.9		I	688
1996 FL_5		1997 07 06.43457	00 40 31.13	−02 01 28.8		I	688
1996 FL_5		1997 07 07.41185	00 41 12.41	−01 57 37.4			688
1996 FL_5		1997 07 07.41434	00 41 12.50	−01 57 36.7			688
1996 FL_5		1997 07 07.42726	00 41 12.98	−01 57 33.0			688
1996 FL_5		1997 07 07.42975	00 41 13.11	−01 57 32.7			688
1997 NS_{10}		1997 07 02.16696	15 49 57.76	−13 30 19.6			688
1997 NS_{10}		1997 07 02.16944	15 49 57.65	−13 30 19.2			688
1997 NS_{10}		1997 07 02.19270	15 49 56.98	−13 30 19.5			688
1997 NS_{10}		1997 07 02.19520	15 49 56.90	−13 30 19.7			688
1997 NS_{10}		1997 07 03.16725	15 49 30.44	−13 30 36.1			688
1997 NS_{10}		1997 07 03.16973	15 49 30.37	−13 30 36.3			688
1997 NS_{10}		1997 07 03.19468	15 49 29.65	−13 30 36.8			688
1997 NT_{10}	*	1997 07 01.38679	21 19 23.75	−17 52 48.1			688
1997 NT_{10}		1997 07 01.38929	21 19 23.65	−17 52 48.7			688
1997 NT_{10}		1997 07 01.40868	21 19 23.08	−17 52 54.0			688
1997 NT_{10}		1997 07 01.41117	21 19 23.02	−17 52 55.0			688
1997 NT_{10}		1997 07 03.35207	21 18 26.93	−18 01 42.6			688
1997 NT_{10}		1997 07 03.35457	21 18 26.84	−18 01 43.1			688
1997 NT_{10}		1997 07 03.37372	21 18 26.22	−18 01 48.7			688
1997 NT_{10}		1997 07 03.37622	21 18 26.15	−18 01 49.0			688
1997 NU_{10}	*	1997 07 02.17216	15 52 29.63	−17 34 55.9			688
1997 NU_{10}		1997 07 02.17465	15 52 29.59	−17 34 56.0			688
1997 NU_{10}		1997 07 02.19781	15 52 29.12	−17 34 55.4			688
1997 NU_{10}		1997 07 02.20031	15 52 29.06	−17 34 55.5			688
1997 NU_{10}		1997 07 03.17234	15 52 11.86	−17 34 48.8		V	688
1997 NU_{10}		1997 07 03.17484	15 52 11.74	−17 34 48.4		V	688
1997 NU_{10}		1997 07 03.20051	15 52 11.27	−17 34 48.0		V	688
1997 NU_{10}		1997 07 03.20301	15 52 11.28	−17 34 48.3		V	688
1997 NV_{10}	*	1997 07 02.17728	15 59 05.05	−14 12 48.2			688
1997 NV_{10}		1997 07 02.17977	15 59 04.99	−14 12 47.2			688
1997 NV_{10}		1997 07 02.20295	15 59 04.41	−14 12 42.4			688
1997 NV_{10}		1997 07 02.20545	15 59 04.41	−14 12 42.5			688
1997 NV_{10}		1997 07 03.17748	15 58 44.45	−14 09 36.9			688
1997 NV_{10}		1997 07 03.17998	15 58 44.34	−14 09 36.2			688
1997 NV_{10}		1997 07 03.20567	15 58 43.81	−14 09 31.4			688
1997 NV_{10}		1997 07 03.20816	15 58 43.75	−14 09 31.1			688
1997 NW_{10}	*	1997 07 03.23627	16 31 43.77	−17 25 38.2		V	688
1997 NW_{10}		1997 07 03.24083	16 31 43.62	−17 25 38.2		V	688
1997 NW_{10}		1997 07 03.26400	16 31 42.74	−17 25 39.1		V	688
1997 NW_{10}		1997 07 03.26649	16 31 42.60	−17 25 39.0		V	688
1997 NW_{10}		1997 07 04.18922	16 31 08.54	−17 25 59.5		V	688
1997 NW_{10}		1997 07 04.19171	16 31 08.44	−17 25 58.7		V	688
1997 NX_{10}	*	1997 07 06.35641	21 43 55.35	+04 31 09.4		I	688
1997 NX_{10}		1997 07 06.35889	21 43 55.34	+04 31 09.7		I	688
1997 NX_{10}		1997 07 06.38380	21 43 54.86	+04 31 15.6		I	688
1997 NX_{10}		1997 07 06.38628	21 43 54.79	+04 31 16.3		I	688
1997 NX_{10}		1997 07 07.35520	21 43 37.23	+04 34 43.0			688
1997 NX_{10}		1997 07 07.35766	21 43 37.22	+04 34 42.8			688
1997 NX_{10}		1997 07 07.38086	21 43 36.73	+04 34 47.7			688
1997 NX_{10}		1997 07 07.38334	21 43 36.72	+04 34 48.3			688
1997 NY_{10}	*	1997 07 06.36209	22 18 16.53	−10 02 44.7			688
1997 NY_{10}		1997 07 06.36458	22 18 16.59	−10 02 44.7			688
1997 NY_{10}		1997 07 06.38888	22 18 17.20	−10 02 43.7			688
1997 NY_{10}		1997 07 06.39137	22 18 17.22	−10 02 43.3			688
1997 NY_{10}		1997 07 07.36031	22 18 42.62	−10 01 56.2			688
1997 NY_{10}		1997 07 07.36280	22 18 42.67	−10 01 56.1			688
1997 NY_{10}		1997 07 07.38593	22 18 43.14	−10 01 54.9			688
1997 NY_{10}		1997 07 07.38841	22 18 43.25	−10 01 55.4			688
1997 NZ_{10}	*	1997 07 06.37267	22 46 24.55	−12 10 26.2		V	688
1997 NZ_{10}		1997 07 06.37516	22 46 24.60	−12 10 26.8		V	688
1997 NZ_{10}		1997 07 06.39918	22 46 24.59	−12 10 34.0		V	688
1997 NZ_{10}		1997 07 06.40167	22 46 24.54	−12 10 34.8		V	688
1997 NZ_{10}		1997 07 07.37060	22 46 25.83	−12 15 15.8		V	688
1997 NZ_{10}		1997 07 07.37309	22 46 25.77	−12 15 15.9		V	688
1997 NZ_{10}		1997 07 07.39617	22 46 25.74	−12 15 24.4			688
1997 NZ_{10}		1997 07 07.39867	22 46 25.74	−12 15 24.1			688
1997 NA_{11}	*	1997 07 06.37788	23 11 59.50	−09 11 44.4		V	688
1997 NA_{11}		1997 07 06.38037	23 11 59.61	−09 11 44.3		V	688
1997 NA_{11}		1997 07 06.40427	23 12 00.21	−09 11 45.2		V	688
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1997 NB_{11}		1997 07 07.41955	00 45 55.06	+04 51 25.5		V	688
1997 NB_{11}		1997 07 07.43234	00 45 56.15	+04 51 31.1		V	688
1997 NB_{11}		1997 07 07.43483	00 45 56.35	+04 51 32.9		V	688
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3039 P-L		1997 07 01.35390	20 46 41.06	−09 25 41.9		I	688
3039 P-L		1997 07 01.37308	20 46 40.40	−09 25 40.3			688
3039 P-L		1997 07 01.37558	20 46 40.34	−09 25 40.2			688
2116 T-2		1997 07 06.36723	22 24 06.31	−10 34 22.8			688
2116 T-2		1997 07 06.36972	22 24 06.28	−10 34 22.6			688
2116 T-2		1997 07 06.39409	22 24 06.02	−10 34 24.3			688
2116 T-2		1997 07 06.39659	22 24 05.98	−10 34 24.6			688
2244 T-2		1997 07 01.29943	19 56 11.39	−19 10 50.9			688
2244 T-2		1997 07 01.30123	19 56 11.34	−19 10 51.5			688
2244 T-2		1997 07 01.32240	19 56 10.31	−19 10 54.0			688
2244 T-2		1997 07 01.32419	19 56 10.19	−19 10 54.0			688

2114 T-3	1997 07 01.30329	20 13 31.81	−06 09 03.3			688
2114 T-3	1997 07 01.30509	20 13 31.74	−06 09 03.0			688
2114 T-3	1997 07 01.32626	20 13 30.91	−06 09 01.7		c	688
2114 T-3	1997 07 01.32807	20 13 30.83	−06 09 01.6		c	688
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(4034)	1997 07 03.38142	23 33 05.06	+08 56 09.6			688

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

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

GSC, USNO-A1.0

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1981 DE	1997 07 09.33718	19 48 03.66	−14 11 12.7	17.0	V	689
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1981 EK_{25}	1997 07 09.42127	21 49 28.48	−13 18 32.0	15.8	V	689
1981 EZ_{27}	1997 07 09.34103	19 53 36.84	−22 40 36.8	16.4	V	689
1983 TU_1	1997 07 08.16102	15 29 44.52	−24 28 00.8	17.0	V	689
1984 DQ	1997 07 09.36677	20 30 45.80	−30 41 46.0	16.2	V	689
1984 HO_1	1997 07 08.37022	20 31 49.08	−25 55 49.0	16.2	V	689
1985 TY_1	1997 07 08.22046	16 55 34.13	−18 54 16.6	17.4	V	689
1985 TY_1	1997 07 09.21733	16 54 58.81	−18 51 25.0	17.0	V	689
1986 CF_2	1997 07 08.33322	19 38 23.71	−34 00 34.8	15.4	V	689
1986 CF_2	1997 07 09.32970	19 37 14.59	−33 58 04.4	15.5	V	689
1987 DH_6	1997 07 08.39051	21 01 06.88	−15 30 38.1	16.4	V	689
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1988 RH_{10}	1997 07 09.37719	20 45 48.95	−18 01 13.1	16.1	V	689
1988 XB_5	1997 07 09.32175	19 25 45.91	−27 58 52.8	16.2	V	689
1989 AT	1997 07 08.43271	22 02 03.21	−22 37 04.7	16.8	V	689
1989 AT	1997 07 09.42977	22 01 44.67	−22 43 36.6	16.6	V	689
1989 GG_4	1997 07 08.18863	16 09 37.08	−14 18 52.3	16.8	V	689
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1992 PD_2	1997 07 09.31545	19 16 40.50	−10 07 14.8	15.3	V	689
1992 RT_7	1997 07 09.39464	21 11 01.29	−17 05 19.4	17.0	V	689
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1993 HH_7	1997 07 08.33773	19 44 54.31	−25 38 01.4	15.3	V	689
1993 HH_7	1997 07 09.33428	19 43 52.25	−25 40 10.3	15.7	V	689
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Observers T. Gehrels, J. Montani, J. V. Scotti

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GSC

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1993 FY_{37}		1993 04 14.24532	12 50 57.63	−02 13 50.1	18.6	V	691
1993 FY_{37}		1993 04 14.27724	12 50 55.53	−02 13 39.9			691
1993 FY_{37}		1993 04 14.30945	12 50 53.99	−02 13 24.8			691
1993 SS_4		1997 08 10.35833	22 44 15.24	−09 34 32.8	19.1	V	691
1993 SS_4		1997 08 10.37948	22 44 14.35	−09 34 37.4	19.2	V	691
1993 SS_4		1997 08 10.40070	22 44 13.48	−09 34 42.0	19.0	V	691
1993 TK_3		1994 12 28.50146	09 26 19.30	+17 43 25.9	19.5	V	691
1993 TK_3		1994 12 28.52548	09 26 18.67	+17 43 30.6			691
1993 TK_3		1994 12 28.54945	09 26 18.02	+17 43 35.4			691
1994 ED_9	*	1994 03 09.22857	10 04 44.97	+06 09 31.4	17.4	V	691
1994 ED_9		1994 03 09.29140	10 04 42.53	+06 09 53.7			691
1994 ED_9		1994 03 09.34339	10 04 40.83	+06 10 11.5			691
1994 PC_{34}		1993 06 14.18179	14 53 33.51	−01 30 08.4			691
1994 PC_{34}		1993 06 14.21340	14 53 32.78	−01 30 11.7			691
1994 PC_{34}		1993 06 14.24541	14 53 32.05	−01 30 14.7	18.4	V	691
1994 UB_1		1993 05 18.20622	14 17 53.68	−16 08 07.9			691
1994 UB_1		1993 05 18.22865	14 17 52.24	−16 08 08.5			691
1994 UB_1		1993 05 18.25098	14 17 50.98	−16 08 07.3	17.8	V	691
1994 WG_2		1993 07 26.39320	21 39 25.17	−10 45 06.5			691
1994 WG_2		1993 07 26.42809	21 39 23.69	−10 45 16.9			691
1994 WG_2		1993 07 26.46151	21 39 22.25	−10 45 26.6	17.8	V	691
1994 YX_1		1997 07 31.43041	22 13 56.81	−14 51 34.7	18.0	V	691
1994 YX_1		1997 07 31.43970	22 13 56.40	−14 51 37.0	18.0	V	691
1994 YX_1		1997 07 31.45701	22 13 55.65	−14 51 40.7	18.1	V	691
1995 BB_{17}	*	1995 01 23.08181	03 00 13.40	+07 00 26.2	18.0	V	691
1995 BB_{17}		1995 01 23.11442	03 00 14.38	+07 00 40.8			691
1995 BB_{17}		1995 01 23.13968	03 00 15.14	+07 00 51.6			691
1995 GX_8	*	1995 04 07.24422	12 30 53.53	−02 45 45.1	16.5	V	691
1995 GX_8		1995 04 07.26636	12 30 52.18	−02 45 41.9			691
1995 GX_8		1995 04 07.29682	12 30 50.35	−02 45 37.3			691
1995 YU_{25}	*	1995 12 31.38261	09 45 36.73	+18 55 34.2			691
1995 YU_{25}		1995 12 31.39467	09 45 36.48	+18 55 40.0	17.3	V	691
1995 YU_{25}		1995 12 31.41039	09 45 36.15	+18 55 47.6			691
1996 BF_{18}	*	1996 01 29.44052	09 29 00.95	+05 31 55.5			691
1996 BF_{18}		1996 01 29.46154	09 28 59.75	+05 32 00.9	18.9	V	691
1996 BF_{18}		1996 01 29.48266	09 28 58.55	+05 32 06.2			691
1996 BF_{18}		1996 02 17.20449	09 11 12.00	+07 10 11.5			691
1996 BF_{18}		1996 02 17.22553	09 11 10.73	+07 10 18.9			691
1996 BF_{18}		1996 02 17.24653	09 11 09.49	+07 10 26.5	18.4	V	691
1996 CT_7		1997 06 05.15536	15 25 10.69	−13 50 22.6	18.6	V	691
1996 CT_7		1997 06 05.17753	15 25 09.60	−13 50 17.0	18.6	V	691
1996 CT_7		1997 06 05.19945	15 25 08.52	−13 50 11.9	18.8	V	691
1996 CW_7		1994 11 28.36788	03 29 17.80	+10 08 51.4	18.1	V	691
1996 CW_7		1994 11 28.39128	03 29 16.36	+10 08 48.9			691
1996 CW_7		1994 11 28.41475	03 29 14.86	+10 08 46.8			691
1996 CK_9	*	1996 02 10.45526	11 26 09.76	+05 05 46.7	18.2	V	691
1996 CK_9		1996 02 10.47621	11 26 08.96	+05 05 55.2			691
1996 CK_9		1996 02 10.49775	11 26 08.15	+05 06 03.6			691

1996 FM_{23}	*	1996 03 20.27928	11 59 42.41	−02 53 49.0			691
1996 FM_{23}		1996 03 20.30216	11 59 40.91	−02 53 43.8	17.8	V	691
1996 FM_{23}		1996 03 20.32445	11 59 39.44	−02 53 39.0			691
1996 GC_{18}		1997 08 01.32623	20 43 29.62	−18 16 16.6	19.0	V	691
1996 GC_{18}		1997 08 01.34851	20 43 28.39	−18 16 20.8			691
1996 GC_{18}		1997 08 01.37077	20 43 27.15	−18 16 26.5			691
1996 JS_5		1995 03 10.12524	09 24 48.13	+13 16 54.4	19.4	V	691
1996 JS_5		1995 03 10.15168	09 24 47.09	+13 17 00.2			691
1996 JS_5		1995 03 10.17393	09 24 46.36	+13 17 05.2			691
1996 JS_5		1997 07 14.37989	21 28 03.79	−11 20 45.6	18.6	V	691
1996 JS_5		1997 07 14.39922	21 28 03.17	−11 20 49.0	18.7	V	691
1996 JS_5		1997 07 14.41695	21 28 02.60	−11 20 51.8	18.6	V	691
1996 SG_6		1996 11 07.21444	01 20 10.33	+09 23 10.7	18.6	V	691
1996 SG_6		1996 11 07.23583	01 20 09.43	+09 23 07.9	18.3	V	691
1996 SG_6		1996 11 07.25723	01 20 08.55	+09 23 04.9	18.4	V	691
1997 CJ_{29}		1997 01 31.22693	09 10 43.27	+13 43 03.2	16.2	V	691
1997 CJ_{29}		1997 01 31.24853	09 10 41.93	+13 43 11.8	16.3	V	691
1997 CJ_{29}		1997 01 31.26993	09 10 40.57	+13 43 21.0	16.3	V	691
1997 EK_{52}		1997 04 15.20162	12 11 52.00	−00 06 46.4	19.2	V	691
1997 EK_{52}		1997 04 15.22352	12 11 51.04	−00 06 39.1	19.1	V	691
1997 EK_{52}		1997 04 15.24508	12 11 50.09	−00 06 31.3	19.2	V	691
1997 FB_3		1997 04 27.15450	12 36 17.05	−03 48 02.7	18.6	V	691
1997 FB_3		1997 04 27.17534	12 36 16.41	−03 47 54.9	18.6	V	691
1997 FB_3		1997 04 27.19645	12 36 15.76	−03 47 47.0	19.3	V	691
1997 FB_3		1997 05 09.15602	12 31 41.32	−02 41 21.4	18.8	V	691
1997 FB_3		1997 05 09.17695	12 31 41.15	−02 41 14.0	17.8	V	691
1997 FB_3		1997 05 09.19796	12 31 40.66	−02 41 07.1	17.7	V	691
1997 FZ_3		1997 04 27.19742	12 37 40.30	−03 55 04.0	19.4	V	691
1997 FZ_3		1997 05 08.15421	12 32 12.08	−03 16 02.4	19.5	V	691
1997 FZ_3		1997 05 08.17526	12 32 11.45	−03 15 55.2	18.0	V	691
1997 FZ_3		1997 05 08.19610	12 32 11.16	−03 15 54.3	18.4	V	691
1997 FB_4		1997 05 05.20314	12 31 32.46	−04 01 20.6	18.4	V	691
1997 FB_4		1997 05 05.22628	12 31 31.70	−04 01 20.0	19.0	V	691
1997 FB_4		1997 05 05.24822	12 31 30.99	−04 01 19.1	19.0	V	691
1997 FG_4		1997 05 09.15756	12 33 54.28	−02 50 29.1	19.0	V	691
1997 FG_4		1997 05 09.17848	12 33 53.84	−02 50 24.5	19.0	V	691
1997 FG_4		1997 05 09.19949	12 33 53.35	−02 50 20.1	19.0	V	691
1997 GF_{16}		1997 04 27.15584	12 38 12.73	−03 52 56.4	18.6	V	691
1997 GF_{16}		1997 04 27.17666	12 38 11.43	−03 52 59.5	18.7	V	691
1997 GF_{16}		1997 04 27.19777	12 38 10.10	−03 53 02.8	18.9	V	691
1997 HQ_1		1997 05 08.14548	12 19 35.87	−03 18 14.2	18.0	V	691
1997 HQ_1		1997 05 08.16653	12 19 35.40	−03 18 13.4	17.9	V	691
1997 HQ_1		1997 05 08.18737	12 19 34.96	−03 18 14.3	18.0	V	691
1997 HS_3		1995 12 29.50801	08 39 59.41	+15 40 06.3			691
1997 HS_3		1995 12 29.53507	08 39 58.53	+15 40 10.2	20.2	V	691
1997 HS_3		1996 01 13.20140	08 29 53.95	+16 27 57.6	19.3	V	691
1997 HS_3		1996 01 13.22353	08 29 52.84	+16 28 03.0			691
1997 HS_3		1996 01 13.24517	08 29 51.76	+16 28 08.0			691
1997 JA_8		1993 04 15.22569	12 21 54.37	−02 28 08.6	18.9	V	691
1997 JA_8		1993 04 15.25624	12 21 52.88	−02 27 57.5			691
1997 JA_8		1993 04 15.28321	12 21 51.56	−02 27 48.3			691
1997 JS_{14}		1995 11 28.46937	09 20 13.07	+13 06 47.3	20.3	V	691
1997 JS_{14}		1995 11 28.49588	09 20 13.64	+13 06 44.0			691
1997 JS_{14}		1995 11 28.52243	09 20 14.22	+13 06 39.9			691
1997 JH_{16}		1993 04 15.21647	12 08 35.20	−02 45 52.8	18.1	V	691
1997 JH_{16}		1993 04 15.24701	12 08 33.83	−02 45 39.2			691
1997 JH_{16}		1993 04 15.27398	12 08 32.60	−02 45 26.8			691
1997 JQ_{18}	*	1997 05 14.33244	16 20 15.44	−01 18 03.7	18.3	V	691
1997 JQ_{18}		1997 05 14.35342	16 20 14.54	−01 17 57.9	18.2	V	691
1997 JQ_{18}		1997 05 14.37495	16 20 13.63	−01 17 51.8	18.4	V	691
1997 JQ_{18}		1997 05 30.31619	16 08 47.42	−00 19 10.5	18.0	V	691
1997 JQ_{18}		1997 05 30.33750	16 08 46.48	−00 19 07.0	18.0	V	691
1997 JQ_{18}		1997 05 30.36213	16 08 45.39	−00 19 03.3	18.0	V	691
1997 LJ_3		1992 03 26.32694	12 33 56.32	+00 33 27.2	18.5	V	691
1997 LJ_3		1992 03 26.34710	12 33 55.31	+00 33 35.0			691
1997 LJ_3		1992 03 26.37069	12 33 54.12	+00 33 44.0			691
1997 LJ_3		1994 10 05.42180	01 50 53.41	+06 14 20.1	17.7	V	691
1997 LJ_3		1994 10 05.44411	01 50 52.40	+06 14 12.5			691
1997 LJ_3		1994 10 05.46625	01 50 51.37	+06 14 05.2			691
1997 LC_{15}		1997 05 31.31200	15 43 03.52	−12 16 22.1	19.1	V	691
1997 LC_{15}		1997 05 31.33344	15 43 02.24	−12 16 19.7	18.8	V	691
1997 LC_{15}		1997 05 31.35477	15 43 00.98	−12 16 17.6	18.9	V	691
1997 LC_{15}		1997 06 29.15991	15 23 18.16	−12 12 24.5	19.6	V	691
1997 LC_{15}		1997 06 29.18146	15 23 17.68	−12 12 25.4	19.3	V	691
1997 LC_{15}		1997 06 29.20303	15 23 17.17	−12 12 27.4	19.5	V	691
1997 LS_{16}		1997 06 29.16471	15 30 38.88	−11 58 55.4	18.9	V	691
1997 LS_{16}		1997 06 29.18626	15 30 38.33	−11 58 56.7	18.7	V	691
1997 LS_{16}		1997 06 29.20780	15 30 37.81	−11 58 58.8	18.7	V	691
1997 MR		1997 05 29.20612	15 45 48.59	−13 48 20.2	18.4	V	691
1997 MR		1997 05 29.23100	15 45 47.41	−13 48 14.4	18.6	V	691
1997 MR		1997 05 29.25292	15 45 46.39	−13 48 09.4	18.6	V	691
1997 MJ_2		1997 06 10.24283	15 44 25.56	−13 27 29.2	18.0	V	691
1997 MJ_2		1997 06 10.26508	15 44 24.38	−13 27 31.3	18.1	V	691
1997 MJ_2		1997 06 10.28733	15 44 23.23	−13 27 32.5	18.0	V	691
1997 MJ_2		1997 06 26.17372	15 33 57.21	−13 58 23.0	18.3	V	691
1997 MJ_2		1997 06 26.19516	15 33 56.61	−13 58 27.1	18.3	V	691
1997 MJ_2		1997 06 26.21687	15 33 55.96	−13 58 31.2	18.4	V	691
1997 ML_2		1997 06 29.23103	15 37 54.78	−14 11 03.0	19.4	V	691
1997 ML_2		1997 06 29.24224	15 37 54.48	−14 11 02.8	19.3	V	691
1997 ML_2		1997 06 29.25475	15 37 54.16	−14 11 03.1	19.3	V	691
1997 MR_8		1996 02 15.18612	09 19 37.06	+19 02 55.3			691
1997 MR_8		1996 02 15.20805	09 19 35.85	+19 03 09.0			691
1997 MR_8		1996 02 15.22994	09 19 34.60	+19 03 22.5	17.6	V	691
1997 MV_8		1997 07 14.37735	21 24 24.16	−10 54 42.1	18.7	V	691
1997 MV_8		1997 07 14.39669	21 24 23.25	−10 54 34.9	18.6	V	691
1997 MV_8		1997 07 14.41441	21 24 22.40	−10 54 28.3	18.6	V	691
1997 MB_9		1997 07 14.37265	21 17 02.56	−11 09 55.0	17.5	V	691
1997 MB_9		1997 07 14.39198	21 17 01.65	−11 09 50.5	17.5	V	691
1997 MB_9		1997 07 14.40971	21 17 00.83	−11 09 46.8	17.4	V	691
1997 ND		1997 07 14.37775	21 24 58.66	−11 04 54.5	20.3	V	691
1997 ND		1997 07 14.39709	21 24 57.92	−11 04 53.8	20.4	V	691
1997 ND		1997 07 14.41481	21 24 57.24	−11 04 53.0	20.3	V	691
1997 NT_2		1997 07 14.37275	21 17 21.13	−11 06 20.5	20.2	V	691
1997 NT_2		1997 07 14.39209	21 17 20.28	−11 06 19.2	20.4	V	691

1997 NT_2		1997 07 14.40982	21 17 19.52	−11 06 18.2	20.4	V	691
1997 NU_2		1997 07 14.37276	21 17 22.05	−11 04 43.1	19.4	V	691
1997 NU_2		1997 07 14.39209	21 17 21.12	−11 04 43.2	19.5	V	691
1997 NU_2		1997 07 14.40982	21 17 20.29	−11 04 43.7	19.4	V	691
1997 NW_2		1997 07 14.37558	21 21 50.23	−11 07 46.1	20.6	V	691
1997 NW_2		1997 07 14.39491	21 21 49.49	−11 07 46.7	20.4	V	691
1997 NW_2		1997 07 14.41264	21 21 48.82	−11 07 46.7	20.6	V	691
1997 NC_6		1997 07 14.37474	21 20 37.53	−11 06 50.5	20.0	V	691
1997 NC_6		1997 07 14.39407	21 20 36.73	−11 06 49.5	20.0	V	691
1997 NC_6		1997 07 14.41179	21 20 36.01	−11 06 48.9	20.1	V	691
1997 ND_6		1997 07 14.37715	21 24 06.81	−11 21 59.3	20.8	V	691
1997 ND_6		1997 07 14.39649	21 24 06.16	−11 22 03.2	20.8	V	691
1997 ND_6		1997 07 14.41421	21 24 05.60	−11 22 07.9	20.1	V	691
1997 NP_9	*	1997 07 02.40656	21 35 55.30	−11 09 03.8	21.5	V	691
1997 NP_9		1997 07 02.43877	21 35 55.67	−11 09 00.1	21.5	V	691
1997 NP_9		1997 07 02.45664	21 35 55.85	−11 08 58.4	21.2	V	691
1997 NP_9		1997 07 14.38556	21 36 15.09	−11 01 31.2	21.2	V	691
1997 NP_9		1997 07 14.40490	21 36 14.81	−11 01 32.1	21.3	V	691
1997 NP_9		1997 07 14.42263	21 36 14.51	−11 01 33.2	21.4	V	691
1997 NQ_9	*	1997 07 09.42153	21 21 42.83	−11 11 24.3	19.8	V	691
1997 NQ_9		1997 07 09.43776	21 21 42.42	−11 11 24.8	19.9	V	691
1997 NQ_9		1997 07 09.45376	21 21 42.01	−11 11 25.4	19.8	V	691
1997 NQ_9		1997 07 14.37396	21 19 30.27	−11 17 08.8	19.6	V	691
1997 NQ_9		1997 07 14.39330	21 19 29.63	−11 17 10.2	19.5	V	691
1997 NQ_9		1997 07 14.41102	21 19 29.07	−11 17 11.7	19.6	V	691
1997 NR_9	*	1997 07 09.42258	21 23 13.52	−11 19 37.1	21.4	V	691
1997 NR_9		1997 07 09.43880	21 23 12.96	−11 19 36.9	21.6	V	691
1997 NR_9		1997 07 09.45481	21 23 12.41	−11 19 37.0	21.6	V	691
1997 NR_9		1997 07 14.37453	21 20 19.81	−11 20 39.7	21.7	V	691
1997 NR_9		1997 07 14.39387	21 20 19.06	−11 20 40.2	21.6	V	691
1997 NR_9		1997 07 14.41159	21 20 18.32	−11 20 40.6	21.5	V	691
1997 NS_9	*	1997 07 11.40367	21 18 28.11	−10 58 43.6	19.6	V	691
1997 NS_9		1997 07 11.42179	21 18 27.55	−10 58 47.4	19.6	V	691
1997 NS_9		1997 07 11.44009	21 18 27.04	−10 58 51.4	19.3	V	691
1997 NS_9		1997 07 14.37262	21 16 58.54	−11 08 43.0	19.6	V	691
1997 NS_9		1997 07 14.39196	21 16 57.88	−11 08 46.3	19.6	V	691
1997 NS_9		1997 07 14.40969	21 16 57.28	−11 08 49.9	19.5	V	691
1997 NT_9	*	1997 07 11.40902	21 26 11.63	−11 08 27.9	21.5	V	691
1997 NT_9		1997 07 11.42714	21 26 11.08	−11 08 31.4	21.5	V	691
1997 NT_9		1997 07 11.44544	21 26 10.54	−11 08 34.6	21.3	V	691
1997 NT_9		1997 07 14.37754	21 24 40.59	−11 17 58.0	21.7	V	691
1997 NT_9		1997 07 14.39688	21 24 39.90	−11 18 01.9	21.9	V	691
1997 NT_9		1997 07 14.41460	21 24 39.30	−11 18 05.4	22.0	V	691
1997 NU_9	*	1997 07 11.40987	21 27 25.17	−11 08 18.4	20.2	V	691
1997 NU_9		1997 07 11.42799	21 27 24.53	−11 08 23.8	20.1	V	691
1997 NU_9		1997 07 11.44629	21 27 23.92	−11 08 29.0	20.1	V	691
1997 NU_9		1997 07 14.37826	21 25 42.87	−11 23 32.9	20.3	V	691
1997 NU_9		1997 07 14.39760	21 25 42.13	−11 23 38.9	20.2	V	691
1997 NU_9		1997 07 14.41532	21 25 41.46	−11 23 44.6	20.2	V	691
1997 NV_9	*	1997 07 11.41032	21 28 04.04	−11 02 06.0	18.8	V	691
1997 NV_9		1997 07 11.42844	21 28 03.59	−11 02 06.4	18.7	V	691
1997 NV_9		1997 07 11.44674	21 28 03.14	−11 02 06.8	18.7	V	691
1997 NV_9		1997 07 14.37906	21 26 52.26	−11 03 56.5	18.7	V	691
1997 NV_9		1997 07 14.39840	21 26 51.67	−11 03 57.8	18.7	V	691
1997 NV_9		1997 07 14.41613	21 26 51.15	−11 03 58.5	18.7	V	691
1997 NW_9	*	1997 07 11.41088	21 28 53.01	−10 57 00.2	21.6	V	691
1997 NW_9		1997 07 11.42901	21 28 52.45	−10 57 01.4	21.7	V	691
1997 NW_9		1997 07 11.44730	21 28 51.98	−10 57 03.8	21.6	V	691
1997 NW_9		1997 07 14.37940	21 27 21.45	−11 04 39.7	21.0	V	691
1997 NW_9		1997 07 14.39874	21 27 20.79	−11 04 42.7	21.0	V	691
1997 NW_9		1997 07 14.41646	21 27 20.19	−11 04 45.7	20.8	V	691
1997 NX_9	*	1997 07 11.41124	21 29 24.02	−11 13 25.0	20.8	V	691
1997 NX_9		1997 07 11.42937	21 29 23.62	−11 13 25.2	21.1	V	691
1997 NX_9		1997 07 11.44766	21 29 23.14	−11 13 25.5	20.7	V	691
1997 NX_9		1997 07 14.37995	21 28 08.87	−11 14 41.9	20.9	V	691
1997 NX_9		1997 07 14.39928	21 28 08.29	−11 14 42.6	21.2	V	691
1997 NX_9		1997 07 14.41701	21 28 07.74	−11 14 43.4	21.0	V	691
1997 NY_9	*	1997 07 11.41244	21 31 08.27	−11 20 37.2	20.9	V	691
1997 NY_9		1997 07 11.43057	21 31 07.75	−11 20 38.1	20.7	V	691
1997 NY_9		1997 07 11.44886	21 31 07.27	−11 20 38.8	21.0	V	691
1997 NY_9		1997 07 14.38101	21 29 40.48	−11 23 47.6	21.0	V	691
1997 NY_9		1997 07 14.40034	21 29 39.80	−11 23 49.6	20.9	V	691
1997 NY_9		1997 07 14.41807	21 29 39.20	−11 23 50.7	21.2	V	691
1997 NZ_9	*	1997 07 11.41352	21 32 41.68	−11 08 17.5	18.4	V	691
1997 NZ_9		1997 07 11.43165	21 32 41.05	−11 08 21.1	18.2	V	691
1997 NZ_9		1997 07 11.44994	21 32 40.42	−11 08 24.3	18.4	V	691
1997 NZ_9		1997 07 14.38189	21 30 57.48	−11 18 17.5	18.4	V	691
1997 NZ_9		1997 07 14.40123	21 30 56.73	−11 18 21.7	18.3	V	691
1997 NZ_9		1997 07 14.41895	21 30 56.04	−11 18 25.4	18.3	V	691
1997 NA_{10}	*	1997 07 11.41362	21 32 49.98	−10 57 28.5	21.2	V	691
1997 NA_{10}		1997 07 11.43174	21 32 49.29	−10 57 33.6	20.8	V	691
1997 NA_{10}		1997 07 11.45004	21 32 48.65	−10 57 37.4	21.3	V	691
1997 NA_{10}		1997 07 14.38195	21 31 02.52	−11 10 25.7	21.1	V	691
1997 NA_{10}		1997 07 14.40129	21 31 01.75	−11 10 31.0	21.0	V	691
1997 NA_{10}		1997 07 14.41901	21 31 01.03	−11 10 36.1	21.2	V	691
1997 NB_{10}	*	1997 07 11.41434	21 33 52.66	−11 05 52.7	20.3	V	691
1997 NB_{10}		1997 07 11.43247	21 33 52.19	−11 05 52.2	20.3	V	691
1997 NB_{10}		1997 07 11.45076	21 33 51.76	−11 05 52.0	20.2	V	691
1997 NB_{10}		1997 07 14.38305	21 32 37.88	−11 05 59.8	20.2	V	691
1997 NB_{10}		1997 07 14.40239	21 32 37.31	−11 06 00.5	20.3	V	691
1997 NB_{10}		1997 07 14.42012	21 32 36.79	−11 06 00.8	20.4	V	691
1997 NC_{10}	*	1997 07 11.41470	21 34 24.20	−11 05 28.3	20.1	V	691
1997 NC_{10}		1997 07 11.43283	21 34 23.94	−11 05 33.5	19.9	V	691
1997 NC_{10}		1997 07 11.45113	21 34 23.60	−11 05 39.1	20.0	V	691
1997 NC_{10}		1997 07 14.38373	21 33 36.75	−11 21 15.8	20.2	V	691
1997 NC_{10}		1997 07 14.40307	21 33 36.30	−11 21 22.6	20.4	V	691
1997 NC_{10}		1997 07 14.42080	21 33 35.93	−11 21 28.9	20.4	V	691
1997 ND_{10}	*	1997 07 11.41472	21 34 25.27	−11 07 58.8	21.0	V	691
1997 ND_{10}		1997 07 11.43284	21 34 24.63	−11 08 00.4	21.1	V	691
1997 ND_{10}		1997 07 11.45114	21 34 24.02	−11 08 02.1	20.9	V	691
1997 ND_{10}		1997 07 14.38314	21 32 45.33	−11 13 58.0	21.1	V	691
1997 ND_{10}		1997 07 14.40247	21 32 44.59	−11 14 01.0	20.9	V	691
1997 ND_{10}		1997 07 14.42020	21 32 43.96	−11 14 03.2	21.1	V	691
1997 NE_{10}	*	1997 07 11.41499	21 34 49.06	−10 56 24.5	19.7	V	691

1997 NE_{10}		1997 07 11.43312	21 34 48.51	−10 56 24.2	19.9	V	691
1997 NE_{10}		1997 07 11.45141	21 34 47.99	−10 56 24.0	19.7	V	691
1997 NE_{10}		1997 07 14.38356	21 33 21.81	−10 56 34.9	19.9	V	691
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1997 NE_{10}		1997 07 14.42062	21 33 20.58	−10 56 35.9	19.8	V	691
1997 NF_{10}	*	1997 07 11.41545	21 35 28.66	−11 03 43.3	20.0	V	691
1997 NF_{10}		1997 07 11.43357	21 35 27.95	−11 03 44.8	19.8	V	691
1997 NF_{10}		1997 07 11.45187	21 35 27.27	−11 03 45.0	19.5	V	691
1997 NF_{10}		1997 07 14.38374	21 33 37.04	−11 07 49.3	20.1	V	691
1997 NF_{10}		1997 07 14.40307	21 33 36.21	−11 07 51.3	20.2	V	691
1997 NF_{10}		1997 07 14.42079	21 33 35.48	−11 07 53.3	20.2	V	691
1997 NG_{10}	*	1997 07 11.41677	21 37 23.24	−11 10 12.2	20.6	V	691
1997 NG_{10}		1997 07 11.43490	21 37 22.68	−11 10 14.8	20.5	V	691
1997 NG_{10}		1997 07 11.45319	21 37 22.12	−11 10 17.8	20.5	V	691
1997 NG_{10}		1997 07 14.38529	21 35 51.97	−11 18 20.8	20.6	V	691
1997 NG_{10}		1997 07 14.40463	21 35 51.28	−11 18 24.1	20.5	V	691
1997 NG_{10}		1997 07 14.42235	21 35 50.71	−11 18 27.4	20.5	V	691
1997 NH_{10}	*	1997 07 11.41701	21 37 44.30	−11 10 13.6	20.6	V	691
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1997 NH_{10}		1997 07 11.45343	21 37 43.18	−11 10 20.5	20.7	V	691
1997 NH_{10}		1997 07 14.38553	21 36 12.16	−11 20 20.4	21.1	V	691
1997 NH_{10}		1997 07 14.40486	21 36 11.46	−11 20 25.0	21.1	V	691
1997 NH_{10}		1997 07 14.42259	21 36 10.87	−11 20 28.6	20.9	V	691
1997 NP_{10}	*	1997 07 13.39191	21 11 40.49	−01 04 04.5	20.3	V	691
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1997 NP_{10}		1997 07 14.35893	21 12 21.17	−00 52 45.3	20.6	V	691
1997 NP_{10}		1997 07 14.36286	21 12 21.30	−00 52 42.5	20.3	V	691
1997 NP_{10}		1997 07 14.36702	21 12 21.45	−00 52 39.5	20.3	V	691
1997 NP_{10}		1997 07 16.41517	21 13 43.32	−00 29 25.9			691
1997 NP_{10}		1997 07 16.41648	21 13 43.37	−00 29 25.0			691
1997 NP_{10}		1997 07 16.41878	21 13 43.45	−00 29 23.4			691
1997 NS_{10}	*	1997 07 02.17966	15 49 57.31	−13 30 19.6	18.7	V	691
1997 NS_{10}		1997 07 02.21214	15 49 56.29	−13 30 20.3	18.8	V	691
1997 NS_{10}		1997 07 08.18674	15 47 39.42	−13 33 49.9	18.8	V	691
1997 NS_{10}		1997 07 08.20843	15 47 39.00	−13 33 51.6	18.8	V	691
1997 NS_{10}		1997 07 08.23009	15 47 38.56	−13 33 52.8	18.9	V	691
1997 OU		1997 08 10.34762	22 28 47.46	−09 51 49.6	19.0	V	691
1997 OU		1997 08 10.36877	22 28 46.33	−09 51 55.3	19.0	V	691
1997 OU		1997 08 10.38999	22 28 45.20	−09 52 01.2	19.0	V	691
1997 OH_1	*	1997 07 28.37618	22 12 26.70	−14 31 09.4	18.9	V	691
1997 OH_1		1997 07 28.39805	22 12 26.01	−14 31 14.6	18.9	V	691
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1997 OH_1		1997 07 31.42826	22 10 51.08	−14 43 59.8	18.8	V	691
1997 OH_1		1997 07 31.43756	22 10 50.74	−14 44 02.3	18.7	V	691
1997 OH_1		1997 07 31.45486	22 10 50.10	−14 44 06.8	18.6	V	691
1997 OJ_1	*	1997 07 28.37630	22 12 36.91	−14 35 22.7	19.5	V	691
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1997 OJ_1		1997 07 28.41998	22 12 35.34	−14 35 35.2	19.5	V	691
1997 OJ_1		1997 07 31.42821	22 10 46.96	−14 49 51.4	19.0	V	691
1997 OJ_1		1997 07 31.43751	22 10 46.58	−14 49 54.0	19.0	V	691
1997 OJ_1		1997 07 31.45482	22 10 45.92	−14 49 59.0	18.9	V	691
1997 OK_1	*	1997 07 28.37637	22 12 42.97	−14 31 16.0	18.5	V	691
1997 OK_1		1997 07 28.39824	22 12 42.44	−14 31 19.6	18.5	V	691
1997 OK_1		1997 07 28.42005	22 12 41.90	−14 31 23.5	18.5	V	691
1997 OK_1		1997 07 31.42870	22 11 28.78	−14 40 10.1	18.5	V	691
1997 OK_1		1997 07 31.43800	22 11 28.50	−14 40 11.6	18.5	V	691
1997 OK_1		1997 07 31.45530	22 11 28.01	−14 40 14.8	18.4	V	691
1997 OL_1	*	1997 07 28.37715	22 13 50.62	−14 37 15.1	21.1	V	691
1997 OL_1		1997 07 28.39902	22 13 49.72	−14 37 21.9	21.2	V	691
1997 OL_1		1997 07 28.42083	22 13 48.79	−14 37 28.7	21.0	V	691
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1997 OL_1		1997 07 31.43816	22 11 42.60	−14 53 27.7	21.0	V	691
1997 OP_1	*	1997 07 31.36162	22 00 26.03	−14 11 14.0	21.2	V	691
1997 OP_1		1997 07 31.39186	22 00 24.78	−14 11 03.1	21.6	V	691
1997 OP_1		1997 07 31.41349	22 00 23.85	−14 10 54.9	21.6	V	691
1997 OP_1		1997 08 01.30339	21 59 49.39	−14 05 36.9	21.4	V	691
1997 OP_1		1997 08 01.30744	21 59 49.22	−14 05 35.8	21.5	V	691
1997 OP_1		1997 08 01.31129	21 59 49.06	−14 05 34.5	21.1	V	691
1997 OQ_1	*	1997 07 31.36172	22 00 34.00	−13 57 37.4	19.9	V	691
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1997 OQ_1		1997 08 01.30747	21 59 51.68	−14 06 19.7	19.6	V	691
1997 OQ_1		1997 08 01.31132	21 59 51.50	−14 06 21.9	19.7	V	691
1997 OO_2	*	1997 07 31.29304	20 48 32.64	−18 46 03.6	19.8	V	691
1997 OO_2		1997 07 31.31663	20 48 30.22	−18 45 48.1	19.9	V	691
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1997 OO_2		1997 08 05.33631	20 40 13.01	−17 48 38.8	20.4	V	691
1997 OO_2		1997 08 05.35803	20 40 10.71	−17 48 22.8	20.2	V	691
1997 OP_2	*	1997 07 31.28747	20 40 30.34	−18 29 23.7	19.2	V	691
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1997 OQ_2		1997 07 31.31233	20 42 17.63	−18 30 18.8	19.5	V	691
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1997 OR_2	*	1997 07 31.28933	20 43 11.11	−18 40 48.5	20.3	V	691
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1997 OT_2		1997 08 07.34941	20 46 15.38	−19 00 32.8	20.8	V	691
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1997 PQ_1		1997 08 01.37445	20 48 45.96	−18 29 03.8			691
1997 PQ_1		1997 08 07.30389	20 44 10.22	−18 50 48.4	20.1	V	691
1997 PQ_1		1997 08 07.32583	20 44 09.17	−18 50 53.2	20.3	V	691
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1997 PR_1	*	1997 08 01.33014	20 49 08.82	−18 09 23.4	18.4	V	691
1997 PR_1		1997 08 01.35242	20 49 07.60	−18 09 30.5			691
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1997 PS_1		1997 08 07.30511	20 45 55.76	−18 36 25.7	20.9	V	691
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1997 PT_1		1997 08 07.30508	20 45 53.63	−18 42 48.5	19.7	V	691
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1997 PT_1		1997 08 07.34913	20 45 51.14	−18 42 57.5	20.1	V	691
1997 PU_1	*	1997 08 01.33246	20 52 29.85	−18 02 46.7	16.6	V	691
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1997 PU_1		1997 08 07.35025	20 47 27.59	−18 39 50.8	17.6	V	691
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1997 PV_1		1997 08 07.35183	20 49 45.01	−18 43 59.8	20.3	V	691
1997 PW_1	*	1997 08 01.33522	20 56 28.46	−18 18 17.0	20.8	V	691
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1997 PW_1		1997 08 01.37976	20 56 25.97	−18 18 27.2			691
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(240)		1997 08 04.43610	21 59 29.03	−13 52 26.7			691
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(1319)		1997 07 14.42042	21 33 03.04	−11 02 01.2	15.3	V	691
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(2032)		1997 08 10.38157	22 47 15.22	−09 55 39.2	15.4	V	691
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(2719)		1997 08 01.37334	20 47 09.81	−17 59 21.5			691
(2794)		1997 08 04.39927	22 09 19.92	−13 36 35.3			691
(2794)		1997 08 04.42137	22 09 18.71	−13 36 36.6	16.8	V	691
(2794)		1997 08 04.44290	22 09 17.55	−13 36 38.2			691
(3014)		1997 08 05.37659	21 50 20.54	−12 59 33.3	15.3	V	691
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(3014)		1997 08 05.41909	21 50 18.63	−12 59 44.8	15.4	V	691
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(4874)		1997 08 01.35735	20 56 14.12	−18 28 18.4			691
(4874)		1997 08 01.37961	20 56 12.93	−18 28 29.8			691
(6182)		1997 07 14.37882	21 26 30.87	−11 24 33.4	16.3	V	691
(6182)		1997 07 14.39815	21 26 30.27	−11 24 29.5	16.3	V	691

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(7009)	1997 08 10.29681	21 25 38.36	−13 55 24.5	16.6	V	691
(7009)	1997 08 10.31821	21 25 37.05	−13 55 30.8	16.6	V	691
(7009)	1997 08 10.33963	21 25 35.75	−13 55 37.8	16.6	V	691

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Observer C. W. Hergenrother
Measurers T. B. Spahr, J. A. Owens
1.2-m $f/8$ reflector + CCD
USNO-A1.0

1987 QG_6	1997 07 14.27257	18 18 09.76	+06 58 13.8			696
1987 QG_6	1997 07 14.27472	18 18 09.66	+06 58 13.5			696
1987 QG_6	1997 07 14.27653	18 18 09.53	+06 58 11.7			696
1987 QG_6	1997 07 14.27832	18 18 09.44	+06 58 12.2			696
1990 RR_3	1997 07 12.16597	11 42 36.39	+02 44 50.7			696
1990 RR_3	1997 07 12.16788	11 42 36.56	+02 44 49.8			696
1990 RR_3	1997 07 12.16969	11 42 36.70	+02 44 49.0	19.0	R	696
1992 QR	1997 07 14.29291	18 23 20.88	+09 36 46.1			696
1992 QR	1997 07 14.29341	18 23 20.75	+09 36 45.2			696
1992 QR	1997 07 14.29429	18 23 20.78	+09 36 44.7			696
1992 QR	1997 07 14.29517	18 23 20.63	+09 36 43.5			696
1992 UB	1997 07 14.21398	15 42 50.56	−21 11 13.8	20.2	R	696
1992 UB	1997 07 14.22404	15 42 50.21	−21 11 15.5			696
1992 UB	1997 07 14.22653	15 42 50.20	−21 11 16.5	20.4	R	696
1993 KQ_2	1997 07 12.44552	22 30 10.56	−13 04 28.9	18.0	R	696
1993 KQ_2	1997 07 12.44663	22 30 10.53	−13 04 29.8			696
1993 KQ_2	1997 07 12.44773	22 30 10.52	−13 04 30.8			696
1993 SU_2	1997 07 12.44869	23 33 32.27	+09 46 45.6	16.0	R	696
1993 SU_2	1997 07 12.45017	23 33 32.29	+09 46 46.4			696
1994 ND	1997 07 13.16148	14 03 11.60	+12 28 25.4			696
1994 ND	1997 07 13.16686	14 03 11.71	+12 28 15.8	19.6	R	696
1994 PK	1997 07 12.48372	01 10 28.72	+28 52 55.4			696
1994 PK	1997 07 12.48484	01 10 28.84	+28 52 56.3			696
1994 PK	1997 07 12.48595	01 10 28.95	+28 52 57.2	17.8	R	696
1994 WG_2	1997 07 11.28855	18 13 28.96	−15 51 01.4	18.0	R	696
1994 WG_2	1997 07 11.29189	18 13 28.78	−15 51 01.4			696
1994 WG_2	1997 07 12.36360	18 12 36.71	−15 53 16.6			696
1994 WG_2	1997 07 12.36719	18 12 36.57	−15 53 16.6	17.8	R	696
1995 SS	1997 07 11.26954	15 19 33.32	+06 27 45.2	17.4	R	696
1995 SS	1997 07 11.27172	15 19 33.39	+06 27 45.3			696
1995 SW_{48}	1997 07 12.17623	14 54 18.91	−07 35 45.2			696
1995 SW_{48}	1997 07 12.17816	14 54 18.96	−07 35 44.5			696
1995 SW_{48}	1997 07 12.17995	14 54 19.02	−07 35 43.8	18.8	R	696
1996 CZ	1997 07 11.28855	18 13 34.83	−15 53 21.6	19.6	R	696
1996 CZ	1997 07 11.29189	18 13 34.64	−15 53 21.9			696
1996 CZ	1997 07 12.36360	18 12 40.71	−15 54 10.6			696
1996 CZ	1997 07 12.36719	18 12 40.54	−15 54 10.9	20.0	R	696
1996 RJ	1997 07 12.48037	01 05 43.47	+36 44 16.2			696
1996 RJ	1997 07 12.48259	01 05 43.52	+36 44 17.0	16.9	R	696
1996 XS_{23}	1997 07 13.14693	10 21 31.63	+29 26 34.9			696
1996 XS_{23}	1997 07 13.14884	10 21 31.81	+29 26 33.2	20.1	R	696
1996 XS_{23}	1997 07 13.15065	10 21 32.02	+29 26 31.8			696
1997 GF_3	1997 07 13.18126	14 03 20.02	+23 44 53.9			696
1997 GF_3	1997 07 13.18434	14 03 20.26	+23 44 52.9			696
1997 GF_3	1997 07 13.18737	14 03 20.51	+23 44 51.6	20.8	R	696
1997 MW_1	1997 07 13.29485	17 33 31.74	+01 14 30.9			696
1997 MW_1	1997 07 13.29718	17 33 31.30	+01 14 32.8			696
1997 MW_1	1997 07 13.29936	17 33 30.89	+01 14 34.7	17.0	R	696
1997 MW_1	1997 07 14.19251	17 30 54.63	+01 26 40.9			696
1997 MW_1	1997 07 14.19315	17 30 54.51	+01 26 41.3			696
1997 MW_1	1997 07 14.19443	17 30 54.28	+01 26 42.5			696
1997 MD_{10}	1997 07 13.30066	18 22 34.67	−20 45 25.7			696
1997 MD_{10}	1997 07 13.30178	18 22 34.50	−20 45 23.8			696
1997 MD_{10}	1997 07 13.30287	18 22 34.40	−20 45 21.8			696
1997 MD_{10}	1997 07 13.30397	18 22 34.22	−20 45 20.0			696
1997 MD_{10}	1997 07 13.30508	18 22 34.08	−20 45 17.5			696
1997 NP_{10}	1997 07 14.23198	21 12 16.73	−00 54 12.4			696
1997 NP_{10}	1997 07 14.23947	21 12 17.01	−00 54 08.6	20.2	R	696
1997 NP_{10}	1997 07 14.36995	21 12 21.62	−00 52 37.0			696
1997 NP_{10}	1997 07 14.37493	21 12 21.79	−00 52 33.6	19.7	R	696
1997 NP_{10}	1997 07 14.48166	21 12 25.51	−00 51 19.6			696
1997 NP_{10}	1997 07 14.48524	21 12 25.62	−00 51 17.1			696
1997 NQ_{10}	* 1997 07 13.45278	00 58 15.37	+07 33 05.1	18.8	R	696
1997 NQ_{10}	1997 07 13.45458	00 58 15.48	+07 33 05.9			696
1997 NQ_{10}	1997 07 13.45639	00 58 15.61	+07 33 06.6			696
1997 NQ_{10}	1997 07 14.42524	00 59 19.16	+07 38 11.9			696
1997 NQ_{10}	1997 07 14.42773	00 59 19.30	+07 38 12.8			696
1997 NQ_{10}	1997 07 14.43022	00 59 19.49	+07 38 13.5			696
(3529)	1997 07 14.26389	21 15 01.62	−11 09 09.4			696
(3529)	1997 07 14.26474	21 15 01.58	−11 09 09.5			696
(3529)	1997 07 14.26560	21 15 01.56	−11 09 09.7			696
(3529)	1997 07 14.26659	21 15 01.52	−11 09 09.6			696
(4168)	1997 07 14.30675	21 44 10.13	−18 38 12.8			696
(4168)	1997 07 14.30855	21 44 10.06	−18 38 15.1			696
(4168)	1997 07 14.31034	21 44 09.99	−18 38 15.3			696
(4965)	1997 07 14.25883	18 25 00.70	−22 44 09.1		I	696
(4965)	1997 07 14.25993	18 25 00.68	−22 44 09.1		I	696
(4965)	1997 07 14.26103	18 25 00.59	−22 44 09.5		I	696
(6037)	1997 07 14.24623	16 08 20.18	−14 08 04.0		V	696
(6037)	1997 07 14.24963	16 08 19.88	−14 08 03.4		V	696
(6037)	1997 07 14.25282	16 08 19.73	−14 08 04.2		V	696
(6037)	1997 07 14.25601	16 08 19.52	−14 08 03.4		V	696
(7778)	1997 07 14.26840	18 23 50.82	+16 54 54.3			696
(7778)	1997 07 14.26939	18 23 50.79	+16 54 54.6			696
(7778)	1997 07 14.27003	18 23 50.77	+16 54 54.9			696
(7778)	1997 07 14.27068	18 23 50.74	+16 54 55.2			696

704 Lincoln Laboratory Experimental Test System, New Mexico
H. Viggh, MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02173, U.S.A. [viggh@ll.mit.edu]
Observers M. Blythe, F. Shelly, M. Bezpalko
Measurers J. Stuart, H. Viggh, J. Sharma
1.0-m $f/2.15$ reflector + CCD
USNO-SA1.0

1981 ED_{12}	1997 04 07.14686	12 58 00.88	−07 55 10.8	17.9	704
1981 ED_{12}	1997 04 07.14702	12 58 00.92	−07 55 09.1	18.0	704
1981 ED_{12}	1997 04 07.22530	12 57 57.10	−07 54 17.5		704
1981 ED_{12}	1997 04 07.22545	12 57 57.13	−07 54 18.0		704
1983 RB_4	1997 04 06.15367	12 55 22.64	−03 06 33.3	18.8	704
1983 RB_4	1997 04 06.15384	12 55 22.63	−03 06 32.9	19.3	704
1983 RB_4	1997 04 06.22072	12 55 18.81	−03 06 13.0		704
1983 RB_4	1997 04 06.22089	12 55 18.89	−03 06 13.4		704
1984 UJ_1	1997 04 03.29477	13 07 36.29	−04 54 22.3	18.9	704
1984 UJ_1	1997 04 03.29493	13 07 36.34	−04 54 22.0	19.6	704
1984 UJ_1	1997 04 03.40935	13 07 29.37	−04 53 54.1		704
1984 UJ_1	1997 04 03.40951	13 07 29.42	−04 53 53.7		704
1987 RL_1	1997 04 07.29267	14 49 38.74	−14 06 13.8	19.5	704
1987 RL_1	1997 04 07.29285	14 49 38.77	−14 06 12.7	20.1	704
1987 RL_1	1997 04 07.39794	14 49 34.45	−14 05 52.2		704
1987 RL_1	1997 04 07.39811	14 49 34.44	−14 05 51.2		704
1988 CL_2	1997 04 16.34987	16 47 49.48	−15 03 12.3	19.3	704
1988 CL_2	1997 04 16.43319	16 47 48.21	−15 03 03.0		704
1988 UV	1997 04 08.35285	14 54 08.02	−16 06 43.8		704
1988 UV	1997 04 08.35583	14 54 07.87	−16 06 42.8		704
1988 UV	1997 04 08.42796	14 54 04.68	−16 06 15.2		704
1988 UV	1997 04 08.43094	14 54 04.54	−16 06 13.4		704
1989 CE_5	1997 05 01.21664	14 34 49.00	−18 51 24.7		704
1989 CE_5	1997 05 01.21679	14 34 48.97	−18 51 24.6		704
1989 CE_5	1997 05 01.23905	14 34 47.65	−18 51 19.5	18.4	704
1989 CE_5	1997 05 01.23921	14 34 47.66	−18 51 18.9	18.3	704
1989 CE_5	1997 05 01.26148	14 34 46.34	−18 51 13.8	18.4	704
1989 CE_5	1997 05 01.26164	14 34 46.32	−18 51 13.3		704
1989 CE_5	1997 05 01.28398	14 34 45.03	−18 51 08.2		704
1989 CE_5	1997 05 01.28413	14 34 44.98	−18 51 07.3		704
1989 CE_5	1997 05 01.30649	14 34 43.67	−18 51 02.0	18.6	704
1989 CE_5	1997 05 01.30665	14 34 43.66	−18 51 01.3		704
1990 QM	1997 04 02.41237	14 47 23.40	−12 18 41.2	18.2	704
1990 QM	1997 04 02.41254	14 47 23.45	−12 18 42.7	18.4	704
1990 QM	1997 04 02.45403	14 47 22.18	−12 18 30.7		704
1990 QM	1997 04 02.45421	14 47 22.18	−12 18 30.6		704
1990 QA_2	1997 04 05.23421	12 58 27.17	−08 30 12.9	17.4	704
1990 QA_2	1997 04 05.23439	12 58 27.24	−08 30 11.1	18.0	704
1990 QA_2	1997 04 05.35977	12 58 20.42	−08 29 34.6		704
1990 QA_2	1997 04 05.35995	12 58 20.41	−08 29 33.3		704
1990 RR_3	1997 04 02.15405	10 49 15.11	+10 41 58.1	18.7	704
1990 RR_3	1997 04 02.15458	10 49 15.13	+10 41 58.0	18.5	704
1990 RR_3	1997 04 02.28178	10 49 10.09	+10 42 14.5		704
1990 RR_3	1997 04 02.28231	10 49 10.10	+10 42 15.2		704
1991 AC	1997 04 30.20324	14 27 19.30	−13 03 13.6		704
1991 AC	1997 04 30.20466	14 27 19.22	−13 03 13.5		704
1991 AC	1997 04 30.22550	14 27 18.15	−13 03 09.3		704
1991 AC	1997 04 30.22693	14 27 18.10	−13 03 08.8		704
1991 AC	1997 04 30.24792	14 27 16.98	−13 03 05.1		704
1991 AC	1997 04 30.24934	14 27 16.89	−13 03 04.7		704
1991 AC	1997 04 30.27182	14 27 15.74	−13 03 02.0	19.7	704
1991 AC	1997 04 30.29300	14 27 14.63	−13 02 56.4	18.7	704
1991 AC	1997 05 01.20934	14 26 28.29	−12 59 59.5		704
1991 AC	1997 05 01.23169	14 26 27.09	−12 59 55.0		704
1991 AC	1997 05 01.25415	14 26 25.94	−12 59 51.1		704
1991 AC	1997 05 01.27658	14 26 24.78	−12 59 46.4	18.3	704
1991 AC	1997 05 01.29909	14 26 23.60	−12 59 42.1		704
1991 GB_3	1997 04 30.20975	14 32 42.47	−15 27 23.7		704
1991 GB_3	1997 04 30.23204	14 32 41.40	−15 27 19.3	18.4	704
1991 GB_3	1997 04 30.25447	14 32 40.31	−15 27 14.2	18.2	704
1991 GB_3	1997 04 30.27692	14 32 39.21	−15 27 10.0		704
1991 GB_3	1997 04 30.29955	14 32 38.11	−15 27 04.9		704
1991 PG_{11}	1997 04 02.15281	10 49 15.61	+06 11 30.8	19.2	704
1991 PG_{11}	1997 04 02.15582	10 49 15.43	+06 11 31.5	19.0	704
1991 PG_{11}	1997 04 02.28053	10 49 10.34	+06 12 20.1		704
1991 PG_{11}	1997 04 02.28355	10 49 10.17	+06 12 21.6		704
1992 DY_7	1997 04 30.21340	14 37 36.50	−12 22 43.3	18.9	704
1992 DY_7	1997 04 30.23568	14 37 35.23	−12 22 39.0	19.1	704
1992 DY_7	1997 04 30.25818	14 37 34.00	−12 22 34.2	18.7	704
1992 DY_7	1997 04 30.28058	14 37 32.78	−12 22 30.1	18.7	704
1992 DY_7	1997 04 30.30318	14 37 31.53	−12 22 25.1	18.9	704
1993 BU_7	1997 03 31.32667	12 48 39.58	−07 00 57.3	18.6	704
1993 BU_7	1997 03 31.41385	12 48 34.59	−07 00 20.1		704
1993 FQ_8	1997 04 30.20529	14 28 19.55	−15 56 02.8	18.6	704
1993 FQ_8	1997 04 30.20545	14 28 19.56	−15 56 03.4	18.3	704
1993 FQ_8	1997 04 30.22758	14 28 18.09	−15 56 00.5	18.9	704
1993 FQ_8	1997 04 30.22774	14 28 18.07	−15 56 00.7	18.6	704
1993 FQ_8	1997 04 30.24997	14 28 16.57	−15 55 58.2	18.8	704
1993 FQ_8	1997 04 30.25013	14 28 16.58	−15 55 58.6	18.3	704
1993 FQ_8	1997 04 30.27245	14 28 15.07	−15 55 55.6	18.7	704
1993 FQ_8	1997 04 30.27262	14 28 15.07	−15 55 55.8	18.6	704
1993 FQ_8	1997 04 30.29507	14 28 13.52	−15 55 53.5	19.5	704
1993 FQ_8	1997 04 30.29523	14 28 13.52	−15 55 53.2	18.6	704
1993 FQ_8	1997 05 01.20871	14 27 14.43	−15 54 14.0	19.2	704
1993 FQ_8	1997 05 01.23105	14 27 12.92	−15 54 11.5	19.3	704
1993 FQ_8	1997 05 01.25351	14 27 11.47	−15 54 08.2	19.2	704
1993 FQ_8	1997 05 01.27593	14 27 09.94	−15 54 06.5	19.2	704
1993 FQ_8	1997 05 01.29844	14 27 08.40	−15 54 03.0	19.2	704
1993 FY_{43}	1997 04 02.16865	11 01 54.02	+06 05 39.2	19.1	704
1993 FY_{43}	1997 04 02.16882	11 01 53.94	+06 05 40.4	18.9	704
1993 FY_{43}	1997 04 02.29631	11 01 48.63	+06 06 05.6		704
1993 FY_{43}	1997 04 02.29649	11 01 48.56	+06 06 05.7		704
1993 MB	1997 04 08.35379	14 54 10.67	−12 29 16.9	18.7	704
1993 MB	1997 04 08.35489	14 54 10.63	−12 29 15.1	18.6	704
1993 MB	1997 04 08.42890	14 54 08.57	−12 28 31.8		704
1993 MB	1997 04 08.43000	14 54 08.53	−12 28 29.7		704
1994 PB_{30}	1997 03 31.33126	12 50 55.27	−09 42 07.7	18.9	704
1994 PB_{30}	1997 03 31.33150	12 50 55.24	−09 42 06.4	18.0	704
1994 PB_{30}	1997 03 31.41868	12 50 50.44	−09 41 26.8		704
1994 PB_{30}	1997 03 31.41892	12 50 50.43	−09 41 28.0		704
1994 SO_5	1997 04 07.13997	12 49 18.97	−03 46 36.8	18.7	704
1994 SO_5	1997 04 07.15801	12 49 17.94	−03 46 27.8	19.6	704
1994 SO_5	1997 04 07.21763	12 49 15.09	−03 46 08.9		704
1994 SO_5	1997 04 07.21841	12 49 14.98	−03 46 11.8		704

1994 VT_6	1997 05 05.34005	14 37 26.73	−12 53 56.8		704
1994 VT_6	1997 05 05.35740	14 37 25.86	−12 53 53.5	19.6	704
1994 VT_6	1997 05 05.37476	14 37 24.99	−12 53 49.8	18.9	704
1994 VT_6	1997 05 05.39213	14 37 24.12	−12 53 46.5	19.3	704
1994 VT_6	1997 05 05.40948	14 37 23.26	−12 53 43.4	19.1	704
1995 UN_2	1997 04 10.20693	11 05 57.83	+07 41 50.7	19.2	704
1995 UN_2	1997 04 10.20958	11 05 57.79	+07 41 51.4	19.0	704
1995 UN_2	1997 04 10.26408	11 05 56.45	+07 41 59.0		704
1995 UN_2	1997 04 10.26644	11 05 56.42	+07 41 59.3		704
1995 UR_3	1997 04 03.27898	12 50 45.52	−10 54 44.6	18.4	704
1995 UR_3	1997 04 03.28862	12 50 44.97	−10 54 39.7	17.8	704
1995 UR_3	1997 04 03.39331	12 50 38.99	−10 53 50.8		704
1995 UR_3	1997 04 03.40303	12 50 38.42	−10 53 46.1		704
1995 UG_6	1997 04 02.17846	11 12 10.92	+06 04 47.6	18.9	704
1995 UG_6	1997 04 02.17864	11 12 10.94	+06 04 47.4	19.6	704
1995 UG_6	1997 04 02.30623	11 12 05.34	+06 05 13.6		704
1995 UG_6	1997 04 02.30641	11 12 05.38	+06 05 13.3		704
1995 UL_8	1997 04 30.21166	14 35 03.96	−15 04 37.9	19.0	704
1995 UL_8	1997 04 30.23396	14 35 02.45	−15 04 32.4	19.9	704
1995 UL_8	1997 04 30.27883	14 34 59.71	−15 04 23.2	19.4	704
1995 UL_8	1997 04 30.30144	14 34 58.31	−15 04 17.7	19.6	704
1995 UL_8	1997 05 01.21568	14 34 02.15	−15 00 52.8	19.2	704
1995 UL_8	1997 05 01.23810	14 34 00.73	−15 00 48.0	19.5	704
1995 UL_8	1997 05 01.26054	14 33 59.31	−15 00 43.3	19.5	704
1995 UL_8	1997 05 01.28301	14 33 57.93	−15 00 38.3	19.3	704
1995 UL_8	1997 05 01.30553	14 33 56.44	−15 00 33.2	19.1	704
1995 UL_8	1997 05 05.32982	14 29 50.58	−14 45 25.4	19.3	704
1995 UL_8	1997 05 05.33233	14 29 50.41	−14 45 26.1	18.8	704
1995 UL_8	1997 05 05.34718	14 29 49.43	−14 45 22.6	19.4	704
1995 UL_8	1997 05 05.34969	14 29 49.28	−14 45 22.2	19.5	704
1995 UL_8	1997 05 05.36454	14 29 48.38	−14 45 19.4	19.5	704
1995 UL_8	1997 05 05.36705	14 29 48.26	−14 45 18.6	19.3	704
1995 UL_8	1997 05 05.38191	14 29 47.26	−14 45 15.7	19.9	704
1995 UL_8	1997 05 05.38441	14 29 47.14	−14 45 13.8	19.6	704
1995 UL_8	1997 05 05.40177	14 29 46.02	−14 45 09.2	20.0	704
1995 UU_{14}	1997 04 03.28294	12 56 24.28	−08 58 16.0	19.1	704
1995 UU_{14}	1997 04 03.28405	12 56 24.17	−08 58 15.7	18.8	704
1995 UU_{14}	1997 04 03.39723	12 56 17.70	−08 57 41.1		704
1995 UU_{14}	1997 04 03.39833	12 56 17.67	−08 57 39.5		704
1995 VJ	1997 04 03.29162	13 06 01.37	−04 34 22.7	19.0	704
1995 VJ	1997 04 03.29493	13 06 01.21	−04 34 23.0	19.0	704
1995 VJ	1997 04 03.40611	13 05 54.90	−04 33 53.0		704
1995 VJ	1997 04 03.40951	13 05 54.95	−04 33 52.0		704
1995 VJ	1997 04 07.15313	13 02 29.43	−04 17 04.7	19.0	704
1995 VJ	1997 04 07.15329	13 02 29.45	−04 17 04.9	19.3	704
1995 VJ	1997 04 07.23157	13 02 24.99	−04 16 44.3		704
1995 VJ	1997 04 07.23172	13 02 25.07	−04 16 43.6		704
1995 XP_2	1997 04 03.28247	12 56 28.05	−07 09 53.2	19.0	704
1995 XP_2	1997 04 03.28453	12 56 27.92	−07 09 53.3	18.5	704
1995 XP_2	1997 04 03.39676	12 56 21.32	−07 09 07.7		704
1995 XP_2	1997 04 03.39882	12 56 21.17	−07 09 05.6		704
1995 YV_{22}	1997 05 05.33831	14 37 14.26	−12 58 21.2	19.3	704
1995 YV_{22}	1997 05 05.35567	14 37 13.46	−12 58 17.7	20.3	704
1995 YV_{22}	1997 05 05.37303	14 37 12.58	−12 58 13.5	20.3	704
1995 YV_{22}	1997 05 05.39039	14 37 11.77	−12 58 09.2	19.9	704
1995 YV_{22}	1997 05 05.40776	14 37 10.73	−12 58 06.9	20.4	704
1996 AJ	1997 04 07.14232	12 51 47.85	−08 35 44.9	18.2	704
1996 AJ	1997 04 07.22076	12 51 43.22	−08 35 18.1		704
1997 AR_2	1997 03 31.13571	08 35 59.91	+20 06 36.2	18.0	704
1997 AR_2	1997 03 31.13596	08 35 59.74	+20 06 37.1	18.2	704
1997 AR_2	1997 03 31.22289	08 36 01.48	+20 06 30.7		704
1997 AR_2	1997 03 31.22313	08 36 01.58	+20 06 29.5		704
1997 AH_8	1997 03 31.13644	08 35 41.22	+21 42 20.0	18.7	704
1997 AH_8	1997 03 31.22361	08 35 43.85	+21 42 20.2		704
1997 AH_8	1997 04 01.18803	08 36 15.87	+21 42 23.1	18.4	704
1997 AH_8	1997 04 01.18821	08 36 15.93	+21 42 22.6	18.3	704
1997 AH_8	1997 04 01.25235	08 36 18.06	+21 42 22.2		704
1997 AH_8	1997 04 01.25252	08 36 18.07	+21 42 21.8		704
1997 BG_1	1997 03 31.14393	08 42 00.50	+20 05 36.7	18.4	704
1997 BG_1	1997 03 31.14417	08 42 00.65	+20 05 36.2	18.4	704
1997 BG_1	1997 03 31.23109	08 42 03.48	+20 05 43.7		704
1997 BG_1	1997 03 31.23133	08 42 03.60	+20 05 42.5		704
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1997 DC	1997 04 09.18829	11 10 44.19	+07 04 00.3		704
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1997 EG	1997 04 02.16951	11 01 17.31	+08 58 54.9	17.6	704
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1997 ED_8	1997 04 02.30448	11 10 45.35	+06 15 40.0		704
1997 ED_8	1997 04 02.30641	11 10 45.28	+06 15 40.9		704
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1997 EK_8	1997 04 09.15091	11 13 08.11	+04 30 15.4		704
1997 EK_8	1997 04 09.18970	11 13 06.79	+04 30 20.3		704
1997 EK_8	1997 04 09.19330	11 13 06.65	+04 30 20.5		704
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1997 ER_{11}	1997 04 29.22113	10 47 09.28	+07 39 37.9	20.2	704
1997 ER_{11}	1997 04 29.22349	10 47 09.28	+07 39 39.4	19.9	704
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1997 ET_{46}	1997 04 03.41308	13 11 38.08	−08 30 27.9		704
1997 ET_{46}	1997 04 11.17554	13 06 06.29	−07 31 17.6	18.9	704
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1997 ET_{46}	1997 04 11.23246	13 06 03.73	−07 30 51.3		704
1997 EU_{46}	1997 04 03.29744	13 10 39.34	−09 46 35.3	17.9	704
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1997 EU_{46}	1997 04 11.22772	13 03 35.89	−08 59 38.6		704
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1997 EB_{47}	1997 04 11.17946	13 12 20.63	−09 45 37.1	17.9	704
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1997 EP_{47}	1997 04 11.17930	13 11 40.82	−10 19 50.3	17.1	704
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1997 FZ_2	1997 04 07.13792	12 46 50.66	−08 30 39.1	18.9	704
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1997 FZ_2	1997 04 07.21654	12 46 46.76	−08 30 21.6		704
1997 FB_3	1997 04 03.27788	12 51 05.84	−06 41 55.6	19.0	704
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1997 FU_3	1997 04 06.23906	12 50 35.35	−09 42 19.5		704
1997 FV_3	1997 04 05.22934	12 51 40.83	−08 51 49.5	18.8	704
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1997 FH_4	1997 04 05.23265	12 54 12.52	−07 52 48.9	18.2	704
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1997 FH_4	1997 04 05.35838	12 54 04.32	−07 52 34.7		704
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1997 FK_4	1997 04 03.28294	12 56 25.93	−08 53 04.6	18.6	704
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1997 GN	1997 04 03.29398	13 06 57.47	−07 55 06.5	18.0	704
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1997 GA_7	1997 04 30.22693	14 28 21.90	−13 26 49.6	19.7	704
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1997 GA_7	1997 04 30.24950	14 28 20.42	−13 26 46.1	19.4	704
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1997 GH_7	1997 04 08.42544	14 49 31.34	−12 17 50.3		704
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1997 GU_7	1997 04 06.31903	14 54 06.05	−12 32 00.1	19.9	704
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1997 GU_7	1997 04 06.41240	14 54 02.37	−12 31 45.1		704
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1997 GX_7	1997 04 30.21340	14 37 40.37	−12 21 29.1	19.5	704
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1997 GC_8	1997 05 01.23105	14 27 04.10	−15 54 13.4	19.5	704
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1997 GD_8	1997 04 06.41129	14 54 05.53	−16 39 17.8		704
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1997 GE_8	1997 04 30.20975	14 32 39.92	−15 25 14.8	18.7	704
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1997 GH_8	1997 04 08.42748	14 51 56.22	−17 42 58.7		704
1997 GH_8	1997 04 08.42764	14 51 56.25	−17 42 59.7		704
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1997 GN_8	1997 04 30.23678	14 38 48.10	−17 02 48.7	19.0	704
1997 GN_8	1997 04 30.25929	14 38 46.99	−17 02 45.9	19.0	704
1997 GN_8	1997 04 30.28171	14 38 45.86	−17 02 42.5	18.8	704
1997 GN_8	1997 04 30.30429	14 38 44.63	−17 02 39.0	19.0	704
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1997 GG_9	1997 04 07.21608	12 47 19.22	−09 04 55.8		704
1997 GG_9	1997 04 07.21638	12 47 19.29	−09 04 56.6		704
1997 GR_9	1997 04 05.22934	12 51 43.26	−08 39 41.4	18.9	704
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1997 GP_{10}	1997 04 06.15332	12 52 39.99	−03 42 00.9	18.9	704
1997 GP_{10}	1997 04 06.24135	12 52 35.11	−03 41 13.8		704
1997 GP_{10}	1997 04 06.24152	12 52 35.13	−03 41 14.3		704
1997 GL_{11}	1997 03 31.33949	12 57 40.19	−08 40 49.7	18.3	704
1997 GL_{11}	1997 03 31.42688	12 57 34.49	−08 40 36.4		704

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1997 GO_{11}	1997 04 05.26083	12 54 04.54	−08 15 10.4	19.5	704
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1997 GO_{11}	1997 04 05.35508	12 54 00.42	−08 13 48.9		704
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1997 GB_{12}	1997 04 05.26362	12 56 27.93	−06 36 03.4	19.3	704
1997 GB_{12}	1997 04 05.26639	12 56 27.82	−06 36 03.6	18.8	704
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1997 GB_{12}	1997 04 05.36047	12 56 22.45	−06 35 23.9		704
1997 GC_{12}	1997 04 05.23491	12 56 25.06	−06 23 03.0	18.9	704
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1997 GC_{12}	1997 04 05.35786	12 56 18.41	−06 22 14.1		704
1997 GD_{12}	1997 04 05.23230	12 56 29.62	−06 07 09.7	17.8	704
1997 GD_{12}	1997 04 05.23491	12 56 29.41	−06 07 08.2	17.8	704
1997 GD_{12}	1997 04 05.26344	12 56 27.40	−06 07 05.4	18.7	704
1997 GD_{12}	1997 04 05.35769	12 56 21.63	−06 06 54.1		704
1997 GD_{12}	1997 04 05.35786	12 56 21.69	−06 06 54.5		704
1997 GD_{12}	1997 04 05.36047	12 56 21.46	−06 06 52.3		704
1997 GD_{12}	1997 04 06.15454	12 55 33.55	−06 05 16.5	18.4	704
1997 GD_{12}	1997 04 06.15471	12 55 33.54	−06 05 16.3	18.4	704
1997 GD_{12}	1997 04 06.22159	12 55 29.34	−06 05 08.9		704
1997 GD_{12}	1997 04 06.24291	12 55 27.99	−06 05 05.9		704
1997 GJ_{12}	1997 04 07.14420	12 54 11.26	−03 06 51.5	19.1	704
1997 GJ_{12}	1997 04 07.16286	12 54 10.36	−03 06 34.4	19.6	704
1997 GJ_{12}	1997 04 07.22248	12 54 07.91	−03 05 44.2		704
1997 GJ_{12}	1997 04 07.22264	12 54 07.90	−03 05 45.5		704
1997 GM_{12}	1997 04 07.14373	12 53 58.81	−03 28 41.6	19.3	704
1997 GM_{12}	1997 04 07.14420	12 53 58.86	−03 28 41.0	19.2	704
1997 GM_{12}	1997 04 07.20369	12 53 54.97	−03 28 24.8		704
1997 GM_{12}	1997 04 07.22217	12 53 53.79	−03 28 20.7		704
1997 GE_{13}	1997 04 05.23491	12 57 59.69	−06 05 48.0	18.5	704
1997 GE_{13}	1997 04 05.23509	12 57 59.72	−06 05 48.1	18.2	704
1997 GE_{13}	1997 04 05.32912	12 57 54.64	−06 04 59.2		704
1997 GE_{13}	1997 04 05.36064	12 57 52.93	−06 04 42.9		704
1997 GJ_{13}	1997 04 07.14498	12 56 10.22	−06 42 59.4	19.5	704
1997 GJ_{13}	1997 04 07.16396	12 56 09.12	−06 42 50.7	19.4	704
1997 GJ_{13}	1997 04 07.22342	12 56 05.65	−06 42 27.0		704
1997 GJ_{13}	1997 04 07.22357	12 56 05.52	−06 42 27.4		704
1997 GM_{13}	1997 04 06.15715	12 57 19.47	−06 42 12.5	17.7	704
1997 GM_{13}	1997 04 06.15733	12 57 19.52	−06 42 12.4	18.0	704
1997 GM_{13}	1997 04 06.24535	12 57 15.67	−06 41 01.8		704
1997 GM_{13}	1997 04 06.24552	12 57 15.67	−06 41 02.2		704
1997 GF_{14}	1997 04 07.14638	12 57 20.91	−09 41 28.7	19.0	704
1997 GF_{14}	1997 04 07.14654	12 57 20.89	−09 41 29.0	19.2	704
1997 GF_{14}	1997 04 07.22483	12 57 16.32	−09 41 01.0		704
1997 GF_{14}	1997 04 07.22498	12 57 16.41	−09 41 01.3		704
1997 GG_{14}	1997 04 07.14638	12 57 39.41	−09 43 22.8	18.2	704
1997 GG_{14}	1997 04 07.16537	12 57 38.54	−09 43 07.9	18.2	704
1997 GG_{14}	1997 04 07.22483	12 57 35.17	−09 42 41.0		704
1997 GG_{14}	1997 04 07.22498	12 57 35.24	−09 42 41.1		704
1997 GJ_{14}	1997 04 07.14638	12 56 30.36	−10 11 56.8	18.7	704
1997 GJ_{14}	1997 04 07.16474	12 56 29.44	−10 11 46.0	18.2	704
1997 GJ_{14}	1997 04 07.22436	12 56 27.03	−10 11 08.6		704
1997 GJ_{14}	1997 04 07.22483	12 56 26.90	−10 11 06.1		704
1997 GP_{14}	1997 04 07.15108	12 51 35.40	−10 59 32.7	19.1	704
1997 GP_{14}	1997 04 07.15123	12 51 35.44	−10 59 33.1	18.8	704
1997 GP_{14}	1997 04 07.21057	12 51 31.59	−10 59 17.0		704
1997 GP_{14}	1997 04 07.22968	12 51 30.38	−10 59 13.6		704
1997 GW_{14}	1997 04 06.15627	12 58 50.11	−09 46 45.5	17.7	704
1997 GW_{14}	1997 04 06.16062	12 58 49.87	−09 46 43.3	18.3	704
1997 GW_{14}	1997 04 06.22767	12 58 46.07	−09 46 13.0		704
1997 GW_{14}	1997 04 06.24447	12 58 45.12	−09 46 07.1		704
1997 GZ_{14}	1997 04 06.16028	12 59 27.61	−09 06 40.8	18.6	704
1997 GZ_{14}	1997 04 06.16045	12 59 27.56	−09 06 39.7	18.6	704
1997 GZ_{14}	1997 04 06.24847	12 59 22.37	−09 06 17.2		704
1997 GZ_{14}	1997 04 06.24864	12 59 22.19	−09 06 17.6		704
1997 GE_{15}	1997 04 06.18294	12 59 17.12	−08 31 00.7	18.3	704
1997 GE_{15}	1997 04 06.18311	12 59 16.99	−08 31 02.0	18.9	704
1997 GE_{15}	1997 04 06.24830	12 59 13.27	−08 30 43.5		704
1997 GE_{15}	1997 04 06.24847	12 59 13.20	−08 30 43.2		704
1997 GH_{15}	1997 04 05.23769	13 01 13.07	−08 08 38.8	18.4	704
1997 GH_{15}	1997 04 05.24030	13 01 12.93	−08 08 37.8	18.2	704
1997 GH_{15}	1997 04 05.33451	13 01 07.97	−08 07 58.2		704
1997 GH_{15}	1997 04 05.36325	13 01 06.55	−08 07 47.2		704
1997 GK_{15}	1997 04 05.24030	13 01 34.84	−07 53 34.1	19.4	704
1997 GK_{15}	1997 04 05.24047	13 01 34.88	−07 53 32.8	19.4	704
1997 GK_{15}	1997 04 05.33451	13 01 30.15	−07 53 06.2		704
1997 GK_{15}	1997 04 05.33469	13 01 30.18	−07 53 08.5		704
1997 GU_{15}	1997 04 07.14873	12 59 40.86	−03 43 11.6	19.3	704
1997 GU_{15}	1997 04 07.16784	12 59 39.72	−03 42 59.2	19.0	704
1997 GU_{15}	1997 04 07.22703	12 59 36.38	−03 42 26.6		704
1997 GU_{15}	1997 04 07.22718	12 59 36.36	−03 42 26.3		704
1997 GA_{16}	1997 04 07.14842	12 59 03.52	−03 06 50.2	18.8	704
1997 GA_{16}	1997 04 07.14858	12 59 03.44	−03 06 51.4	19.1	704
1997 GA_{16}	1997 04 07.22687	12 58 58.94	−03 06 37.0		704
1997 GA_{16}	1997 04 07.22703	12 58 58.94	−03 06 36.9		704
1997 GL_{16}	1997 04 07.15313	13 02 35.33	−04 17 48.9	19.7	704
1997 GL_{16}	1997 04 07.15329	13 02 35.21	−04 17 49.2	19.6	704
1997 GL_{16}	1997 04 07.23157	13 02 31.45	−04 17 24.1		704
1997 GL_{16}	1997 04 07.23172	13 02 31.53	−04 17 24.9		704
1997 GS_{16}	1997 04 05.24276	13 04 25.22	−05 31 02.5	18.3	704
1997 GS_{16}	1997 04 05.24293	13 04 25.21	−05 31 07.7	18.0	704
1997 GS_{16}	1997 04 05.33696	13 04 20.69	−05 30 37.7		704
1997 GS_{16}	1997 04 05.33713	13 04 20.76	−05 30 37.1		704
1997 GV_{16}	1997 04 06.16324	13 03 23.14	−06 06 05.9	18.8	704
1997 GV_{16}	1997 04 06.16341	13 03 23.16	−06 06 07.6	18.8	704
1997 GV_{16}	1997 04 06.23047	13 03 20.22	−06 05 36.4		704
1997 GV_{16}	1997 04 06.25146	13 03 19.20	−06 05 27.1		704
1997 GA_{18}	1997 04 07.15313	13 03 39.36	−04 26 47.7	18.7	704
1997 GA_{18}	1997 04 07.15423	13 03 39.26	−04 26 47.2	19.0	704
1997 GA_{18}	1997 04 07.23157	13 03 35.14	−04 26 11.6		704
1997 GA_{18}	1997 04 07.23266	13 03 35.08	−04 26 11.4		704

1997 GD_{18}	1997 04 07.15329	13 03 39.14	−04 15 01.5	19.7	704
1997 GD_{18}	1997 04 07.15408	13 03 39.04	−04 15 00.6	19.7	704
1997 GD_{18}	1997 04 07.23172	13 03 34.54	−04 14 28.1		704
1997 GD_{18}	1997 04 07.23251	13 03 34.35	−04 14 27.4		704
1997 GZ_{18}	1997 04 06.16185	13 03 28.54	−10 54 50.6	18.6	704
1997 GZ_{18}	1997 04 06.16202	13 03 28.56	−10 54 51.0	18.2	704
1997 GZ_{18}	1997 04 06.25004	13 03 22.43	−10 54 30.4		704
1997 GZ_{18}	1997 04 06.25022	13 03 22.57	−10 54 31.0		704
1997 GA_{19}	1997 04 07.15045	13 00 09.30	−10 53 29.7	18.9	704
1997 GA_{19}	1997 04 07.16987	13 00 08.17	−10 53 24.9	18.8	704
1997 GA_{19}	1997 04 07.22890	13 00 04.58	−10 53 10.5		704
1997 GA_{19}	1997 04 07.22906	13 00 04.56	−10 53 10.3		704
1997 GJ_{19}	1997 03 31.33054	12 51 42.66	−07 34 04.4	18.7	704
1997 GJ_{19}	1997 03 31.33319	12 51 42.44	−07 34 02.2	18.5	704
1997 GJ_{19}	1997 03 31.41795	12 51 38.09	−07 33 29.3		704
1997 GJ_{19}	1997 03 31.42061	12 51 37.96	−07 33 26.9		704
1997 GJ_{19}	1997 04 03.27568	12 49 14.28	−07 14 33.8	19.4	704
1997 GJ_{19}	1997 04 03.27804	12 49 14.16	−07 14 31.2	18.4	704
1997 GJ_{19}	1997 04 03.39000	12 49 08.29	−07 13 48.6		704
1997 GJ_{19}	1997 04 03.39236	12 49 08.20	−07 13 44.6		704
1997 GK_{19}	1997 04 03.27600	12 49 13.97	−05 48 54.0	19.8	704
1997 GK_{19}	1997 04 03.27773	12 49 13.88	−05 48 52.8	19.5	704
1997 GK_{19}	1997 04 03.39032	12 49 09.49	−05 48 02.7		704
1997 GK_{19}	1997 04 03.39205	12 49 09.35	−05 48 01.5		704
1997 GM_{19}	1997 04 03.27741	12 51 37.97	−04 30 23.4	18.5	704
1997 GM_{19}	1997 04 03.28075	12 51 37.73	−04 30 20.6	18.5	704
1997 GM_{19}	1997 04 03.39173	12 51 31.60	−04 29 29.8		704
1997 GM_{19}	1997 04 03.39505	12 51 31.53	−04 29 25.9		704
1997 GP_{19}	1997 04 03.28547	12 56 53.56	−03 05 26.1	19.7	704
1997 GP_{19}	1997 04 03.28563	12 56 53.58	−03 05 26.6	19.8	704
1997 GP_{19}	1997 04 03.39979	12 56 46.65	−03 04 55.0		704
1997 GP_{19}	1997 04 03.39995	12 56 46.68	−03 04 55.2		704
1997 GS_{19}	1997 04 03.28357	12 58 31.03	−10 18 11.1	19.1	704
1997 GS_{19}	1997 04 03.28373	12 58 31.07	−10 18 11.7	19.3	704
1997 GS_{19}	1997 04 03.39786	12 58 24.05	−10 17 21.7		704
1997 GS_{19}	1997 04 03.39802	12 58 24.03	−10 17 21.9		704
1997 GV_{19}	1997 04 03.28703	12 59 45.26	−07 54 35.6	19.1	704
1997 GV_{19}	1997 04 03.28719	12 59 45.18	−07 54 36.2	18.8	704
1997 GV_{19}	1997 04 03.40140	12 59 39.84	−07 53 12.6		704
1997 GV_{19}	1997 04 03.40156	12 59 39.88	−07 53 12.5		704
1997 GW_{19}	1997 04 03.28453	12 58 21.87	−06 41 43.8	18.8	704
1997 GW_{19}	1997 04 03.28468	12 58 21.83	−06 41 44.7	19.8	704
1997 GW_{19}	1997 04 03.39882	12 58 15.54	−06 40 58.9		704
1997 GW_{19}	1997 04 03.39898	12 58 15.66	−06 40 57.4		704
1997 GD_{20}	1997 04 03.29193	13 06 03.89	−05 34 44.6	19.6	704
1997 GD_{20}	1997 04 03.29461	13 06 03.74	−05 34 43.8	18.9	704
1997 GD_{20}	1997 04 03.40644	13 05 58.78	−05 34 14.2		704
1997 GD_{20}	1997 04 03.40919	13 05 58.75	−05 34 12.0		704
1997 GE_{20}	1997 04 03.29461	13 07 39.32	−05 30 02.8	18.7	704
1997 GE_{20}	1997 04 03.29477	13 07 39.33	−05 30 02.5	18.9	704
1997 GE_{20}	1997 04 03.40919	13 07 33.86	−05 29 25.0		704
1997 GE_{20}	1997 04 03.40935	13 07 33.89	−05 29 24.6		704
1997 GG_{20}	1997 04 03.27788	12 51 19.07	−06 42 57.2	19.8	704
1997 GG_{20}	1997 04 03.27804	12 51 18.99	−06 42 58.2	19.4	704
1997 GG_{20}	1997 04 03.39221	12 51 12.39	−06 42 37.2		704
1997 GG_{20}	1997 04 03.39236	12 51 12.35	−06 42 37.1		704
1997 GJ_{20}	1997 04 03.28215	12 56 20.42	−06 06 42.3	20.0	704
1997 GJ_{20}	1997 04 03.28231	12 56 20.39	−06 06 40.8	19.5	704
1997 GJ_{20}	1997 04 03.39645	12 56 13.73	−06 06 11.5		704
1997 GJ_{20}	1997 04 03.39661	12 56 13.74	−06 06 09.5		704
1997 GN_{20}	1997 04 03.28594	12 59 43.51	−03 38 05.3	19.9	704
1997 GN_{20}	1997 04 03.40027	12 59 36.09	−03 37 40.2		704
1997 GO_{20}	1997 04 03.28594	12 59 42.57	−03 40 15.0	20.0	704
1997 GO_{20}	1997 04 03.40027	12 59 36.11	−03 39 52.4		704
1997 GR_{20}	1997 04 03.28059	12 52 58.74	−05 09 28.3	19.5	704
1997 GR_{20}	1997 04 03.39489	12 52 52.24	−05 08 52.4		704
1997 GT_{20}	1997 03 31.33900	12 58 52.02	−10 06 02.2	18.1	704
1997 GT_{20}	1997 03 31.34505	12 58 51.54	−10 06 03.1	17.8	704
1997 GT_{20}	1997 03 31.42640	12 58 46.04	−10 06 17.8		704
1997 GT_{20}	1997 03 31.43243	12 58 45.62	−10 06 15.5		704
1997 GT_{20}	1997 04 05.22882	12 53 28.06	−10 18 51.7	17.6	704
1997 GT_{20}	1997 04 05.22900	12 53 28.09	−10 18 51.8	18.0	704
1997 GT_{20}	1997 04 05.35439	12 53 19.17	−10 19 09.6		704
1997 GT_{20}	1997 04 05.35456	12 53 19.17	−10 19 08.8		704
1997 GU_{20}	1997 03 31.33924	12 56 53.52	−09 36 35.8	18.2	704
1997 GU_{20}	1997 03 31.42664	12 56 48.99	−09 35 57.6		704
1997 GU_{20}	1997 04 03.28310	12 54 26.94	−09 15 12.7	17.8	704
1997 GU_{20}	1997 04 03.39740	12 54 20.86	−09 14 21.1		704
1997 GU_{20}	1997 04 05.22934	12 52 48.54	−09 00 33.7	17.9	704
1997 GU_{20}	1997 04 05.35491	12 52 41.78	−08 59 35.9		704
1997 GV_{20}	1997 03 31.33924	12 56 57.79	−09 35 43.5	18.3	704
1997 GV_{20}	1997 03 31.42664	12 56 53.15	−09 35 09.0		704
1997 GV_{20}	1997 04 03.28310	12 54 28.83	−09 16 07.9	17.8	704
1997 GV_{20}	1997 04 03.39740	12 54 22.93	−09 15 20.7		704
1997 GV_{20}	1997 04 05.22934	12 52 50.23	−09 02 55.3	18.1	704
1997 GV_{20}	1997 04 05.35491	12 52 43.50	−09 02 03.4		704
1997 GX_{20}	1997 04 05.26100	12 54 03.07	−07 49 23.4	19.0	704
1997 GX_{20}	1997 04 05.26396	12 54 02.87	−07 49 24.9	19.1	704
1997 GX_{20}	1997 04 05.35526	12 53 57.24	−07 48 40.8		704
1997 GX_{20}	1997 04 05.35821	12 53 57.05	−07 48 39.4		704
1997 GB_{21}	1997 04 03.28106	12 51 49.83	−03 31 43.0	19.0	704
1997 GB_{21}	1997 04 03.39536	12 51 43.65	−03 30 41.0		704
1997 GC_{21}	1997 04 03.28009	12 54 01.96	−07 10 52.0	19.7	704
1997 GC_{21}	1997 04 03.28247	12 54 01.84	−07 10 50.7	19.2	704
1997 GC_{21}	1997 04 03.39442	12 53 55.56	−07 10 28.9		704
1997 GC_{21}	1997 04 03.39676	12 53 55.52	−07 10 27.2		704
1997 GE_{21}	1997 04 03.28973	13 03 39.61	−07 34 04.3	19.2	704
1997 GE_{21}	1997 04 03.29240	13 03 39.51	−07 34 02.2	19.0	704
1997 GE_{21}	1997 04 03.40417	13 03 34.79	−07 33 09.4		704
1997 GE_{21}	1997 04 03.40692	13 03 34.73	−07 33 07.2		704
1997 GE_{21}	1997 04 05.24047	13 02 19.83	−07 18 18.3	18.9	704
1997 GE_{21}	1997 04 05.24065	13 02 19.83	−07 18 17.9	19.0	704
1997 GE_{21}	1997 04 05.33469	13 02 15.86	−07 17 31.2		704
1997 GE_{21}	1997 04 05.33486	13 02 15.91	−07 17 33.2		704

1997 GH_{21}	1997 04 30.20736	14 30 26.49	−14 03 54.1	18.6	704
1997 GH_{21}	1997 04 30.20752	14 30 26.49	−14 03 53.7	19.4	704
1997 GH_{21}	1997 04 30.22967	14 30 25.25	−14 03 53.1	19.1	704
1997 GH_{21}	1997 04 30.22983	14 30 25.14	−14 03 52.7	19.8	704
1997 GH_{21}	1997 04 30.25206	14 30 24.00	−14 03 51.4	19.1	704
1997 GH_{21}	1997 04 30.25222	14 30 23.99	−14 03 51.2	19.4	704
1997 GH_{21}	1997 04 30.27454	14 30 22.73	−14 03 50.6	19.3	704
1997 GH_{21}	1997 04 30.27469	14 30 22.79	−14 03 50.8	19.6	704
1997 GH_{21}	1997 04 30.29715	14 30 21.41	−14 03 47.0	19.9	704
1997 GH_{21}	1997 04 30.29732	14 30 21.54	−14 03 49.4	19.6	704
1997 GJ_{21}	1997 04 08.34878	14 49 13.61	−14 16 59.1		704
1997 GJ_{21}	1997 04 08.35097	14 49 13.61	−14 16 58.2		704
1997 GJ_{21}	1997 04 08.41191	14 49 11.59	−14 16 20.3		704
1997 GJ_{21}	1997 04 08.42403	14 49 11.32	−14 16 12.7		704
1997 GL_{21}	1997 04 02.41514	14 51 43.04	−17 45 42.8	19.6	704
1997 GL_{21}	1997 04 02.41567	14 51 43.05	−17 45 42.0	19.3	704
1997 GL_{21}	1997 04 02.45681	14 51 41.63	−17 45 39.1		704
1997 GL_{21}	1997 04 02.45733	14 51 41.63	−17 45 37.1		704
1997 GL_{21}	1997 05 05.32654	14 27 23.87	−16 10 22.1	18.9	704
1997 GL_{21}	1997 05 05.33020	14 27 23.68	−16 10 21.3		704
1997 GL_{21}	1997 05 05.34390	14 27 22.95	−16 10 18.3	19.0	704
1997 GL_{21}	1997 05 05.34756	14 27 22.81	−16 10 17.3		704
1997 GL_{21}	1997 05 05.36126	14 27 22.08	−16 10 14.5	19.4	704
1997 GL_{21}	1997 05 05.36493	14 27 21.92	−16 10 13.3	19.0	704
1997 GL_{21}	1997 05 05.37862	14 27 21.24	−16 10 11.0	19.3	704
1997 GL_{21}	1997 05 05.38229	14 27 21.02	−16 10 09.5	18.9	704
1997 GL_{21}	1997 05 05.39598	14 27 20.30	−16 10 07.4	19.2	704
1997 GL_{21}	1997 05 05.39965	14 27 20.17	−16 10 05.2	18.8	704
1997 GN_{21}	1997 04 02.41567	14 52 48.70	−17 41 50.7	19.2	704
1997 GN_{21}	1997 04 02.41584	14 52 48.63	−17 41 50.3	19.6	704
1997 GN_{21}	1997 04 02.45733	14 52 47.47	−17 41 56.0		704
1997 GN_{21}	1997 04 02.45750	14 52 47.52	−17 41 55.0		704
1997 GF_{22}	1997 05 01.22255	14 40 12.39	−17 09 41.2		704
1997 GF_{22}	1997 05 01.22271	14 40 12.39	−17 09 41.2	18.5	704
1997 GF_{22}	1997 05 01.24501	14 40 10.89	−17 09 42.9	18.2	704
1997 GF_{22}	1997 05 01.24517	14 40 10.93	−17 09 43.2	18.6	704
1997 GF_{22}	1997 05 01.26741	14 40 09.43	−17 09 45.1	18.4	704
1997 GF_{22}	1997 05 01.26758	14 40 09.44	−17 09 44.8	18.5	704
1997 GF_{22}	1997 05 01.28991	14 40 07.93	−17 09 46.6	18.2	704
1997 GF_{22}	1997 05 01.29008	14 40 07.94	−17 09 47.0	18.5	704
1997 GF_{22}	1997 05 01.31245	14 40 06.49	−17 09 48.6		704
1997 GF_{22}	1997 05 01.31261	14 40 06.52	−17 09 48.9	18.6	704
1997 GH_{22}	1997 05 05.32635	14 26 28.39	−16 32 56.1		704
1997 GH_{22}	1997 05 05.32654	14 26 28.37	−16 32 56.2		704
1997 GH_{22}	1997 05 05.34371	14 26 27.08	−16 32 54.2		704
1997 GH_{22}	1997 05 05.34390	14 26 27.07	−16 32 54.1		704
1997 GH_{22}	1997 05 05.36107	14 26 25.84	−16 32 52.5		704
1997 GH_{22}	1997 05 05.36126	14 26 25.83	−16 32 52.4	18.5	704
1997 GH_{22}	1997 05 05.37843	14 26 24.59	−16 32 50.6		704
1997 GH_{22}	1997 05 05.37862	14 26 24.57	−16 32 50.6		704
1997 GH_{22}	1997 05 05.39579	14 26 23.28	−16 32 49.0		704
1997 GH_{22}	1997 05 05.39598	14 26 23.31	−16 32 48.6	18.4	704
1997 GJ_{22}	1997 04 02.42000	14 56 31.62	−17 47 41.4	19.6	704
1997 GJ_{22}	1997 04 02.42052	14 56 31.52	−17 47 40.1	19.4	704
1997 GJ_{22}	1997 04 02.46167	14 56 30.50	−17 47 30.4		704
1997 GJ_{22}	1997 04 02.46220	14 56 30.37	−17 47 29.4		704
1997 GS_{22}	1997 05 05.33503	14 34 45.72	−14 32 13.0	19.4	704
1997 GS_{22}	1997 05 05.33792	14 34 45.53	−14 32 12.4	18.7	704
1997 GS_{22}	1997 05 05.35239	14 34 44.73	−14 32 09.4	19.8	704
1997 GS_{22}	1997 05 05.35528	14 34 44.60	−14 32 09.3	19.3	704
1997 GS_{22}	1997 05 05.36975	14 34 43.75	−14 32 07.0	20.2	704
1997 GS_{22}	1997 05 05.37265	14 34 43.61	−14 32 06.5	19.6	704
1997 GS_{22}	1997 05 05.38711	14 34 42.87	−14 32 05.4	19.8	704
1997 GS_{22}	1997 05 05.39001	14 34 42.70	−14 32 02.9	19.4	704
1997 GS_{22}	1997 05 05.40447	14 34 41.92	−14 32 01.6	19.6	704
1997 GS_{22}	1997 05 05.40737	14 34 41.77	−14 31 59.9	19.4	704
1997 GT_{22}	1997 05 05.33541	14 34 50.66	−15 37 39.3		704
1997 GT_{22}	1997 05 05.33754	14 34 50.69	−15 37 39.5		704
1997 GT_{22}	1997 05 05.35277	14 34 49.85	−15 37 39.3		704
1997 GT_{22}	1997 05 05.35490	14 34 49.71	−15 37 38.5		704
1997 GT_{22}	1997 05 05.37014	14 34 48.83	−15 37 38.8	18.6	704
1997 GT_{22}	1997 05 05.37226	14 34 48.73	−15 37 38.2	18.5	704
1997 GT_{22}	1997 05 05.38750	14 34 47.88	−15 37 38.3	18.5	704
1997 GT_{22}	1997 05 05.38962	14 34 47.78	−15 37 37.2		704
1997 GT_{22}	1997 05 05.40486	14 34 46.89	−15 37 37.6		704
1997 GT_{22}	1997 05 05.40698	14 34 46.82	−15 37 36.4		704
1997 GW_{22}	1997 04 30.21340	14 37 31.50	−12 21 45.9	18.9	704
1997 GW_{22}	1997 04 30.23568	14 37 30.20	−12 21 41.0	19.1	704
1997 GW_{22}	1997 04 30.25818	14 37 28.85	−12 21 36.1	18.9	704
1997 GW_{22}	1997 04 30.28058	14 37 27.52	−12 21 31.6	19.0	704
1997 GW_{22}	1997 04 30.30318	14 37 26.17	−12 21 27.8	19.6	704
1997 GZ_{22}	1997 05 05.33888	14 37 02.06	−10 58 11.1	18.9	704
1997 GZ_{22}	1997 05 05.33908	14 37 02.18	−10 58 12.2	19.5	704
1997 GZ_{22}	1997 05 05.35624	14 37 01.28	−10 58 05.3	19.6	704
1997 GZ_{22}	1997 05 05.35644	14 37 01.26	−10 58 06.0	19.6	704
1997 GZ_{22}	1997 05 05.37361	14 37 00.34	−10 58 00.0	19.7	704
1997 GZ_{22}	1997 05 05.37380	14 37 00.38	−10 57 59.6	20.0	704
1997 GZ_{22}	1997 05 05.39097	14 36 59.48	−10 57 54.1	19.9	704
1997 GZ_{22}	1997 05 05.39116	14 36 59.67	−10 57 54.6	20.1	704
1997 GZ_{22}	1997 05 05.40833	14 36 58.41	−10 57 49.3	19.7	704
1997 GZ_{22}	1997 05 05.40853	14 36 58.46	−10 57 48.3	19.8	704
1997 GF_{23}	1997 04 30.21737	14 39 51.11	−13 26 30.0	18.9	704
1997 GF_{23}	1997 04 30.21752	14 39 51.08	−13 26 30.9	19.1	704
1997 GF_{23}	1997 04 30.23965	14 39 49.80	−13 26 31.5	19.1	704
1997 GF_{23}	1997 04 30.23981	14 39 49.81	−13 26 30.8	19.3	704
1997 GF_{23}	1997 04 30.26221	14 39 48.53	−13 26 32.8	19.2	704
1997 GF_{23}	1997 04 30.26237	14 39 48.52	−13 26 33.3	19.4	704
1997 GF_{23}	1997 04 30.28462	14 39 47.26	−13 26 34.0	20.3	704
1997 GF_{23}	1997 04 30.28478	14 39 47.29	−13 26 34.1	19.8	704
1997 GF_{23}	1997 04 30.30718	14 39 45.94	−13 26 35.1	19.2	704
1997 GF_{23}	1997 04 30.30735	14 39 45.93	−13 26 35.9	19.4	704
1997 GO_{23}	1997 05 05.34159	14 37 54.21	−18 24 07.4	18.3	704
1997 GO_{23}	1997 05 05.34178	14 37 54.20	−18 24 07.2		704
1997 GO_{23}	1997 05 05.35895	14 37 53.33	−18 24 04.9	18.4	704

1997 GO_{23}	1997 05 05.35915	14 37 53.35	−18 24 05.0		704
1997 GO_{23}	1997 05 05.37631	14 37 52.49	−18 24 02.6	18.7	704
1997 GO_{23}	1997 05 05.37651	14 37 52.45	−18 24 02.9		704
1997 GO_{23}	1997 05 05.39367	14 37 51.63	−18 24 00.6	18.7	704
1997 GO_{23}	1997 05 05.39386	14 37 51.61	−18 24 00.6	18.4	704
1997 GO_{23}	1997 05 05.41103	14 37 50.78	−18 23 57.9	18.7	704
1997 GO_{23}	1997 05 05.41123	14 37 50.73	−18 23 58.5	18.5	704
1997 GT_{23}	1997 05 01.22767	14 46 55.30	−14 57 57.6	18.5	704
1997 GT_{23}	1997 05 01.25012	14 46 54.28	−14 57 50.7	19.0	704
1997 GT_{23}	1997 05 01.27254	14 46 53.20	−14 57 44.7	18.9	704
1997 GT_{23}	1997 05 01.29505	14 46 52.16	−14 57 38.3	19.0	704
1997 GT_{23}	1997 05 01.31776	14 46 51.10	−14 57 31.8	18.6	704
1997 GT_{23}	1997 05 07.19340	14 42 25.14	−14 29 10.6	18.4	704
1997 GT_{23}	1997 05 07.21423	14 42 24.15	−14 29 03.8		704
1997 GT_{23}	1997 05 07.23506	14 42 23.19	−14 28 57.3		704
1997 GT_{23}	1997 05 07.27673	14 42 21.19	−14 28 46.8		704
1997 GD_{24}	1997 04 02.41706	14 52 03.98	−12 53 35.8	19.6	704
1997 GD_{24}	1997 04 02.41723	14 52 04.10	−12 53 36.5	19.9	704
1997 GD_{24}	1997 04 02.45872	14 52 02.84	−12 53 19.7		704
1997 GD_{24}	1997 04 02.45889	14 52 02.84	−12 53 18.1		704
1997 GN_{24}	1997 04 02.41688	14 53 15.31	−13 31 01.0	19.4	704
1997 GN_{24}	1997 04 02.41706	14 53 15.34	−13 31 01.1	19.9	704
1997 GN_{24}	1997 04 02.45854	14 53 13.51	−13 31 04.9		704
1997 GN_{24}	1997 04 02.45872	14 53 13.46	−13 31 04.4		704
1997 GN_{24}	1997 05 01.20919	14 26 20.22	−13 48 45.1	18.6	704
1997 GN_{24}	1997 05 01.23153	14 26 18.78	−13 48 45.8	18.7	704
1997 GN_{24}	1997 05 01.25399	14 26 17.29	−13 48 45.8	18.8	704
1997 GN_{24}	1997 05 01.27642	14 26 15.86	−13 48 45.9	18.9	704
1997 GN_{24}	1997 05 01.29893	14 26 14.37	−13 48 46.5	18.5	704
1997 GO_{24}	1997 04 06.32059	14 56 22.81	−18 20 07.3	18.8	704
1997 GO_{24}	1997 04 06.32075	14 56 22.80	−18 20 06.6	18.8	704
1997 GO_{24}	1997 04 06.41506	14 56 20.63	−18 19 51.5		704
1997 GO_{24}	1997 04 06.41521	14 56 20.61	−18 19 48.7		704
1997 GP_{24}	1997 04 30.23981	14 41 49.10	−12 59 08.1	18.6	704
1997 GP_{24}	1997 04 30.26237	14 41 47.89	−12 59 06.7	18.7	704
1997 GP_{24}	1997 04 30.28478	14 41 46.66	−12 59 05.0	19.5	704
1997 GP_{24}	1997 04 30.30735	14 41 45.40	−12 59 05.1	19.2	704
1997 GP_{24}	1997 05 05.33831	14 37 15.61	−12 55 00.2	19.0	704
1997 GP_{24}	1997 05 05.34005	14 37 15.51	−12 55 00.3	18.7	704
1997 GP_{24}	1997 05 05.35567	14 37 14.64	−12 54 59.5	19.8	704
1997 GP_{24}	1997 05 05.35740	14 37 14.59	−12 54 59.0	19.5	704
1997 GP_{24}	1997 05 05.37303	14 37 13.70	−12 54 59.3	19.3	704
1997 GP_{24}	1997 05 05.37476	14 37 13.59	−12 54 58.5	19.2	704
1997 GP_{24}	1997 05 05.39039	14 37 12.74	−12 54 57.7	19.6	704
1997 GP_{24}	1997 05 05.39213	14 37 12.65	−12 54 57.9	19.8	704
1997 GP_{24}	1997 05 05.40776	14 37 11.74	−12 54 57.5	19.3	704
1997 GP_{24}	1997 05 05.40948	14 37 11.70	−12 54 56.9	19.2	704
1997 GQ_{24}	1997 04 06.32405	15 01 17.37	−15 02 35.3	19.9	704
1997 GQ_{24}	1997 04 06.32703	15 01 17.25	−15 02 34.1	19.8	704
1997 GQ_{24}	1997 04 06.41850	15 01 14.14	−15 02 28.3		704
1997 GQ_{24}	1997 04 06.42163	15 01 14.00	−15 02 27.3		704
1997 GM_{35}	1997 04 30.22262	14 47 12.66	−10 28 49.1	19.4	704
1997 GM_{35}	1997 04 30.22277	14 47 12.70	−10 28 49.6	19.0	704
1997 GM_{35}	1997 04 30.24491	14 47 11.38	−10 28 42.4	20.1	704
1997 GM_{35}	1997 04 30.24507	14 47 11.34	−10 28 42.5	19.6	704
1997 GM_{35}	1997 04 30.26748	14 47 10.11	−10 28 36.6	19.7	704
1997 GM_{35}	1997 04 30.26764	14 47 10.11	−10 28 37.1	19.6	704
1997 GM_{35}	1997 04 30.31276	14 47 07.26	−10 28 24.3	20.4	704
1997 GM_{35}	1997 04 30.31292	14 47 07.45	−10 28 23.0	19.3	704
1997 GM_{35}	1997 05 01.25123	14 46 15.96	−10 23 54.4	19.1	704
1997 GM_{35}	1997 05 01.27367	14 46 14.70	−10 23 48.4	19.2	704
1997 GM_{35}	1997 05 01.29618	14 46 13.33	−10 23 41.6	19.2	704
1997 GM_{35}	1997 05 01.31905	14 46 12.04	−10 23 35.2	19.2	704
1997 GO_{35}	1997 04 30.22197	14 44 45.05	−13 18 40.0	19.2	704
1997 GO_{35}	1997 04 30.24123	14 44 43.78	−13 18 38.7	19.4	704
1997 GO_{35}	1997 04 30.24427	14 44 43.59	−13 18 35.4	19.2	704
1997 GO_{35}	1997 04 30.26382	14 44 42.37	−13 18 34.0	19.6	704
1997 GO_{35}	1997 04 30.26684	14 44 42.21	−13 18 32.9	19.4	704
1997 GO_{35}	1997 04 30.28622	14 44 40.87	−13 18 29.2	19.4	704
1997 GO_{35}	1997 04 30.30878	14 44 39.16	−13 18 26.3	19.6	704
1997 GO_{35}	1997 04 30.31181	14 44 39.09	−13 18 23.4	19.7	704
1997 GO_{35}	1997 05 01.22512	14 43 40.53	−13 15 39.6	18.6	704
1997 GO_{35}	1997 05 01.24758	14 43 39.00	−13 15 36.2	19.1	704
1997 GO_{35}	1997 05 01.26998	14 43 37.48	−13 15 32.0	19.3	704
1997 GO_{35}	1997 05 01.29249	14 43 35.98	−13 15 28.5	18.7	704
1997 GO_{35}	1997 05 01.31520	14 43 34.50	−13 15 24.0	18.8	704
1997 GR_{35}	1997 05 01.22767	14 46 47.80	−14 56 32.4	19.0	704
1997 GR_{35}	1997 05 01.25012	14 46 46.75	−14 56 23.7	19.4	704
1997 GR_{35}	1997 05 01.27254	14 46 45.61	−14 56 16.5	19.5	704
1997 GR_{35}	1997 05 01.29505	14 46 44.42	−14 56 08.4	19.0	704
1997 GR_{35}	1997 05 01.31776	14 46 43.26	−14 55 59.6	19.2	704
1997 GR_{35}	1997 05 07.19052	14 41 49.62	−14 19 38.4	19.7	704
1997 GR_{35}	1997 05 07.21135	14 41 48.56	−14 19 30.7	19.7	704
1997 GR_{35}	1997 05 07.25302	14 41 46.38	−14 19 15.6		704
1997 GR_{35}	1997 05 07.27385	14 41 45.40	−14 19 07.9	19.5	704
1997 GH_{36}	1997 04 07.31040	15 08 32.35	−17 41 39.5	18.4	704
1997 GH_{36}	1997 04 07.31458	15 08 32.06	−17 41 42.2	19.0	704
1997 GH_{36}	1997 04 07.31475	15 08 32.11	−17 41 41.3	18.9	704
1997 GH_{36}	1997 04 07.41532	15 08 27.61	−17 41 58.6		704
1997 GH_{36}	1997 04 07.41950	15 08 27.55	−17 41 58.9		704
1997 GH_{36}	1997 04 07.41967	15 08 27.49	−17 41 57.6		704
1997 GP_{36}	1997 04 07.31475	15 10 52.88	−17 56 41.0	17.7	704
1997 GP_{36}	1997 04 07.31527	15 10 52.91	−17 56 40.9	17.5	704
1997 GP_{36}	1997 04 07.41967	15 10 50.29	−17 55 44.3		704
1997 GP_{36}	1997 04 07.42019	15 10 50.31	−17 55 43.3		704
1997 GR_{36}	1997 04 06.32861	15 05 03.33	−12 18 43.8	20.2	704
1997 GR_{36}	1997 04 06.32876	15 05 03.17	−12 18 42.4	20.1	704
1997 GR_{36}	1997 04 06.42320	15 04 59.38	−12 18 28.0		704
1997 GR_{36}	1997 04 06.42335	15 04 59.39	−12 18 27.2		704
1997 GA_{37}	1997 04 05.24380	13 06 02.69	−08 46 23.0	19.1	704
1997 GA_{37}	1997 04 05.24502	13 06 02.80	−08 46 21.2	18.9	704
1997 GA_{37}	1997 04 05.33800	13 05 57.51	−08 45 35.4		704
1997 GA_{37}	1997 04 05.33922	13 05 57.26	−08 45 33.9		704
1997 GD_{37}	1997 04 03.30041	13 14 25.73	−04 45 14.0	19.2	704

1997 GD_{37}		1997 04 03.41519	13 14 19.06	−04 44 14.9		704
1997 GE_{37}		1997 04 03.30041	13 14 19.59	−04 46 53.5	19.5	704
1997 GE_{37}		1997 04 03.41519	13 14 14.22	−04 46 02.5		704
1997 GN_{40}		1997 04 08.35363	14 53 39.42	−12 55 01.6		704
1997 GN_{40}		1997 04 08.35379	14 53 39.42	−12 55 01.3		704
1997 GN_{40}		1997 04 08.42874	14 53 35.94	−12 55 00.7		704
1997 GN_{40}		1997 04 08.42890	14 53 35.95	−12 55 00.5		704
1997 GO_{40}		1997 04 08.35363	14 54 04.33	−13 23 21.6		704
1997 GO_{40}		1997 04 08.35505	14 54 04.31	−13 23 22.4		704
1997 GO_{40}		1997 04 08.42874	14 54 01.30	−13 23 13.8		704
1997 GO_{40}		1997 04 08.43016	14 54 01.15	−13 23 14.2		704
1997 GA_{43}	*	1997 04 02.41393	14 51 42.06	−13 29 23.4	19.6	704
1997 GA_{43}		1997 04 02.41688	14 51 41.91	−13 29 22.6	19.7	704
1997 GA_{43}		1997 04 02.41706	14 51 41.80	−13 29 23.9	20.1	704
1997 GA_{43}		1997 04 02.45559	14 51 40.20	−13 29 24.1		704
1997 GA_{43}		1997 04 02.45854	14 51 39.96	−13 29 24.4		704
1997 GA_{43}		1997 04 02.45872	14 51 39.93	−13 29 26.4		704
1997 GA_{43}		1997 04 08.34894	14 46 56.54	−13 30 41.3		704
1997 GA_{43}		1997 04 08.34910	14 46 56.51	−13 30 42.0		704
1997 GA_{43}		1997 04 08.42418	14 46 52.51	−13 30 42.5		704
1997 GA_{43}		1997 04 08.42434	14 46 52.50	−13 30 42.8		704
1997 GB_{43}	*	1997 04 02.42035	14 56 31.52	−18 23 06.0	19.7	704
1997 GB_{43}		1997 04 02.43059	14 56 31.16	−18 23 10.0	19.7	704
1997 GB_{43}		1997 04 02.46184	14 56 29.98	−18 23 19.0		704
1997 GB_{43}		1997 04 02.46202	14 56 30.01	−18 23 17.8		704
1997 GB_{43}		1997 04 06.31636	14 54 06.16	−18 39 32.5	20.2	704
1997 GB_{43}		1997 04 06.32059	14 54 05.84	−18 39 31.4	20.0	704
1997 GB_{43}		1997 04 06.41082	14 54 01.92	−18 39 54.2		704
1997 GB_{43}		1997 04 06.41506	14 54 01.74	−18 39 53.4		704
1997 GC_{43}	*	1997 04 03.27584	12 49 12.07	−06 16 40.2	18.7	704
1997 GC_{43}		1997 04 03.27788	12 49 11.93	−06 16 39.8	18.2	704
1997 GC_{43}		1997 04 03.36336	12 49 07.11	−06 16 13.0		704
1997 GC_{43}		1997 04 03.39016	12 49 05.48	−06 16 06.4		704
1997 GC_{43}		1997 04 05.22518	12 47 24.80	−06 06 47.6	18.0	704
1997 GC_{43}		1997 04 05.22535	12 47 24.68	−06 06 48.0	18.6	704
1997 GC_{43}		1997 04 05.35074	12 47 17.42	−06 06 07.6		704
1997 GC_{43}		1997 04 05.35091	12 47 17.44	−06 06 08.9		704
1997 GD_{43}	*	1997 04 03.28278	12 55 48.56	−08 29 50.1	19.7	704
1997 GD_{43}		1997 04 03.28294	12 55 48.66	−08 29 50.0	19.1	704
1997 GD_{43}		1997 04 03.39708	12 55 41.98	−08 29 10.6		704
1997 GD_{43}		1997 04 03.39723	12 55 41.99	−08 29 10.2		704
1997 GD_{43}		1997 04 05.22952	12 54 01.97	−08 18 29.5	18.7	704
1997 GD_{43}		1997 04 05.26414	12 53 59.82	−08 18 16.7	19.7	704
1997 GD_{43}		1997 04 05.35508	12 53 54.66	−08 17 44.4		704
1997 GD_{43}		1997 04 05.35838	12 53 54.36	−08 17 43.3		704
1997 GE_{43}	*	1997 04 05.24137	13 01 18.00	−04 28 04.5	18.7	704
1997 GE_{43}		1997 04 05.33557	13 01 13.60	−04 27 35.4		704
1997 GE_{43}		1997 04 07.14873	12 59 52.91	−04 18 39.5	18.1	704
1997 GE_{43}		1997 04 07.14889	12 59 52.89	−04 18 40.1	17.8	704
1997 GE_{43}		1997 04 07.22718	12 59 49.28	−04 18 15.6		704
1997 GE_{43}		1997 04 07.22734	12 59 49.28	−04 18 16.5		704
1997 GF_{43}	*	1997 04 09.14826	11 11 16.68	+08 30 16.0		704
1997 GF_{43}		1997 04 09.14842	11 11 16.63	+08 30 15.3		704
1997 GF_{43}		1997 04 09.19064	11 11 15.31	+08 30 23.1		704
1997 GF_{43}		1997 04 09.19079	11 11 15.33	+08 30 22.4		704
1997 GF_{43}		1997 04 10.21132	11 10 46.87	+08 32 53.4	19.1	704
1997 GF_{43}		1997 04 10.21431	11 10 46.71	+08 32 53.4	19.1	704
1997 GF_{43}		1997 04 10.26816	11 10 45.12	+08 33 02.1		704
1997 GF_{43}		1997 04 10.27114	11 10 45.03	+08 33 03.9		704
1997 GG_{43}	*	1997 04 09.15044	11 14 18.79	+06 30 51.9		704
1997 GG_{43}		1997 04 09.19283	11 14 17.38	+06 30 54.6		704
1997 GG_{43}		1997 04 10.21634	11 13 46.22	+06 32 01.8	19.6	704
1997 GG_{43}		1997 04 10.27321	11 13 44.45	+06 32 04.7		704
1997 GH_{43}	*	1997 04 09.15044	11 14 29.21	+06 31 49.5		704
1997 GH_{43}		1997 04 09.20689	11 14 27.15	+06 31 54.8		704
1997 GH_{43}		1997 04 10.21634	11 13 54.25	+06 33 28.8	18.8	704
1997 GH_{43}		1997 04 10.27321	11 13 52.44	+06 33 33.5		704
1997 GJ_{43}	*	1997 04 09.15044	11 15 32.17	+06 04 38.7		704
1997 GJ_{43}		1997 04 09.15060	11 15 32.11	+06 04 39.6		704
1997 GJ_{43}		1997 04 09.20689	11 15 29.65	+06 04 42.1		704
1997 GJ_{43}		1997 04 09.20705	11 15 29.83	+06 04 43.4		704
1997 GJ_{43}		1997 04 10.21634	11 14 47.19	+06 05 18.6	19.3	704
1997 GJ_{43}		1997 04 10.21649	11 14 47.27	+06 05 18.0	18.7	704
1997 GJ_{43}		1997 04 10.27321	11 14 44.82	+06 05 19.5		704
1997 GJ_{43}		1997 04 10.27336	11 14 44.78	+06 05 19.6		704
1997 GK_{43}	*	1997 04 02.41237	14 49 17.69	−12 31 20.2	19.3	704
1997 GK_{43}		1997 04 02.41358	14 49 17.60	−12 31 19.7	18.5	704
1997 GK_{43}		1997 04 02.45403	14 49 16.71	−12 30 54.2		704
1997 GK_{43}		1997 04 02.45525	14 49 16.65	−12 30 54.3		704
1997 GK_{43}		1997 04 06.31371	14 47 43.19	−11 50 47.7	18.6	704
1997 GK_{43}		1997 04 06.40814	14 47 40.48	−11 49 46.8		704
1997 GL_{43}	*	1997 04 02.41288	14 49 17.68	−10 51 44.3	19.5	704
1997 GL_{43}		1997 04 02.41306	14 49 17.76	−10 51 43.6	19.6	704
1997 GL_{43}		1997 04 02.45455	14 49 16.27	−10 51 37.4		704
1997 GL_{43}		1997 04 02.45473	14 49 16.29	−10 51 37.0		704
1997 GL_{43}		1997 04 06.31402	14 46 54.43	−10 40 33.3	19.8	704
1997 GL_{43}		1997 04 06.40846	14 46 50.61	−10 40 17.2		704
1997 GM_{43}	*	1997 04 02.41410	14 49 40.53	−14 42 51.1	20.1	704
1997 GM_{43}		1997 04 02.41427	14 49 40.46	−14 42 50.4	19.5	704
1997 GM_{43}		1997 04 02.44535	14 49 39.24	−14 42 55.7		704
1997 GM_{43}		1997 04 02.45595	14 49 38.81	−14 42 57.2		704
1997 GM_{43}		1997 04 06.31292	14 46 50.32	−14 53 08.2	19.5	704
1997 GM_{43}		1997 04 06.40736	14 46 45.81	−14 53 21.0		704
1997 GO_{43}	*	1997 04 02.41757	14 52 08.56	−11 06 52.7	19.8	704
1997 GO_{43}		1997 04 02.41775	14 52 08.52	−11 06 54.4	20.2	704
1997 GO_{43}		1997 04 02.45924	14 52 07.28	−11 06 36.7		704
1997 GO_{43}		1997 04 02.45941	14 52 07.24	−11 06 37.1		704
1997 GO_{43}		1997 04 06.31417	14 50 05.75	−10 41 44.1	19.6	704
1997 GO_{43}		1997 04 06.40861	14 50 02.27	−10 41 05.8		704
1997 GP_{43}	*	1997 04 03.28044	12 54 01.91	−06 01 22.4	19.9	704
1997 GP_{43}		1997 04 03.28215	12 54 01.87	−06 01 22.4	20.1	704
1997 GP_{43}		1997 04 03.39473	12 53 56.47	−06 00 51.7		704
1997 GP_{43}		1997 04 03.39645	12 53 56.31	−06 00 50.1		704
1997 GP_{43}		1997 04 07.15927	12 51 03.67	−05 44 06.8	19.4	704

1997 GP_{43}		1997 04 07.21888	12 51 00.84	−05 43 50.3		704
1997 GQ_{43}	*	1997 04 03.28294	12 55 29.82	−09 02 18.3	20.2	704
1997 GQ_{43}		1997 04 03.36839	12 55 24.82	−09 01 47.8		704
1997 GQ_{43}		1997 04 07.14232	12 51 49.83	−08 38 43.6	18.9	704
1997 GQ_{43}		1997 04 07.22076	12 51 45.24	−08 38 15.1		704
1997 GR_{43}	*	1997 04 03.28357	12 57 13.95	−10 32 56.5	19.4	704
1997 GR_{43}		1997 04 03.39786	12 57 08.20	−10 32 37.7		704
1997 GR_{43}		1997 04 07.14185	12 54 02.24	−10 22 08.8	19.1	704
1997 GR_{43}		1997 04 07.16490	12 54 01.00	−10 22 05.3	18.9	704
1997 GR_{43}		1997 04 07.22029	12 53 58.22	−10 21 55.6		704
1997 GR_{43}		1997 04 07.22451	12 53 57.93	−10 21 54.6		704
1997 GS_{43}	*	1997 04 03.28672	12 59 17.26	−06 41 58.6	20.0	704
1997 GS_{43}		1997 04 03.28688	12 59 17.30	−06 41 59.3	19.2	704
1997 GS_{43}		1997 04 03.40108	12 59 10.89	−06 41 27.4		704
1997 GS_{43}		1997 04 03.40124	12 59 10.94	−06 41 29.6		704
1997 GS_{43}		1997 04 05.23491	12 57 32.77	−06 33 27.7	18.9	704
1997 GS_{43}		1997 04 05.36047	12 57 25.77	−06 32 53.6		704
1997 GT_{43}	*	1997 04 03.29178	13 04 12.29	−04 59 02.8	19.5	704
1997 GT_{43}		1997 04 03.40627	13 04 05.36	−04 58 19.8		704
1997 GT_{43}		1997 04 07.14889	13 00 26.44	−04 35 53.4	19.8	704
1997 GT_{43}		1997 04 07.22734	13 00 21.78	−04 35 23.8		704
1997 GU_{43}	*	1997 04 03.29256	13 04 24.78	−08 12 32.7	20.1	704
1997 GU_{43}		1997 04 03.40708	13 04 19.23	−08 11 58.6		704
1997 GU_{43}		1997 04 07.15219	13 01 22.85	−07 53 35.8	19.8	704
1997 GU_{43}		1997 04 07.17162	13 01 21.96	−07 53 30.7	20.3	704
1997 GU_{43}		1997 04 07.23063	13 01 19.04	−07 53 12.0		704
1997 GU_{43}		1997 04 07.23079	13 01 19.11	−07 53 12.6		704
1997 GV_{43}	*	1997 04 03.29508	13 06 42.49	−04 01 16.6	19.8	704
1997 GV_{43}		1997 04 03.40968	13 06 35.09	−04 00 42.3		704
1997 GV_{43}		1997 04 07.15329	13 02 41.34	−03 42 11.1	19.5	704
1997 GV_{43}		1997 04 07.15344	13 02 41.37	−03 42 12.1	19.7	704
1997 GV_{43}		1997 04 07.23172	13 02 36.26	−03 41 49.8		704
1997 GV_{43}		1997 04 07.23188	13 02 36.30	−03 41 50.0		704
1997 GW_{43}	*	1997 04 03.29633	13 08 42.57	−05 32 04.1	18.8	704
1997 GW_{43}		1997 04 03.41097	13 08 35.65	−05 31 15.6		704
1997 GW_{43}		1997 04 07.15439	13 04 54.52	−05 05 09.1	18.8	704
1997 GW_{43}		1997 04 07.23282	13 04 49.63	−05 04 35.4		704
1997 GX_{43}	*	1997 04 03.29712	13 10 52.91	−08 54 18.4	19.3	704
1997 GX_{43}		1997 04 03.29822	13 10 52.96	−08 54 17.5	19.1	704
1997 GX_{43}		1997 04 03.41178	13 10 46.76	−08 53 54.7		704
1997 GX_{43}		1997 04 03.41292	13 10 46.72	−08 53 52.7		704
1997 GX_{43}		1997 04 11.17395	13 03 55.79	−08 25 44.6	19.1	704
1997 GX_{43}		1997 04 11.23090	13 03 52.74	−08 25 33.1		704
1997 GY_{43}	*	1997 04 03.29901	13 12 53.29	−05 31 26.5	19.1	704
1997 GY_{43}		1997 04 03.29916	13 12 53.21	−05 31 23.5	19.6	704
1997 GY_{43}		1997 04 03.41373	13 12 48.16	−05 30 54.4		704
1997 GY_{43}		1997 04 03.41389	13 12 48.15	−05 30 55.5		704
1997 GY_{43}		1997 04 11.17631	13 07 10.15	−04 54 37.7	18.6	704
1997 GY_{43}		1997 04 11.17647	13 07 10.15	−04 54 38.1	19.1	704
1997 GY_{43}		1997 04 11.23309	13 07 07.60	−04 54 21.7		704
1997 GY_{43}		1997 04 11.23325	13 07 07.59	−04 54 21.4		704
1997 GZ_{43}	*	1997 04 03.29947	13 12 19.29	−03 41 24.2	19.3	704
1997 GZ_{43}		1997 04 03.29963	13 12 19.35	−03 41 25.2	19.6	704
1997 GZ_{43}		1997 04 03.41421	13 12 12.12	−03 40 59.4		704
1997 GZ_{43}		1997 04 03.41438	13 12 12.07	−03 40 59.4		704
1997 GZ_{43}		1997 04 11.17267	13 04 16.34	−03 13 49.3	18.9	704
1997 GZ_{43}		1997 04 11.22964	13 04 12.71	−03 13 38.7		704
1997 GA_{44}	*	1997 04 03.29947	13 12 59.09	−03 42 26.0	19.2	704
1997 GA_{44}		1997 04 03.29963	13 12 59.09	−03 42 27.7	20.0	704
1997 GA_{44}		1997 04 03.41421	13 12 52.45	−03 41 45.3		704
1997 GA_{44}		1997 04 03.41438	13 12 52.43	−03 41 45.5		704
1997 GA_{44}		1997 04 11.17251	13 05 36.14	−02 56 47.6	19.1	704
1997 GA_{44}		1997 04 11.22948	13 05 32.93	−02 56 29.0		704
1997 GB_{44}	*	1997 04 03.30010	13 15 01.02	−03 43 09.0	18.9	704
1997 GB_{44}		1997 04 03.30026	13 15 00.97	−03 43 08.8	18.2	704
1997 GB_{44}		1997 04 03.41486	13 14 54.43	−03 42 26.9		704
1997 GB_{44}		1997 04 03.41502	13 14 54.39	−03 42 26.3		704
1997 GB_{44}		1997 04 11.17695	13 07 37.16	−02 54 39.6	18.4	704
1997 GB_{44}		1997 04 11.23372	13 07 33.80	−02 54 18.8		704
1997 GC_{44}	*	1997 04 03.32295	13 06 42.82	−07 02 05.5	20.0	704
1997 GC_{44}		1997 04 03.40887	13 06 37.39	−07 01 36.3		704
1997 GC_{44}		1997 04 07.15251	13 02 42.35	−06 41 20.1	19.8	704
1997 GC_{44}		1997 04 07.17194	13 02 41.07	−06 41 13.0	20.2	704
1997 GC_{44}		1997 04 07.23094	13 02 37.36	−06 40 55.4		704
1997 GC_{44}		1997 04 07.23110	13 02 37.37	−06 40 55.6		704
1997 GD_{44}	*	1997 04 03.32389	13 08 28.33	−03 26 02.9	19.9	704
1997 GD_{44}		1997 04 03.32436	13 08 28.38	−03 26 02.4	20.5	704
1997 GD_{44}		1997 04 03.40984	13 08 23.30	−03 25 26.1		704
1997 GD_{44}		1997 04 03.41033	13 08 23.30	−03 25 24.8		704
1997 GD_{44}		1997 04 07.15376	13 04 49.06	−02 59 12.0	19.1	704
1997 GD_{44}		1997 04 07.23219	13 04 44.46	−02 58 39.9		704
1997 GE_{44}	*	1997 04 06.31856	14 54 58.94	−11 06 06.3	19.3	704
1997 GE_{44}		1997 04 06.31872	14 54 58.86	−11 06 07.0	18.7	704
1997 GE_{44}		1997 04 06.41303	14 54 55.88	−11 05 41.3		704
1997 GE_{44}		1997 04 06.41318	14 54 55.88	−11 05 41.1		704
1997 GE_{44}		1997 04 08.35427	14 53 56.35	−10 56 39.8		704
1997 GE_{44}		1997 04 08.42938	14 53 53.67	−10 56 18.9		704
1997 GF_{44}	*	1997 04 06.32499	15 01 05.99	−18 49 38.4	19.5	704
1997 GF_{44}		1997 04 06.34959	15 01 05.34	−18 49 25.7	20.3	704
1997 GF_{44}		1997 04 06.41958	15 01 03.30	−18 48 49.6		704
1997 GF_{44}		1997 04 06.42069	15 01 03.22	−18 48 49.2		704
1997 GF_{44}		1997 04 08.39339	15 00 06.53	−18 32 08.8		704
1997 GF_{44}		1997 04 08.43597	15 00 05.10	−18 31 47.1		704
1997 GG_{44}	*	1997 04 06.32892	15 06 02.81	−13 21 53.3	20.1	704
1997 GG_{44}		1997 04 06.33189	15 06 02.78	−13 21 51.8	19.5	704
1997 GG_{44}		1997 04 06.42351	15 06 00.39	−13 21 14.3		704
1997 GG_{44}		1997 04 06.42648	15 06 00.26	−13 21 11.7		704
1997 GG_{44}		1997 04 11.35098	15 03 42.00	−12 44 52.8	19.9	704
1997 GG_{44}		1997 04 11.35225	15 03 42.05	−12 44 51.9	19.5	704
1997 GG_{44}		1997 04 11.40907	15 03 40.04	−12 44 25.7		704
1997 GG_{44}		1997 04 11.41018	15 03 39.99	−12 44 25.1		704
1997 GH_{44}	*	1997 04 06.33064	15 08 27.23	−17 41 40.2	19.1	704
1997 GH_{44}		1997 04 06.33079	15 08 27.16	−17 41 40.8	19.4	704
1997 GH_{44}		1997 04 06.33439	15 08 27.02	−17 41 40.1	19.0	704

1997 GH_{44}	1997 04 06.33454	15 08 27.05	−17 41 40.1	18.7		704
1997 GH_{44}	1997 04 06.42522	15 08 24.21	−17 41 40.7			704
1997 GH_{44}	1997 04 06.42538	15 08 24.26	−17 41 42.2			704
1997 GH_{44}	1997 04 06.42898	15 08 24.07	−17 41 39.2			704
1997 GH_{44}	1997 04 06.42914	15 08 24.11	−17 41 39.2			704
1997 GH_{44}	1997 04 11.35351	15 05 40.80	−17 40 19.8	19.4		704
1997 GH_{44}	1997 04 11.41146	15 05 38.36	−17 40 17.4			704
1997 GJ_{44}	* 1997 04 14.33126	16 53 45.17	−11 56 37.7	19.9		704
1997 GJ_{44}	1997 04 14.33144	16 53 45.16	−11 56 37.7	19.5		704
1997 GJ_{44}	1997 04 14.37293	16 53 45.78	−11 56 12.7			704
1997 GJ_{44}	1997 04 14.37310	16 53 45.78	−11 56 12.0			704
1997 GJ_{44}	1997 04 16.35611	16 54 14.63	−11 35 43.0	19.7		704
1997 GJ_{44}	1997 04 16.43944	16 54 15.49	−11 34 50.3			704
1997 HQ_{1}	1997 03 31.32933	12 49 48.92	−04 53 48.9	18.2		704
1997 HQ_{1}	1997 03 31.32957	12 49 48.97	−04 53 49.2	17.5		704
1997 HQ_{1}	1997 03 31.41650	12 49 43.40	−04 53 28.5			704
1997 HQ_{1}	1997 03 31.41674	12 49 43.45	−04 53 28.5			704
1997 HQ_{1}	1997 04 03.27632	12 46 48.20	−04 42 44.2	18.2		704
1997 HQ_{1}	1997 04 03.36179	12 46 42.71	−04 42 24.0			704
1997 HF_{7}	1997 04 02.41931	14 54 19.81	−15 49 21.1	19.6		704
1997 HF_{7}	1997 04 02.46098	14 54 18.05	−15 49 14.4			704
1997 HF_{7}	1997 04 06.31542	14 51 37.46	−15 38 37.4	19.7		704
1997 HF_{7}	1997 04 06.31714	14 51 37.39	−15 38 37.3	19.6		704
1997 HF_{7}	1997 04 06.38619	14 51 34.11	−15 38 25.7			704
1997 HF_{7}	1997 04 06.41161	14 51 32.98	−15 38 20.3			704
1997 HR_{7}	1997 05 05.32577	14 27 23.80	−18 39 37.4	19.6		704
1997 HR_{7}	1997 05 05.33098	14 27 23.59	−18 39 37.0	19.5		704
1997 HR_{7}	1997 05 05.34313	14 27 22.89	−18 39 34.5	19.3		704
1997 HR_{7}	1997 05 05.34834	14 27 22.64	−18 39 31.6	19.8		704
1997 HR_{7}	1997 05 05.36049	14 27 21.99	−18 39 30.9	19.9		704
1997 HR_{7}	1997 05 05.37785	14 27 20.88	−18 39 27.3	19.3		704
1997 HR_{7}	1997 05 05.38306	14 27 20.59	−18 39 26.1	19.9		704
1997 HR_{7}	1997 05 05.39521	14 27 19.76	−18 39 23.5	19.8		704
1997 HR_{7}	1997 05 05.40042	14 27 19.68	−18 39 21.3	19.5		704
1997 HW_{7}	1997 04 02.41567	14 52 48.88	−18 00 43.1	19.9		704
1997 HW_{7}	1997 04 02.45733	14 52 47.52	−18 00 35.5			704
1997 HW_{7}	1997 04 08.34770	14 49 18.01	−17 43 52.2			704
1997 HW_{7}	1997 04 08.35191	14 49 17.79	−17 43 50.8			704
1997 HW_{7}	1997 04 08.42308	14 49 14.94	−17 43 37.9			704
1997 HW_{7}	1997 04 08.42701	14 49 14.74	−17 43 35.9			704
1997 HP_{8}	1997 04 30.20800	14 32 18.51	−11 48 49.8	19.9		704
1997 HP_{8}	1997 04 30.23030	14 32 17.26	−11 48 44.6	20.2		704
1997 HP_{8}	1997 04 30.25270	14 32 16.10	−11 48 37.6	19.8		704
1997 HP_{8}	1997 04 30.27517	14 32 14.92	−11 48 29.2	19.5		704
1997 HP_{8}	1997 04 30.29781	14 32 13.53	−11 48 25.1	20.1		704
1997 HV_{8}	1997 04 02.41653	14 52 35.22	−15 06 20.2	19.6		704
1997 HV_{8}	1997 04 02.45820	14 52 33.94	−15 06 15.7			704
1997 HV_{8}	1997 04 06.31527	14 50 33.21	−14 58 18.3	19.4		704
1997 HV_{8}	1997 04 06.40971	14 50 29.87	−14 58 05.7			704
1997 HV_{8}	1997 04 07.29302	14 49 59.80	−14 56 06.3	19.2		704
1997 HV_{8}	1997 04 07.39828	14 49 55.91	−14 55 51.7			704
1997 HV_{8}	1997 04 08.34863	14 49 22.39	−14 53 39.1			704
1997 HV_{8}	1997 04 08.35112	14 49 22.30	−14 53 38.8			704
1997 HV_{8}	1997 04 08.42387	14 49 19.57	−14 53 29.1			704
1997 HV_{8}	1997 04 08.42622	14 49 19.45	−14 53 27.7			704
1997 HX_{8}	1997 05 05.32963	14 29 46.88	−14 15 50.1	19.6		704
1997 HX_{8}	1997 05 05.33252	14 29 46.77	−14 15 49.7	19.4		704
1997 HX_{8}	1997 05 05.34699	14 29 46.10	−14 15 47.3	19.9		704
1997 HX_{8}	1997 05 05.34989	14 29 45.92	−14 15 46.0	20.1		704
1997 HX_{8}	1997 05 05.36435	14 29 45.31	−14 15 42.3	20.0		704
1997 HX_{8}	1997 05 05.36724	14 29 45.16	−14 15 42.0	19.6		704
1997 HX_{8}	1997 05 05.38171	14 29 44.41	−14 15 39.0	19.7		704
1997 HX_{8}	1997 05 05.38461	14 29 44.38	−14 15 37.5	19.8		704
1997 HX_{8}	1997 05 05.39907	14 29 43.63	−14 15 35.4	19.7		704
1997 HY_{8}	1997 05 05.32943	14 29 47.37	−13 55 05.9	19.4		704
1997 HY_{8}	1997 05 05.33271	14 29 47.19	−13 55 05.6	19.2		704
1997 HY_{8}	1997 05 05.34680	14 29 46.55	−13 55 03.3	20.1		704
1997 HY_{8}	1997 05 05.35008	14 29 46.37	−13 55 02.1	19.3		704
1997 HY_{8}	1997 05 05.36415	14 29 45.71	−13 54 59.9	20.1		704
1997 HY_{8}	1997 05 05.36744	14 29 45.51	−13 54 59.8	19.7		704
1997 HY_{8}	1997 05 05.38152	14 29 44.83	−13 54 57.0	20.1		704
1997 HY_{8}	1997 05 05.39888	14 29 43.86	−13 54 54.5	20.5		704
1997 HY_{8}	1997 05 05.40216	14 29 43.87	−13 54 54.3	19.8		704
1997 HA_{9}	1997 05 05.33040	14 29 46.66	−16 43 45.3	19.1		704
1997 HA_{9}	1997 05 05.33175	14 29 46.57	−16 43 44.8	19.2		704
1997 HA_{9}	1997 05 05.34776	14 29 45.75	−16 43 43.3	19.6		704
1997 HA_{9}	1997 05 05.34911	14 29 45.63	−16 43 43.1	19.6		704
1997 HA_{9}	1997 05 05.36512	14 29 44.68	−16 43 42.6	19.8		704
1997 HA_{9}	1997 05 05.36647	14 29 44.69	−16 43 41.8	19.5		704
1997 HA_{9}	1997 05 05.38248	14 29 43.69	−16 43 41.1	20.4		704
1997 HA_{9}	1997 05 05.38383	14 29 43.68	−16 43 40.9	19.9		704
1997 HA_{9}	1997 05 05.39984	14 29 42.80	−16 43 39.3	19.6		704
1997 HR_{9}	1997 04 06.32154	14 56 58.60	−15 46 01.6	19.4		704
1997 HR_{9}	1997 04 06.41600	14 56 54.84	−15 45 48.0			704
1997 HR_{9}	1997 05 05.33252	14 31 39.28	−14 04 43.2	19.4		704
1997 HR_{9}	1997 05 05.33271	14 31 39.33	−14 04 44.5	19.5		704
1997 HR_{9}	1997 05 05.34989	14 31 38.26	−14 04 38.7	19.5		704
1997 HR_{9}	1997 05 05.35008	14 31 38.26	−14 04 38.9	20.0		704
1997 HR_{9}	1997 05 05.36724	14 31 37.19	−14 04 34.8	19.3		704
1997 HR_{9}	1997 05 05.36744	14 31 37.16	−14 04 35.2	19.9		704
1997 HR_{9}	1997 05 05.38461	14 31 36.15	−14 04 30.8	19.5		704
1997 HR_{9}	1997 05 05.40196	14 31 35.12	−14 04 27.0	19.5		704
1997 HR_{9}	1997 05 05.40216	14 31 35.03	−14 04 26.6	19.8		704
1997 HY_{9}	1997 04 06.31903	14 56 21.73	−12 46 47.7	19.5		704
1997 HY_{9}	1997 04 06.34582	14 56 20.64	−12 46 46.6	18.9		704
1997 HY_{9}	1997 04 06.41350	14 56 17.70	−12 46 41.0			704
1997 HY_{9}	1997 04 06.41678	14 56 17.59	−12 46 41.2			704
1997 HG_{10}	1997 05 05.33464	14 32 23.63	−13 26 16.0	19.9		704
1997 HG_{10}	1997 05 05.33483	14 32 23.59	−13 26 16.1	19.0		704
1997 HG_{10}	1997 05 05.35200	14 32 22.55	−13 26 13.5	20.1		704
1997 HG_{10}	1997 05 05.35219	14 32 22.49	−13 26 13.1	20.1		704
1997 HG_{10}	1997 05 05.36936	14 32 21.32	−13 26 09.7	20.4		704
1997 HG_{10}	1997 05 05.36956	14 32 21.42	−13 26 09.6	20.5		704
1997 HG_{10}	1997 05 05.38692	14 32 20.26	−13 26 08.2	20.2		704

1997 HG_{10}	1997 05 05.40409	14 32 19.08	−13 26 02.3	20.1	704
1997 HR_{10}	1997 04 06.32012	14 56 30.19	−16 45 10.9	20.5	704
1997 HR_{10}	1997 04 06.32123	14 56 30.06	−16 45 09.1	20.3	704
1997 HR_{10}	1997 04 06.39087	14 56 27.90	−16 44 58.2		704
1997 HR_{10}	1997 04 06.41569	14 56 26.91	−16 44 53.9		704
1997 HK_{11}	1997 05 01.22112	14 39 48.63	−18 36 20.4	19.4	704
1997 HK_{11}	1997 05 01.22223	14 39 48.58	−18 36 20.6	18.6	704
1997 HK_{11}	1997 05 01.24356	14 39 47.39	−18 36 08.3	20.3	704
1997 HK_{11}	1997 05 01.24469	14 39 47.27	−18 36 08.2	19.5	704
1997 HK_{11}	1997 05 01.26597	14 39 46.07	−18 35 56.2	20.0	704
1997 HK_{11}	1997 05 01.26710	14 39 45.88	−18 35 53.9	19.4	704
1997 HK_{11}	1997 05 01.28845	14 39 44.71	−18 35 42.1	20.3	704
1997 HK_{11}	1997 05 01.28959	14 39 44.61	−18 35 40.9	18.8	704
1997 HK_{11}	1997 05 01.31100	14 39 43.29	−18 35 28.8	19.6	704
1997 HK_{11}	1997 05 01.31212	14 39 43.31	−18 35 28.3	18.8	704
1997 HP_{11}	1997 04 08.36162	14 57 35.28	−18 55 04.7		704
1997 HP_{11}	1997 04 08.43628	14 57 32.40	−18 54 54.6		704
1997 HP_{11}	1997 05 01.22239	14 40 19.52	−17 47 16.0	18.6	704
1997 HP_{11}	1997 05 01.22255	14 40 19.53	−17 47 15.9	19.1	704
1997 HP_{11}	1997 05 01.24484	14 40 18.36	−17 47 11.1	18.8	704
1997 HP_{11}	1997 05 01.24501	14 40 18.30	−17 47 11.3	19.6	704
1997 HP_{11}	1997 05 01.26725	14 40 17.19	−17 47 06.4	18.9	704
1997 HP_{11}	1997 05 01.26741	14 40 17.21	−17 47 06.7	19.3	704
1997 HP_{11}	1997 05 01.28975	14 40 16.01	−17 47 01.8	18.5	704
1997 HP_{11}	1997 05 01.28991	14 40 16.06	−17 47 01.3	19.1	704
1997 HP_{11}	1997 05 01.31229	14 40 14.85	−17 46 55.9	18.7	704
1997 HP_{11}	1997 05 01.31245	14 40 14.89	−17 46 56.7	19.2	704
1997 HT_{11}	1997 04 06.32123	14 58 43.30	−16 29 31.5	19.1	704
1997 HT_{11}	1997 04 06.32138	14 58 43.24	−16 29 32.0	19.5	704
1997 HT_{11}	1997 04 06.32437	14 58 43.15	−16 29 32.5	19.7	704
1997 HT_{11}	1997 04 06.41569	14 58 40.46	−16 29 40.1		704
1997 HT_{11}	1997 04 06.41585	14 58 40.48	−16 29 40.7		704
1997 HT_{11}	1997 04 06.41896	14 58 40.38	−16 29 40.2		704
1997 HT_{11}	1997 04 08.35709	14 57 45.44	−16 32 09.4	18.5	704
1997 HT_{11}	1997 04 08.43219	14 57 42.99	−16 32 14.8		704
1997 HY_{11}	1997 05 01.22048	14 39 47.75	−16 04 44.5	19.8	704
1997 HY_{11}	1997 05 01.22287	14 39 47.69	−16 04 43.1	19.0	704
1997 HY_{11}	1997 05 01.24291	14 39 46.43	−16 04 41.2	19.9	704
1997 HY_{11}	1997 05 01.24533	14 39 46.14	−16 04 40.3	19.9	704
1997 HY_{11}	1997 05 01.26532	14 39 44.90	−16 04 35.9	19.9	704
1997 HY_{11}	1997 05 01.26774	14 39 44.72	−16 04 35.6	19.7	704
1997 HY_{11}	1997 05 01.28781	14 39 43.42	−16 04 33.3	19.6	704
1997 HY_{11}	1997 05 01.29024	14 39 43.29	−16 04 32.9	19.8	704
1997 HY_{11}	1997 05 01.31277	14 39 41.75	−16 04 27.9	19.5	704
1997 HZ_{11}	1997 04 06.32107	14 57 58.65	−17 13 39.7	20.1	704
1997 HZ_{11}	1997 04 06.41553	14 57 55.81	−17 13 28.6		704
1997 HZ_{11}	1997 04 08.35693	14 56 59.90	−17 09 19.1		704
1997 HZ_{11}	1997 04 08.38477	14 56 58.88	−17 09 14.3		704
1997 HZ_{11}	1997 04 08.41789	14 56 57.70	−17 09 09.5		704
1997 HZ_{11}	1997 04 08.43203	14 56 57.23	−17 09 09.4		704
1997 HP_{12}	1997 04 06.32437	14 59 38.55	−16 29 08.4	19.9	704
1997 HP_{12}	1997 04 06.32452	14 59 38.53	−16 29 08.6	19.7	704
1997 HP_{12}	1997 04 06.41896	14 59 36.11	−16 28 42.1		704
1997 HP_{12}	1997 04 06.41912	14 59 36.12	−16 28 41.3		704
1997 HP_{12}	1997 04 07.30344	14 59 15.67	−16 24 21.9	19.8	704
1997 HP_{12}	1997 04 07.38211	14 59 13.52	−16 23 57.1		704
1997 HP_{12}	1997 04 08.35725	14 58 48.63	−16 19 03.0		704
1997 HP_{12}	1997 04 08.39276	14 58 47.54	−16 18 52.1		704
1997 HP_{12}	1997 04 08.43235	14 58 46.43	−16 18 40.9		704
1997 HP_{12}	1997 04 08.43534	14 58 46.20	−16 18 39.2		704
1997 HS_{12}	1997 04 06.32483	15 01 12.86	−17 50 31.1	19.8	704
1997 HS_{12}	1997 04 06.32625	15 01 12.82	−17 50 32.9	19.6	704
1997 HS_{12}	1997 04 06.41943	15 01 09.93	−17 50 18.0		704
1997 HS_{12}	1997 04 06.42085	15 01 09.84	−17 50 18.3		704
1997 HY_{13}	1997 05 05.33252	14 32 18.30	−14 05 35.3	19.9	704
1997 HY_{13}	1997 05 05.33503	14 32 18.13	−14 05 33.7	19.7	704
1997 HY_{13}	1997 05 05.34989	14 32 17.38	−14 05 28.4	19.9	704
1997 HY_{13}	1997 05 05.35239	14 32 17.33	−14 05 29.4	20.4	704
1997 HY_{13}	1997 05 05.36724	14 32 16.66	−14 05 23.0	20.2	704
1997 HY_{13}	1997 05 05.36975	14 32 16.54	−14 05 22.0	20.5	704
1997 HY_{13}	1997 05 05.38711	14 32 15.70	−14 05 17.2	20.1	704
1997 HY_{13}	1997 05 05.40196	14 32 14.85	−14 05 11.5	20.0	704
1997 HY_{13}	1997 05 05.40447	14 32 14.82	−14 05 09.7	20.2	704
1997 HH_{17}	* 1997 04 30.20419	14 28 58.57	−11 32 03.8	19.7	704
1997 HH_{17}	1997 04 30.22646	14 28 57.36	−11 31 59.7	20.4	704
1997 HH_{17}	1997 04 30.24887	14 28 56.24	−11 31 56.4	20.4	704
1997 HH_{17}	1997 04 30.27134	14 28 55.16	−11 31 51.6	19.8	704
1997 HH_{17}	1997 05 01.21029	14 28 08.97	−11 28 45.2	19.6	704
1997 HH_{17}	1997 05 01.23264	14 28 07.72	−11 28 40.3	20.5	704
1997 HH_{17}	1997 05 01.25511	14 28 06.66	−11 28 35.5	20.1	704
1997 HH_{17}	1997 05 01.27755	14 28 05.45	−11 28 30.9	20.0	704
1997 HH_{17}	1997 05 01.30006	14 28 04.33	−11 28 26.6	19.7	704
1997 HJ_{17}	* 1997 04 30.20419	14 29 01.35	−11 33 45.9	19.6	704
1997 HJ_{17}	1997 04 30.22646	14 29 00.14	−11 33 43.1	19.9	704
1997 HJ_{17}	1997 04 30.24887	14 28 58.83	−11 33 38.7	19.9	704
1997 HJ_{17}	1997 04 30.27134	14 28 57.61	−11 33 33.9	19.9	704
1997 HJ_{17}	1997 05 01.21029	14 28 04.69	−11 30 24.3	19.5	704
1997 HJ_{17}	1997 05 01.23264	14 28 03.36	−11 30 19.3	19.8	704
1997 HJ_{17}	1997 05 01.25511	14 28 02.11	−11 30 14.5	19.9	704
1997 HJ_{17}	1997 05 01.27755	14 28 00.73	−11 30 10.0	19.9	704
1997 HJ_{17}	1997 05 01.30006	14 27 59.45	−11 30 06.2	19.5	704
1997 HK_{17}	* 1997 04 30.20593	14 28 59.81	−18 20 13.0	19.7	704
1997 HK_{17}	1997 04 30.22821	14 28 58.50	−18 20 08.1	19.6	704
1997 HK_{17}	1997 04 30.25061	14 28 57.27	−18 20 01.7	20.0	704
1997 HK_{17}	1997 04 30.27310	14 28 56.01	−18 19 55.9	19.8	704
1997 HK_{17}	1997 05 01.21203	14 28 05.88	−18 15 18.3	19.6	704
1997 HK_{17}	1997 05 01.23439	14 28 04.59	−18 15 12.9	19.8	704
1997 HK_{17}	1997 05 01.25686	14 28 03.34	−18 15 05.2	19.6	704
1997 HK_{17}	1997 05 01.27931	14 28 01.99	−18 14 58.4	19.7	704
1997 HK_{17}	1997 05 01.30183	14 28 00.82	−18 14 51.5	19.3	704
1997 HL_{17}	* 1997 04 30.20593	14 29 03.64	−18 19 02.7	19.0	704
1997 HL_{17}	1997 04 30.22821	14 29 02.32	−18 18 56.3	19.6	704
1997 HL_{17}	1997 04 30.25061	14 29 00.96	−18 18 51.4	19.2	704
1997 HL_{17}	1997 04 30.27310	14 28 59.67	−18 18 44.7	19.2	704

1997 HL_{17}		1997 04 30.29571	14 28 58.33	−18 18 39.8	19.5	704
1997 HL_{17}		1997 05 01.21203	14 28 06.55	−18 14 28.3	18.3	704
1997 HL_{17}		1997 05 01.23439	14 28 05.17	−18 14 22.5	18.9	704
1997 HL_{17}		1997 05 01.25686	14 28 03.88	−18 14 16.1	18.8	704
1997 HL_{17}		1997 05 01.27931	14 28 02.53	−18 14 10.0	19.1	704
1997 HL_{17}		1997 05 01.30183	14 28 01.21	−18 14 03.8	18.3	704
1997 HM_{17}	*	1997 04 30.20625	14 31 27.03	−19 01 21.8	19.8	704
1997 HM_{17}		1997 04 30.22853	14 31 25.60	−19 01 13.5	20.1	704
1997 HM_{17}		1997 04 30.25093	14 31 24.18	−19 01 07.6	19.9	704
1997 HM_{17}		1997 04 30.27342	14 31 22.74	−19 01 00.7	19.8	704
1997 HM_{17}		1997 04 30.29602	14 31 21.09	−19 00 55.6	19.9	704
1997 HM_{17}		1997 05 01.21235	14 30 21.61	−18 56 21.5	19.6	704
1997 HM_{17}		1997 05 01.23471	14 30 20.07	−18 56 15.3	19.8	704
1997 HM_{17}		1997 05 01.25717	14 30 18.60	−18 56 08.5	19.5	704
1997 HM_{17}		1997 05 01.27962	14 30 17.01	−18 56 01.4	19.5	704
1997 HM_{17}		1997 05 01.30215	14 30 15.56	−18 55 54.9	19.6	704
1997 HN_{17}	*	1997 04 30.20625	14 31 34.62	−19 01 00.9	19.0	704
1997 HN_{17}		1997 04 30.22853	14 31 33.30	−19 00 55.9	19.2	704
1997 HN_{17}		1997 04 30.25093	14 31 31.87	−19 00 49.9	19.0	704
1997 HN_{17}		1997 04 30.27342	14 31 30.49	−19 00 45.4	19.3	704
1997 HN_{17}		1997 04 30.29602	14 31 29.12	−19 00 40.7	19.6	704
1997 HN_{17}		1997 05 01.21235	14 30 33.95	−18 56 58.9	19.6	704
1997 HN_{17}		1997 05 01.23471	14 30 32.61	−18 56 53.4	19.6	704
1997 HN_{17}		1997 05 01.25717	14 30 31.20	−18 56 48.2	19.3	704
1997 HN_{17}		1997 05 01.30215	14 30 28.38	−18 56 37.3	19.0	704
1997 HO_{17}	*	1997 04 30.20166	14 27 26.76	−19 18 53.1	19.3	704
1997 HO_{17}		1997 04 30.21577	14 27 25.92	−19 18 50.0	19.2	704
1997 HO_{17}		1997 04 30.22389	14 27 25.48	−19 18 47.9	19.5	704
1997 HO_{17}		1997 04 30.23804	14 27 24.73	−19 18 41.1	19.4	704
1997 HO_{17}		1997 04 30.24618	14 27 24.28	−19 18 40.1	19.5	704
1997 HO_{17}		1997 04 30.26058	14 27 23.45	−19 18 35.1	19.0	704
1997 HO_{17}		1997 04 30.26875	14 27 22.95	−19 18 33.2	19.6	704
1997 HO_{17}		1997 04 30.28301	14 27 22.28	−19 18 28.8	19.1	704
1997 HO_{17}		1997 04 30.30556	14 27 20.88	−19 18 21.7	19.4	704
1997 HO_{17}		1997 05 01.20774	14 26 32.49	−19 13 51.1	19.2	704
1997 HO_{17}		1997 05 01.23008	14 26 31.23	−19 13 44.4	19.4	704
1997 HO_{17}		1997 05 01.25254	14 26 30.01	−19 13 37.6	19.2	704
1997 HO_{17}		1997 05 01.27496	14 26 28.76	−19 13 31.3	19.5	704
1997 HO_{17}		1997 05 01.29748	14 26 27.51	−19 13 24.4	18.9	704
1997 HP_{17}	*	1997 04 30.20182	14 27 22.52	−18 36 17.7	19.3	704
1997 HP_{17}		1997 04 30.20609	14 27 22.27	−18 36 16.6	18.9	704
1997 HP_{17}		1997 04 30.22405	14 27 21.51	−18 36 10.9	19.5	704
1997 HP_{17}		1997 04 30.22837	14 27 21.35	−18 36 08.8	19.4	704
1997 HP_{17}		1997 04 30.24634	14 27 20.55	−18 36 01.5	19.8	704
1997 HP_{17}		1997 04 30.25077	14 27 20.26	−18 36 00.1	19.4	704
1997 HP_{17}		1997 04 30.26891	14 27 19.48	−18 35 53.7	19.4	704
1997 HP_{17}		1997 04 30.27327	14 27 19.33	−18 35 52.5	19.3	704
1997 HP_{17}		1997 04 30.29154	14 27 18.21	−18 35 45.6	20.2	704
1997 HP_{17}		1997 04 30.29586	14 27 18.25	−18 35 44.0	19.3	704
1997 HP_{17}		1997 05 01.20790	14 26 38.52	−18 30 14.3	19.0	704
1997 HP_{17}		1997 05 01.23024	14 26 37.51	−18 30 06.8	19.3	704
1997 HP_{17}		1997 05 01.25270	14 26 36.66	−18 29 59.1	19.8	704
1997 HP_{17}		1997 05 01.27512	14 26 35.51	−18 29 50.0	19.1	704
1997 HP_{17}		1997 05 01.29764	14 26 34.42	−18 29 42.6	19.3	704
1997 HQ_{17}	*	1997 04 30.20277	14 27 23.42	−15 15 52.6	19.2	704
1997 HQ_{17}		1997 04 30.20513	14 27 23.40	−15 15 52.7	19.2	704
1997 HQ_{17}		1997 04 30.22502	14 27 22.42	−15 15 49.9	19.8	704
1997 HQ_{17}		1997 04 30.22742	14 27 22.17	−15 15 49.8	20.0	704
1997 HQ_{17}		1997 04 30.24744	14 27 21.29	−15 15 46.7	19.6	704
1997 HQ_{17}		1997 04 30.24981	14 27 21.07	−15 15 45.0	19.1	704
1997 HQ_{17}		1997 04 30.26989	14 27 20.19	−15 15 42.3	20.2	704
1997 HQ_{17}		1997 04 30.27229	14 27 20.04	−15 15 42.2	19.3	704
1997 HQ_{17}		1997 05 01.20887	14 26 34.78	−15 13 14.5	18.9	704
1997 HQ_{17}		1997 05 01.23121	14 26 33.60	−15 13 12.2	19.2	704
1997 HQ_{17}		1997 05 01.25367	14 26 32.48	−15 13 08.5	19.4	704
1997 HQ_{17}		1997 05 01.27609	14 26 31.52	−15 13 05.1	19.7	704
1997 HQ_{17}		1997 05 01.29861	14 26 30.32	−15 13 01.4	19.2	704
1997 HR_{17}	*	1997 04 30.20308	14 26 25.73	−13 53 54.0	19.5	704
1997 HR_{17}		1997 04 30.22534	14 26 24.48	−13 53 49.7	19.6	704
1997 HR_{17}		1997 04 30.24776	14 26 23.06	−13 53 43.5	20.2	704
1997 HR_{17}		1997 04 30.27021	14 26 21.86	−13 53 39.3	19.5	704
1997 HR_{17}		1997 04 30.29284	14 26 20.31	−13 53 35.8	20.1	704
1997 HR_{17}		1997 05 01.20919	14 25 29.02	−13 50 23.5	19.2	704
1997 HR_{17}		1997 05 01.23153	14 25 27.72	−13 50 18.8	20.0	704
1997 HR_{17}		1997 05 01.25399	14 25 26.39	−13 50 15.4	19.4	704
1997 HR_{17}		1997 05 01.27642	14 25 25.14	−13 50 10.5	19.3	704
1997 HR_{17}		1997 05 01.29893	14 25 23.76	−13 50 05.6	19.4	704
1997 HS_{17}	*	1997 04 30.20308	14 26 34.87	−13 53 13.3	19.1	704
1997 HS_{17}		1997 04 30.22534	14 26 33.86	−13 53 09.1	19.7	704
1997 HS_{17}		1997 04 30.24776	14 26 32.73	−13 53 05.0	19.4	704
1997 HS_{17}		1997 04 30.27021	14 26 31.66	−13 53 00.6	19.5	704
1997 HS_{17}		1997 04 30.29284	14 26 30.60	−13 52 57.0	19.7	704
1997 HS_{17}		1997 05 01.20919	14 25 48.17	−13 50 02.7	19.0	704
1997 HS_{17}		1997 05 01.23153	14 25 47.14	−13 49 58.4	19.7	704
1997 HS_{17}		1997 05 01.25399	14 25 46.04	−13 49 54.8	19.6	704
1997 HS_{17}		1997 05 01.27642	14 25 44.96	−13 49 51.0	19.3	704
1997 HS_{17}		1997 05 01.29893	14 25 43.89	−13 49 46.5	19.2	704
1997 HT_{17}	*	1997 04 30.20466	14 27 25.19	−13 08 53.1	19.3	704
1997 HT_{17}		1997 04 30.22550	14 27 23.98	−13 08 39.8	19.8	704
1997 HT_{17}		1997 04 30.22693	14 27 24.04	−13 08 39.3	19.6	704
1997 HT_{17}		1997 04 30.24792	14 27 22.92	−13 08 27.0	19.6	704
1997 HT_{17}		1997 04 30.24934	14 27 22.81	−13 08 26.7	19.6	704
1997 HT_{17}		1997 04 30.27037	14 27 21.75	−13 08 14.5	19.4	704
1997 HT_{17}		1997 04 30.27182	14 27 21.65	−13 08 13.7	19.5	704
1997 HT_{17}		1997 04 30.29300	14 27 20.48	−13 08 00.4	20.0	704
1997 HT_{17}		1997 05 01.20934	14 26 34.08	−12 59 05.6	19.2	704
1997 HT_{17}		1997 05 01.23169	14 26 32.93	−12 58 52.1	19.0	704
1997 HT_{17}		1997 05 01.25415	14 26 31.72	−12 58 40.3	19.5	704
1997 HT_{17}		1997 05 01.27658	14 26 30.61	−12 58 26.4	19.5	704
1997 HT_{17}		1997 05 01.29909	14 26 29.36	−12 58 14.0	19.4	704
1997 HU_{17}	*	1997 04 30.20529	14 27 42.49	−15 26 56.4	19.4	704
1997 HU_{17}		1997 04 30.22758	14 27 41.25	−15 26 49.6	20.2	704
1997 HU_{17}		1997 04 30.24997	14 27 39.81	−15 26 41.7	19.8	704
1997 HU_{17}		1997 04 30.27245	14 27 38.61	−15 26 36.0	19.2	704

1997 HU_{17}		1997 05 01.20871	14 26 46.81	−15 21 58.0	19.6	704
1997 HU_{17}		1997 05 01.23105	14 26 45.51	−15 21 52.5	19.9	704
1997 HU_{17}		1997 05 01.25351	14 26 44.14	−15 21 45.1	20.0	704
1997 HU_{17}		1997 05 01.29844	14 26 41.34	−15 21 31.7	19.9	704
1997 HV_{17}	*	1997 04 30.20705	14 30 51.74	−15 26 36.7	19.1	704
1997 HV_{17}		1997 04 30.25174	14 30 49.06	−15 26 24.7	19.5	704
1997 HV_{17}		1997 04 30.27423	14 30 47.62	−15 26 19.1	19.3	704
1997 HV_{17}		1997 04 30.29683	14 30 46.17	−15 26 12.7	19.8	704
1997 HV_{17}		1997 05 01.21140	14 29 53.66	−15 22 13.1	19.8	704
1997 HV_{17}		1997 05 01.21315	14 29 53.45	−15 22 12.5	19.2	704
1997 HV_{17}		1997 05 01.23376	14 29 52.31	−15 22 08.9	20.4	704
1997 HV_{17}		1997 05 01.23552	14 29 52.14	−15 22 07.1	19.9	704
1997 HV_{17}		1997 05 01.25622	14 29 50.94	−15 22 02.1	20.0	704
1997 HV_{17}		1997 05 01.25799	14 29 50.86	−15 22 02.4	19.6	704
1997 HV_{17}		1997 05 01.27866	14 29 49.61	−15 21 57.8	20.0	704
1997 HV_{17}		1997 05 01.28043	14 29 49.41	−15 21 55.3	19.2	704
1997 HV_{17}		1997 05 01.30118	14 29 48.03	−15 21 50.3	20.2	704
1997 HV_{17}		1997 05 01.30295	14 29 47.98	−15 21 50.2	19.5	704
1997 HW_{17}	*	1997 04 30.20736	14 30 11.04	−14 19 11.0	19.6	704
1997 HW_{17}		1997 04 30.22967	14 30 09.93	−14 19 02.1	19.9	704
1997 HW_{17}		1997 04 30.27454	14 30 07.31	−14 18 47.8	19.8	704
1997 HW_{17}		1997 04 30.29715	14 30 06.00	−14 18 40.7	20.0	704
1997 HW_{17}		1997 05 01.21108	14 29 17.41	−14 13 51.4	19.7	704
1997 HW_{17}		1997 05 01.23344	14 29 16.10	−14 13 43.8	20.3	704
1997 HW_{17}		1997 05 01.25590	14 29 14.83	−14 13 36.5	20.0	704
1997 HW_{17}		1997 05 01.27834	14 29 13.62	−14 13 29.0	20.0	704
1997 HW_{17}		1997 05 01.30086	14 29 12.31	−14 13 22.5	20.0	704
1997 HX_{17}	*	1997 04 30.20847	14 33 03.93	−10 41 19.2	19.7	704
1997 HX_{17}		1997 04 30.23078	14 33 03.02	−10 41 14.1	20.1	704
1997 HX_{17}		1997 04 30.25318	14 33 01.91	−10 41 06.0	19.7	704
1997 HX_{17}		1997 04 30.27565	14 33 00.89	−10 40 58.0	19.9	704
1997 HX_{17}		1997 04 30.29829	14 32 59.81	−10 40 53.1	19.8	704
1997 HX_{17}		1997 05 01.21443	14 32 18.12	−10 36 07.8	19.7	704
1997 HX_{17}		1997 05 01.21458	14 32 18.09	−10 36 07.9	19.4	704
1997 HX_{17}		1997 05 01.23697	14 32 17.07	−10 36 01.9	20.2	704
1997 HX_{17}		1997 05 01.25928	14 32 16.00	−10 35 55.6	20.1	704
1997 HX_{17}		1997 05 01.25943	14 32 15.93	−10 35 54.7	19.8	704
1997 HX_{17}		1997 05 01.28172	14 32 14.97	−10 35 48.3	20.5	704
1997 HX_{17}		1997 05 01.28188	14 32 14.87	−10 35 46.7	19.7	704
1997 HX_{17}		1997 05 01.30425	14 32 13.88	−10 35 40.3	20.0	704
1997 HX_{17}		1997 05 01.30440	14 32 13.92	−10 35 41.2	19.6	704
1997 HY_{17}	*	1997 04 30.21166	14 35 35.91	−14 43 26.5	19.3	704
1997 HY_{17}		1997 04 30.23396	14 35 34.82	−14 43 22.5	20.0	704
1997 HY_{17}		1997 04 30.25641	14 35 33.68	−14 43 21.7	19.7	704
1997 HY_{17}		1997 04 30.27883	14 35 32.50	−14 43 19.2	19.3	704
1997 HY_{17}		1997 04 30.30144	14 35 31.37	−14 43 15.7	20.1	704
1997 HY_{17}		1997 05 01.21777	14 34 46.73	−14 41 25.4	19.3	704
1997 HY_{17}		1997 05 01.21793	14 34 46.71	−14 41 24.0	19.9	704
1997 HY_{17}		1997 05 01.24019	14 34 45.62	−14 41 22.8	20.0	704
1997 HY_{17}		1997 05 01.24035	14 34 45.62	−14 41 23.1	20.1	704
1997 HY_{17}		1997 05 01.26261	14 34 44.41	−14 41 20.4	19.6	704
1997 HY_{17}		1997 05 01.26277	14 34 44.36	−14 41 20.7	20.1	704
1997 HY_{17}		1997 05 01.28508	14 34 43.32	−14 41 17.7	19.8	704
1997 HY_{17}		1997 05 01.30762	14 34 42.07	−14 41 15.2	19.7	704
1997 HY_{17}		1997 05 01.30778	14 34 42.03	−14 41 15.5	20.2	704
1997 HZ_{17}	*	1997 04 30.21403	14 39 45.56	−14 48 42.6	19.4	704
1997 HZ_{17}		1997 04 30.21705	14 39 45.31	−14 48 41.8	19.0	704
1997 HZ_{17}		1997 04 30.23631	14 39 44.24	−14 48 35.3	19.7	704
1997 HZ_{17}		1997 04 30.23933	14 39 44.08	−14 48 33.6	19.0	704
1997 HZ_{17}		1997 04 30.25883	14 39 43.00	−14 48 28.2	19.9	704
1997 HZ_{17}		1997 04 30.26188	14 39 42.76	−14 48 26.7	19.0	704
1997 HZ_{17}		1997 04 30.28123	14 39 41.71	−14 48 20.2	19.7	704
1997 HZ_{17}		1997 04 30.28430	14 39 41.49	−14 48 19.6	19.7	704
1997 HZ_{17}		1997 04 30.30380	14 39 40.37	−14 48 12.9	19.7	704
1997 HZ_{17}		1997 04 30.30686	14 39 40.19	−14 48 11.1	19.8	704
1997 HZ_{17}		1997 05 01.22016	14 38 50.92	−14 43 05.3	19.3	704
1997 HZ_{17}		1997 05 01.24259	14 38 49.66	−14 42 58.8	19.5	704
1997 HZ_{17}		1997 05 01.26501	14 38 48.36	−14 42 51.0	19.7	704
1997 HZ_{17}		1997 05 01.28748	14 38 47.06	−14 42 43.8	19.5	704
1997 HZ_{17}		1997 05 01.31004	14 38 45.82	−14 42 35.9	19.3	704
1997 HA_{18}	*	1997 04 30.21483	14 38 07.81	−17 47 08.9	19.6	704
1997 HA_{18}		1997 04 30.23694	14 38 06.33	−17 47 04.0	19.9	704
1997 HA_{18}		1997 04 30.23710	14 38 06.30	−17 47 03.5	20.2	704
1997 HA_{18}		1997 04 30.25945	14 38 04.87	−17 46 59.4	19.7	704
1997 HA_{18}		1997 04 30.25961	14 38 04.97	−17 46 59.2	19.7	704
1997 HA_{18}		1997 04 30.28188	14 38 03.42	−17 46 55.3	19.7	704
1997 HA_{18}		1997 04 30.28204	14 38 03.56	−17 46 56.5	19.2	704
1997 HA_{18}		1997 04 30.30445	14 38 02.05	−17 46 52.3	20.1	704
1997 HA_{18}		1997 04 30.30461	14 38 02.17	−17 46 51.6	19.5	704
1997 HA_{18}		1997 05 01.21712	14 37 07.82	−17 44 06.0	19.6	704
1997 HA_{18}		1997 05 01.23953	14 37 06.48	−17 44 03.9	20.1	704
1997 HA_{18}		1997 05 01.28445	14 37 03.72	−17 43 54.1	20.2	704
1997 HA_{18}		1997 05 01.30697	14 37 02.20	−17 43 52.0	19.7	704
1997 HB_{18}	*	1997 04 30.21546	14 33 10.93	−19 19 11.9	18.1	704
1997 HB_{18}		1997 04 30.23773	14 33 09.66	−19 19 02.2	18.2	704
1997 HB_{18}		1997 04 30.26026	14 33 08.34	−19 18 52.1	18.3	704
1997 HB_{18}		1997 04 30.28269	14 33 07.06	−19 18 41.7	18.7	704
1997 HB_{18}		1997 04 30.30525	14 33 05.54	−19 18 31.9	19.7	704
1997 HB_{18}		1997 05 01.22159	14 32 16.08	−19 11 39.0	17.8	704
1997 HB_{18}		1997 05 01.22175	14 32 16.05	−19 11 38.2	18.5	704
1997 HB_{18}		1997 05 01.24404	14 32 14.81	−19 11 28.7	18.2	704
1997 HB_{18}		1997 05 01.24420	14 32 14.83	−19 11 28.8	17.7	704
1997 HB_{18}		1997 05 01.26645	14 32 13.54	−19 11 18.4	18.2	704
1997 HB_{18}		1997 05 01.26660	14 32 13.56	−19 11 18.5	17.7	704
1997 HB_{18}		1997 05 01.28894	14 32 12.23	−19 11 08.0	17.8	704
1997 HB_{18}		1997 05 01.28910	14 32 12.23	−19 11 08.4	17.5	704
1997 HB_{18}		1997 05 01.31149	14 32 10.92	−19 10 57.9	17.8	704
1997 HB_{18}		1997 05 01.31164	14 32 10.95	−19 10 58.7	17.4	704
1997 HC_{18}	*	1997 04 30.21546	14 34 38.52	−19 02 23.4	19.0	704
1997 HC_{18}		1997 04 30.23773	14 34 37.13	−19 02 18.0	19.3	704
1997 HC_{18}		1997 04 30.26026	14 34 35.70	−19 02 11.8	19.1	704
1997 HC_{18}		1997 04 30.28269	14 34 34.25	−19 02 06.9	19.2	704
1997 HC_{18}		1997 04 30.30525	14 34 32.90	−19 02 00.4	19.6	704
1997 HC_{18}		1997 05 01.21664	14 33 38.11	−18 58 09.6	19.1	704

1997 HC_{18}		1997 05 01.23905	14 33 36.67	−18 58 02.7	19.6	704
1997 HC_{18}		1997 05 01.26148	14 33 35.24	−18 57 57.3	19.9	704
1997 HC_{18}		1997 05 01.28398	14 33 33.91	−18 57 52.9	19.2	704
1997 HC_{18}		1997 05 01.30649	14 33 32.46	−18 57 47.2	19.6	704
1997 HD_{18}	*	1997 04 30.21911	14 44 43.37	−13 48 19.3	19.3	704
1997 HD_{18}		1997 04 30.22181	14 44 43.29	−13 48 17.5	19.0	704
1997 HD_{18}		1997 04 30.24139	14 44 42.29	−13 48 10.3	19.3	704
1997 HD_{18}		1997 04 30.24410	14 44 42.08	−13 48 09.7	19.0	704
1997 HD_{18}		1997 04 30.26398	14 44 41.05	−13 48 02.7	19.3	704
1997 HD_{18}		1997 04 30.26668	14 44 40.88	−13 48 01.5	19.0	704
1997 HD_{18}		1997 04 30.28638	14 44 39.83	−13 47 54.6	19.2	704
1997 HD_{18}		1997 04 30.28912	14 44 39.60	−13 47 53.3	19.7	704
1997 HD_{18}		1997 05 01.24774	14 43 48.79	−13 42 09.9	18.1	704
1997 HD_{18}		1997 05 01.27015	14 43 47.55	−13 42 02.9	18.2	704
1997 HD_{18}		1997 05 01.29264	14 43 46.32	−13 41 53.6	18.0	704
1997 HD_{18}		1997 05 01.31537	14 43 45.04	−13 41 45.8	17.8	704
1997 HE_{18}	*	1997 04 30.21927	14 44 46.58	−14 09 47.1	19.1	704
1997 HE_{18}		1997 04 30.22164	14 44 46.43	−14 09 46.0	19.0	704
1997 HE_{18}		1997 04 30.24155	14 44 45.29	−14 09 40.7	19.0	704
1997 HE_{18}		1997 04 30.24394	14 44 45.12	−14 09 39.6	19.1	704
1997 HE_{18}		1997 04 30.26414	14 44 43.91	−14 09 33.8	19.0	704
1997 HE_{18}		1997 04 30.26653	14 44 43.73	−14 09 32.5	18.7	704
1997 HE_{18}		1997 04 30.28654	14 44 42.61	−14 09 27.3	19.7	704
1997 HE_{18}		1997 04 30.28896	14 44 42.35	−14 09 27.7	19.5	704
1997 HE_{18}		1997 04 30.30909	14 44 41.18	−14 09 21.4	19.1	704
1997 HE_{18}		1997 04 30.31149	14 44 41.04	−14 09 20.6	19.4	704
1997 HE_{18}		1997 05 05.34024	14 39 44.88	−13 45 14.7	19.5	704
1997 HE_{18}		1997 05 05.35760	14 39 43.85	−13 45 08.9	19.7	704
1997 HE_{18}		1997 05 05.37496	14 39 42.69	−13 45 05.0	19.6	704
1997 HE_{18}		1997 05 05.39232	14 39 41.66	−13 45 00.3	19.6	704
1997 HE_{18}		1997 05 05.40968	14 39 40.58	−13 44 54.6	19.7	704
1997 HF_{18}	*	1997 04 30.22021	14 43 15.90	−18 24 12.6	19.3	704
1997 HF_{18}		1997 04 30.22037	14 43 15.92	−18 24 12.5	19.3	704
1997 HF_{18}		1997 04 30.24250	14 43 14.30	−18 24 16.8	19.3	704
1997 HF_{18}		1997 04 30.24266	14 43 14.41	−18 24 15.3	19.0	704
1997 HF_{18}		1997 04 30.26509	14 43 12.87	−18 24 18.7	19.5	704
1997 HF_{18}		1997 04 30.26525	14 43 12.89	−18 24 18.3	19.0	704
1997 HF_{18}		1997 04 30.28766	14 43 11.30	−18 24 20.4	19.1	704
1997 HF_{18}		1997 04 30.31004	14 43 09.68	−18 24 25.7	19.8	704
1997 HF_{18}		1997 04 30.31020	14 43 09.79	−18 24 24.3	18.9	704
1997 HF_{18}		1997 05 01.22223	14 42 09.45	−18 26 16.8	19.2	704
1997 HF_{18}		1997 05 01.24469	14 42 07.93	−18 26 20.8	19.0	704
1997 HF_{18}		1997 05 01.26710	14 42 06.41	−18 26 23.6	19.2	704
1997 HF_{18}		1997 05 01.28959	14 42 04.89	−18 26 26.2	19.0	704
1997 HF_{18}		1997 05 01.31212	14 42 03.38	−18 26 29.6	18.9	704
1997 JA		1997 04 06.31934	14 55 27.30	−14 06 03.3	19.0	704
1997 JA		1997 04 06.31950	14 55 27.32	−14 06 02.6	18.6	704
1997 JA		1997 04 06.41381	14 55 24.12	−14 05 49.1		704
1997 JA		1997 04 06.41397	14 55 24.06	−14 05 48.4		704
1997 JZ		1997 04 02.42018	14 55 43.11	−18 48 55.5	19.3	704
1997 JZ		1997 04 02.46184	14 55 42.02	−18 48 36.7		704
1997 JZ		1997 04 06.31652	14 54 05.82	−18 17 04.7	19.5	704
1997 JZ		1997 04 06.32043	14 54 05.71	−18 17 02.2	19.5	704
1997 JZ		1997 04 06.32059	14 54 05.68	−18 17 01.7	19.2	704
1997 JZ		1997 04 06.39134	14 54 03.59	−18 16 28.4		704
1997 JZ		1997 04 06.41097	14 54 03.02	−18 16 17.1		704
1997 JZ		1997 04 06.41490	14 54 02.81	−18 16 12.0		704
1997 JZ		1997 04 08.35237	14 53 04.89	−17 59 06.3		704
1997 JZ		1997 04 08.42748	14 53 02.27	−17 58 25.3		704
1997 JA_4		1997 04 30.20878	14 32 22.22	−11 51 58.2	19.1	704
1997 JA_4		1997 04 30.23110	14 32 21.14	−11 51 52.2	20.0	704
1997 JA_4		1997 04 30.25350	14 32 20.04	−11 51 48.9	19.7	704
1997 JA_4		1997 04 30.27597	14 32 18.93	−11 51 44.6	19.7	704
1997 JA_4		1997 04 30.29861	14 32 17.78	−11 51 40.4	20.4	704
1997 JC_4		1997 04 30.20894	14 33 21.78	−12 49 46.2	20.0	704
1997 JC_4		1997 04 30.20911	14 33 21.69	−12 49 44.8	19.2	704
1997 JC_4		1997 04 30.23126	14 33 20.71	−12 49 34.6	19.8	704
1997 JC_4		1997 04 30.23141	14 33 20.79	−12 49 33.7	20.1	704
1997 JC_4		1997 04 30.25366	14 33 19.65	−12 49 21.2	20.1	704
1997 JC_4		1997 04 30.25383	14 33 19.69	−12 49 22.9	19.4	704
1997 JC_4		1997 04 30.27613	14 33 18.73	−12 49 12.3	20.0	704
1997 JC_4		1997 04 30.27629	14 33 18.69	−12 49 11.3	19.7	704
1997 JE_4		1997 04 30.21022	14 34 53.07	−17 10 41.4	19.3	704
1997 JE_4		1997 04 30.21102	14 34 53.06	−17 10 43.1	19.3	704
1997 JE_4		1997 04 30.25496	14 34 50.37	−17 10 27.1	19.7	704
1997 JE_4		1997 04 30.25576	14 34 50.33	−17 10 26.7	18.8	704
1997 JE_4		1997 04 30.27739	14 34 48.95	−17 10 20.0	19.6	704
1997 JE_4		1997 04 30.27818	14 34 48.93	−17 10 20.3	19.3	704
1997 JE_4		1997 04 30.30002	14 34 47.64	−17 10 12.9	19.4	704
1997 JE_4		1997 04 30.30080	14 34 47.52	−17 10 11.8	19.3	704
1997 JK_4		1997 04 30.21450	14 38 43.24	−16 59 58.5	19.3	704
1997 JK_4		1997 04 30.23678	14 38 42.03	−16 59 54.4	20.1	704
1997 JK_4		1997 04 30.25929	14 38 40.64	−16 59 49.9	19.8	704
1997 JK_4		1997 04 30.28171	14 38 39.24	−16 59 44.8	19.6	704
1997 JL_4		1997 04 08.36162	14 57 29.86	−19 25 25.7		704
1997 JL_4		1997 04 08.43628	14 57 26.98	−19 25 13.4		704
1997 JL_4		1997 04 30.21483	14 39 46.06	−18 01 17.9		704
1997 JL_4		1997 04 30.21626	14 39 45.98	−18 01 17.4		704
1997 JL_4		1997 04 30.23710	14 39 44.79	−18 01 11.3		704
1997 JL_4		1997 04 30.23853	14 39 44.68	−18 01 11.0	18.1	704
1997 JL_4		1997 04 30.25961	14 39 43.47	−18 01 05.0		704
1997 JL_4		1997 04 30.26107	14 39 43.34	−18 01 04.3		704
1997 JL_4		1997 04 30.28204	14 39 42.16	−18 00 58.3		704
1997 JL_4		1997 04 30.28350	14 39 42.07	−18 00 57.9		704
1997 JL_4		1997 04 30.30461	14 39 40.85	−18 00 52.0		704
1997 JL_4		1997 04 30.30605	14 39 40.73	−18 00 50.9		704
1997 JK_{11}		1997 04 06.33095	15 08 17.70	−16 56 49.5	19.6	704
1997 JK_{11}		1997 04 06.33423	15 08 17.61	−16 56 47.6	19.9	704
1997 JK_{11}		1997 04 06.42554	15 08 15.79	−16 56 18.5		704
1997 JK_{11}		1997 04 06.42883	15 08 15.67	−16 56 16.8		704
1997 JM_{11}		1997 04 06.33157	15 07 51.91	−14 25 40.4	19.1	704
1997 JM_{11}		1997 04 06.42617	15 07 49.26	−14 25 28.2		704
1997 JM_{11}		1997 04 11.35272	15 05 29.98	−14 14 58.0	19.3	704
1997 JM_{11}		1997 04 11.41066	15 05 28.02	−14 14 50.3		704

1997 JT_{11}	1997 04 06.33392	15 10 21.05	−15 55 01.7	20.2	704	1997 MG_3	1997 07 02.20632	18 49 02.61	−24 03 15.1		704
1997 JT_{11}	1997 04 06.33407	15 10 20.98	−15 55 02.6	19.8	704	1997 MG_3	1997 07 02.21116	18 49 02.33	−24 03 16.9	19.3	704
1997 JT_{11}	1997 04 06.42851	15 10 18.45	−15 54 49.1		704	1997 MG_3	1997 07 02.21612	18 49 02.06	−24 03 17.0		704
1997 JT_{11}	1997 04 06.42867	15 10 18.41	−15 54 48.4		704	1997 MG_3	1997 07 02.29103	18 48 57.83	−24 03 27.5		704
1997 JR_{16}	1997 04 02.41983	14 55 41.93	−17 30 20.2	20.5	704	1997 MG_3	1997 07 02.29116	18 48 57.81	−24 03 27.7		704
1997 JR_{16}	1997 04 02.45108	14 55 40.64	−17 30 18.4		704	1997 MG_3	1997 07 02.31432	18 48 56.43	−24 03 32.1		704
1997 JR_{16}	1997 04 30.21134	14 34 48.48	−16 14 24.3	19.7	704	1997 MG_3	1997 07 02.31445	18 48 56.42	−24 03 32.1		704
1997 JR_{16}	1997 04 30.23220	14 34 47.60	−16 14 19.7	19.5	704	1997 MG_3	1997 07 02.33762	18 48 55.11	−24 03 35.1		704
1997 JR_{16}	1997 04 30.23365	14 34 47.47	−16 14 19.5	20.1	704	1997 MG_3	1997 07 02.33775	18 48 55.09	−24 03 35.1		704
1997 JR_{16}	1997 04 30.25464	14 34 46.40	−16 14 14.9	19.9	704	1997 MG_3	1997 07 02.36091	18 48 53.80	−24 03 38.3		704
1997 JR_{16}	1997 04 30.25608	14 34 46.33	−16 14 14.7	19.6	704	1997 MG_3	1997 07 02.36104	18 48 53.78	−24 03 38.1		704
1997 JR_{16}	1997 04 30.27707	14 34 45.23	−16 14 11.6	19.5	704	2100 P-L	1997 04 05.22709	12 49 39.11	−04 54 55.6	18.9	704
1997 JR_{16}	1997 04 30.27851	14 34 45.10	−16 14 09.7	19.3	704	2100 P-L	1997 04 05.25823	12 49 37.56	−04 54 34.8	18.9	704
1997 JR_{16}	1997 04 30.29971	14 34 43.96	−16 14 07.5	19.5	704	2100 P-L	1997 04 05.35248	12 49 33.43	−04 53 34.6		704
1997 JR_{16}	1997 04 30.30112	14 34 43.94	−16 14 05.5	19.5	704	2100 P-L	1997 04 05.35265	12 49 33.49	−04 53 33.6		704
1997 JR_{18}	* 1997 05 01.21857	14 34 49.71	−12 02 11.7	20.2	704	4073 P-L	1997 03 31.32523	12 47 51.17	−10 19 09.4	18.3	704
1997 JR_{18}	1997 05 01.24099	14 34 48.63	−12 02 07.1	20.2	704	4073 P-L	1997 03 31.41240	12 47 45.63	−10 18 36.8		704
1997 JR_{18}	1997 05 01.26341	14 34 47.47	−12 02 02.1	20.3	704	4661 P-L	1997 04 02.17074	11 04 23.06	+09 42 23.8	18.7	704
1997 JR_{18}	1997 05 01.28588	14 34 46.19	−12 01 57.3	20.2	704	4661 P-L	1997 04 02.17091	11 04 23.08	+09 42 23.3	18.5	704
1997 JR_{18}	1997 05 01.30843	14 34 45.11	−12 01 52.4	19.8	704	4661 P-L	1997 04 02.29845	11 04 18.35	+09 42 42.3		704
1997 JR_{18}	1997 05 05.35065	14 31 24.43	−11 47 26.9	20.2	704	4661 P-L	1997 04 02.29863	11 04 18.35	+09 42 41.8		704
1997 JR_{18}	1997 05 05.36802	14 31 23.53	−11 47 24.7	19.9	704	4780 P-L	1997 04 08.35379	14 54 02.73	−12 31 10.2		704
1997 JR_{18}	1997 05 05.38538	14 31 22.64	−11 47 21.6	20.3	704	4780 P-L	1997 04 08.35489	14 54 02.70	−12 31 08.7		704
1997 JR_{18}	1997 05 05.40274	14 31 21.64	−11 47 16.8	20.4	704	4780 P-L	1997 04 08.42890	14 54 00.07	−12 30 49.3		704
1997 MS_2	1997 07 02.26728	18 50 16.29	−22 12 55.8	18.2	704	4780 P-L	1997 04 08.43000	14 54 00.08	−12 30 48.5		704
1997 MS_2	1997 07 02.26741	18 50 16.27	−22 12 55.8		704	4896 P-L	1997 05 05.33869	14 36 21.02	−11 35 22.6	19.3	704
1997 MS_2	1997 07 02.29064	18 50 14.81	−22 13 06.2	18.6	704	4896 P-L	1997 05 05.33888	14 36 20.98	−11 35 21.2	19.9	704
1997 MS_2	1997 07 02.29077	18 50 14.82	−22 13 06.2		704	4896 P-L	1997 05 05.35605	14 36 20.22	−11 35 18.7	19.8	704
1997 MS_2	1997 07 02.31393	18 50 13.35	−22 13 16.4	17.9	704	4896 P-L	1997 05 05.35624	14 36 20.28	−11 35 18.6	20.2	704
1997 MS_2	1997 07 02.31406	18 50 13.36	−22 13 16.4		704	4896 P-L	1997 05 05.37341	14 36 19.37	−11 35 15.4	20.0	704
1997 MS_2	1997 07 02.33724	18 50 11.91	−22 13 26.2	18.3	704	4896 P-L	1997 05 05.37361	14 36 19.38	−11 35 13.9	20.0	704
1997 MS_2	1997 07 02.33736	18 50 11.90	−22 13 26.2		704	4896 P-L	1997 05 05.39078	14 36 18.54	−11 35 11.5	19.7	704
1997 MS_2	1997 07 02.36052	18 50 10.41	−22 13 35.8	18.3	704	4896 P-L	1997 05 05.39097	14 36 18.56	−11 35 11.5	20.4	704
1997 MS_2	1997 07 02.36065	18 50 10.41	−22 13 36.3		704	4896 P-L	1997 05 05.40814	14 36 17.68	−11 35 07.5	19.3	704
1997 MY_2	1997 07 02.26844	18 49 55.48	−27 43 45.7	18.9	704	4896 P-L	1997 05 05.40833	14 36 17.68	−11 35 08.0	20.1	704
1997 MY_2	1997 07 02.26857	18 49 55.42	−27 43 46.0	19.0	704	4271 T-1	1997 05 05.33214	14 32 16.14	−15 47 19.5	18.4	704
1997 MY_2	1997 07 02.29180	18 49 54.12	−27 43 47.8	18.6	704	4271 T-1	1997 05 05.33541	14 32 15.89	−15 47 18.8		704
1997 MY_2	1997 07 02.29193	18 49 54.16	−27 43 47.3	18.9	704	4271 T-1	1997 05 05.34950	14 32 14.96	−15 47 18.2		704
1997 MY_2	1997 07 02.31522	18 49 52.87	−27 43 47.6		704	4271 T-1	1997 05 05.35277	14 32 14.74	−15 47 17.5		704
1997 MY_2	1997 07 02.33840	18 49 51.56	−27 43 49.8	19.2	704	4271 T-1	1997 05 05.36686	14 32 13.80	−15 47 16.7		704
1997 MY_2	1997 07 02.33853	18 49 51.50	−27 43 50.7	18.8	704	4271 T-1	1997 05 05.37014	14 32 13.58	−15 47 16.1		704
1997 MY_2	1997 07 02.36168	18 49 50.14	−27 43 51.2		704	4271 T-1	1997 05 05.38422	14 32 12.63	−15 47 15.7		704
1997 MC_3	1997 07 02.26870	18 48 01.76	−28 56 24.3		704	4271 T-1	1997 05 05.38750	14 32 12.39	−15 47 14.9		704
1997 MC_3	1997 07 02.26883	18 48 01.71	−28 56 24.5		704	4271 T-1	1997 05 05.40158	14 32 11.46	−15 47 14.7		704
1997 MC_3	1997 07 02.31535	18 47 58.69	−28 56 24.4		704	4271 T-1	1997 05 05.40486	14 32 11.28	−15 47 13.1		704
1997 MC_3	1997 07 02.31548	18 47 58.67	−28 56 24.2		704	3395 T-3	1997 04 02.41827	14 54 33.02	−12 16 59.5	18.4	704
1997 MC_3	1997 07 02.33866	18 47 57.20	−28 56 23.8		704	3395 T-3	1997 04 02.41844	14 54 32.97	−12 16 58.1	18.6	704
1997 MC_3	1997 07 02.33879	18 47 57.15	−28 56 23.7		704	3395 T-3	1997 04 02.45993	14 54 31.67	−12 16 44.5		704
1997 MC_3	1997 07 02.36194	18 47 55.70	−28 56 23.8		704	3395 T-3	1997 04 02.46011	14 54 31.71	−12 16 44.2		704
1997 MC_3	1997 07 02.36207	18 47 55.64	−28 56 23.5		704	(76)	1997 04 07.30589	15 03 38.53	−16 31 18.2		704
1997 MG_3	1997 07 02.19665	18 49 03.23	−24 03 12.9	19.7	704	(76)	1997 04 07.30606	15 03 38.59	−16 31 18.4		704
1997 MG_3	1997 07 02.20148	18 49 02.94	−24 03 13.3	19.5	704	(76)	1997 04 07.30953	15 03 38.41	−16 31 16.8		704

(76)	1997 04 07.41080	15 03 35.12	−16 31 01.2	704	(1018)	1997 04 28.30491	10 32 15.52	+10 33 31.7		704
(76)	1997 04 07.41097	15 03 35.11	−16 31 01.9	704	(1110)	1997 04 30.21514	14 39 43.30	−19 32 03.4		704
(76)	1997 04 07.41445	15 03 34.98	−16 30 59.3	704	(1110)	1997 04 30.21594	14 39 43.24	−19 32 02.7		704
(150)	1997 05 01.20919	14 27 22.99	−13 49 10.7	704	(1110)	1997 04 30.23741	14 39 41.97	−19 31 51.7		704
(150)	1997 05 01.21093	14 27 22.92	−13 49 11.6	704	(1110)	1997 04 30.23821	14 39 41.94	−19 31 51.6		704
(150)	1997 05 01.23153	14 27 21.92	−13 49 04.8	704	(1110)	1997 04 30.25994	14 39 40.40	−19 31 43.0		704
(150)	1997 05 01.23328	14 27 21.84	−13 49 05.4	704	(1110)	1997 04 30.26075	14 39 40.33	−19 31 41.6		704
(150)	1997 05 01.25399	14 27 20.77	−13 48 59.2	704	(1110)	1997 04 30.28236	14 39 38.93	−19 31 32.9		704
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(359)	1997 04 05.23456	12 56 26.27	−07 49 21.5	704	(1726)	1997 04 03.41243	13 10 41.52	−10 42 23.1		704
(359)	1997 04 05.35821	12 56 19.60	−07 48 55.4	704	(2057)	1997 04 30.20529	14 27 35.85	−15 26 30.0	18.5	704
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(557)	1997 04 05.23369	12 58 06.05	−10 54 49.9	704	(2057)	1997 04 30.24997	14 27 33.72	−15 26 20.2	18.4	704
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(7639)	1997 04 06.40720	14 47 33.56	−15 17 07.7		704
(7639)	1997 04 06.40736	14 47 33.51	−15 17 07.2		704
(7647)	1997 04 08.35004	14 50 02.72	−11 41 54.2	18.7	704
(7647)	1997 04 08.35020	14 50 02.66	−11 41 53.6	18.3	704
(7647)	1997 04 08.42528	14 49 59.74	−11 41 39.5		704
(7647)	1997 04 08.42544	14 49 59.81	−11 41 40.2		704
(7688)	1997 04 05.23073	12 51 43.14	−03 47 57.1	18.1	704
(7688)	1997 04 05.25805	12 51 41.32	−03 47 52.5	18.3	704
(7688)	1997 04 05.35230	12 51 35.14	−03 47 33.0		704
(7688)	1997 04 05.35630	12 51 34.73	−03 47 31.2		704
(7688)	1997 04 07.13982	12 49 40.58	−03 41 20.3	18.6	704
(7688)	1997 04 07.13997	12 49 40.65	−03 41 23.3	18.4	704
(7688)	1997 04 07.21826	12 49 35.48	−03 41 05.0		704
(7688)	1997 04 07.21841	12 49 35.45	−03 41 05.1		704
(7701)	1997 04 03.28059	12 52 53.99	−05 07 21.3	19.4	704
(7701)	1997 04 03.39489	12 52 48.19	−05 06 50.3		704
(7703)	1997 04 02.17529	11 10 48.77	+10 53 46.3	19.3	704
(7703)	1997 04 02.17987	11 10 48.50	+10 53 49.8	19.0	704
(7703)	1997 04 02.27575	11 10 44.51	+10 54 56.9		704
(7703)	1997 04 02.30307	11 10 43.37	+10 55 15.2		704

710 Florissant

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[71511.515@compuserve.com]

0.25-m $f/6.3$ Schmidt-Cassegrain

GSC

(183)	1997 07 05.22465	18 17 21.38	+04 20 04.3		710
(183)	1997 07 05.25451	18 17 19.76	+04 19 54.6		710
(183)	1997 07 06.28414	18 16 25.18	+04 14 20.6		710

(183)	1997 07 06.30660	18 16 23.91	+04 14 13.0		710
(781)	1997 07 05.14132	15 10 50.39	+06 52 42.0		710
(781)	1997 07 05.18385	15 10 50.20	+06 52 22.0		710
(781)	1997 07 06.13767	15 10 47.83	+06 45 01.9		710
(781)	1997 07 06.18021	15 10 47.69	+06 44 42.3		710
(978)	1997 07 05.22674	19 18 52.67	+10 23 53.8		710
(978)	1997 07 05.25694	19 18 51.22	+10 24 00.3		710
(978)	1997 07 06.28646	19 18 03.47	+10 27 31.3		710
(978)	1997 07 06.30856	19 18 02.41	+10 27 35.7		710
(1101)	1997 07 05.22986	19 05 19.89	+08 56 20.0		710
(1101)	1997 07 05.25984	19 05 18.55	+08 56 20.6		710
(1101)	1997 07 06.28854	19 04 32.92	+08 56 33.8		710
(1101)	1997 07 06.31042	19 04 31.92	+08 56 33.8		710
(1329)	1997 07 05.14549	15 10 05.37	+01 53 05.2		710
(1329)	1997 07 05.18553	15 10 05.43	+01 52 41.6		710
(1329)	1997 07 06.14358	15 10 09.80	+01 43 12.4		710
(1329)	1997 07 06.18507	15 10 09.95	+01 42 47.6		710
(1679)	1997 07 05.14977	16 59 21.70	+04 27 21.6		710
(1679)	1997 07 05.18958	16 59 20.44	+04 27 11.3		710
(1679)	1997 07 06.14358	16 58 52.56	+04 23 07.1		710
(1679)	1997 07 06.18542	16 58 51.28	+04 22 56.2		710
(1796)	1997 07 06.14734	16 29 08.01	+07 15 54.4		710
(1796)	1997 07 06.18785	16 29 07.02	+07 15 46.6		710
(1980)	1997 07 05.16042	18 28 05.55	+29 50 36.7		710
(1980)	1997 07 05.19433	18 28 01.51	+29 52 18.5		710
(1980)	1997 07 06.15035	18 26 12.52	+30 39 14.7		710
(1980)	1997 07 06.18993	18 26 07.70	+30 41 11.0		710
(2189)	1997 07 05.16267	15 41 09.81	−01 40 47.9	V	710
(2189)	1997 07 05.19792	15 41 09.10	−01 41 04.6		710
(2189)	1997 07 06.15313	15 40 51.91	−01 48 52.9		710
(2189)	1997 07 06.19201	15 40 51.14	−01 49 12.2		710
(2363)	1997 07 05.16458	17 33 27.39	+10 13 15.4		710
(2363)	1997 07 05.20174	17 33 26.25	+10 13 15.2		710
(2363)	1997 07 06.15556	17 32 59.25	+10 13 04.0		710
(2363)	1997 07 06.19410	17 32 58.12	+10 13 03.6		710
(3066)	1997 07 05.16667	16 28 14.07	+01 49 28.9		710
(3066)	1997 07 05.20347	16 28 12.93	+01 49 20.4		710
(3066)	1997 07 06.15949	16 27 44.67	+01 45 27.0		710
(3066)	1997 07 06.19595	16 27 43.56	+01 45 18.2		710
(3317)	1997 07 05.16875	17 08 10.99	+06 01 03.4		710
(3317)	1997 07 05.20538	17 08 09.97	+06 00 53.7		710
(3317)	1997 07 06.16354	17 07 44.45	+05 56 32.2		710
(3317)	1997 07 06.19954	17 07 43.51	+05 56 23.4	V	710
(3451)	1997 07 05.17049	16 24 23.01	+06 56 08.6		710
(3451)	1997 07 05.20833	16 24 22.23	+06 56 04.0		710
(3451)	1997 07 06.16597	16 24 04.00	+06 54 00.4		710
(3642)	1997 07 05.17326	14 47 37.04	+01 03 47.7		710
(3642)	1997 07 05.21076	14 47 37.21	+01 03 31.2		710
(3642)	1997 07 06.16794	14 47 45.38	+00 56 27.6		710
(3906)	1997 07 05.17541	16 47 05.01	+12 21 12.7		710
(3906)	1997 07 05.21354	16 47 03.73	+12 20 54.0		710
(3906)	1997 07 06.16979	16 46 32.66	+12 13 10.3		710
(4116)	1997 07 05.23941	19 32 05.71	+22 30 13.1		710
(4190)	1997 07 05.17743	16 11 17.83	−03 04 03.3		710
(4190)	1997 07 05.21563	16 11 17.05	−03 04 06.1		710
(4190)	1997 07 06.17199	16 10 59.70	−03 05 20.6		710
(4674)	1997 07 05.24097	18 51 16.75	+07 27 02.7		710
(4674)	1997 07 05.26354	18 51 14.94	+07 27 11.7		710
(4674)	1997 07 06.29288	18 49 57.85	+07 33 31.1		710
(4674)	1997 07 06.31424	18 49 56.17	+07 33 37.6		710
(4764)	1997 07 05.17934	17 13 30.36	+11 53 45.0		710
(4764)	1997 07 05.21736	17 13 28.33	+11 52 56.2	V	710
(4764)	1997 07 06.17431	17 12 39.29	+11 33 09.9		710
(5182)	1997 07 05.18160	15 57 56.03	+02 26 14.6		710
(5182)	1997 07 05.21956	15 57 55.43	+02 25 51.5		710
(5182)	1997 07 06.17639	15 57 43.74	+02 16 02.6		710
(5222)	1997 07 05.24340	19 03 15.81	+25 41 47.7		710
(5222)	1997 07 05.26528	19 03 14.55	+25 41 52.2		710
(5222)	1997 07 06.29757	19 02 17.57	+25 45 07.0		710
(5222)	1997 07 06.31586	19 02 16.49	+25 45 09.5		710
(6870)	1997 07 05.24560	18 52 50.63	+11 08 20.9		710
(6870)	1997 07 05.26806	18 52 49.06	+11 08 04.0	V	710
(6911)	1997 07 05.24826	21 29 19.14	+26 23 41.9		710
(6911)	1997 07 05.26997	21 29 18.80	+26 23 59.3	V	710
(6982)	1997 07 05.25035	19 22 49.96	+00 29 30.7		710
(6982)	1997 07 05.27187	19 22 48.94	+00 29 33.9		710
(6982)	1997 07 06.30434	19 21 58.38	+00 30 53.5		710
(6982)	1997 07 06.32130	19 21 57.52	+00 30 55.4		710

711 McDonald Observatory

F. Ma, Astronomy Department, University of Texas, Austin, TX 78741, U.S.A.
[feng@astro.as.utexas.edu]

Observers F. Ma, Z. Shang
Measurer Y. Sheffer
0.76-m $f/3.0$ reflector + CCD
GSC

(1235)	1997 07 18.37225	01 48 15.21	−03 52 09.7	18	R	711
(1235)	1997 07 18.44516	01 48 20.77	−03 51 04.5	18	R	711

712 USAF Academy Observatory, Colorado Springs

C. Wetterer, Department of Physics, USAF Academy, CO 80840
[WettererCJ.dfp@usafa.af.mil]

Observers C. Wetterer, T. Hacker, C. Csoboth, G. Anderson, F. Roper
Measurers C. Wetterer, G. Anderson, F. Roper
0.41-m $f/8.0$ reflector + CCD
GSC

(1094)	1997 07 09.30425	22 40 22.32	−05 55 30.9	16.8	V	712
(1094)	1997 07 09.31772	22 40 22.30	−05 55 33.8	17.0	V	712
(1094)	1997 07 09.34586	22 40 22.25	−05 55 40.1	16.7	V	712
(1094)	1997 07 10.29591	22 40 20.36	−05 59 14.5	17.1	V	712
(1094)	1997 07 10.31463	22 40 20.29	−05 59 18.6	17.1	V	712
(1094)	1997 07 10.34216	22 40 20.17	−05 59 25.0	16.9	V	712
(1466)	1997 07 09.27801	22 16 35.87	−03 16 25.1	16.4	V	712
(1466)	1997 07 09.29012	22 16 35.77	−03 16 28.3	16.5	V	712
(1466)	1997 07 09.31595	22 16 35.51	−03 16 35.2	16.6	V	712

(1466)	1997 07 10.28595	22 16 26.85	−03 20 58.9	16.7	V		712
(1466)	1997 07 10.30900	22 16 26.57	−03 21 05.0	16.6	V		712
(1466)	1997 07 10.33627	22 16 26.27	−03 21 12.7	16.6	V		712
(2966)	1997 07 09.39958	23 16 02.01	−08 36 30.1	17.9	V		712
(2966)	1997 07 09.41721	23 16 02.19	−08 36 30.2	18.0	V		712
(2966)	1997 07 09.43699	23 16 02.35	−08 36 30.0	17.7	V		712
(2966)	1997 07 10.33054	23 16 12.38	−08 36 33.7	18.1	V	F	712
(2966)	1997 07 10.35914	23 16 12.72	−08 36 34.1	17.9	V		712
(2966)	1997 07 10.39363	23 16 13.03	−08 36 34.2	17.9	V		712
(3750)	1997 07 09.40229	23 14 45.00	−14 20 00.5	17.5	V		712
(3750)	1997 07 09.42250	23 14 44.95	−14 20 00.6	17.6	V		712
(3750)	1997 07 09.44204	23 14 44.91	−14 20 01.6	17.8	V	S	712
(3750)	1997 07 10.36934	23 14 44.15	−14 20 39.6	17.5	V		712
(3750)	1997 07 10.39810	23 14 44.11	−14 20 40.6	17.6	V		712
(4209)	1997 07 09.31117	22 36 32.99	−14 57 38.2	17.2	V		712
(4209)	1997 07 09.32645	22 36 32.69	−14 57 35.5	17.3	V		712
(4209)	1997 07 09.34840	22 36 32.26	−14 57 31.2	16.9	V		712
(4209)	1997 07 10.32115	22 36 13.49	−14 54 31.2	17.2	V		712
(4209)	1997 07 10.34752	22 36 12.91	−14 54 26.5	16.9	V		712
(4209)	1997 07 10.38777	22 36 12.07	−14 54 19.3	16.7	V		712

735 George Observatory, Needville

W. G. Dillon, Fort Bend Astronomy Club, P.O. Box 942, Stafford, TX 77497-0942, U.S.A. [bdillon@houston.geoquest.slb.com]

Observers D. Borgman, W. G. Dillon, R. Pepper, K. Rivich, F. Smith

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

0.46-m reflector + CCD

GSC

1997 LD_4	1997 06 29.21111	15 42 31.88	−26 47 56.8			I	735
1997 LD_4	1997 06 29.22500	15 42 31.28	−26 48 00.8	20.6	R	F	735
1997 LD_4	1997 06 30.16250	15 41 55.06	−26 56 09.8	20.3	R	I	735
1997 LD_4	1997 06 30.18056	15 41 54.36	−26 56 17.0	20.5	R	F	735
1997 PD_2	* 1997 08 07.16701	20 22 49.03	−15 43 36.4	18.6	R		735
1997 PD_2	1997 08 07.20347	20 22 47.38	−15 43 42.4	18.7	R		735
1997 PD_2	1997 08 07.21910	20 22 46.68	−15 43 44.8	18.6	R		735
1997 PD_2	1997 08 09.17361	20 21 26.71	−15 48 56.9	18.3	R		735
1997 PD_2	1997 08 09.19792	20 21 25.62	−15 49 00.7	18.3	R		735
(204)	1997 07 04.41667	02 17 28.46	+14 48 38.0	14.2	R		735
(204)	1997 07 04.42813	02 17 29.25	+14 48 41.0	14.3	R		735
(204)	1997 07 04.43299	02 17 29.68	+14 48 43.1	14.2	R		735

751 Lake Saint Louis

J. Roe, 43 Rue De Paix, Lake Saint Louis, MO 63367, U.S.A. [jamesroe@primary.net]

0.20-m $f/3.37$ reflector + CCD

GSC 1.2

1993 OB_2	1997 07 16.17935	17 14 32.69	−22 24 22.8	16.3	R	751
1993 OB_2	1997 07 16.18812	17 14 32.46	−22 24 21.5	16.3	R	751
1993 OB_2	1997 07 31.12123	17 08 23.09	−21 14 32.5	16.7	R	751
1993 OB_2	1997 07 31.14235	17 08 22.83	−21 14 25.2	16.5	R	751

762 Four Winds Observatory, Lake Leelanau

R. Elliott, 1422 South Manitou Trail, Lake Leelanau, MI 49653, U.S.A. [elliottb@uwec.edu]

0.3-m $f/3.3$ reflector + CCD

GSC

(747)	1997 07 16.19634	14 14 48.72	+06 52 53.7	14.6	V	762
(747)	1997 07 16.21006	14 14 48.88	+06 52 49.1	14.6	V	762
(747)	1997 07 24.15828	14 16 45.72	+06 03 53.4	14.8	V	762
(747)	1997 07 24.17317	14 16 45.94	+06 03 48.0	14.7	V	762
(747)	1997 07 31.17867	14 19 10.68	+05 18 38.2	14.6	V	762
(747)	1997 07 31.18523	14 19 10.83	+05 18 35.5	14.8	V	762
(781)	1997 07 24.14957	15 13 31.35	+04 11 02.2	15.1	V	762
(781)	1997 07 24.16601	15 13 31.71	+04 10 53.3	15.2	V	762
(1506)	1997 07 24.21200	21 59 43.73	+12 07 00.5	14.6	V	762
(1506)	1997 07 24.22492	21 59 43.32	+12 07 04.0	14.5	V	762
(1943)	1997 07 24.19898	22 15 39.52	+17 55 17.6	15.6	V	762
(1943)	1997 07 24.24147	22 15 36.10	+17 55 32.5	15.5	V	762
(1943)	1997 07 31.23028	22 05 42.64	+18 13 16.9	16.3	V	762
(1943)	1997 07 31.23741	22 05 41.94	+18 13 17.0	16.3	V	762
(1943)	1997 07 31.24307	22 05 41.40	+18 13 17.5	16.0	V	762
(1980)	1997 07 11.27140	18 16 10.24	+34 34 41.9	14.8	V	762
(1980)	1997 07 11.27781	18 16 09.43	+34 34 58.2	14.8	V	762
(1980)	1997 07 11.28509	18 16 08.51	+34 35 17.2	14.9	V	762
(1980)	1997 07 31.20326	17 39 08.11	+45 19 32.9	14.8	V	762
(1980)	1997 07 31.20887	17 39 07.57	+45 19 40.2	14.8	V	762
(1980)	1997 07 31.21816	17 39 06.62	+45 19 52.3	14.9	V	762

784 Alfred University Observatory

D. R. DeGraff, Physics and Astronomy, Alfred University, Alfred, NY 14803, U.S.A. [david@merlin.alfred.edu]

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

0.81-m $f/4$ reflector + CCD

GSC, USNO A1.0

1991 RM_2	1997 07 28.10243	14 11 59.20	−03 56 06.4	18.3		784
1991 RM_2	1997 07 30.08490	14 13 46.59	−04 10 03.2	18.4		784
1991 RM_2	1997 07 30.11146	14 13 48.04	−04 10 14.4	18.4		784
1994 UE_1	1997 07 28.08750	15 34 00.90	−17 29 21.2	18.3		784
1994 UE_1	1997 07 30.07969	15 34 40.57	−17 29 35.0	19.0		784
1994 UE_1	1997 07 30.09653	15 34 40.90	−17 29 35.0	18.7		784
1994 UE_1	1997 07 30.11649	15 34 41.29	−17 29 35.5	18.7		784
1994 UE_1	1997 07 30.12864	15 34 41.58	−17 29 35.1	18.6		784
1996 AC	1997 07 28.11406	15 57 47.37	−06 34 44.0	18.9		784
1996 AC	1997 07 28.12049	15 57 47.44	−06 34 46.1	18.7		784
1996 AC	1997 07 28.14236	15 57 47.58	−06 34 55.3	18.7		784
1996 AC	1997 07 29.09549	15 57 55.84	−06 41 26.7	18.9		784
1996 AC	1997 07 29.16198	15 57 56.38	−06 41 53.3	19.6		784
1996 AC	1997 07 29.16649	15 57 56.42	−06 41 54.6	19.2		784
1996 AC	1997 07 29.17344	15 57 56.51	−06 41 57.7	19.3		784
1997 NP_{10}	1997 07 26.18681	21 19 09.63	+01 03 28.4	19.6	R	784
1997 NP_{10}	1997 07 26.19271	21 19 09.76	+01 03 31.0	19.4	R	784
1997 NP_{10}	1997 07 26.21198	21 19 10.19	+01 03 40.2	19.7	R	784
1997 NP_{10}	1997 07 26.21840	21 19 10.31	+01 03 43.3	19.7	R	784

1997 NP_{10}		1997 07 28.21163	21 20 04.41	+01 18 21.7	19.3	R	784
1997 NP_{10}		1997 07 28.21580	21 20 04.50	+01 18 23.5	19.9	R	784
1997 NP_{10}		1997 07 28.23108	21 20 04.81	+01 18 30.0	19.1	R	784
1997 NP_{10}		1997 07 28.24340	21 20 05.05	+01 18 35.0	19.3	R	784
1997 NP_{10}		1997 07 29.20174	21 20 30.06	+01 25 01.5	19.7	R	784
1997 NP_{10}		1997 07 29.20764	21 20 30.16	+01 25 03.8	19.7	R	784
1997 NP_{10}		1997 07 29.21597	21 20 30.30	+01 25 06.7	19.5	R	784
1997 NP_{10}		1997 07 29.22170	21 20 30.39	+01 25 09.0	19.7	R	784
1997 NP_{10}		1997 07 29.24307	21 20 30.82	+01 25 18.4	19.7	R	784
1997 NP_{10}		1997 07 30.22778	21 20 55.47	+01 31 27.5	19.8	R	784
1997 NP_{10}		1997 07 30.23368	21 20 55.56	+01 31 29.9	20.4	R	784
1997 NP_{10}		1997 07 30.24636	21 20 55.78	+01 31 34.7	19.9	R	784
1997 OH		1997 07 28.17274	20 05 24.15	−13 26 13.5	18.3		784
1997 OH		1997 07 28.17905	20 05 23.76	−13 25 58.3	18.7		784
1997 OH		1997 07 28.18114	20 05 23.61	−13 25 53.2	18.4		784
1997 OH		1997 07 28.18357	20 05 23.43	−13 25 47.5	18.3		784
1997 OH		1997 07 28.18843	20 05 23.15	−13 25 36.1	18.5		784
1997 OH		1997 07 28.22350	20 05 20.81	−13 24 12.6	18.4		784
1997 OH		1997 07 28.22511	20 05 20.66	−13 24 07.0	18.3		784
1997 OH		1997 07 28.24844	20 05 19.12	−13 23 12.9	18.2		784
1997 OH		1997 07 28.25364	20 05 18.81	−13 23 01.2	18.4		784
1997 OH		1997 07 29.19254	20 04 23.94	−12 45 59.9	18.6		784
1997 OH		1997 07 29.19705	20 04 23.63	−12 45 48.9	18.5		784
1997 OH		1997 07 29.23733	20 04 21.06	−12 44 13.5	18.4		784
1997 OH		1997 07 30.21163	20 03 25.11	−12 06 08.2	18.8		784
1997 OH		1997 07 30.21580	20 03 24.84	−12 05 57.7	18.8		784
1997 OH		1997 07 30.22031	20 03 24.55	−12 05 47.5	18.6		784
1997 PE_1		1997 08 06.15469	20 13 20.95	−12 04 19.8	18.2		784
1997 PE_1		1997 08 06.15833	20 13 20.75	−12 04 21.5	18.0		784
1997 PE_1		1997 08 06.16319	20 13 20.49	−12 04 23.5	18.1		784
1997 PE_1		1997 08 06.17014	20 13 20.12	−12 04 26.3	18.0		784
1997 PE_1	*	1997 08 07.07205	20 12 33.30	−12 10 26.6	17.6		784
1997 PE_1		1997 08 07.07413	20 12 33.20	−12 10 26.9	18.0		784
1997 PE_1		1997 08 07.07882	20 12 32.97	−12 10 29.3	17.7		784
1997 PE_1		1997 08 07.10052	20 12 31.82	−12 10 38.2	18.4		784
(1094)		1997 07 14.23472	22 39 59.18	−06 15 52.8	15.7		784
(1094)		1997 07 14.25747	22 39 58.98	−06 15 59.2	15.7		784
(1094)		1997 07 15.25903	22 39 50.23	−06 20 41.3	15.8		784
(1094)		1997 07 15.29670	22 39 49.78	−06 20 52.0	15.8		784
(3529)		1997 07 12.15069	21 16 12.24	−11 05 20.3	17.5		784
(3529)		1997 07 12.16406	21 16 11.80	−11 05 21.6	17.4		784
(3529)		1997 07 12.17049	21 16 11.57	−11 05 22.2	17.4		784
(3529)		1997 07 12.20208	21 16 10.52	−11 05 25.5	17.4		784
(3529)		1997 07 12.20677	21 16 10.36	−11 05 26.1	17.5		784
(3529)		1997 07 14.16910	21 15 04.87	−11 08 58.5	17.3		784
(3529)		1997 07 14.17483	21 15 04.71	−11 08 59.4	17.7		784
(3529)		1997 07 14.21406	21 15 03.23	−11 09 04.3	17.5		784

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

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

1973 SQ_3	1997 03 08.24792	12 39 26.58	−05 28 01.7		4	809
1973 SQ_3	1997 03 08.26111	12 39 25.99	−05 27 57.0		4	809
1973 SQ_3	1997 03 08.27431	12 39 25.42	−05 27 51.1		4	809
1973 SQ_3	1997 03 09.26944	12 38 42.65	−05 21 18.1	18.4	4	809
1973 SQ_3	1997 03 09.28264	12 38 42.01	−05 21 13.2		4	809
1973 SQ_3	1997 03 09.29583	12 38 41.47	−05 21 08.3		4	809
1977 EL_1	1997 03 05.22431	12 25 09.94	−02 15 56.0	18.1	4	809
1977 EL_1	1997 03 05.23750	12 25 09.24	−02 15 54.5		4	809
1977 EL_1	1997 03 05.25069	12 25 08.54	−02 15 54.4		4	809
1977 EL_1	1997 03 06.23542	12 24 18.22	−02 14 20.9		4	809
1977 EL_1	1997 03 06.24861	12 24 17.50	−02 14 20.4		4	809
1977 EL_1	1997 03 06.26181	12 24 16.74	−02 14 19.0		4	809
1978 VW_2	1997 03 08.24792	12 53 21.76	−03 33 58.5		4	809
1978 VW_2	1997 03 08.26111	12 53 21.34	−03 33 54.5		4	809
1978 VW_2	1997 03 08.27431	12 53 20.84	−03 33 51.2		4	809
1978 VW_2	1997 03 09.26944	12 52 47.86	−03 29 31.3	18.6	4	809
1978 VW_2	1997 03 09.28264	12 52 47.36	−03 29 27.4		4	809
1978 VW_2	1997 03 09.29583	12 52 46.85	−03 29 23.6		4	809
1984 SU	1997 03 08.24792	12 37 22.67	−06 43 55.7		4	809
1984 SU	1997 03 08.26111	12 37 21.96	−06 43 52.8		4	809
1984 SU	1997 03 08.27431	12 37 21.45	−06 43 50.6		4	809
1984 UN_2	1997 03 08.24792	12 55 15.08	−06 21 31.0		4	809
1984 UN_2	1997 03 08.26111	12 55 14.62	−06 21 28.4		4	809
1984 UN_2	1997 03 08.27431	12 55 14.04	−06 21 25.5		4	809
1984 UN_2	1997 03 09.26944	12 54 40.15	−06 17 28.7	18.5	4	809
1984 UN_2	1997 03 09.28264	12 54 39.63	−06 17 26.5		4	809
1984 UN_2	1997 03 09.29583	12 54 39.17	−06 17 23.0		4	809
1984 UD_3	1997 04 01.20556	13 34 38.03	−11 16 18.9	18.3	4	809
1984 UD_3	1997 04 01.21875	13 34 37.34	−11 16 13.7		4	809
1984 UD_3	1997 04 01.23194	13 34 36.61	−11 16 07.8		4	809
1985 CV_1	1997 04 01.20556	13 26 08.15	−07 41 38.4	18.3	4	809
1985 CV_1	1997 04 01.21875	13 26 07.62	−07 41 35.4		4	809
1985 CV_1	1997 04 01.23194	13 26 07.02	−07 41 33.1		4	809
1987 CG	1997 03 05.22431	12 35 55.01	−03 41 16.1	18.4	4	809
1987 CG	1997 03 05.23750	12 35 54.50	−03 41 13.3		4	809
1987 CG	1997 03 05.25069	12 35 53.97	−03 41 11.2		4	809
1987 CG	1997 03 06.23542	12 35 17.06	−03 37 44.6		4	809
1987 CG	1997 03 06.24861	12 35 16.52	−03 37 41.9		4	809
1987 CG	1997 03 06.26181	12 35 15.97	−03 37 39.1		4	809
1987 OA	1997 03 09.26944	12 41 36.38	−07 18 01.1	18.3	4	809
1987 OA	1997 03 09.28264	12 41 33.84	−07 17 31.6		4	809
1987 OA	1997 03 09.29583	12 41 31.33	−07 17 02.5		4	809
1987 QW_2	1997 03 05.22431	12 38 18.84	−02 51 24.7	18.5	4	809
1987 QW_2	1997 03 05.23750	12 38 18.40	−02 51 22.8		4	809
1987 QW_2	1997 03 05.25069	12 38 17.99	−02 51 20.0		4	809
1987 QW_2	1997 03 06.23542	12 37 44.61	−02 47 48.1		4	809
1987 QW_2	1997 03 06.24861	12 37 44.14	−02 47 45.7		4	809
1987 QW_2	1997 03 06.26181	12 37 43.61	−02 47 43.0		4	809

1987 UV_1	1997 04 01.20556	13 36 14.35	−12 26 51.2	18.5	4	809
1987 UV_1	1997 04 01.21875	13 36 13.68	−12 26 49.4		4	809
1987 UV_1	1997 04 01.23194	13 36 12.98	−12 26 46.2		4	809
1991 PJ_3	1997 03 08.24792	12 44 57.63	−06 45 56.3		4	809
1991 PJ_3	1997 03 08.26111	12 44 56.90	−06 45 54.6		4	809
1991 PJ_3	1997 03 08.27431	12 44 56.23	−06 45 53.5		4	809
1991 PJ_3	1997 03 09.26944	12 44 07.77	−06 43 49.6	18.3	4	809
1991 PJ_3	1997 03 09.28264	12 44 07.06	−06 43 47.6		4	809
1991 PJ_3	1997 03 09.29583	12 44 06.37	−06 43 46.5		4	809
1991 RE_{15}	1997 03 05.22431	12 23 31.09	−06 18 38.1	18.4	4	809
1991 RE_{15}	1997 03 05.23750	12 23 30.42	−06 18 36.1		4	809
1991 RE_{15}	1997 03 05.25069	12 23 29.68	−06 18 34.8		4	809
1991 RE_{15}	1997 03 06.23542	12 22 37.85	−06 16 51.6		4	809
1991 RE_{15}	1997 03 06.24861	12 22 37.09	−06 16 49.9		4	809
1991 RE_{15}	1997 03 06.26181	12 22 36.37	−06 16 49.2		4	809
1991 UG_3	1997 03 06.23542	12 37 15.63	−07 22 58.4	18.5	4	809
1991 UG_3	1997 03 06.24861	12 37 14.95	−07 22 55.5		4	809
1991 UG_3	1997 03 06.26181	12 37 14.35	−07 22 53.0		4	809
1991 UJ_4	1997 03 05.22431	12 22 27.89	−04 29 05.2	18.6	4	809
1991 UJ_4	1997 03 05.23750	12 22 27.08	−04 29 00.7		4	809
1991 UJ_4	1997 03 05.25069	12 22 26.47	−04 28 58.2		4	809
1991 UJ_4	1997 03 06.23542	12 21 40.93	−04 24 54.4		4	809
1991 UJ_4	1997 03 06.24861	12 21 40.31	−04 24 51.9		4	809
1991 UJ_4	1997 03 06.26181	12 21 39.70	−04 24 48.9		4	809
1992 DH_3	1992 03 06.09722	10 36 03.09	+08 29 12.6	18.6	8	809
1992 EM_{14}	1992 03 09.15972	10 54 42.20	+05 52 46.3	20.8	8	809
1992 JC_5	* 1992 05 03.23889	16 16 14.14	−16 19 17.8	18.5	4	809
1992 JC_5	1992 05 03.25208	16 16 13.63	−16 19 13.9		4	809
1992 JC_5	1992 05 03.26528	16 16 13.09	−16 19 11.0		4	809
1993 FK_{25}	1997 04 01.20556	13 33 21.90	−11 10 59.0	18.5	4	809
1993 FK_{25}	1997 04 01.21875	13 33 21.24	−11 10 54.2		4	809
1993 FK_{25}	1997 04 01.23194	13 33 20.54	−11 10 51.5		4	809
1993 NV	1997 04 01.20556	13 29 13.44	−10 16 03.4	18.3	4	809
1993 NV	1997 04 01.21875	13 29 12.75	−10 16 00.0		4	809
1993 NV	1997 04 01.23194	13 29 12.18	−10 15 57.3		4	809
1993 OB_{13}	1997 03 05.22431	12 27 00.09	−02 36 59.3	18.5	4	809
1993 OB_{13}	1997 03 05.23750	12 26 59.56	−02 36 56.6		4	809
1993 OB_{13}	1997 03 05.25069	12 26 59.03	−02 36 52.5		4	809
1993 OB_{13}	1997 03 06.23542	12 26 22.96	−02 32 12.8		4	809
1993 OB_{13}	1997 03 06.24861	12 26 22.43	−02 32 09.6		4	809
1993 OB_{13}	1997 03 06.26181	12 26 21.89	−02 32 05.5		4	809
1994 PO_7	1997 04 01.20556	13 24 24.54	−07 46 21.6	18.1	4	809
1994 PO_7	1997 04 01.21875	13 24 23.85	−07 46 17.3		4	809
1994 PO_7	1997 04 01.23194	13 24 23.16	−07 46 14.0		4	809
1994 PP_{26}	1997 03 08.24792	12 43 32.69	−02 33 42.8		4	809
1994 PP_{26}	1997 03 08.26111	12 43 32.15	−02 33 40.4		4	809
1994 PP_{26}	1997 03 08.27431	12 43 31.57	−02 33 37.9		4	809
1994 PP_{26}	1997 03 09.26944	12 42 51.73	−02 30 30.1	18.2	4	809
1994 PP_{26}	1997 03 09.28264	12 42 51.15	−02 30 26.8		4	809
1994 PP_{26}	1997 03 09.29583	12 42 50.59	−02 30 24.8		4	809
1994 PW_{31}	1997 03 05.22431	12 34 49.48	−02 56 25.3	18.2	4	809
1994 PW_{31}	1997 03 05.23750	12 34 49.04	−02 56 18.8		4	809
1994 PW_{31}	1997 03 05.25069	12 34 48.63	−02 56 13.1		4	809
1994 PW_{31}	1997 03 06.23542	12 34 17.08	−02 48 15.4		4	809
1994 PW_{31}	1997 03 06.24861	12 34 16.67	−02 48 09.1		4	809
1994 PW_{31}	1997 03 06.26181	12 34 16.17	−02 48 02.8		4	809
1994 PA_{39}	1997 04 01.20556	13 30 21.42	−11 04 44.5	18.4	4	809
1994 PA_{39}	1997 04 01.21875	13 30 20.74	−11 04 39.7		4	809
1994 PA_{39}	1997 04 01.23194	13 30 20.15	−11 04 35.4		4	809
1994 RC_{11}	1997 03 08.24792	12 38 29.66	−02 59 09.6		4	809
1994 RC_{11}	1997 03 08.26111	12 38 29.07	−02 59 06.5		4	809
1994 RC_{11}	1997 03 08.27431	12 38 28.58	−02 59 04.0		4	809
1994 RC_{11}	1997 03 09.26944	12 37 51.14	−02 55 09.1	18.5	4	809
1994 RC_{11}	1997 03 09.28264	12 37 50.65	−02 55 04.9		4	809
1994 RC_{11}	1997 03 09.29583	12 37 50.13	−02 55 02.5		4	809
1995 QD_3	1997 03 06.23542	12 36 18.56	−06 20 06.5		4	809
1995 QD_3	1997 03 06.24861	12 36 17.87	−06 20 03.8		4	809
1995 QD_3	1997 03 06.26181	12 36 17.23	−06 20 00.6		4	809
1995 UW_3	1997 03 05.22431	12 26 54.67	−02 21 07.1	18.7	4	809
1995 UW_3	1997 03 05.23750	12 26 54.13	−02 21 04.3		4	809
1995 UW_3	1997 03 05.25069	12 26 53.56	−02 21 00.5		4	809
1995 VS	1997 03 08.24792	12 43 08.32	−06 45 30.0		4	809
1995 VS	1997 03 08.26111	12 43 07.68	−06 45 26.5		4	809
1995 VS	1997 03 08.27431	12 43 07.03	−06 45 22.5		4	809
1995 VS	1997 03 09.26944	12 42 20.91	−06 40 16.2	18.3	4	809
1995 VS	1997 03 09.28264	12 42 20.29	−06 40 12.4		4	809
1995 VS	1997 03 09.29583	12 42 19.67	−06 40 08.8		4	809
1995 WX_4	1997 04 01.20556	13 23 16.51	−11 43 16.5	18.8	4	809
1995 WX_4	1997 04 01.21875	13 23 15.69	−11 43 10.2		4	809
1995 WX_4	1997 04 01.23194	13 23 14.92	−11 43 05.3		4	809
1995 YL_1	1997 03 05.22431	12 21 56.35	−06 04 06.0	19.2	4	809
1995 YL_1	1997 03 05.23750	12 21 55.73	−06 04 03.5		4	809
1995 YL_1	1997 03 05.25069	12 21 55.11	−06 04 00.6		4	809
1995 YL_1	1997 03 06.23542	12 21 12.38	−05 59 38.9		4	809
1995 YL_1	1997 03 06.24861	12 21 11.70	−05 59 34.5		4	809
1995 YL_1	1997 03 06.26181	12 21 11.12	−05 59 31.3		4	809
1997 EH_{15}	1997 03 05.22431	12 24 57.86	−02 12 31.8	18.6	4	809
1997 EH_{15}	1997 03 05.23750	12 24 57.15	−02 12 32.9		4	809
1997 EH_{15}	1997 03 05.25069	12 24 56.47	−02 12 33.3		4	809
1997 EH_{15}	1997 03 06.23542	12 24 08.62	−02 13 39.1		4	809
1997 EH_{15}	1997 03 06.24861	12 24 08.01	−02 13 40.4		4	809
1997 EH_{15}	1997 03 06.26181	12 24 07.27	−02 13 42.1		4	809
1997 EM_{15}	1997 03 05.22431	12 29 50.89	−02 22 12.3	18.7	4	809
1997 EM_{15}	1997 03 05.23750	12 29 50.17	−02 22 10.4		4	809
1997 EM_{15}	1997 03 05.25069	12 29 49.52	−02 22 09.4		4	809
1997 EM_{15}	1997 03 06.23542	12 29 02.12	−02 20 43.4		4	809
1997 EM_{15}	1997 03 06.24861	12 29 01.30	−02 20 42.3		4	809
1997 EM_{15}	1997 03 06.26181	12 29 00.74	−02 20 40.9		4	809
1997 ED_{23}	1997 03 05.22431	12 26 13.55	−02 45 15.6	18.5	4	809
1997 ED_{23}	1997 03 05.23750	12 26 13.00	−02 45 15.3		4	809
1997 ED_{23}	1997 03 05.25069	12 26 12.49	−02 45 12.0		4	809
1997 ED_{23}	1997 03 06.23542	12 25 34.06	−02 42 51.4		4	809
1997 ED_{23}	1997 03 06.24861	12 25 33.51	−02 42 48.7		4	809
1997 ED_{23}	1997 03 06.26181	12 25 32.93	−02 42 48.2		4	809

1997 EE_{32}		1997 03 05.22431	12 26 08.79	−03 19 04.3	18.5	4	809
1997 EE_{32}		1997 03 05.23750	12 26 08.28	−03 19 00.3		4	809
1997 EE_{32}		1997 03 05.25069	12 26 07.72	−03 18 55.7		4	809
1997 EE_{32}		1997 03 06.23542	12 25 30.94	−03 13 34.0		4	809
1997 EE_{32}		1997 03 06.24861	12 25 30.50	−03 13 29.7		4	809
1997 EE_{32}		1997 03 06.26181	12 25 29.99	−03 13 25.0		4	809
1997 ES_{40}		1997 03 05.22431	12 27 59.16	−05 10 44.9	18.6	4	809
1997 ES_{40}		1997 03 05.23750	12 27 58.51	−05 10 40.5		4	809
1997 ES_{40}		1997 03 05.25069	12 27 57.87	−05 10 36.0		4	809
1997 ES_{40}		1997 03 06.23542	12 27 13.58	−05 04 31.2		4	809
1997 ES_{40}		1997 03 06.24861	12 27 12.87	−05 04 25.7		4	809
1997 ES_{40}		1997 03 06.26181	12 27 12.32	−05 04 21.5		4	809
1997 EB_{47}		1997 04 01.20556	13 21 19.57	−10 16 27.2	18.5	4	809
1997 EB_{47}		1997 04 01.21875	13 21 18.88	−10 16 24.9		4	809
1997 EB_{47}		1997 04 01.23194	13 21 18.15	−10 16 23.3		4	809
1997 EN_{47}		1997 04 01.20556	13 25 28.31	−09 12 20.7	18.7	4	809
1997 EN_{47}		1997 04 01.21875	13 25 27.63	−09 12 16.5		4	809
1997 EN_{47}		1997 04 01.23194	13 25 26.91	−09 12 12.5		4	809
1997 EP_{47}		1997 04 01.20556	13 21 29.95	−10 36 20.7	18.4	4	809
1997 EP_{47}		1997 04 01.21875	13 21 29.13	−10 36 20.0		4	809
1997 EP_{47}		1997 04 01.23194	13 21 28.36	−10 36 20.2		4	809
1997 EW_{47}		1997 04 01.20556	13 30 52.55	−08 39 33.5	18.0	4	809
1997 EW_{47}		1997 04 01.21875	13 30 51.98	−08 39 26.8		4	809
1997 EW_{47}		1997 04 01.23194	13 30 51.39	−08 39 20.7		4	809
1997 ER_{49}	*	1997 03 05.22431	12 21 14.01	−04 43 58.6	18.5	4	809
1997 ER_{49}		1997 03 05.23750	12 21 13.38	−04 43 55.1		4	809
1997 ER_{49}		1997 03 05.25069	12 21 12.80	−04 43 51.4		4	809
1997 ER_{49}		1997 03 06.23542	12 20 29.46	−04 38 40.5		4	809
1997 ER_{49}		1997 03 06.24861	12 20 28.81	−04 38 37.0		4	809
1997 ER_{49}		1997 03 06.26181	12 20 28.23	−04 38 32.4		4	809
1997 ES_{49}	*	1997 03 05.22431	12 21 47.92	−03 47 50.2	18.4	4	809
1997 ES_{49}		1997 03 05.23750	12 21 47.31	−03 47 48.3		4	809
1997 ES_{49}		1997 03 05.25069	12 21 46.73	−03 47 46.1		4	809
1997 ES_{49}		1997 03 06.23542	12 21 04.19	−03 44 54.8		4	809
1997 ES_{49}		1997 03 06.24861	12 21 03.52	−03 44 52.9		4	809
1997 ES_{49}		1997 03 06.26181	12 21 02.91	−03 44 50.7		4	809
1997 ET_{49}	*	1997 03 05.22431	12 21 55.66	−05 34 50.4	18.4	4	809
1997 ET_{49}		1997 03 05.23750	12 21 55.12	−05 34 49.1		4	809
1997 ET_{49}		1997 03 05.25069	12 21 54.55	−05 34 48.6		4	809
1997 ET_{49}		1997 03 06.23542	12 21 17.52	−05 33 04.3		4	809
1997 ET_{49}		1997 03 06.24861	12 21 16.94	−05 33 03.2		4	809
1997 ET_{49}		1997 03 06.26181	12 21 16.34	−05 33 02.0		4	809
1997 EU_{49}	*	1997 03 05.22431	12 22 19.31	−05 24 05.2	18.5	4	809
1997 EU_{49}		1997 03 05.23750	12 22 18.80	−05 24 00.6		4	809
1997 EU_{49}		1997 03 05.25069	12 22 18.28	−05 23 56.3		4	809
1997 EU_{49}		1997 03 06.23542	12 21 43.44	−05 18 02.3		4	809
1997 EU_{49}		1997 03 06.24861	12 21 42.95	−05 17 57.1		4	809
1997 EU_{49}		1997 03 06.26181	12 21 42.48	−05 17 52.7		4	809
1997 EV_{49}	*	1997 03 05.22431	12 22 59.39	−03 31 26.6	18.8	4	809
1997 EV_{49}		1997 03 05.23750	12 22 58.88	−03 31 23.8		4	809
1997 EV_{49}		1997 03 05.25069	12 22 58.31	−03 31 20.9		4	809
1997 EV_{49}		1997 03 06.23542	12 22 18.34	−03 27 17.1		4	809
1997 EV_{49}		1997 03 06.24861	12 22 17.78	−03 27 14.2		4	809
1997 EV_{49}		1997 03 06.26181	12 22 17.12	−03 27 10.2		4	809
1997 EW_{49}	*	1997 03 05.22431	12 23 12.02	−05 07 48.0	18.5	4	809
1997 EW_{49}		1997 03 05.23750	12 23 11.49	−05 07 46.9		4	809
1997 EW_{49}		1997 03 05.25069	12 23 10.88	−05 07 46.2		4	809
1997 EW_{49}		1997 03 06.23542	12 22 28.79	−05 06 43.5		4	809
1997 EW_{49}		1997 03 06.24861	12 22 28.21	−05 06 42.1		4	809
1997 EW_{49}		1997 03 06.26181	12 22 27.61	−05 06 41.4		4	809
1997 EX_{49}	*	1997 03 05.22431	12 23 20.22	−03 55 09.0	18.5	4	809
1997 EX_{49}		1997 03 05.23750	12 23 19.56	−03 55 02.9		4	809
1997 EX_{49}		1997 03 05.25069	12 23 18.96	−03 54 57.8		4	809
1997 EX_{49}		1997 03 06.23542	12 22 40.88	−03 48 07.5		4	809
1997 EX_{49}		1997 03 06.24861	12 22 40.36	−03 48 01.5		4	809
1997 EX_{49}		1997 03 06.26181	12 22 39.78	−03 47 56.2		4	809
1997 EY_{49}	*	1997 03 05.22431	12 23 29.23	−06 12 37.4	18.5	4	809
1997 EY_{49}		1997 03 05.23750	12 23 28.53	−06 12 34.0		4	809
1997 EY_{49}		1997 03 05.25069	12 23 27.85	−06 12 30.7		4	809
1997 EY_{49}		1997 03 06.23542	12 22 37.63	−06 08 01.8		4	809
1997 EY_{49}		1997 03 06.24861	12 22 36.86	−06 07 58.1		4	809
1997 EY_{49}		1997 03 06.26181	12 22 36.15	−06 07 55.0		4	809
1997 EZ_{49}	*	1997 03 05.22431	12 23 39.10	−05 05 56.8	18.8	4	809
1997 EZ_{49}		1997 03 05.23750	12 23 38.57	−05 05 50.8		4	809
1997 EZ_{49}		1997 03 05.25069	12 23 38.04	−05 05 45.2		4	809
1997 EZ_{49}		1997 03 06.23542	12 23 03.61	−04 58 29.7		4	809
1997 EZ_{49}		1997 03 06.24861	12 23 03.12	−04 58 24.0		4	809
1997 EZ_{49}		1997 03 06.26181	12 23 02.62	−04 58 18.8		4	809
1997 EA_{50}	*	1997 03 05.22431	12 23 49.04	−03 40 01.6	18.5	4	809
1997 EA_{50}		1997 03 05.23750	12 23 48.47	−03 39 56.9		4	809
1997 EA_{50}		1997 03 05.25069	12 23 47.95	−03 39 52.7		4	809
1997 EA_{50}		1997 03 06.23542	12 23 10.60	−03 33 57.4		4	809
1997 EA_{50}		1997 03 06.24861	12 23 10.06	−03 33 53.2		4	809
1997 EA_{50}		1997 03 06.26181	12 23 09.53	−03 33 48.6		4	809
1997 EB_{50}	*	1997 03 05.22431	12 24 05.89	−06 30 00.4	18.5	4	809
1997 EB_{50}		1997 03 05.23750	12 24 05.36	−06 29 56.5		4	809
1997 EB_{50}		1997 03 05.25069	12 24 04.78	−06 29 52.9		4	809
1997 EB_{50}		1997 03 06.23542	12 23 27.77	−06 25 11.5		4	809
1997 EB_{50}		1997 03 06.24861	12 23 27.29	−06 25 07.4		4	809
1997 EB_{50}		1997 03 06.26181	12 23 26.66	−06 25 03.7		4	809
1997 EC_{50}	*	1997 03 05.22431	12 24 12.48	−04 10 36.0	18.6	4	809
1997 EC_{50}		1997 03 05.23750	12 24 11.84	−04 10 34.7		4	809
1997 EC_{50}		1997 03 05.25069	12 24 11.31	−04 10 32.6		4	809
1997 EC_{50}		1997 03 06.23542	12 23 31.31	−04 07 45.9		4	809
1997 EC_{50}		1997 03 06.24861	12 23 30.80	−04 07 44.1		4	809
1997 EC_{50}		1997 03 06.26181	12 23 30.21	−04 07 42.2		4	809
1997 ED_{50}	*	1997 03 05.22431	12 25 44.08	−05 40 54.9	18.4	4	809
1997 ED_{50}		1997 03 05.23750	12 25 43.50	−05 40 52.2		4	809
1997 ED_{50}		1997 03 05.25069	12 25 42.93	−05 40 49.5		4	809
1997 ED_{50}		1997 03 06.23542	12 25 02.19	−05 36 47.2		4	809
1997 ED_{50}		1997 03 06.24861	12 25 01.57	−05 36 44.4		4	809
1997 ED_{50}		1997 03 06.26181	12 25 00.96	−05 36 41.5		4	809
1997 EE_{50}	*	1997 03 05.22431	12 25 58.33	−05 33 38.8	18.5	4	809
1997 EE_{50}		1997 03 05.23750	12 25 57.69	−05 33 35.1		4	809

1997 EE_{50}		1997 03 05.25069	12 25 57.02	−05 33 31.2		4	809
1997 EE_{50}		1997 03 06.23542	12 25 11.23	−05 28 48.4		4	809
1997 EE_{50}		1997 03 06.24861	12 25 10.49	−05 28 44.4		4	809
1997 EE_{50}		1997 03 06.26181	12 25 09.87	−05 28 41.0		4	809
1997 EF_{50}	*	1997 03 05.22431	12 26 07.82	−02 24 20.4	18.5	4	809
1997 EF_{50}		1997 03 05.23750	12 26 07.37	−02 24 15.3		4	809
1997 EF_{50}		1997 03 05.25069	12 26 06.91	−02 24 09.8		4	809
1997 EF_{50}		1997 03 06.23542	12 25 35.42	−02 17 31.8		4	809
1997 EF_{50}		1997 03 06.24861	12 25 34.97	−02 17 26.1		4	809
1997 EF_{50}		1997 03 06.26181	12 25 34.53	−02 17 20.8		4	809
1997 EG_{50}	*	1997 03 05.22431	12 26 38.10	−05 17 32.0	18.4	4	809
1997 EG_{50}		1997 03 05.23750	12 26 37.60	−05 17 27.8		4	809
1997 EG_{50}		1997 03 05.25069	12 26 37.14	−05 17 24.2		4	809
1997 EG_{50}		1997 03 06.23542	12 26 05.57	−05 12 00.4		4	809
1997 EG_{50}		1997 03 06.24861	12 26 05.09	−05 11 56.9		4	809
1997 EG_{50}		1997 03 06.26181	12 26 04.65	−05 11 52.4		4	809
1997 EH_{50}	*	1997 03 05.22431	12 26 52.44	−05 11 38.5	18.6	4	809
1997 EH_{50}		1997 03 05.23750	12 26 51.84	−05 11 36.2		4	809
1997 EH_{50}		1997 03 05.25069	12 26 51.35	−05 11 33.1		4	809
1997 EH_{50}		1997 03 06.23542	12 26 13.43	−05 07 36.6		4	809
1997 EH_{50}		1997 03 06.24861	12 26 12.87	−05 07 31.3		4	809
1997 EH_{50}		1997 03 06.26181	12 26 12.39	−05 07 29.2		4	809
1997 EJ_{50}	*	1997 03 05.22431	12 27 11.77	−06 00 11.9	18.4	4	809
1997 EJ_{50}		1997 03 05.23750	12 27 11.25	−05 59 57.3		4	809
1997 EJ_{50}		1997 03 05.25069	12 27 10.72	−05 59 43.4		4	809
1997 EJ_{50}		1997 03 06.23542	12 26 33.82	−05 41 11.5		4	809
1997 EJ_{50}		1997 03 06.24861	12 26 33.28	−05 40 56.7		4	809
1997 EJ_{50}		1997 03 06.26181	12 26 32.72	−05 40 41.6		4	809
1997 EK_{50}	*	1997 03 05.22431	12 27 36.81	−06 13 20.7	20.0	4	809
1997 EK_{50}		1997 03 05.23750	12 27 36.30	−06 13 17.0		4	809
1997 EK_{50}		1997 03 05.25069	12 27 35.89	−06 13 14.2		4	809
1997 EK_{50}		1997 03 06.23542	12 27 01.62	−06 08 52.0		4	809
1997 EK_{50}		1997 03 06.24861	12 27 01.09	−06 08 49.3		4	809
1997 EK_{50}		1997 03 06.26181	12 27 00.56	−06 08 45.4		4	809
1997 EL_{50}	*	1997 03 05.22431	12 28 00.85	−04 46 35.8	18.5	4	809
1997 EL_{50}		1997 03 05.23750	12 28 00.16	−04 46 36.9		4	809
1997 EL_{50}		1997 03 05.25069	12 27 59.50	−04 46 36.9		4	809
1997 EL_{50}		1997 03 06.23542	12 27 11.22	−04 46 14.1		4	809
1997 EL_{50}		1997 03 06.24861	12 27 10.53	−04 46 13.6		4	809
1997 EL_{50}		1997 03 06.26181	12 27 09.81	−04 46 13.8		4	809
1997 EM_{50}	*	1997 03 05.22431	12 28 10.88	−03 57 01.5	18.7	4	809
1997 EM_{50}		1997 03 05.23750	12 28 10.36	−03 56 56.4		4	809
1997 EM_{50}		1997 03 05.25069	12 28 09.86	−03 56 50.9		4	809
1997 EM_{50}		1997 03 06.23542	12 27 33.29	−03 49 19.2		4	809
1997 EM_{50}		1997 03 06.24861	12 27 32.71	−03 49 12.9		4	809
1997 EM_{50}		1997 03 06.26181	12 27 32.15	−03 49 07.1		4	809
1997 EN_{50}	*	1997 03 05.22431	12 28 54.05	−05 07 20.1	18.7	4	809
1997 EN_{50}		1997 03 05.23750	12 28 53.40	−05 07 15.7		4	809
1997 EN_{50}		1997 03 05.25069	12 28 52.73	−05 07 11.5		4	809
1997 EN_{50}		1997 03 06.23542	12 28 07.97	−05 01 28.0		4	809
1997 EN_{50}		1997 03 06.24861	12 28 07.32	−05 01 25.1		4	809
1997 EN_{50}		1997 03 06.26181	12 28 06.70	−05 01 21.2		4	809
1997 EO_{50}	*	1997 03 05.22431	12 29 03.96	−02 16 42.4	18.5	4	809
1997 EO_{50}		1997 03 05.23750	12 29 03.47	−02 16 37.9		4	809
1997 EO_{50}		1997 03 05.25069	12 29 02.89	−02 16 34.0		4	809
1997 EO_{50}		1997 03 06.23542	12 28 27.13	−02 11 08.8		4	809
1997 EO_{50}		1997 03 06.24861	12 28 26.62	−02 11 04.4		4	809
1997 EO_{50}		1997 03 06.26181	12 28 26.13	−02 10 59.7		4	809
1997 EP_{50}	*	1997 03 05.22431	12 29 55.21	−03 30 55.8	18.7	4	809
1997 EP_{50}		1997 03 05.23750	12 29 54.63	−03 30 51.6		4	809
1997 EP_{50}		1997 03 05.25069	12 29 54.03	−03 30 45.6		4	809
1997 EP_{50}		1997 03 06.23542	12 29 12.72	−03 23 58.3		4	809
1997 EP_{50}		1997 03 06.24861	12 29 12.10	−03 23 52.7		4	809
1997 EP_{50}		1997 03 06.26181	12 29 11.54	−03 23 47.7		4	809
1997 EQ_{50}	*	1997 03 05.22431	12 29 56.48	−04 11 23.3	18.5	4	809
1997 EQ_{50}		1997 03 05.23750	12 29 55.89	−04 11 20.9		4	809
1997 EQ_{50}		1997 03 05.25069	12 29 55.38	−04 11 18.0		4	809
1997 EQ_{50}		1997 03 06.23542	12 29 17.65	−04 07 53.0		4	809
1997 EQ_{50}		1997 03 06.24861	12 29 17.21	−04 07 49.9		4	809
1997 EQ_{50}		1997 03 06.26181	12 29 16.70	−04 07 47.9		4	809
1997 ER_{50}	*	1997 03 05.22431	12 30 05.78	−07 12 02.9	18.6	4	809
1997 ER_{50}		1997 03 05.23750	12 30 05.19	−07 12 04.7		4	809
1997 ER_{50}		1997 03 05.25069	12 30 04.54	−07 12 04.6		4	809
1997 ER_{50}		1997 03 06.23542	12 29 22.48	−07 12 34.8		4	809
1997 ER_{50}		1997 03 06.24861	12 29 21.82	−07 12 35.7		4	809
1997 ER_{50}		1997 03 06.26181	12 29 21.18	−07 12 36.7		4	809
1997 ES_{50}	*	1997 03 05.22431	12 30 10.15	−05 47 35.6	18.6	4	809
1997 ES_{50}		1997 03 05.23750	12 30 09.44	−05 47 33.9		4	809
1997 ES_{50}		1997 03 05.25069	12 30 08.86	−05 47 31.8		4	809
1997 ES_{50}		1997 03 06.23542	12 29 22.96	−05 44 44.2		4	809
1997 ES_{50}		1997 03 06.24861	12 29 22.32	−05 44 42.2		4	809
1997 ES_{50}		1997 03 06.26181	12 29 21.67	−05 44 40.1		4	809
1997 ET_{50}	*	1997 03 05.22431	12 30 13.04	−04 13 20.7	18.2	4	809
1997 ET_{50}		1997 03 05.23750	12 30 11.90	−04 13 27.5		4	809
1997 ET_{50}		1997 03 05.25069	12 30 10.68	−04 13 35.1		4	809
1997 ET_{50}		1997 03 06.23542	12 28 43.58	−04 21 56.1		4	809
1997 ET_{50}		1997 03 06.24861	12 28 42.36	−04 22 02.3		4	809
1997 ET_{50}		1997 03 06.26181	12 28 41.13	−04 22 09.2		4	809
1997 EU_{50}	*	1997 03 05.22431	12 31 08.23	−05 16 01.5	18.4	4	809
1997 EU_{50}		1997 03 05.23750	12 31 07.77	−05 15 58.6		4	809
1997 EU_{50}		1997 03 05.25069	12 31 07.26	−05 15 54.8		4	809
1997 EU_{50}		1997 03 06.23542	12 30 29.27	−05 11 20.5		4	809
1997 EU_{50}		1997 03 06.24861	12 30 28.69	−05 11 16.6		4	809
1997 EU_{50}		1997 03 06.26181	12 30 28.07	−05 11 12.6		4	809
1997 EV_{50}	*	1997 03 05.22431	12 31 24.24	−05 35 13.5	18.7	4	809
1997 EV_{50}		1997 03 05.23750	12 31 23.71	−05 35 12.9		4	809
1997 EV_{50}		1997 03 05.25069	12 31 23.22	−05 35 12.2		4	809
1997 EV_{50}		1997 03 06.23542	12 30 46.33	−05 33 42.7		4	809
1997 EV_{50}		1997 03 06.24861	12 30 45.78	−05 33 41.9		4	809
1997 EV_{50}		1997 03 06.26181	12 30 45.24	−05 33 39.9		4	809
1997 EW_{50}	*	1997 03 05.22431	12 31 26.20	−04 09 36.7	18.6	4	809
1997 EW_{50}		1997 03 05.23750	12 31 25.69	−04 09 35.6		4	809
1997 EW_{50}		1997 03 05.25069	12 31 25.16	−04 09 34.2		4	809
1997 EW_{50}		1997 03 06.23542	12 30 47.22	−04 07 55.0		4	809

1997 EW_{50}		1997 03 06.24861	12 30 46.65	−04 07 54.0		4	809
1997 EW_{50}		1997 03 06.26181	12 30 46.13	−04 07 53.2		4	809
1997 EX_{50}	*	1997 03 05.22431	12 32 01.35	−04 38 08.8	18.7	4	809
1997 EX_{50}		1997 03 05.23750	12 32 00.80	−04 38 06.8		4	809
1997 EX_{50}		1997 03 05.25069	12 32 00.32	−04 38 03.0		4	809
1997 EX_{50}		1997 03 06.23542	12 31 23.88	−04 34 00.3		4	809
1997 EX_{50}		1997 03 06.24861	12 31 23.37	−04 33 57.3		4	809
1997 EX_{50}		1997 03 06.26181	12 31 22.82	−04 33 54.3		4	809
1997 EY_{50}	*	1997 03 05.22431	12 32 02.88	−02 27 23.8	18.6	4	809
1997 EY_{50}		1997 03 05.23750	12 32 02.40	−02 27 19.8		4	809
1997 EY_{50}		1997 03 05.25069	12 32 01.87	−02 27 14.8		4	809
1997 EY_{50}		1997 03 06.23542	12 31 25.70	−02 21 14.8		4	809
1997 EY_{50}		1997 03 06.24861	12 31 25.23	−02 21 10.5		4	809
1997 EY_{50}		1997 03 06.26181	12 31 24.63	−02 21 05.5		4	809
1997 EZ_{50}	*	1997 03 05.22431	12 32 26.59	−05 04 30.7	18.8	4	809
1997 EZ_{50}		1997 03 05.23750	12 32 26.08	−05 04 26.9		4	809
1997 EZ_{50}		1997 03 05.25069	12 32 25.62	−05 04 23.3		4	809
1997 EZ_{50}		1997 03 06.23542	12 31 48.92	−04 59 03.6		4	809
1997 EZ_{50}		1997 03 06.24861	12 31 48.45	−04 59 00.6		4	809
1997 EZ_{50}		1997 03 06.26181	12 31 47.88	−04 58 56.1		4	809
1997 EA_{51}	*	1997 03 05.22431	12 32 31.61	−05 33 48.0	18.5	4	809
1997 EA_{51}		1997 03 05.23750	12 32 31.08	−05 33 47.5		4	809
1997 EA_{51}		1997 03 05.25069	12 32 30.52	−05 33 46.8		4	809
1997 EA_{51}		1997 03 06.23542	12 31 49.02	−05 32 35.9		4	809
1997 EA_{51}		1997 03 06.24861	12 31 48.42	−05 32 36.0		4	809
1997 EA_{51}		1997 03 06.26181	12 31 47.82	−05 32 34.9		4	809
1997 EB_{51}	*	1997 03 05.22431	12 33 24.50	−06 51 24.3	18.5	4	809
1997 EB_{51}		1997 03 05.23750	12 33 23.91	−06 51 18.7		4	809
1997 EB_{51}		1997 03 05.25069	12 33 23.31	−06 51 13.4		4	809
1997 EB_{51}		1997 03 06.23542	12 32 41.86	−06 44 41.5		4	809
1997 EB_{51}		1997 03 06.24861	12 32 41.26	−06 44 36.2		4	809
1997 EB_{51}		1997 03 06.26181	12 32 40.67	−06 44 32.0		4	809
1997 EC_{51}	*	1997 03 05.22431	12 33 32.22	−03 10 06.3	18.6	4	809
1997 EC_{51}		1997 03 05.23750	12 33 31.57	−03 10 07.1		4	809
1997 EC_{51}		1997 03 05.25069	12 33 30.94	−03 10 08.8		4	809
1997 EC_{51}		1997 03 06.23542	12 32 47.29	−03 10 45.7		4	809
1997 EC_{51}		1997 03 06.24861	12 32 46.71	−03 10 47.0		4	809
1997 EC_{51}		1997 03 06.26181	12 32 46.11	−03 10 47.9		4	809
1997 ED_{51}	*	1997 03 05.22431	12 34 36.38	−06 16 07.2	18.8	4	809
1997 ED_{51}		1997 03 05.23750	12 34 35.67	−06 16 05.7		4	809
1997 ED_{51}		1997 03 05.25069	12 34 35.10	−06 16 05.2		4	809
1997 ED_{51}		1997 03 06.23542	12 33 53.44	−06 14 26.0		4	809
1997 ED_{51}		1997 03 06.24861	12 33 52.77	−06 14 25.8		4	809
1997 ED_{51}		1997 03 06.26181	12 33 52.20	−06 14 24.3		4	809
1997 EE_{51}	*	1997 03 05.22431	12 34 46.78	−02 57 48.7	18.5	4	809
1997 EE_{51}		1997 03 05.23750	12 34 46.09	−02 57 51.4		4	809
1997 EE_{51}		1997 03 05.25069	12 34 45.39	−02 57 52.8		4	809
1997 EE_{51}		1997 03 06.23542	12 33 56.50	−03 00 17.8		4	809
1997 EE_{51}		1997 03 06.24861	12 33 55.83	−03 00 19.0		4	809
1997 EE_{51}		1997 03 06.26181	12 33 55.09	−03 00 21.9		4	809
1997 EF_{51}	*	1997 03 05.22431	12 34 46.90	−05 34 08.6	19.0	4	809
1997 EF_{51}		1997 03 05.23750	12 34 46.42	−05 34 04.3		4	809
1997 EF_{51}		1997 03 05.25069	12 34 46.00	−05 34 00.5		4	809
1997 EF_{51}		1997 03 06.23542	12 34 14.23	−05 28 38.8		4	809
1997 EF_{51}		1997 03 06.24861	12 34 13.84	−05 28 35.0		4	809
1997 EF_{51}		1997 03 06.26181	12 34 13.37	−05 28 31.0		4	809
1997 EG_{51}	*	1997 03 05.22431	12 34 57.22	−04 53 40.2	18.5	4	809
1997 EG_{51}		1997 03 05.23750	12 34 56.75	−04 53 38.3		4	809
1997 EG_{51}		1997 03 05.25069	12 34 56.17	−04 53 36.8		4	809
1997 EG_{51}		1997 03 06.23542	12 34 18.01	−04 51 07.0		4	809
1997 EG_{51}		1997 03 06.24861	12 34 17.49	−04 51 05.2		4	809
1997 EG_{51}		1997 03 06.26181	12 34 16.90	−04 51 03.6		4	809
1997 EH_{51}	*	1997 03 05.22431	12 36 37.39	−02 33 31.1	18.5	4	809
1997 EH_{51}		1997 03 05.23750	12 36 36.87	−02 33 26.3		4	809
1997 EH_{51}		1997 03 05.25069	12 36 36.26	−02 33 19.5		4	809
1997 EH_{51}		1997 03 06.23542	12 35 56.02	−02 26 25.0		4	809
1997 EH_{51}		1997 03 06.24861	12 35 55.57	−02 26 19.4		4	809
1997 EH_{51}		1997 03 06.26181	12 35 54.99	−02 26 14.0		4	809
1997 EJ_{51}	*	1997 03 05.22431	12 36 43.68	−03 55 04.4	18.7	4	809
1997 EJ_{51}		1997 03 05.23750	12 36 42.97	−03 55 01.3		4	809
1997 EJ_{51}		1997 03 05.25069	12 36 42.34	−03 54 59.0		4	809
1997 EJ_{51}		1997 03 06.23542	12 35 56.05	−03 51 06.0		4	809
1997 EJ_{51}		1997 03 06.24861	12 35 55.40	−03 51 03.2		4	809
1997 EJ_{51}		1997 03 06.26181	12 35 54.70	−03 50 58.8		4	809
1997 EK_{51}	*	1997 03 05.22431	12 37 04.17	−03 52 07.6	18.8	4	809
1997 EK_{51}		1997 03 05.23750	12 37 03.66	−03 52 05.0		4	809
1997 EK_{51}		1997 03 05.25069	12 37 03.20	−03 52 02.2		4	809
1997 EK_{51}		1997 03 06.23542	12 36 25.54	−03 48 35.7		4	809
1997 EK_{51}		1997 03 06.24861	12 36 25.02	−03 48 33.3		4	809
1997 EK_{51}		1997 03 06.26181	12 36 24.46	−03 48 29.5		4	809
1997 EL_{51}	*	1997 03 05.22431	12 37 12.56	−06 40 56.3	18.7	4	809
1997 EL_{51}		1997 03 05.23750	12 37 12.05	−06 40 54.6		4	809
1997 EL_{51}		1997 03 05.25069	12 37 11.52	−06 40 53.5		4	809
1997 EL_{51}		1997 03 06.23542	12 36 36.30	−06 38 16.3		4	809
1997 EL_{51}		1997 03 06.24861	12 36 35.63	−06 38 14.2		4	809
1997 EL_{51}		1997 03 06.26181	12 36 35.09	−06 38 12.5		4	809
1997 EM_{51}	*	1997 03 05.22431	12 37 12.75	−06 54 41.0	18.4	4	809
1997 EM_{51}		1997 03 05.23750	12 37 12.15	−06 54 41.3		4	809
1997 EM_{51}		1997 03 05.25069	12 37 11.54	−06 54 41.5		4	809
1997 EM_{51}		1997 03 06.23542	12 36 26.92	−06 54 41.0		4	809
1997 EM_{51}		1997 03 06.24861	12 36 26.23	−06 54 40.9		4	809
1997 EM_{51}		1997 03 06.26181	12 36 25.59	−06 54 40.7		4	809
1997 EN_{51}	*	1997 03 05.22431	12 37 22.93	−03 30 32.8	18.5	4	809
1997 EN_{51}		1997 03 05.23750	12 37 22.42	−03 30 29.9		4	809
1997 EN_{51}		1997 03 05.25069	12 37 22.01	−03 30 27.5		4	809
1997 EN_{51}		1997 03 06.23542	12 36 49.81	−03 27 06.0		4	809
1997 EN_{51}		1997 03 06.24861	12 36 49.37	−03 27 03.1		4	809
1997 EN_{51}		1997 03 06.26181	12 36 48.88	−03 27 00.2		4	809
1997 EO_{51}	*	1997 03 05.22431	12 37 58.98	−07 03 09.0	18.4	4	809
1997 EO_{51}		1997 03 05.23750	12 37 58.48	−07 03 04.9		4	809
1997 EO_{51}		1997 03 05.25069	12 37 57.93	−07 03 01.5		4	809
1997 EO_{51}		1997 03 06.23542	12 37 21.02	−06 58 06.0		4	809
1997 EO_{51}		1997 03 06.24861	12 37 20.52	−06 58 03.0		4	809
1997 EO_{51}		1997 03 06.26181	12 37 19.98	−06 57 58.1		4	809

1997 EO_{51}		1997 03 08.24792	12 36 01.82	−06 47 33.4	18.3	4	809
1997 EO_{51}		1997 03 08.26111	12 36 01.26	−06 47 28.8		4	809
1997 EO_{51}		1997 03 08.27431	12 36 00.69	−06 47 24.9		4	809
1997 EP_{51}	*	1997 03 05.22431	12 38 00.31	−03 51 08.4	18.5	4	809
1997 EP_{51}		1997 03 05.23750	12 37 59.69	−03 51 06.4		4	809
1997 EP_{51}		1997 03 05.25069	12 37 59.11	−03 51 05.7		4	809
1997 EP_{51}		1997 03 06.23542	12 37 18.47	−03 48 52.4		4	809
1997 EP_{51}		1997 03 06.24861	12 37 17.91	−03 48 50.9		4	809
1997 EP_{51}		1997 03 06.26181	12 37 17.33	−03 48 48.9		4	809
1997 EP_{51}		1997 03 08.24792	12 35 51.96	−03 44 04.8		4	809
1997 EP_{51}		1997 03 08.26111	12 35 51.38	−03 44 02.0		4	809
1997 EP_{51}		1997 03 08.27431	12 35 50.76	−03 44 00.5		4	809
1997 EP_{51}		1997 03 09.26944	12 35 06.03	−03 41 30.7	18.5	4	809
1997 EP_{51}		1997 03 09.28264	12 35 05.42	−03 41 29.2		4	809
1997 EP_{51}		1997 03 09.29583	12 35 04.79	−03 41 26.9		4	809
1997 EQ_{51}	*	1997 03 05.22431	12 38 07.86	−05 33 29.2	18.6	4	809
1997 EQ_{51}		1997 03 05.23750	12 38 07.20	−05 33 24.9		4	809
1997 EQ_{51}		1997 03 05.25069	12 38 06.62	−05 33 21.0		4	809
1997 EQ_{51}		1997 03 06.23542	12 37 23.16	−05 28 27.6		4	809
1997 EQ_{51}		1997 03 06.24861	12 37 22.50	−05 28 24.4		4	809
1997 EQ_{51}		1997 03 06.26181	12 37 21.85	−05 28 20.3		4	809
1997 ER_{51}	*	1997 03 05.22431	12 38 09.94	−06 12 50.1	18.7	4	809
1997 ER_{51}		1997 03 05.23750	12 38 09.32	−06 12 49.3		4	809
1997 ER_{51}		1997 03 05.25069	12 38 08.76	−06 12 49.2		4	809
1997 ER_{51}		1997 03 06.23542	12 37 27.33	−06 12 14.2		4	809
1997 ER_{51}		1997 03 06.24861	12 37 26.73	−06 12 14.5		4	809
1997 ER_{51}		1997 03 06.26181	12 37 26.16	−06 12 14.5		4	809
1997 ES_{51}	*	1997 03 05.22431	12 38 26.82	−04 17 47.0	18.5	4	809
1997 ES_{51}		1997 03 05.23750	12 38 26.31	−04 17 44.4		4	809
1997 ES_{51}		1997 03 05.25069	12 38 25.76	−04 17 41.4		4	809
1997 ES_{51}		1997 03 06.23542	12 37 48.51	−04 14 15.3		4	809
1997 ES_{51}		1997 03 06.24861	12 37 48.00	−04 14 11.8		4	809
1997 ES_{51}		1997 03 06.26181	12 37 47.50	−04 14 09.5		4	809
1997 ET_{51}	*	1997 03 05.22431	12 38 45.87	−03 31 07.2	19.3	4	809
1997 ET_{51}		1997 03 05.23750	12 38 45.15	−03 31 06.7		4	809
1997 ET_{51}		1997 03 05.25069	12 38 44.36	−03 31 07.9		4	809
1997 ET_{51}		1997 03 06.23542	12 37 53.60	−03 29 59.8		4	809
1997 ET_{51}		1997 03 06.24861	12 37 52.83	−03 29 58.5		4	809
1997 ET_{51}		1997 03 06.26181	12 37 52.16	−03 29 57.6		4	809
1997 EU_{51}	*	1997 03 05.22431	12 38 51.68	−03 27 37.8	18.5	4	809
1997 EU_{51}		1997 03 05.23750	12 38 51.19	−03 27 32.8		4	809
1997 EU_{51}		1997 03 05.25069	12 38 50.65	−03 27 27.6		4	809
1997 EU_{51}		1997 03 06.23542	12 38 13.06	−03 20 39.0		4	809
1997 EU_{51}		1997 03 06.24861	12 38 12.62	−03 20 34.0		4	809
1997 EU_{51}		1997 03 06.26181	12 38 12.03	−03 20 28.4		4	809
1997 EU_{51}		1997 03 08.24792	12 36 53.38	−03 06 26.8		4	809
1997 EU_{51}		1997 03 08.26111	12 36 52.85	−03 06 21.7		4	809
1997 EU_{51}		1997 03 08.27431	12 36 52.31	−03 06 15.9		4	809
1997 EU_{51}		1997 03 09.26944	12 36 11.36	−02 59 09.0	18.3	4	809
1997 EU_{51}		1997 03 09.28264	12 36 10.81	−02 59 03.4		4	809
1997 EU_{51}		1997 03 09.29583	12 36 10.24	−02 58 57.9		4	809
1997 EV_{51}	*	1997 03 08.24792	12 37 45.98	−03 41 56.7		4	809
1997 EV_{51}		1997 03 08.26111	12 37 45.44	−03 41 54.3		4	809
1997 EV_{51}		1997 03 08.27431	12 37 44.91	−03 41 52.3		4	809
1997 EV_{51}		1997 03 09.26944	12 37 05.17	−03 38 58.9	18.5	4	809
1997 EV_{51}		1997 03 09.28264	12 37 04.59	−03 38 56.9		4	809
1997 EV_{51}		1997 03 09.29583	12 37 04.02	−03 38 54.3		4	809
1997 EW_{51}	*	1997 03 08.24792	12 37 49.00	−03 17 12.2		4	809
1997 EW_{51}		1997 03 08.26111	12 37 48.49	−03 17 05.6		4	809
1997 EW_{51}		1997 03 08.27431	12 37 48.00	−03 16 58.7		4	809
1997 EW_{51}		1997 03 09.26944	12 37 12.59	−03 09 13.3	18.5	4	809
1997 EW_{51}		1997 03 09.28264	12 37 12.08	−03 09 08.3		4	809
1997 EW_{51}		1997 03 09.29583	12 37 11.52	−03 09 02.1		4	809
1997 EX_{51}	*	1997 03 08.24792	12 38 32.82	−02 40 45.8		4	809
1997 EX_{51}		1997 03 08.26111	12 38 32.15	−02 40 44.0		4	809
1997 EX_{51}		1997 03 08.27431	12 38 31.43	−02 40 43.2		4	809
1997 EX_{51}		1997 03 09.26944	12 37 42.26	−02 39 00.2	18.7	4	809
1997 EX_{51}		1997 03 09.28264	12 37 41.54	−02 38 59.4		4	809
1997 EX_{51}		1997 03 09.29583	12 37 40.87	−02 38 58.6		4	809
1997 EY_{51}	*	1997 03 08.24792	12 38 50.29	−05 33 58.5		4	809
1997 EY_{51}		1997 03 08.26111	12 38 49.75	−05 33 57.1		4	809
1997 EY_{51}		1997 03 08.27431	12 38 49.27	−05 33 55.0		4	809
1997 EY_{51}		1997 03 09.26944	12 38 12.30	−05 30 10.9	20.0	4	809
1997 EY_{51}		1997 03 09.28264	12 38 11.76	−05 30 08.3		4	809
1997 EY_{51}		1997 03 09.29583	12 38 11.20	−05 30 05.7		4	809
1997 EZ_{51}	*	1997 03 08.24792	12 38 58.70	−05 54 24.8		4	809
1997 EZ_{51}		1997 03 08.26111	12 38 58.05	−05 54 25.6		4	809
1997 EZ_{51}		1997 03 08.27431	12 38 57.29	−05 54 27.3		4	809
1997 EZ_{51}		1997 03 09.26944	12 38 06.92	−05 55 28.0	18.5	4	809
1997 EZ_{51}		1997 03 09.28264	12 38 06.16	−05 55 28.5		4	809
1997 EZ_{51}		1997 03 09.29583	12 38 05.44	−05 55 29.2		4	809
1997 EA_{52}	*	1997 03 08.24792	12 39 08.96	−03 49 06.8		4	809
1997 EA_{52}		1997 03 08.26111	12 39 08.05	−03 49 11.0		4	809
1997 EA_{52}		1997 03 08.27431	12 39 07.22	−03 49 15.4		4	809
1997 EA_{52}		1997 03 09.26944	12 38 05.85	−03 54 21.1	18.3	4	809
1997 EA_{52}		1997 03 09.28264	12 38 05.06	−03 54 25.0		4	809
1997 EA_{52}		1997 03 09.29583	12 38 04.20	−03 54 28.7		4	809
1997 EB_{52}	*	1997 03 08.24792	12 39 37.65	−02 59 54.9		4	809
1997 EB_{52}		1997 03 08.26111	12 39 36.98	−02 59 52.9		4	809
1997 EB_{52}		1997 03 08.27431	12 39 36.30	−02 59 51.0		4	809
1997 EB_{52}		1997 03 09.26944	12 38 48.18	−02 57 26.3	18.5	4	809
1997 EB_{52}		1997 03 09.28264	12 38 47.52	−02 57 24.3		4	809
1997 EB_{52}		1997 03 09.29583	12 38 46.87	−02 57 23.2		4	809
1997 EC_{52}	*	1997 03 08.24792	12 40 06.82	−05 32 46.9		4	809
1997 EC_{52}		1997 03 08.26111	12 40 06.02	−05 32 45.9		4	809
1997 EC_{52}		1997 03 08.27431	12 40 05.42	−05 32 45.3		4	809
1997 EC_{52}		1997 03 09.26944	12 39 13.96	−05 31 00.7	18.5	4	809
1997 EC_{52}		1997 03 09.28264	12 39 13.22	−05 31 00.0		4	809
1997 EC_{52}		1997 03 09.29583	12 39 12.49	−05 30 58.2		4	809
1997 ED_{52}	*	1997 03 08.24792	12 40 25.92	−05 43 08.9		4	809
1997 ED_{52}		1997 03 08.26111	12 40 25.26	−05 43 11.0		4	809
1997 ED_{52}		1997 03 08.27431	12 40 24.65	−05 43 11.5		4	809
1997 ED_{52}		1997 03 09.26944	12 39 41.06	−05 43 50.3	18.5	4	809
1997 ED_{52}		1997 03 09.28264	12 39 40.44	−05 43 51.2		4	809

1997 ED_{52}		1997 03 09.29583	12 39 39.84	−05 43 51.7		4	809
1997 EE_{52}	*	1997 03 08.24792	12 40 32.65	−05 48 45.8		4	809
1997 EE_{52}		1997 03 08.26111	12 40 32.07	−05 48 42.1		4	809
1997 EE_{52}		1997 03 08.27431	12 40 31.48	−05 48 38.3		4	809
1997 EE_{52}		1997 03 09.26944	12 39 51.12	−05 43 28.2	18.4	4	809
1997 EE_{52}		1997 03 09.28264	12 39 50.56	−05 43 23.9		4	809
1997 EE_{52}		1997 03 09.29583	12 39 49.98	−05 43 20.9		4	809
1997 EF_{52}	*	1997 03 08.24792	12 40 41.90	−05 02 03.9		4	809
1997 EF_{52}		1997 03 08.26111	12 40 41.42	−05 02 01.5		4	809
1997 EF_{52}		1997 03 08.27431	12 40 40.93	−05 01 58.7		4	809
1997 EF_{52}		1997 03 09.26944	12 40 06.91	−04 58 21.9	18.5	4	809
1997 EF_{52}		1997 03 09.28264	12 40 06.43	−04 58 20.0		4	809
1997 EF_{52}		1997 03 09.29583	12 40 05.95	−04 58 16.8		4	809
1997 EG_{52}	*	1997 03 08.24792	12 41 01.31	−03 21 44.7		4	809
1997 EG_{52}		1997 03 08.26111	12 41 00.76	−03 21 39.6		4	809
1997 EG_{52}		1997 03 08.27431	12 41 00.16	−03 21 34.4		4	809
1997 EG_{52}		1997 03 09.26944	12 40 20.07	−03 14 55.9	18.4	4	809
1997 EG_{52}		1997 03 09.28264	12 40 19.47	−03 14 51.3		4	809
1997 EG_{52}		1997 03 09.29583	12 40 18.91	−03 14 46.3		4	809
1997 EH_{52}	*	1997 03 08.24792	12 41 08.80	−02 25 03.8		4	809
1997 EH_{52}		1997 03 08.26111	12 41 08.20	−02 25 02.9		4	809
1997 EH_{52}		1997 03 08.27431	12 41 07.61	−02 25 01.7		4	809
1997 EH_{52}		1997 03 09.26944	12 40 25.60	−02 23 24.4	18.7	4	809
1997 EH_{52}		1997 03 09.28264	12 40 24.96	−02 23 22.3		4	809
1997 EH_{52}		1997 03 09.29583	12 40 24.42	−02 23 21.2		4	809
1997 EJ_{52}	*	1997 03 08.24792	12 41 46.57	−05 26 03.1		4	809
1997 EJ_{52}		1997 03 08.26111	12 41 45.94	−05 26 03.1		4	809
1997 EJ_{52}		1997 03 08.27431	12 41 45.32	−05 26 02.5		4	809
1997 EJ_{52}		1997 03 09.26944	12 41 01.01	−05 25 33.3	18.0	4	809
1997 EJ_{52}		1997 03 09.28264	12 41 00.39	−05 25 33.6		4	809
1997 EJ_{52}		1997 03 09.29583	12 40 59.76	−05 25 32.8		4	809
1997 EK_{52}	*	1997 03 08.24792	12 41 49.33	−04 22 39.5		4	809
1997 EK_{52}		1997 03 08.26111	12 41 48.80	−04 22 35.9		4	809
1997 EK_{52}		1997 03 08.27431	12 41 48.33	−04 22 32.2		4	809
1997 EK_{52}		1997 03 09.26944	12 41 13.52	−04 17 13.2	18.6	4	809
1997 EK_{52}		1997 03 09.28264	12 41 12.98	−04 17 08.6		4	809
1997 EK_{52}		1997 03 09.29583	12 41 12.50	−04 17 05.1		4	809
1997 EL_{52}	*	1997 03 08.24792	12 41 50.67	−03 20 15.3		4	809
1997 EL_{52}		1997 03 08.26111	12 41 50.05	−03 20 10.9		4	809
1997 EL_{52}		1997 03 08.27431	12 41 49.49	−03 20 08.2		4	809
1997 EL_{52}		1997 03 09.26944	12 41 11.05	−03 15 59.2	18.5	4	809
1997 EL_{52}		1997 03 09.28264	12 41 10.49	−03 15 55.7		4	809
1997 EL_{52}		1997 03 09.29583	12 41 09.91	−03 15 52.3		4	809
1997 EM_{52}	*	1997 03 08.24792	12 41 55.94	−03 02 14.8		4	809
1997 EM_{52}		1997 03 08.26111	12 41 55.50	−03 02 08.7		4	809
1997 EM_{52}		1997 03 08.27431	12 41 54.99	−03 02 02.8		4	809
1997 EM_{52}		1997 03 09.26944	12 41 20.41	−02 54 20.8	18.5	4	809
1997 EM_{52}		1997 03 09.28264	12 41 19.92	−02 54 14.5		4	809
1997 EM_{52}		1997 03 09.29583	12 41 19.43	−02 54 08.5		4	809
1997 EN_{52}	*	1997 03 08.24792	12 42 15.62	−05 57 43.4		4	809
1997 EN_{52}		1997 03 08.26111	12 42 15.02	−05 57 39.6		4	809
1997 EN_{52}		1997 03 08.27431	12 42 14.36	−05 57 35.7		4	809
1997 EN_{52}		1997 03 09.26944	12 41 30.66	−05 52 11.0	18.4	4	809
1997 EN_{52}		1997 03 09.28264	12 41 30.10	−05 52 06.5		4	809
1997 EN_{52}		1997 03 09.29583	12 41 29.45	−05 52 03.0		4	809
1997 EO_{52}	*	1997 03 08.24792	12 42 26.35	−02 30 08.9		4	809
1997 EO_{52}		1997 03 08.26111	12 42 25.78	−02 30 07.6		4	809
1997 EO_{52}		1997 03 08.27431	12 42 25.22	−02 30 06.2		4	809
1997 EO_{52}		1997 03 09.26944	12 41 43.40	−02 27 49.7	18.5	4	809
1997 EO_{52}		1997 03 09.28264	12 41 42.84	−02 27 47.7		4	809
1997 EO_{52}		1997 03 09.29583	12 41 42.26	−02 27 46.6		4	809
1997 EP_{52}	*	1997 03 08.24792	12 42 43.00	−03 57 12.0		4	809
1997 EP_{52}		1997 03 08.26111	12 42 42.41	−03 57 10.3		4	809
1997 EP_{52}		1997 03 08.27431	12 42 41.79	−03 57 07.9		4	809
1997 EP_{52}		1997 03 09.26944	12 42 00.99	−03 54 29.6	18.6	4	809
1997 EP_{52}		1997 03 09.28264	12 42 00.43	−03 54 28.5		4	809
1997 EP_{52}		1997 03 09.29583	12 41 59.83	−03 54 26.3		4	809
1997 EQ_{52}	*	1997 03 08.24792	12 42 55.52	−05 25 38.2		4	809
1997 EQ_{52}		1997 03 08.26111	12 42 54.97	−05 25 34.0		4	809
1997 EQ_{52}		1997 03 08.27431	12 42 54.38	−05 25 30.3		4	809
1997 EQ_{52}		1997 03 09.26944	12 42 15.22	−05 20 44.6	18.3	4	809
1997 EQ_{52}		1997 03 09.28264	12 42 14.66	−05 20 39.9		4	809
1997 EQ_{52}		1997 03 09.29583	12 42 14.10	−05 20 36.9		4	809
1997 ER_{52}	*	1997 03 08.24792	12 43 19.72	−04 47 01.4		4	809
1997 ER_{52}		1997 03 08.26111	12 43 19.20	−04 46 58.6		4	809
1997 ER_{52}		1997 03 08.27431	12 43 18.64	−04 46 57.0		4	809
1997 ER_{52}		1997 03 09.26944	12 42 35.74	−04 43 30.3	18.4	4	809
1997 ER_{52}		1997 03 09.28264	12 42 35.12	−04 43 27.6		4	809
1997 ER_{52}		1997 03 09.29583	12 42 34.49	−04 43 24.8		4	809
1997 ES_{52}	*	1997 03 08.24792	12 44 37.71	−05 06 18.0		4	809
1997 ES_{52}		1997 03 08.26111	12 44 37.20	−05 06 16.0		4	809
1997 ES_{52}		1997 03 08.27431	12 44 36.71	−05 06 14.8		4	809
1997 ES_{52}		1997 03 09.26944	12 43 58.94	−05 04 01.1	18.6	4	809
1997 ES_{52}		1997 03 09.28264	12 43 58.43	−05 03 59.4		4	809
1997 ES_{52}		1997 03 09.29583	12 43 57.82	−05 03 57.8		4	809
1997 ET_{52}	*	1997 03 08.24792	12 44 48.14	−04 42 18.1		4	809
1997 ET_{52}		1997 03 08.26111	12 44 47.45	−04 42 15.4		4	809
1997 ET_{52}		1997 03 08.27431	12 44 46.83	−04 42 12.9		4	809
1997 ET_{52}		1997 03 09.26944	12 43 59.28	−04 39 05.9	18.4	4	809
1997 ET_{52}		1997 03 09.28264	12 43 58.68	−04 39 03.1		4	809
1997 ET_{52}		1997 03 09.29583	12 43 58.00	−04 39 01.0		4	809
1997 EU_{52}	*	1997 03 08.24792	12 45 07.62	−03 15 18.9		4	809
1997 EU_{52}		1997 03 08.26111	12 45 07.10	−03 15 14.1		4	809
1997 EU_{52}		1997 03 08.27431	12 45 06.50	−03 15 10.0		4	809
1997 EU_{52}		1997 03 09.26944	12 44 21.34	−03 08 54.8	18.6	4	809
1997 EU_{52}		1997 03 09.28264	12 44 20.71	−03 08 50.5		4	809
1997 EU_{52}		1997 03 09.29583	12 44 20.11	−03 08 46.1		4	809
1997 EV_{52}	*	1997 03 08.24792	12 45 11.37	−02 34 13.6		4	809
1997 EV_{52}		1997 03 08.26111	12 45 10.82	−02 34 12.6		4	809
1997 EV_{52}		1997 03 08.27431	12 45 10.08	−02 34 09.8		4	809
1997 EV_{52}		1997 03 09.26944	12 44 22.13	−02 31 45.6	18.4	4	809
1997 EV_{52}		1997 03 09.28264	12 44 21.47	−02 31 43.7		4	809
1997 EV_{52}		1997 03 09.29583	12 44 20.82	−02 31 41.4		4	809
1997 EW_{52}	*	1997 03 08.24792	12 45 19.59	−04 26 33.7		4	809

1997 EW_{52}		1997 03 08.26111	12 45 19.04	−04 26 30.2		4	809
1997 EW_{52}		1997 03 08.27431	12 45 18.58	−04 26 27.1		4	809
1997 EW_{52}		1997 03 09.26944	12 44 42.81	−04 22 16.1	18.5	4	809
1997 EW_{52}		1997 03 09.28264	12 44 42.26	−04 22 13.0		4	809
1997 EW_{52}		1997 03 09.29583	12 44 41.76	−04 22 10.4		4	809
1997 EX_{52}	*	1997 03 08.24792	12 45 23.15	−03 29 35.0		4	809
1997 EX_{52}		1997 03 08.26111	12 45 22.49	−03 29 34.1		4	809
1997 EX_{52}		1997 03 08.27431	12 45 21.78	−03 29 33.7		4	809
1997 EX_{52}		1997 03 09.26944	12 44 32.15	−03 28 35.9	18.4	4	809
1997 EX_{52}		1997 03 09.28264	12 44 31.45	−03 28 35.2		4	809
1997 EX_{52}		1997 03 09.29583	12 44 30.78	−03 28 34.5		4	809
1997 EY_{52}	*	1997 03 08.24792	12 45 23.57	−03 24 17.5		4	809
1997 EY_{52}		1997 03 08.26111	12 45 23.09	−03 24 13.9		4	809
1997 EY_{52}		1997 03 08.27431	12 45 22.60	−03 24 11.1		4	809
1997 EY_{52}		1997 03 09.26944	12 44 48.42	−03 20 18.9	18.5	4	809
1997 EY_{52}		1997 03 09.28264	12 44 47.92	−03 20 16.5		4	809
1997 EY_{52}		1997 03 09.29583	12 44 47.44	−03 20 13.3		4	809
1997 EZ_{52}	*	1997 03 08.24792	12 45 24.55	−03 14 03.4		4	809
1997 EZ_{52}		1997 03 08.26111	12 45 23.86	−03 14 03.6		4	809
1997 EZ_{52}		1997 03 08.27431	12 45 23.12	−03 14 02.7		4	809
1997 EZ_{52}		1997 03 09.26944	12 44 37.74	−03 13 20.7	18.5	4	809
1997 EZ_{52}		1997 03 09.28264	12 44 37.02	−03 13 19.4		4	809
1997 EZ_{52}		1997 03 09.29583	12 44 36.40	−03 13 19.4		4	809
1997 EA_{53}	*	1997 03 08.24792	12 45 34.13	−05 44 59.8		4	809
1997 EA_{53}		1997 03 08.26111	12 45 33.51	−05 44 57.9		4	809
1997 EA_{53}		1997 03 08.27431	12 45 32.82	−05 44 55.1		4	809
1997 EA_{53}		1997 03 09.26944	12 44 43.54	−05 41 51.1	18.6	4	809
1997 EA_{53}		1997 03 09.28264	12 44 42.75	−05 41 49.2		4	809
1997 EA_{53}		1997 03 09.29583	12 44 42.12	−05 41 45.5		4	809
1997 EB_{53}	*	1997 03 08.24792	12 45 34.76	−03 44 10.5		4	809
1997 EB_{53}		1997 03 08.26111	12 45 34.22	−03 44 04.6		4	809
1997 EB_{53}		1997 03 08.27431	12 45 33.66	−03 43 58.9		4	809
1997 EB_{53}		1997 03 09.26944	12 44 56.05	−03 36 35.5	18.4	4	809
1997 EB_{53}		1997 03 09.28264	12 44 55.49	−03 36 30.1		4	809
1997 EB_{53}		1997 03 09.29583	12 44 54.95	−03 36 24.0		4	809
1997 EC_{53}	*	1997 03 08.24792	12 45 45.17	−04 06 36.6		4	809
1997 EC_{53}		1997 03 08.26111	12 45 44.61	−04 06 33.3		4	809
1997 EC_{53}		1997 03 08.27431	12 45 44.06	−04 06 29.0		4	809
1997 EC_{53}		1997 03 09.26944	12 45 06.95	−04 01 07.8	18.7	4	809
1997 EC_{53}		1997 03 09.28264	12 45 06.50	−04 01 05.1		4	809
1997 EC_{53}		1997 03 09.29583	12 45 05.88	−04 01 00.1		4	809
1997 ED_{53}	*	1997 03 08.24792	12 45 58.26	−06 03 27.4		4	809
1997 ED_{53}		1997 03 08.26111	12 45 57.78	−06 03 25.7		4	809
1997 ED_{53}		1997 03 08.27431	12 45 57.20	−06 03 22.6		4	809
1997 ED_{53}		1997 03 09.26944	12 45 20.21	−05 59 52.6	18.4	4	809
1997 ED_{53}		1997 03 09.28264	12 45 19.65	−05 59 50.3		4	809
1997 ED_{53}		1997 03 09.29583	12 45 19.12	−05 59 46.9		4	809
1997 EE_{53}	*	1997 03 08.24792	12 45 59.26	−06 21 07.6		4	809
1997 EE_{53}		1997 03 08.26111	12 45 58.63	−06 21 04.9		4	809
1997 EE_{53}		1997 03 08.27431	12 45 57.87	−06 21 02.9		4	809
1997 EE_{53}		1997 03 09.26944	12 45 09.12	−06 18 04.8	18.8	4	809
1997 EE_{53}		1997 03 09.28264	12 45 08.28	−06 18 03.2		4	809
1997 EE_{53}		1997 03 09.29583	12 45 07.77	−06 18 00.6		4	809
1997 EF_{53}	*	1997 03 08.24792	12 46 04.44	−06 29 33.0		4	809
1997 EF_{53}		1997 03 08.26111	12 46 03.91	−06 29 29.0		4	809
1997 EF_{53}		1997 03 08.27431	12 46 03.41	−06 29 23.8		4	809
1997 EF_{53}		1997 03 09.26944	12 45 27.34	−06 21 55.1	18.8	4	809
1997 EF_{53}		1997 03 09.28264	12 45 26.76	−06 21 49.8		4	809
1997 EF_{53}		1997 03 09.29583	12 45 26.32	−06 21 43.6		4	809
1997 EG_{53}	*	1997 03 08.24792	12 46 18.67	−05 43 03.8		4	809
1997 EG_{53}		1997 03 08.26111	12 46 18.18	−05 42 56.5		4	809
1997 EG_{53}		1997 03 08.27431	12 46 17.66	−05 42 51.0		4	809
1997 EG_{53}		1997 03 09.26944	12 45 42.61	−05 34 47.3	18.6	4	809
1997 EG_{53}		1997 03 09.28264	12 45 42.14	−05 34 41.5		4	809
1997 EG_{53}		1997 03 09.29583	12 45 41.57	−05 34 34.9		4	809
1997 EH_{53}	*	1997 03 08.24792	12 46 45.48	−02 19 50.8		4	809
1997 EH_{53}		1997 03 08.26111	12 46 44.86	−02 19 49.6		4	809
1997 EH_{53}		1997 03 08.27431	12 46 44.23	−02 19 48.1		4	809
1997 EH_{53}		1997 03 09.26944	12 45 58.93	−02 18 26.0	18.1	4	809
1997 EH_{53}		1997 03 09.28264	12 45 58.30	−02 18 24.9		4	809
1997 EH_{53}		1997 03 09.29583	12 45 57.65	−02 18 24.5		4	809
1997 EJ_{53}	*	1997 03 08.24792	12 46 46.77	−05 44 55.1		4	809
1997 EJ_{53}		1997 03 08.26111	12 46 46.32	−05 44 49.5		4	809
1997 EJ_{53}		1997 03 08.27431	12 46 45.85	−05 44 43.6		4	809
1997 EJ_{53}		1997 03 09.26944	12 46 13.07	−05 37 06.0	18.5	4	809
1997 EJ_{53}		1997 03 09.28264	12 46 12.65	−05 37 00.5		4	809
1997 EJ_{53}		1997 03 09.29583	12 46 12.12	−05 36 55.1		4	809
1997 EK_{53}	*	1997 03 08.24792	12 47 06.52	−03 50 59.8		4	809
1997 EK_{53}		1997 03 08.26111	12 47 05.92	−03 50 57.5		4	809
1997 EK_{53}		1997 03 08.27431	12 47 05.30	−03 50 55.4		4	809
1997 EK_{53}		1997 03 09.26944	12 46 24.25	−03 47 48.3	18.5	4	809
1997 EK_{53}		1997 03 09.28264	12 46 23.66	−03 47 46.4		4	809
1997 EK_{53}		1997 03 09.29583	12 46 23.06	−03 47 43.3		4	809
1997 EL_{53}	*	1997 03 08.24792	12 47 12.23	−04 46 25.7		4	809
1997 EL_{53}		1997 03 08.26111	12 47 11.61	−04 46 25.3		4	809
1997 EL_{53}		1997 03 08.27431	12 47 11.00	−04 46 25.0		4	809
1997 EL_{53}		1997 03 09.26944	12 46 27.64	−04 45 53.7	18.3	4	809
1997 EL_{53}		1997 03 09.28264	12 46 27.01	−04 45 53.6		4	809
1997 EL_{53}		1997 03 09.29583	12 46 26.38	−04 45 53.6		4	809
1997 EM_{53}	*	1997 03 08.24792	12 48 04.46	−04 26 58.5		4	809
1997 EM_{53}		1997 03 08.26111	12 48 03.99	−04 26 55.3		4	809
1997 EM_{53}		1997 03 08.27431	12 48 03.44	−04 26 52.1		4	809
1997 EM_{53}		1997 03 09.26944	12 47 29.93	−04 23 08.6	18.5	4	809
1997 EM_{53}		1997 03 09.28264	12 47 29.44	−04 23 05.1		4	809
1997 EM_{53}		1997 03 09.29583	12 47 28.94	−04 23 03.4		4	809
1997 EN_{53}	*	1997 03 08.24792	12 48 11.56	−02 54 47.5		4	809
1997 EN_{53}		1997 03 08.26111	12 48 10.81	−02 54 48.3		4	809
1997 EN_{53}		1997 03 08.27431	12 48 10.20	−02 54 49.3		4	809
1997 EN_{53}		1997 03 09.26944	12 47 20.92	−02 56 47.9	18.5	4	809
1997 EN_{53}		1997 03 09.28264	12 47 20.20	−02 56 49.6		4	809
1997 EN_{53}		1997 03 09.29583	12 47 19.54	−02 56 50.7		4	809
1997 EO_{53}	*	1997 03 08.24792	12 48 13.71	−04 40 36.4		4	809
1997 EO_{53}		1997 03 08.26111	12 48 13.19	−04 40 35.2		4	809
1997 EO_{53}		1997 03 08.27431	12 48 12.59	−04 40 34.0		4	809

1997 EO_{53}		1997 03 09.26944	12 47 32.18	−04 39 33.3	18.5	4	809
1997 EO_{53}		1997 03 09.28264	12 47 31.61	−04 39 33.2		4	809
1997 EO_{53}		1997 03 09.29583	12 47 31.01	−04 39 32.7		4	809
1997 EP_{53}	*	1997 03 08.24792	12 48 14.62	−03 56 42.3		4	809
1997 EP_{53}		1997 03 08.26111	12 48 13.75	−03 56 46.0		4	809
1997 EP_{53}		1997 03 08.27431	12 48 12.70	−03 56 50.9		4	809
1997 EP_{53}		1997 03 09.26944	12 47 07.09	−04 01 36.6	18.7	4	809
1997 EP_{53}		1997 03 09.28264	12 47 06.17	−04 01 40.4		4	809
1997 EP_{53}		1997 03 09.29583	12 47 05.31	−04 01 43.7		4	809
1997 EQ_{53}	*	1997 03 08.24792	12 48 18.68	−03 54 53.5		4	809
1997 EQ_{53}		1997 03 08.26111	12 48 18.04	−03 54 48.4		4	809
1997 EQ_{53}		1997 03 08.27431	12 48 17.46	−03 54 43.7		4	809
1997 EQ_{53}		1997 03 09.26944	12 47 32.67	−03 49 13.2	18.6	4	809
1997 EQ_{53}		1997 03 09.28264	12 47 32.05	−03 49 09.0		4	809
1997 EQ_{53}		1997 03 09.29583	12 47 31.40	−03 49 04.9		4	809
1997 ER_{53}	*	1997 03 08.24792	12 48 18.70	−04 00 07.6		4	809
1997 ER_{53}		1997 03 08.26111	12 48 18.26	−04 00 04.3		4	809
1997 ER_{53}		1997 03 08.27431	12 48 17.82	−03 59 59.2		4	809
1997 ER_{53}		1997 03 09.26944	12 47 43.72	−03 54 42.1	18.4	4	809
1997 ER_{53}		1997 03 09.28264	12 47 43.30	−03 54 37.9		4	809
1997 ER_{53}		1997 03 09.29583	12 47 42.72	−03 54 33.8		4	809
1997 ES_{53}	*	1997 03 08.24792	12 48 46.94	−02 28 46.6		4	809
1997 ES_{53}		1997 03 08.26111	12 48 46.50	−02 28 38.8		4	809
1997 ES_{53}		1997 03 08.27431	12 48 46.13	−02 28 32.5		4	809
1997 ES_{53}		1997 03 09.26944	12 48 17.47	−02 19 39.2	18.6	4	809
1997 ES_{53}		1997 03 09.28264	12 48 17.08	−02 19 32.4		4	809
1997 ES_{53}		1997 03 09.29583	12 48 16.69	−02 19 25.2		4	809
1997 ET_{53}	*	1997 03 08.24792	12 48 50.92	−03 02 08.1		4	809
1997 ET_{53}		1997 03 08.26111	12 48 50.24	−03 02 06.9		4	809
1997 ET_{53}		1997 03 08.27431	12 48 49.58	−03 02 08.1		4	809
1997 ET_{53}		1997 03 09.26944	12 47 58.26	−03 02 23.0	18.5	4	809
1997 ET_{53}		1997 03 09.28264	12 47 57.57	−03 02 23.1		4	809
1997 ET_{53}		1997 03 09.29583	12 47 56.91	−03 02 23.4		4	809
1997 EU_{53}	*	1997 03 08.24792	12 49 07.47	−03 51 07.1		4	809
1997 EU_{53}		1997 03 08.26111	12 49 06.94	−03 51 03.6		4	809
1997 EU_{53}		1997 03 08.27431	12 49 06.51	−03 50 59.7		4	809
1997 EU_{53}		1997 03 09.26944	12 48 30.43	−03 46 15.6	18.5	4	809
1997 EU_{53}		1997 03 09.28264	12 48 29.92	−03 46 13.1		4	809
1997 EU_{53}		1997 03 09.29583	12 48 29.43	−03 46 08.6		4	809
1997 EV_{53}	*	1997 03 08.24792	12 49 09.32	−05 07 04.9		4	809
1997 EV_{53}		1997 03 08.26111	12 49 08.67	−05 07 05.6		4	809
1997 EV_{53}		1997 03 08.27431	12 49 07.98	−05 07 06.8		4	809
1997 EV_{53}		1997 03 09.26944	12 48 20.88	−05 08 37.1	18.6	4	809
1997 EV_{53}		1997 03 09.28264	12 48 20.26	−05 08 39.4		4	809
1997 EV_{53}		1997 03 09.29583	12 48 19.57	−05 08 40.1		4	809
1997 EW_{53}	*	1997 03 08.24792	12 50 40.54	−04 08 47.8		4	809
1997 EW_{53}		1997 03 08.26111	12 50 39.89	−04 08 45.3		4	809
1997 EW_{53}		1997 03 08.27431	12 50 39.29	−04 08 42.1		4	809
1997 EW_{53}		1997 03 09.26944	12 49 54.72	−04 05 14.3	18.5	4	809
1997 EW_{53}		1997 03 09.28264	12 49 54.08	−04 05 12.0		4	809
1997 EW_{53}		1997 03 09.29583	12 49 53.47	−04 05 08.8		4	809
1997 EX_{53}	*	1997 03 08.24792	12 50 55.71	−04 12 43.3		4	809
1997 EX_{53}		1997 03 08.26111	12 50 54.99	−04 12 43.1		4	809
1997 EX_{53}		1997 03 08.27431	12 50 54.32	−04 12 42.6		4	809
1997 EX_{53}		1997 03 09.26944	12 50 03.81	−04 12 05.5	18.4	4	809
1997 EX_{53}		1997 03 09.28264	12 50 03.09	−04 12 04.6		4	809
1997 EX_{53}		1997 03 09.29583	12 50 02.42	−04 12 04.6		4	809
1997 EY_{53}	*	1997 03 08.24792	12 51 19.74	−05 29 16.3		4	809
1997 EY_{53}		1997 03 08.26111	12 51 19.09	−05 29 16.5		4	809
1997 EY_{53}		1997 03 08.27431	12 51 18.47	−05 29 16.3		4	809
1997 EY_{53}		1997 03 09.26944	12 50 33.01	−05 27 28.0	18.7	4	809
1997 EY_{53}		1997 03 09.28264	12 50 32.41	−05 27 26.3		4	809
1997 EY_{53}		1997 03 09.29583	12 50 31.76	−05 27 25.6		4	809
1997 EZ_{53}	*	1997 03 08.24792	12 51 34.08	−05 15 27.0		4	809
1997 EZ_{53}		1997 03 08.26111	12 51 33.48	−05 15 25.7		4	809
1997 EZ_{53}		1997 03 08.27431	12 51 32.87	−05 15 24.3		4	809
1997 EZ_{53}		1997 03 09.26944	12 50 48.05	−05 14 03.6	18.5	4	809
1997 EZ_{53}		1997 03 09.28264	12 50 47.49	−05 14 02.9		4	809
1997 EZ_{53}		1997 03 09.29583	12 50 46.87	−05 14 01.6		4	809
1997 EA_{54}	*	1997 03 08.24792	12 51 36.19	−03 00 07.4		4	809
1997 EA_{54}		1997 03 08.26111	12 51 35.64	−03 00 06.5		4	809
1997 EA_{54}		1997 03 08.27431	12 51 35.13	−03 00 06.2		4	809
1997 EA_{54}		1997 03 09.26944	12 50 54.53	−02 58 39.1	18.7	4	809
1997 EA_{54}		1997 03 09.28264	12 50 53.97	−02 58 38.8		4	809
1997 EA_{54}		1997 03 09.29583	12 50 53.39	−02 58 37.1		4	809
1997 EB_{54}	*	1997 03 08.24792	12 51 47.24	−05 44 37.0		4	809
1997 EB_{54}		1997 03 08.26111	12 51 46.73	−05 44 34.4		4	809
1997 EB_{54}		1997 03 08.27431	12 51 46.16	−05 44 32.1		4	809
1997 EB_{54}		1997 03 09.26944	12 51 05.33	−05 41 16.0	18.4	4	809
1997 EB_{54}		1997 03 09.28264	12 51 04.77	−05 41 12.5		4	809
1997 EB_{54}		1997 03 09.29583	12 51 04.20	−05 41 10.7		4	809
1997 EC_{54}	*	1997 03 08.24792	12 51 54.34	−04 26 15.7		4	809
1997 EC_{54}		1997 03 08.26111	12 51 53.89	−04 26 12.7		4	809
1997 EC_{54}		1997 03 08.27431	12 51 53.41	−04 26 09.6		4	809
1997 EC_{54}		1997 03 09.26944	12 51 22.72	−04 21 33.0	18.9	4	809
1997 EC_{54}		1997 03 09.28264	12 51 22.26	−04 21 29.2		4	809
1997 EC_{54}		1997 03 09.29583	12 51 21.84	−04 21 26.2		4	809
1997 ED_{54}	*	1997 03 08.24792	12 52 39.85	−03 05 33.4		4	809
1997 ED_{54}		1997 03 08.26111	12 52 39.23	−03 05 30.9		4	809
1997 ED_{54}		1997 03 08.27431	12 52 38.56	−03 05 28.6		4	809
1997 ED_{54}		1997 03 09.26944	12 51 53.30	−03 02 17.3	18.5	4	809
1997 ED_{54}		1997 03 09.28264	12 51 52.65	−03 02 14.2		4	809
1997 ED_{54}		1997 03 09.29583	12 51 52.00	−03 02 12.2		4	809
1997 EE_{54}	*	1997 03 08.24792	12 53 09.80	−05 29 32.7		4	809
1997 EE_{54}		1997 03 08.26111	12 53 09.41	−05 29 24.0		4	809
1997 EE_{54}		1997 03 08.27431	12 53 09.07	−05 29 17.5		4	809
1997 EE_{54}		1997 03 09.26944	12 52 42.30	−05 20 00.7	18.5	4	809
1997 EE_{54}		1997 03 09.28264	12 52 41.89	−05 19 52.9		4	809
1997 EE_{54}		1997 03 09.29583	12 52 41.55	−05 19 46.6		4	809
1997 EF_{54}	*	1997 03 08.24792	12 53 13.92	−05 26 46.5		4	809
1997 EF_{54}		1997 03 08.26111	12 53 13.49	−05 26 45.8		4	809
1997 EF_{54}		1997 03 08.27431	12 53 12.95	−05 26 44.5		4	809
1997 EF_{54}		1997 03 09.26944	12 52 36.51	−05 25 06.0	18.5	4	809
1997 EF_{54}		1997 03 09.28264	12 52 36.00	−05 25 05.1		4	809

1997 EF_{54}		1997 03 09.29583	12 52 35.49	−05 25 04.0		4	809
1997 EG_{54}	*	1997 03 08.24792	12 53 16.15	−02 49 54.2		4	809
1997 EG_{54}		1997 03 08.26111	12 53 15.44	−02 49 49.0		4	809
1997 EG_{54}		1997 03 08.27431	12 53 14.83	−02 49 46.2		4	809
1997 EG_{54}		1997 03 09.26944	12 52 28.95	−02 45 22.3	18.6	4	809
1997 EG_{54}		1997 03 09.28264	12 52 28.28	−02 45 18.6		4	809
1997 EG_{54}		1997 03 09.29583	12 52 27.63	−02 45 15.1		4	809
1997 EH_{54}	*	1997 03 08.24792	12 53 17.85	−05 40 45.2		4	809
1997 EH_{54}		1997 03 08.26111	12 53 17.34	−05 40 39.6		4	809
1997 EH_{54}		1997 03 08.27431	12 53 16.80	−05 40 34.4		4	809
1997 EH_{54}		1997 03 09.26944	12 52 41.29	−05 34 02.7	18.5	4	809
1997 EH_{54}		1997 03 09.28264	12 52 40.78	−05 33 57.5		4	809
1997 EH_{54}		1997 03 09.29583	12 52 40.24	−05 33 52.1		4	809
1997 EJ_{54}	*	1997 03 08.24792	12 53 55.67	−03 00 19.6		4	809
1997 EJ_{54}		1997 03 08.26111	12 53 55.19	−03 00 16.7		4	809
1997 EJ_{54}		1997 03 08.27431	12 53 54.60	−03 00 13.6		4	809
1997 EJ_{54}		1997 03 09.26944	12 53 21.42	−02 55 39.1	19.0	4	809
1997 EJ_{54}		1997 03 09.28264	12 53 20.92	−02 55 35.9		4	809
1997 EJ_{54}		1997 03 09.29583	12 53 20.55	−02 55 33.2		4	809
1997 EK_{54}	*	1997 03 08.24792	12 54 24.76	−04 34 41.9		4	809
1997 EK_{54}		1997 03 08.26111	12 54 24.27	−04 34 39.4		4	809
1997 EK_{54}		1997 03 08.27431	12 54 23.83	−04 34 36.2		4	809
1997 EK_{54}		1997 03 09.26944	12 53 51.10	−04 31 21.0	18.5	4	809
1997 EK_{54}		1997 03 09.28264	12 53 50.63	−04 31 18.2		4	809
1997 EK_{54}		1997 03 09.29583	12 53 50.13	−04 31 16.2		4	809
1997 EL_{54}	*	1997 03 08.24792	12 54 47.76	−04 31 11.8		4	809
1997 EL_{54}		1997 03 08.26111	12 54 47.19	−04 31 09.1		4	809
1997 EL_{54}		1997 03 08.27431	12 54 46.52	−04 31 08.0		4	809
1997 EL_{54}		1997 03 09.26944	12 54 02.42	−04 28 50.6	18.4	4	809
1997 EL_{54}		1997 03 09.28264	12 54 01.79	−04 28 47.4		4	809
1997 EL_{54}		1997 03 09.29583	12 54 01.17	−04 28 45.8		4	809
1997 EM_{54}	*	1997 03 08.24792	12 55 01.44	−05 24 13.2		4	809
1997 EM_{54}		1997 03 08.26111	12 55 00.85	−05 24 12.6		4	809
1997 EM_{54}		1997 03 08.27431	12 55 00.25	−05 24 10.9		4	809
1997 EM_{54}		1997 03 09.26944	12 54 18.77	−05 22 07.3	18.7	4	809
1997 EM_{54}		1997 03 09.28264	12 54 18.15	−05 22 05.7		4	809
1997 EM_{54}		1997 03 09.29583	12 54 17.59	−05 22 04.2		4	809
1997 EN_{54}	*	1997 03 08.24792	12 55 05.49	−04 19 30.0		4	809
1997 EN_{54}		1997 03 08.26111	12 55 04.98	−04 19 24.3		4	809
1997 EN_{54}		1997 03 08.27431	12 55 04.57	−04 19 20.4		4	809
1997 EN_{54}		1997 03 09.26944	12 54 34.02	−04 13 00.0	18.5	4	809
1997 EN_{54}		1997 03 09.28264	12 54 33.63	−04 12 54.9		4	809
1997 EN_{54}		1997 03 09.29583	12 54 33.16	−04 12 49.4		4	809
1997 EO_{54}		1997 03 08.24792	12 38 52.55	−07 12 38.5		4	809
1997 EO_{54}		1997 03 08.26111	12 38 52.05	−07 12 33.6		4	809
1997 EO_{54}		1997 03 08.27431	12 38 51.52	−07 12 29.6		4	809
1997 EO_{54}	*	1997 03 09.26944	12 38 15.37	−07 06 51.9	18.2	4	809
1997 EO_{54}		1997 03 09.28264	12 38 14.82	−07 06 46.9		4	809
1997 EO_{54}		1997 03 09.29583	12 38 14.33	−07 06 42.9		4	809
1997 EP_{54}		1997 03 08.24792	12 39 46.60	−06 29 16.4		4	809
1997 EP_{54}		1997 03 08.26111	12 39 46.15	−06 29 07.6		4	809
1997 EP_{54}		1997 03 08.27431	12 39 45.61	−06 28 59.3		4	809
1997 EP_{54}	*	1997 03 09.26944	12 39 09.87	−06 17 07.8	18.5	4	809
1997 EP_{54}		1997 03 09.28264	12 39 09.34	−06 16 59.1		4	809
1997 EP_{54}		1997 03 09.29583	12 39 08.83	−06 16 49.1		4	809
1997 EQ_{54}		1997 03 08.24792	12 40 24.78	−06 20 03.0		4	809
1997 EQ_{54}		1997 03 08.26111	12 40 24.16	−06 20 03.6		4	809
1997 EQ_{54}		1997 03 08.27431	12 40 23.62	−06 20 03.6		4	809
1997 EQ_{54}	*	1997 03 09.26944	12 39 41.04	−06 19 59.2	19.0	4	809
1997 EQ_{54}		1997 03 09.28264	12 39 40.37	−06 20 00.0		4	809
1997 EQ_{54}		1997 03 09.29583	12 39 39.86	−06 20 01.4		4	809
1997 ER_{54}		1997 03 08.24792	12 40 19.49	−06 51 08.5		4	809
1997 ER_{54}		1997 03 08.26111	12 40 18.85	−06 51 05.0		4	809
1997 ER_{54}		1997 03 08.27431	12 40 18.32	−06 51 03.8		4	809
1997 ER_{54}	*	1997 03 09.26944	12 39 41.40	−06 47 35.4	18.7	4	809
1997 ER_{54}		1997 03 09.28264	12 39 40.90	−06 47 33.6		4	809
1997 ER_{54}		1997 03 09.29583	12 39 40.39	−06 47 31.9		4	809
1997 ES_{54}		1997 03 08.24792	12 41 14.00	−06 31 23.1		4	809
1997 ES_{54}		1997 03 08.26111	12 41 13.38	−06 31 20.3		4	809
1997 ES_{54}		1997 03 08.27431	12 41 12.78	−06 31 18.7		4	809
1997 ES_{54}	*	1997 03 09.26944	12 40 29.94	−06 28 31.9	18.4	4	809
1997 ES_{54}		1997 03 09.28264	12 40 29.34	−06 28 30.1		4	809
1997 ES_{54}		1997 03 09.29583	12 40 28.74	−06 28 28.0		4	809
1997 ET_{54}		1997 03 08.24792	12 41 38.26	−06 37 22.3		4	809
1997 ET_{54}		1997 03 08.26111	12 41 37.87	−06 37 19.4		4	809
1997 ET_{54}		1997 03 08.27431	12 41 37.30	−06 37 15.5		4	809
1997 ET_{54}	*	1997 03 09.26944	12 40 59.47	−06 32 52.4	18.5	4	809
1997 ET_{54}		1997 03 09.28264	12 40 58.91	−06 32 49.1		4	809
1997 ET_{54}		1997 03 09.29583	12 40 58.36	−06 32 45.6		4	809
1997 EU_{54}		1997 03 08.24792	12 42 48.90	−06 51 58.0		4	809
1997 EU_{54}		1997 03 08.26111	12 42 48.36	−06 51 54.4		4	809
1997 EU_{54}		1997 03 08.27431	12 42 47.69	−06 51 51.3		4	809
1997 EU_{54}	*	1997 03 09.26944	12 42 04.12	−06 46 53.8	18.5	4	809
1997 EU_{54}		1997 03 09.28264	12 42 03.52	−06 46 49.6		4	809
1997 EU_{54}		1997 03 09.29583	12 42 02.94	−06 46 46.1		4	809
1997 EV_{54}		1997 03 08.24792	12 42 52.65	−06 35 18.3		4	809
1997 EV_{54}		1997 03 08.26111	12 42 51.98	−06 35 17.4		4	809
1997 EV_{54}		1997 03 08.27431	12 42 51.41	−06 35 16.9		4	809
1997 EV_{54}	*	1997 03 09.26944	12 42 05.25	−06 34 19.6	18.5	4	809
1997 EV_{54}		1997 03 09.28264	12 42 04.62	−06 34 19.2		4	809
1997 EV_{54}		1997 03 09.29583	12 42 03.95	−06 34 18.6		4	809
1997 EW_{54}		1997 03 08.24792	12 42 57.26	−07 28 40.1		4	809
1997 EW_{54}		1997 03 08.26111	12 42 56.68	−07 28 37.7		4	809
1997 EW_{54}		1997 03 08.27431	12 42 56.06	−07 28 36.5		4	809
1997 EW_{54}	*	1997 03 09.26944	12 42 13.19	−07 26 18.2	18.5	4	809
1997 EW_{54}		1997 03 09.28264	12 42 12.51	−07 26 15.8		4	809
1997 EW_{54}		1997 03 09.29583	12 42 11.88	−07 26 14.5		4	809
1997 EX_{54}		1997 03 08.24792	12 43 24.03	−07 18 06.5		4	809
1997 EX_{54}		1997 03 08.26111	12 43 23.37	−07 18 04.2		4	809
1997 EX_{54}		1997 03 08.27431	12 43 22.68	−07 18 02.2		4	809
1997 EX_{54}	*	1997 03 09.26944	12 42 33.65	−07 15 12.7	18.4	4	809
1997 EX_{54}		1997 03 09.28264	12 42 32.89	−07 15 10.7		4	809
1997 EX_{54}		1997 03 09.29583	12 42 32.21	−07 15 08.5		4	809
1997 EY_{54}		1997 03 08.24792	12 43 41.01	−06 44 08.2		4	809

1997 EY_{54}		1997 03 08.26111	12 43 40.42	−06 44 04.7		4	809
1997 EY_{54}		1997 03 08.27431	12 43 39.76	−06 44 01.2		4	809
1997 EY_{54}	*	1997 03 09.26944	12 42 56.71	−06 39 21.3	18.4	4	809
1997 EY_{54}		1997 03 09.28264	12 42 56.11	−06 39 18.2		4	809
1997 EY_{54}		1997 03 09.29583	12 42 55.49	−06 39 14.2		4	809
1997 EZ_{54}		1997 03 08.24792	12 48 31.14	−07 14 02.1		4	809
1997 EZ_{54}		1997 03 08.26111	12 48 30.50	−07 13 59.0		4	809
1997 EZ_{54}		1997 03 08.27431	12 48 29.99	−07 13 55.9		4	809
1997 EZ_{54}	*	1997 03 09.26944	12 47 49.47	−07 09 39.3	18.6	4	809
1997 EZ_{54}		1997 03 09.28264	12 47 48.96	−07 09 36.9		4	809
1997 EZ_{54}		1997 03 09.29583	12 47 48.29	−07 09 32.3		4	809
1997 EA_{55}		1997 03 08.24792	12 49 00.60	−06 43 08.7		4	809
1997 EA_{55}		1997 03 08.26111	12 49 00.02	−06 43 06.9		4	809
1997 EA_{55}		1997 03 08.27431	12 48 59.50	−06 43 06.7		4	809
1997 EA_{55}	*	1997 03 09.26944	12 48 19.99	−06 41 37.7	18.6	4	809
1997 EA_{55}		1997 03 09.28264	12 48 19.42	−06 41 37.2		4	809
1997 EA_{55}		1997 03 09.29583	12 48 18.86	−06 41 35.6		4	809
1997 EB_{55}		1997 03 08.24792	12 49 03.92	−06 08 03.6		4	809
1997 EB_{55}		1997 03 08.26111	12 49 03.41	−06 08 02.3		4	809
1997 EB_{55}		1997 03 08.27431	12 49 02.90	−06 07 59.1		4	809
1997 EB_{55}	*	1997 03 09.26944	12 48 27.26	−06 04 44.3	18.5	4	809
1997 EB_{55}		1997 03 09.28264	12 48 26.76	−06 04 41.7		4	809
1997 EB_{55}		1997 03 09.29583	12 48 26.23	−06 04 39.6		4	809
1997 EC_{55}		1997 03 08.24792	12 49 51.68	−07 23 34.3		4	809
1997 EC_{55}		1997 03 08.26111	12 49 51.06	−07 23 32.9		4	809
1997 EC_{55}		1997 03 08.27431	12 49 50.35	−07 23 34.3		4	809
1997 EC_{55}	*	1997 03 09.26944	12 49 04.02	−07 23 36.7	19.0	4	809
1997 EC_{55}		1997 03 09.28264	12 49 03.30	−07 23 35.8		4	809
1997 EC_{55}		1997 03 09.29583	12 49 02.62	−07 23 36.0		4	809
1997 ED_{55}		1997 03 08.24792	12 50 24.05	−06 25 30.6		4	809
1997 ED_{55}		1997 03 08.26111	12 50 23.45	−06 25 29.0		4	809
1997 ED_{55}		1997 03 08.27431	12 50 22.81	−06 25 25.1		4	809
1997 ED_{55}	*	1997 03 09.26944	12 49 38.35	−06 22 02.2	18.6	4	809
1997 ED_{55}		1997 03 09.28264	12 49 37.71	−06 21 59.6		4	809
1997 ED_{55}		1997 03 09.29583	12 49 36.94	−06 21 56.1		4	809
1997 EE_{55}		1997 03 08.24792	12 50 23.54	−06 33 41.5		4	809
1997 EE_{55}		1997 03 08.26111	12 50 22.98	−06 33 40.6		4	809
1997 EE_{55}		1997 03 08.27431	12 50 22.41	−06 33 37.8		4	809
1997 EE_{55}	*	1997 03 09.26944	12 49 40.05	−06 30 56.1	18.7	4	809
1997 EE_{55}		1997 03 09.28264	12 49 39.46	−06 30 54.9		4	809
1997 EE_{55}		1997 03 09.29583	12 49 38.84	−06 30 51.7		4	809
1997 EF_{55}		1997 03 08.24792	12 51 29.01	−07 32 42.4		4	809
1997 EF_{55}		1997 03 08.26111	12 51 28.50	−07 32 39.7		4	809
1997 EF_{55}		1997 03 08.27431	12 51 28.02	−07 32 37.6		4	809
1997 EF_{55}	*	1997 03 09.26944	12 50 55.00	−07 29 17.6	18.7	4	809
1997 EF_{55}		1997 03 09.28264	12 50 54.50	−07 29 15.9		4	809
1997 EF_{55}		1997 03 09.29583	12 50 54.01	−07 29 13.1		4	809
1997 EG_{55}		1997 03 08.24792	12 51 32.41	−07 04 52.8		4	809
1997 EG_{55}		1997 03 08.26111	12 51 31.95	−07 04 48.6		4	809
1997 EG_{55}		1997 03 08.27431	12 51 31.59	−07 04 44.0		4	809
1997 EG_{55}	*	1997 03 09.26944	12 51 00.97	−06 59 07.8	18.6	4	809
1997 EG_{55}		1997 03 09.28264	12 51 00.48	−06 59 02.4		4	809
1997 EG_{55}		1997 03 09.29583	12 51 00.04	−06 58 58.2		4	809
1997 EH_{55}		1997 03 08.24792	12 52 25.40	−06 00 55.4		4	809
1997 EH_{55}		1997 03 08.26111	12 52 24.90	−06 00 50.2		4	809
1997 EH_{55}		1997 03 08.27431	12 52 24.28	−06 00 44.4		4	809
1997 EH_{55}	*	1997 03 09.26944	12 51 46.13	−05 53 16.9	18.5	4	809
1997 EH_{55}		1997 03 09.28264	12 51 45.67	−05 53 11.8		4	809
1997 EH_{55}		1997 03 09.29583	12 51 45.07	−05 53 05.9		4	809
1997 EJ_{55}		1997 03 08.24792	12 52 56.53	−06 01 34.0		4	809
1997 EJ_{55}		1997 03 08.26111	12 52 56.05	−06 01 31.9		4	809
1997 EJ_{55}		1997 03 08.27431	12 52 55.58	−06 01 29.3		4	809
1997 EJ_{55}	*	1997 03 09.26944	12 52 22.85	−05 58 45.4	18.5	4	809
1997 EJ_{55}		1997 03 09.28264	12 52 22.39	−05 58 43.0		4	809
1997 EJ_{55}		1997 03 09.29583	12 52 21.84	−05 58 41.3		4	809
1997 EK_{55}		1997 03 08.24792	12 53 10.96	−06 01 04.7		4	809
1997 EK_{55}		1997 03 08.26111	12 53 10.50	−06 01 02.0		4	809
1997 EK_{55}		1997 03 08.27431	12 53 10.08	−06 00 59.6		4	809
1997 EK_{55}	*	1997 03 09.26944	12 52 37.57	−05 57 38.8	18.5	4	809
1997 EK_{55}		1997 03 09.28264	12 52 37.15	−05 57 36.2		4	809
1997 EK_{55}		1997 03 09.29583	12 52 36.65	−05 57 32.9		4	809
1997 EL_{55}		1997 03 08.24792	12 54 25.64	−07 04 43.8		4	809
1997 EL_{55}		1997 03 08.26111	12 54 25.14	−07 04 41.5		4	809
1997 EL_{55}		1997 03 08.27431	12 54 24.66	−07 04 38.4		4	809
1997 EL_{55}	*	1997 03 09.26944	12 53 48.45	−07 01 21.8	18.4	4	809
1997 EL_{55}		1997 03 09.28264	12 53 47.96	−07 01 18.7		4	809
1997 EL_{55}		1997 03 09.29583	12 53 47.46	−07 01 16.4		4	809
1997 EM_{55}		1997 03 08.24792	12 55 44.72	−06 15 00.1		4	809
1997 EM_{55}		1997 03 08.26111	12 55 44.20	−06 14 58.1		4	809
1997 EM_{55}		1997 03 08.27431	12 55 43.65	−06 14 55.8		4	809
1997 EM_{55}	*	1997 03 09.26944	12 55 04.59	−06 12 26.7	18.4	4	809
1997 EM_{55}		1997 03 09.28264	12 55 03.99	−06 12 24.8		4	809
1997 EM_{55}		1997 03 09.29583	12 55 03.41	−06 12 23.2		4	809
1997 FR		1997 03 05.22431	12 28 51.91	−02 37 16.6	18.5	4	809
1997 FR		1997 03 05.23750	12 28 51.28	−02 37 15.5		4	809
1997 FR		1997 03 05.25069	12 28 50.67	−02 37 13.2		4	809
1997 FR		1997 03 06.23542	12 28 06.98	−02 35 10.7		4	809
1997 FR		1997 03 06.24861	12 28 06.38	−02 35 09.8		4	809
1997 FR		1997 03 06.26181	12 28 05.71	−02 35 07.8		4	809
1997 FZ		1997 03 05.22431	12 35 27.37	−03 58 03.1	18.5	4	809
1997 FZ		1997 03 05.23750	12 35 26.93	−03 58 01.3		4	809
1997 FZ		1997 03 05.25069	12 35 26.47	−03 57 58.6		4	809
1997 FZ		1997 03 06.23542	12 34 53.68	−03 54 21.5		4	809
1997 FZ		1997 03 06.24861	12 34 53.19	−03 54 18.4		4	809
1997 FZ		1997 03 06.26181	12 34 52.70	−03 54 15.9		4	809
1997 FJ_1		1997 03 05.22431	12 22 38.45	−05 31 39.4	18.7	4	809
1997 FJ_1		1997 03 05.23750	12 22 38.02	−05 31 34.4		4	809
1997 FJ_1		1997 03 05.25069	12 22 37.55	−05 31 27.5		4	809
1997 FJ_1		1997 03 06.23542	12 22 03.32	−05 23 13.2		4	809
1997 FJ_1		1997 03 06.24861	12 22 02.88	−05 23 06.7		4	809
1997 FJ_1		1997 03 06.26181	12 22 02.34	−05 23 00.0		4	809
1997 FZ_1		1997 04 01.20556	13 29 12.24	−09 26 50.1	18.3	4	809
1997 FZ_1		1997 04 01.21875	13 29 11.52	−09 26 47.2		4	809
1997 FZ_1		1997 04 01.23194	13 29 10.83	−09 26 43.6		4	809

1997 FA_2	1997 04 01.20556	13 34 40.02	−09 34 25.6	18.3	4	809
1997 FA_2	1997 04 01.21875	13 34 39.37	−09 34 20.9		4	809
1997 FA_2	1997 04 01.23194	13 34 38.75	−09 34 16.5		4	809
1997 FB_3	1997 03 11.24167	13 05 23.67	−09 21 04.9	18.6	4	809
1997 FB_3	1997 03 11.25486	13 05 23.26	−09 21 01.4		4	809
1997 FB_3	1997 03 11.26806	13 05 22.85	−09 20 56.3		4	809
1997 GJ	1997 03 08.24792	12 51 39.93	−02 56 24.4		4	809
1997 GJ	1997 03 08.26111	12 51 39.42	−02 56 21.0		4	809
1997 GJ	1997 03 08.27431	12 51 38.94	−02 56 18.9		4	809
1997 GJ	1997 03 09.26944	12 51 02.35	−02 52 36.4	18.5	4	809
1997 GJ	1997 03 09.28264	12 51 01.86	−02 52 33.3		4	809
1997 GJ	1997 03 09.29583	12 51 01.33	−02 52 30.1		4	809
1997 GY_1	1997 03 05.22431	12 21 29.65	−04 11 41.9	18.8	4	809
1997 GY_1	1997 03 05.23750	12 21 29.09	−04 11 38.5		4	809
1997 GY_1	1997 03 05.25069	12 21 28.56	−04 11 32.4		4	809
1997 GY_1	1997 03 06.23542	12 20 50.62	−04 05 26.2		4	809
1997 GY_1	1997 03 06.24861	12 20 50.02	−04 05 22.1		4	809
1997 GY_1	1997 03 06.26181	12 20 49.44	−04 05 17.0		4	809
1997 GS_2	1997 03 05.22431	12 35 50.37	−02 26 08.9	18.8	4	809
1997 GS_2	1997 03 05.23750	12 35 49.93	−02 26 06.1		4	809
1997 GS_2	1997 03 05.25069	12 35 49.30	−02 26 04.5		4	809
1997 GS_2	1997 03 06.23542	12 35 09.37	−02 23 09.2		4	809
1997 GS_2	1997 03 06.24861	12 35 08.79	−02 23 07.3		4	809
1997 GS_2	1997 03 06.26181	12 35 08.27	−02 23 06.0		4	809
1997 GK_{25}	1997 03 05.22431	12 24 52.22	−03 51 31.5	18.4	4	809
1997 GK_{25}	1997 03 05.23750	12 24 51.71	−03 51 27.9		4	809
1997 GK_{25}	1997 03 05.25069	12 24 51.11	−03 51 23.6		4	809
1997 GK_{25}	1997 03 06.23542	12 24 13.63	−03 46 18.8		4	809
1997 GK_{25}	1997 03 06.24861	12 24 13.12	−03 46 15.5		4	809
1997 GK_{25}	1997 03 06.26181	12 24 12.51	−03 46 11.9		4	809
1997 GY_{26}	1997 03 05.22431	12 32 10.37	−02 25 31.6	18.7	4	809
1997 GY_{26}	1997 03 05.23750	12 32 09.86	−02 25 28.4		4	809
1997 GY_{26}	1997 03 05.25069	12 32 09.39	−02 25 25.0		4	809
1997 GY_{26}	1997 03 06.23542	12 31 35.83	−02 21 22.1		4	809
1997 GY_{26}	1997 03 06.24861	12 31 35.38	−02 21 18.0		4	809
1997 GY_{26}	1997 03 06.26181	12 31 34.91	−02 21 14.6		4	809
1997 GW_{30}	1997 03 05.22431	12 24 28.42	−02 54 38.9	18.5	4	809
1997 GW_{30}	1997 03 05.23750	12 24 28.00	−02 54 37.6		4	809
1997 GW_{30}	1997 03 05.25069	12 24 27.52	−02 54 34.6		4	809
1997 GW_{30}	1997 03 06.23542	12 23 52.18	−02 50 44.6		4	809
1997 GW_{30}	1997 03 06.24861	12 23 51.65	−02 50 41.9		4	809
1997 GW_{30}	1997 03 06.26181	12 23 51.18	−02 50 37.9		4	809
1997 GZ_{42}	* 1997 04 01.20556	13 34 29.63	−11 41 13.2	18.5	4	809
1997 GZ_{42}	1997 04 01.21875	13 34 28.89	−11 41 13.1		4	809
1997 GZ_{42}	1997 04 01.23194	13 34 28.07	−11 41 12.2		4	809
1997 GW_{43}	1997 03 12.22917	13 26 50.30	−07 45 03.1	19.0	4	809
1997 GW_{43}	1997 03 12.24236	13 26 49.73	−07 45 00.0		4	809
1997 GW_{43}	1997 03 12.25556	13 26 49.24	−07 44 54.9		4	809
1997 GE_{44}	1997 04 08.27014	14 53 58.88	−10 56 58.0		4	809
1997 GE_{44}	1997 04 08.28333	14 53 58.40	−10 56 55.0		4	809
1997 GE_{44}	1997 04 08.29653	14 53 57.91	−10 56 51.7		4	809
1997 JO	1997 03 05.22431	12 36 53.84	−04 45 45.2	18.2	4	809
1997 JO	1997 03 05.23750	12 36 53.24	−04 45 47.2		4	809
1997 JO	1997 03 05.25069	12 36 52.57	−04 45 49.8		4	809
1997 JO	1997 03 06.23542	12 36 07.11	−04 48 16.6		4	809
1997 JO	1997 03 06.24861	12 36 06.42	−04 48 18.6		4	809
1997 JO	1997 03 06.26181	12 36 05.71	−04 48 20.2		4	809
1997 JH_{18}	1997 06 08.14097	15 35 59.93	−11 33 52.9	18.4	4	809
1997 JH_{18}	1997 06 08.15417	15 35 59.28	−11 33 53.6		4	809
1997 JH_{18}	1997 06 08.16736	15 35 58.67	−11 33 53.4		4	809
1997 JH_{18}	1997 06 09.07083	15 35 18.21	−11 34 15.2		4	809
1997 JH_{18}	1997 06 09.08403	15 35 17.55	−11 34 15.8		4	809
1997 JH_{18}	1997 06 09.09722	15 35 16.98	−11 34 16.5		4	809
1997 LT_{13}	* 1997 06 08.14097	15 30 56.56	−14 25 07.7	19.2	4	809
1997 LT_{13}	1997 06 08.15417	15 30 55.93	−14 25 06.6		4	809
1997 LT_{13}	1997 06 08.16736	15 30 55.19	−14 25 06.0		4	809
1997 LT_{13}	1997 06 09.07083	15 30 07.87	−14 24 22.5		4	809
1997 LT_{13}	1997 06 09.08403	15 30 07.15	−14 24 21.0		4	809
1997 LT_{13}	1997 06 09.09722	15 30 06.43	−14 24 21.2		4	809
1997 LU_{13}	* 1997 06 08.14097	15 31 05.17	−14 42 06.1	18.6	4	809
1997 LU_{13}	1997 06 08.15417	15 31 04.54	−14 42 05.6		4	809
1997 LU_{13}	1997 06 08.16736	15 31 03.98	−14 42 06.1		4	809
1997 LU_{13}	1997 06 09.07083	15 30 22.82	−14 42 24.8		4	809
1997 LU_{13}	1997 06 09.08403	15 30 22.23	−14 42 26.1		4	809
1997 LU_{13}	1997 06 09.09722	15 30 21.53	−14 42 26.5		4	809
1997 LV_{13}	* 1997 06 08.14097	15 31 21.80	−14 48 32.2	18.4	4	809
1997 LV_{13}	1997 06 08.15417	15 31 21.13	−14 48 30.7		4	809
1997 LV_{13}	1997 06 08.16736	15 31 20.53	−14 48 30.2		4	809
1997 LV_{13}	1997 06 09.07083	15 30 38.23	−14 47 06.4		4	809
1997 LV_{13}	1997 06 09.08403	15 30 37.57	−14 47 05.0		4	809
1997 LV_{13}	1997 06 09.09722	15 30 36.92	−14 47 05.5		4	809
1997 LW_{13}	* 1997 06 08.14097	15 31 37.34	−14 49 08.9	19.0	4	809
1997 LW_{13}	1997 06 08.15417	15 31 36.69	−14 49 06.2		4	809
1997 LW_{13}	1997 06 08.16736	15 31 36.06	−14 49 03.6		4	809
1997 LW_{13}	1997 06 09.07083	15 30 56.04	−14 46 20.3		4	809
1997 LW_{13}	1997 06 09.08403	15 30 55.40	−14 46 17.5		4	809
1997 LW_{13}	1997 06 09.09722	15 30 54.92	−14 46 16.3		4	809
1997 LX_{13}	* 1997 06 08.14097	15 31 43.40	−11 54 09.9	18.4	4	809
1997 LX_{13}	1997 06 08.15417	15 31 42.74	−11 54 09.8		4	809
1997 LX_{13}	1997 06 08.16736	15 31 42.10	−11 54 10.4		4	809
1997 LX_{13}	1997 06 09.07083	15 31 00.07	−11 54 07.2		4	809
1997 LX_{13}	1997 06 09.08403	15 30 59.46	−11 54 06.9		4	809
1997 LX_{13}	1997 06 09.09722	15 30 58.78	−11 54 07.4		4	809
1997 LY_{13}	* 1997 06 08.14097	15 31 58.18	−14 47 10.1	18.8	4	809
1997 LY_{13}	1997 06 08.15417	15 31 57.69	−14 47 12.6		4	809
1997 LY_{13}	1997 06 08.16736	15 31 57.32	−14 47 14.9		4	809
1997 LY_{13}	1997 06 09.07083	15 31 26.82	−14 48 53.1		4	809
1997 LY_{13}	1997 06 09.08403	15 31 26.37	−14 48 55.8		4	809
1997 LY_{13}	1997 06 09.09722	15 31 26.01	−14 48 56.5		4	809
1997 LZ_{13}	* 1997 06 08.14097	15 32 41.47	−11 52 43.7	18.5	4	809
1997 LZ_{13}	1997 06 08.15417	15 32 40.88	−11 52 40.1		4	809
1997 LZ_{13}	1997 06 08.16736	15 32 40.36	−11 52 36.8		4	809
1997 LZ_{13}	1997 06 09.07083	15 32 05.36	−11 49 12.6		4	809
1997 LZ_{13}	1997 06 09.08403	15 32 04.84	−11 49 08.7		4	809

1997 LZ_{13}		1997 06 09.09722	15 32 04.32	−11 49 05.9		4	809
1997 LA_{14}	*	1997 06 08.14097	15 32 42.39	−11 33 59.6	18.5	4	809
1997 LA_{14}		1997 06 08.15417	15 32 41.72	−11 33 59.6		4	809
1997 LA_{14}		1997 06 08.16736	15 32 40.97	−11 33 59.2		4	809
1997 LA_{14}		1997 06 09.07083	15 31 54.92	−11 33 37.9		4	809
1997 LA_{14}		1997 06 09.08403	15 31 54.15	−11 33 37.4		4	809
1997 LA_{14}		1997 06 09.09722	15 31 53.50	−11 33 38.4		4	809
1997 LB_{14}	*	1997 06 08.14097	15 32 46.45	−14 53 18.9	18.5	4	809
1997 LB_{14}		1997 06 08.15417	15 32 45.81	−14 53 18.4		4	809
1997 LB_{14}		1997 06 08.16736	15 32 45.30	−14 53 17.4		4	809
1997 LB_{14}		1997 06 09.07083	15 32 09.21	−14 52 59.8		4	809
1997 LB_{14}		1997 06 09.08403	15 32 08.68	−14 52 59.1		4	809
1997 LB_{14}		1997 06 09.09722	15 32 08.06	−14 52 59.4		4	809
1997 LC_{14}	*	1997 06 08.14097	15 32 46.55	−12 06 11.7	18.4	4	809
1997 LC_{14}		1997 06 08.15417	15 32 45.83	−12 06 08.9		4	809
1997 LC_{14}		1997 06 08.16736	15 32 45.08	−12 06 06.1		4	809
1997 LC_{14}		1997 06 09.07083	15 32 00.58	−12 02 27.7		4	809
1997 LC_{14}		1997 06 09.08403	15 31 59.97	−12 02 24.4		4	809
1997 LC_{14}		1997 06 09.09722	15 31 59.17	−12 02 22.0		4	809
1997 LD_{14}	*	1997 06 08.14097	15 32 52.06	−12 25 22.6	18.5	4	809
1997 LD_{14}		1997 06 08.15417	15 32 51.37	−12 25 22.5		4	809
1997 LD_{14}		1997 06 08.16736	15 32 50.70	−12 25 23.0		4	809
1997 LD_{14}		1997 06 09.07083	15 32 06.81	−12 25 20.0		4	809
1997 LD_{14}		1997 06 09.08403	15 32 06.15	−12 25 20.2		4	809
1997 LD_{14}		1997 06 09.09722	15 32 05.49	−12 25 20.6		4	809
1997 LE_{14}	*	1997 06 08.14097	15 33 15.88	−12 27 19.6	18.5	4	809
1997 LE_{14}		1997 06 08.15417	15 33 15.16	−12 27 20.6		4	809
1997 LE_{14}		1997 06 08.16736	15 33 14.44	−12 27 21.6		4	809
1997 LE_{14}		1997 06 09.07083	15 32 28.79	−12 28 18.3		4	809
1997 LE_{14}		1997 06 09.08403	15 32 28.09	−12 28 20.5		4	809
1997 LE_{14}		1997 06 09.09722	15 32 27.36	−12 28 21.2		4	809
1997 LF_{14}	*	1997 06 08.14097	15 33 18.41	−11 29 54.5	18.4	4	809
1997 LF_{14}		1997 06 08.15417	15 33 17.72	−11 29 58.9		4	809
1997 LF_{14}		1997 06 08.16736	15 33 17.12	−11 30 04.2		4	809
1997 LF_{14}		1997 06 09.07083	15 32 36.25	−11 35 52.2		4	809
1997 LF_{14}		1997 06 09.08403	15 32 35.62	−11 35 59.1		4	809
1997 LF_{14}		1997 06 09.09722	15 32 34.99	−11 36 02.8		4	809
1997 LG_{14}	*	1997 06 08.14097	15 33 28.36	−15 40 05.4	18.4	4	809
1997 LG_{14}		1997 06 08.15417	15 33 27.74	−15 40 03.6		4	809
1997 LG_{14}		1997 06 08.16736	15 33 27.18	−15 40 01.9		4	809
1997 LG_{14}		1997 06 09.07083	15 32 50.81	−15 38 13.9		4	809
1997 LG_{14}		1997 06 09.08403	15 32 50.21	−15 38 11.8		4	809
1997 LG_{14}		1997 06 09.09722	15 32 49.66	−15 38 11.6		4	809
1997 LH_{14}	*	1997 06 08.14097	15 33 30.02	−14 01 46.0	18.6	4	809
1997 LH_{14}		1997 06 08.15417	15 33 29.34	−14 01 46.5		4	809
1997 LH_{14}		1997 06 08.16736	15 33 28.83	−14 01 46.2		4	809
1997 LH_{14}		1997 06 09.07083	15 32 52.87	−14 01 18.3		4	809
1997 LH_{14}		1997 06 09.08403	15 32 52.29	−14 01 19.0		4	809
1997 LH_{14}		1997 06 09.09722	15 32 51.70	−14 01 18.7		4	809
1997 LJ_{14}	*	1997 06 08.14097	15 33 39.21	−14 47 02.4	18.7	4	809
1997 LJ_{14}		1997 06 08.15417	15 33 38.67	−14 46 59.9		4	809
1997 LJ_{14}		1997 06 08.16736	15 33 37.96	−14 46 57.0		4	809
1997 LJ_{14}		1997 06 09.07083	15 32 55.76	−14 43 34.8		4	809
1997 LJ_{14}		1997 06 09.08403	15 32 55.06	−14 43 31.2		4	809
1997 LJ_{14}		1997 06 09.09722	15 32 54.34	−14 43 27.8		4	809
1997 LK_{14}	*	1997 06 08.14097	15 33 40.88	−12 23 50.3	18.5	4	809
1997 LK_{14}		1997 06 08.15417	15 33 40.38	−12 23 49.0		4	809
1997 LK_{14}		1997 06 08.16736	15 33 39.88	−12 23 47.4		4	809
1997 LK_{14}		1997 06 09.07083	15 33 08.97	−12 22 40.0		4	809
1997 LK_{14}		1997 06 09.08403	15 33 08.46	−12 22 40.1		4	809
1997 LK_{14}		1997 06 09.09722	15 33 07.91	−12 22 38.3		4	809
1997 LL_{14}	*	1997 06 08.14097	15 34 04.30	−11 15 01.8	18.5	4	809
1997 LL_{14}		1997 06 08.15417	15 34 03.73	−11 15 02.3		4	809
1997 LL_{14}		1997 06 08.16736	15 34 03.21	−11 15 02.2		4	809
1997 LL_{14}		1997 06 09.07083	15 33 29.10	−11 15 05.1		4	809
1997 LL_{14}		1997 06 09.08403	15 33 28.47	−11 15 05.0		4	809
1997 LL_{14}		1997 06 09.09722	15 33 27.95	−11 15 04.7		4	809
1997 LM_{14}		1997 05 04.25278	16 01 44.19	−15 28 55.7	18.7	4	809
1997 LM_{14}		1997 05 04.26597	16 01 43.63	−15 28 54.9		4	809
1997 LM_{14}		1997 05 04.27917	16 01 42.96	−15 28 51.4		4	809
1997 LM_{14}	*	1997 06 08.14097	15 34 11.06	−14 12 00.0	18.7	4	809
1997 LM_{14}		1997 06 08.15417	15 34 10.44	−14 11 59.1		4	809
1997 LM_{14}		1997 06 08.16736	15 34 09.85	−14 11 57.7		4	809
1997 LM_{14}		1997 06 09.07083	15 33 34.00	−14 10 49.2		4	809
1997 LM_{14}		1997 06 09.08403	15 33 33.38	−14 10 48.7		4	809
1997 LM_{14}		1997 06 09.09722	15 33 32.86	−14 10 47.7		4	809
1997 LN_{14}	*	1997 06 08.14097	15 34 11.66	−15 15 24.3	18.5	4	809
1997 LN_{14}		1997 06 08.15417	15 34 10.94	−15 15 19.1		4	809
1997 LN_{14}		1997 06 08.16736	15 34 10.27	−15 15 15.0		4	809
1997 LN_{14}		1997 06 09.07083	15 33 26.13	−15 10 23.1		4	809
1997 LN_{14}		1997 06 09.08403	15 33 25.41	−15 10 18.5		4	809
1997 LN_{14}		1997 06 09.09722	15 33 24.79	−15 10 16.2		4	809
1997 LO_{14}	*	1997 06 08.14097	15 34 17.97	−15 22 51.4	19.3	4	809
1997 LO_{14}		1997 06 08.15417	15 34 17.35	−15 22 46.7		4	809
1997 LO_{14}		1997 06 08.16736	15 34 16.72	−15 22 42.1		4	809
1997 LO_{14}		1997 06 09.07083	15 33 34.78	−15 17 44.0		4	809
1997 LO_{14}		1997 06 09.08403	15 33 33.97	−15 17 39.9		4	809
1997 LO_{14}		1997 06 09.09722	15 33 33.28	−15 17 34.8		4	809
1997 LP_{14}	*	1997 06 08.14097	15 34 20.29	−11 35 39.1	18.4	4	809
1997 LP_{14}		1997 06 08.15417	15 34 19.77	−11 35 39.1		4	809
1997 LP_{14}		1997 06 08.16736	15 34 19.22	−11 35 38.7		4	809
1997 LP_{14}		1997 06 09.07083	15 33 45.25	−11 34 54.8		4	809
1997 LP_{14}		1997 06 09.08403	15 33 44.77	−11 34 54.8		4	809
1997 LP_{14}		1997 06 09.09722	15 33 44.27	−11 34 54.1		4	809
1997 LQ_{14}	*	1997 06 08.14097	15 34 33.20	−14 47 10.4	18.5	4	809
1997 LQ_{14}		1997 06 08.15417	15 34 32.67	−14 47 09.2		4	809
1997 LQ_{14}		1997 06 08.16736	15 34 32.17	−14 47 08.3		4	809
1997 LQ_{14}		1997 06 09.07083	15 33 58.68	−14 45 36.8		4	809
1997 LQ_{14}		1997 06 09.08403	15 33 58.11	−14 45 36.1		4	809
1997 LQ_{14}		1997 06 09.09722	15 33 57.62	−14 45 36.1		4	809
1997 LR_{14}	*	1997 06 08.14097	15 34 49.06	−15 59 18.4	18.4	4	809
1997 LR_{14}		1997 06 08.15417	15 34 48.35	−15 59 16.3		4	809
1997 LR_{14}		1997 06 08.16736	15 34 47.65	−15 59 15.1		4	809
1997 LR_{14}		1997 06 09.07083	15 34 04.29	−15 57 03.4		4	809

1997 LR_{14}		1997 06 09.08403	15 34 03.62	−15 57 01.1		4	809
1997 LR_{14}		1997 06 09.09722	15 34 02.96	−15 56 59.8		4	809
1997 LS_{14}	*	1997 06 08.14097	15 34 59.61	−15 30 12.8	18.5	4	809
1997 LS_{14}		1997 06 08.15417	15 34 58.96	−15 30 10.5		4	809
1997 LS_{14}		1997 06 08.16736	15 34 58.40	−15 30 08.7		4	809
1997 LS_{14}		1997 06 09.07083	15 34 20.55	−15 27 30.4		4	809
1997 LS_{14}		1997 06 09.08403	15 34 19.97	−15 27 28.3		4	809
1997 LS_{14}		1997 06 09.09722	15 34 19.28	−15 27 25.7		4	809
1997 LT_{14}	*	1997 06 08.14097	15 35 00.58	−11 28 14.2	18.6	4	809
1997 LT_{14}		1997 06 08.15417	15 35 00.13	−11 28 14.2		4	809
1997 LT_{14}		1997 06 08.16736	15 34 59.83	−11 28 15.0		4	809
1997 LT_{14}		1997 06 09.07083	15 34 33.99	−11 28 18.1		4	809
1997 LT_{14}		1997 06 09.08403	15 34 33.46	−11 28 17.9		4	809
1997 LT_{14}		1997 06 09.09722	15 34 33.08	−11 28 19.1		4	809
1997 LU_{14}	*	1997 06 08.14097	15 35 00.68	−14 07 21.2	18.6	4	809
1997 LU_{14}		1997 06 08.15417	15 35 00.03	−14 07 21.0		4	809
1997 LU_{14}		1997 06 08.16736	15 34 59.41	−14 07 21.5		4	809
1997 LU_{14}		1997 06 09.07083	15 34 19.48	−14 07 19.3		4	809
1997 LU_{14}		1997 06 09.08403	15 34 18.85	−14 07 19.2		4	809
1997 LU_{14}		1997 06 09.09722	15 34 18.19	−14 07 19.2		4	809
1997 LV_{14}	*	1997 06 08.14097	15 35 02.61	−14 47 55.6	18.3	4	809
1997 LV_{14}		1997 06 08.15417	15 35 01.90	−14 47 52.7		4	809
1997 LV_{14}		1997 06 08.16736	15 35 01.34	−14 47 50.7		4	809
1997 LV_{14}		1997 06 09.07083	15 34 22.77	−14 45 30.6		4	809
1997 LV_{14}		1997 06 09.08403	15 34 22.12	−14 45 29.8		4	809
1997 LV_{14}		1997 06 09.09722	15 34 21.55	−14 45 28.0		4	809
1997 LW_{14}	*	1997 06 08.14097	15 35 10.90	−14 34 45.8	18.6	4	809
1997 LW_{14}		1997 06 08.15417	15 35 10.37	−14 34 46.7		4	809
1997 LW_{14}		1997 06 08.16736	15 35 09.72	−14 34 48.0		4	809
1997 LW_{14}		1997 06 09.07083	15 34 31.49	−14 35 17.6		4	809
1997 LW_{14}		1997 06 09.08403	15 34 30.94	−14 35 16.7		4	809
1997 LW_{14}		1997 06 09.09722	15 34 30.34	−14 35 18.7		4	809
1997 LX_{14}	*	1997 06 08.14097	15 35 46.55	−14 39 07.9	18.5	4	809
1997 LX_{14}		1997 06 08.15417	15 35 45.97	−14 39 06.6		4	809
1997 LX_{14}		1997 06 08.16736	15 35 45.38	−14 39 06.3		4	809
1997 LX_{14}		1997 06 09.07083	15 35 08.95	−14 37 45.8		4	809
1997 LX_{14}		1997 06 09.08403	15 35 08.35	−14 37 44.3		4	809
1997 LX_{14}		1997 06 09.09722	15 35 07.75	−14 37 42.9		4	809
1997 LY_{14}	*	1997 06 08.14097	15 35 46.80	−14 17 46.0	18.5	4	809
1997 LY_{14}		1997 06 08.15417	15 35 46.24	−14 17 46.0		4	809
1997 LY_{14}		1997 06 08.16736	15 35 45.68	−14 17 46.4		4	809
1997 LY_{14}		1997 06 09.07083	15 35 10.71	−14 17 48.8		4	809
1997 LY_{14}		1997 06 09.08403	15 35 10.06	−14 17 49.6		4	809
1997 LY_{14}		1997 06 09.09722	15 35 09.50	−14 17 49.1		4	809
1997 LZ_{14}	*	1997 06 08.14097	15 35 49.39	−13 13 02.9	18.6	4	809
1997 LZ_{14}		1997 06 08.15417	15 35 48.66	−13 13 04.6		4	809
1997 LZ_{14}		1997 06 08.16736	15 35 48.11	−13 13 06.3		4	809
1997 LZ_{14}		1997 06 09.07083	15 35 07.24	−13 14 19.6		4	809
1997 LZ_{14}		1997 06 09.08403	15 35 06.52	−13 14 21.3		4	809
1997 LZ_{14}		1997 06 09.09722	15 35 06.04	−13 14 23.2		4	809
1997 LA_{15}	*	1997 06 08.14097	15 35 57.76	−15 27 39.5	18.7	4	809
1997 LA_{15}		1997 06 08.15417	15 35 57.12	−15 27 38.4		4	809
1997 LA_{15}		1997 06 08.16736	15 35 56.52	−15 27 38.5		4	809
1997 LA_{15}		1997 06 09.07083	15 35 23.11	−15 27 43.2		4	809
1997 LA_{15}		1997 06 09.08403	15 35 22.49	−15 27 43.4		4	809
1997 LA_{15}		1997 06 09.09722	15 35 22.01	−15 27 42.5		4	809
1997 LB_{15}	*	1997 06 08.14097	15 35 59.22	−14 00 18.4	18.5	4	809
1997 LB_{15}		1997 06 08.15417	15 35 58.78	−14 00 13.7		4	809
1997 LB_{15}		1997 06 08.16736	15 35 58.24	−14 00 10.7		4	809
1997 LB_{15}		1997 06 09.07083	15 35 24.76	−13 54 55.7		4	809
1997 LB_{15}		1997 06 09.08403	15 35 24.18	−13 54 51.4		4	809
1997 LB_{15}		1997 06 09.09722	15 35 23.65	−13 54 47.1		4	809
1997 LC_{15}		1997 05 04.25278	16 09 25.27	−13 24 35.9	18.8	4	809
1997 LC_{15}		1997 05 04.26597	16 09 24.56	−13 24 34.4		4	809
1997 LC_{15}		1997 05 04.27917	16 09 23.84	−13 24 31.9		4	809
1997 LC_{15}	*	1997 06 08.14097	15 36 00.75	−12 06 11.7	18.5	4	809
1997 LC_{15}		1997 06 08.15417	15 36 00.08	−12 06 11.5		4	809
1997 LC_{15}		1997 06 08.16736	15 35 59.37	−12 06 10.1		4	809
1997 LC_{15}		1997 06 09.07083	15 35 14.94	−12 05 22.3		4	809
1997 LC_{15}		1997 06 09.08403	15 35 14.27	−12 05 21.8		4	809
1997 LC_{15}		1997 06 09.09722	15 35 13.57	−12 05 22.2		4	809
1997 LD_{15}	*	1997 06 08.14097	15 36 05.27	−15 28 01.3	18.5	4	809
1997 LD_{15}		1997 06 08.15417	15 36 04.47	−15 28 00.1		4	809
1997 LD_{15}		1997 06 08.16736	15 36 03.73	−15 27 56.1		4	809
1997 LD_{15}		1997 06 09.07083	15 35 16.07	−15 25 37.7		4	809
1997 LD_{15}		1997 06 09.08403	15 35 15.27	−15 25 36.3		4	809
1997 LD_{15}		1997 06 09.09722	15 35 14.56	−15 25 33.8		4	809
1997 LE_{15}	*	1997 06 08.14097	15 36 34.17	−13 06 48.7	18.5	4	809
1997 LE_{15}		1997 06 08.15417	15 36 33.40	−13 06 52.1		4	809
1997 LE_{15}		1997 06 08.16736	15 36 32.74	−13 06 55.7		4	809
1997 LE_{15}		1997 06 09.07083	15 35 48.09	−13 11 23.9	18.5	4	809
1997 LE_{15}		1997 06 09.08403	15 35 47.33	−13 11 29.4		4	809
1997 LE_{15}		1997 06 09.09722	15 35 46.74	−13 11 32.2		4	809
1997 LF_{15}	*	1997 06 08.14097	15 37 11.06	−15 14 52.1	18.3	4	809
1997 LF_{15}		1997 06 08.15417	15 37 10.42	−15 14 47.5		4	809
1997 LF_{15}		1997 06 08.16736	15 37 09.84	−15 14 42.5		4	809
1997 LF_{15}		1997 06 09.07083	15 36 33.78	−15 09 23.8		4	809
1997 LF_{15}		1997 06 09.08403	15 36 33.26	−15 09 19.8		4	809
1997 LF_{15}		1997 06 09.09722	15 36 32.68	−15 09 15.7		4	809
1997 LG_{15}	*	1997 06 08.14097	15 37 21.18	−14 43 24.6	18.5	4	809
1997 LG_{15}		1997 06 08.15417	15 37 20.43	−14 43 24.7		4	809
1997 LG_{15}		1997 06 08.16736	15 37 19.76	−14 43 25.4		4	809
1997 LG_{15}		1997 06 09.07083	15 36 34.01	−14 43 49.2		4	809
1997 LG_{15}		1997 06 09.08403	15 36 33.38	−14 43 49.3		4	809
1997 LG_{15}		1997 06 09.09722	15 36 32.50	−14 43 51.3		4	809
1997 LH_{15}	*	1997 06 08.14097	15 37 30.83	−15 15 36.1	18.7	4	809
1997 LH_{15}		1997 06 08.15417	15 37 30.19	−15 15 35.2		4	809
1997 LH_{15}		1997 06 08.16736	15 37 29.66	−15 15 34.2		4	809
1997 LH_{15}		1997 06 09.07083	15 36 53.57	−15 14 13.5		4	809
1997 LH_{15}		1997 06 09.08403	15 36 53.08	−15 14 16.5		4	809
1997 LH_{15}		1997 06 09.09722	15 36 52.48	−15 14 12.9		4	809
1997 LJ_{15}	*	1997 06 08.14097	15 37 52.64	−14 40 45.4	18.8	4	809
1997 LJ_{15}		1997 06 08.15417	15 37 52.06	−14 40 47.7		4	809
1997 LJ_{15}		1997 06 08.16736	15 37 51.52	−14 40 47.4		4	809

1997 LJ_{15}		1997 06 09.07083	15 37 13.58	−14 41 24.2		4	809
1997 LJ_{15}		1997 06 09.08403	15 37 12.83	−14 41 25.6		4	809
1997 LJ_{15}		1997 06 09.09722	15 37 12.21	−14 41 28.9		4	809
1997 LK_{15}	*	1997 06 08.14097	15 37 53.88	−14 14 55.9	18.5	4	809
1997 LK_{15}		1997 06 08.15417	15 37 53.28	−14 14 55.2		4	809
1997 LK_{15}		1997 06 08.16736	15 37 52.66	−14 14 53.3		4	809
1997 LK_{15}		1997 06 09.07083	15 37 16.95	−14 13 57.4		4	809
1997 LK_{15}		1997 06 09.08403	15 37 16.35	−14 13 56.4		4	809
1997 LK_{15}		1997 06 09.09722	15 37 15.75	−14 13 56.9		4	809
1997 LL_{15}	*	1997 06 08.14097	15 38 12.71	−14 58 56.9	18.5	4	809
1997 LL_{15}		1997 06 08.15417	15 38 12.17	−14 58 54.9		4	809
1997 LL_{15}		1997 06 08.16736	15 38 11.68	−14 58 53.5		4	809
1997 LL_{15}		1997 06 09.07083	15 37 36.20	−14 57 16.1		4	809
1997 LL_{15}		1997 06 09.08403	15 37 35.62	−14 57 15.1		4	809
1997 LL_{15}		1997 06 09.09722	15 37 35.07	−14 57 14.8		4	809
1997 LM_{15}	*	1997 06 08.14097	15 38 21.45	−15 22 09.4	18.7	4	809
1997 LM_{15}		1997 06 08.15417	15 38 21.12	−15 22 07.3		4	809
1997 LM_{15}		1997 06 08.16736	15 38 20.67	−15 22 04.7		4	809
1997 LM_{15}		1997 06 09.07083	15 37 56.22	−15 19 27.6		4	809
1997 LM_{15}		1997 06 09.08403	15 37 55.77	−15 19 25.6		4	809
1997 LM_{15}		1997 06 09.09722	15 37 55.42	−15 19 22.5		4	809
1997 LN_{15}	*	1997 06 08.14097	15 38 25.23	−14 02 14.4	18.4	4	809
1997 LN_{15}		1997 06 08.15417	15 38 24.52	−14 02 10.9		4	809
1997 LN_{15}		1997 06 08.16736	15 38 23.80	−14 02 07.7		4	809
1997 LN_{15}		1997 06 09.07083	15 37 39.67	−13 57 56.4		4	809
1997 LN_{15}		1997 06 09.08403	15 37 39.02	−13 57 52.8		4	809
1997 LN_{15}		1997 06 09.09722	15 37 38.30	−13 57 49.6		4	809
1997 LO_{15}	*	1997 06 08.14097	15 38 31.71	−15 41 25.4	18.7	4	809
1997 LO_{15}		1997 06 08.15417	15 38 31.03	−15 41 25.8		4	809
1997 LO_{15}		1997 06 08.16736	15 38 30.41	−15 41 25.4		4	809
1997 LO_{15}		1997 06 09.07083	15 37 47.65	−15 40 41.8		4	809
1997 LO_{15}		1997 06 09.08403	15 37 46.87	−15 40 41.4		4	809
1997 LO_{15}		1997 06 09.09722	15 37 46.25	−15 40 41.7		4	809
1997 LP_{15}	*	1997 06 08.14097	15 38 40.20	−13 51 50.2	18.5	4	809
1997 LP_{15}		1997 06 08.15417	15 38 39.40	−13 51 50.3		4	809
1997 LP_{15}		1997 06 08.16736	15 38 38.77	−13 51 50.2		4	809
1997 LP_{15}		1997 06 09.07083	15 37 56.49	−13 51 23.6		4	809
1997 LP_{15}		1997 06 09.08403	15 37 55.86	−13 51 22.5		4	809
1997 LP_{15}		1997 06 09.09722	15 37 55.23	−13 51 23.1		4	809
1997 LQ_{15}	*	1997 06 08.14097	15 38 44.00	−15 55 59.0	18.6	4	809
1997 LQ_{15}		1997 06 08.15417	15 38 43.36	−15 55 57.6		4	809
1997 LQ_{15}		1997 06 08.16736	15 38 42.78	−15 55 56.5		4	809
1997 LQ_{15}		1997 06 09.07083	15 38 01.41	−15 53 56.1		4	809
1997 LQ_{15}		1997 06 09.08403	15 38 00.70	−15 53 55.0		4	809
1997 LQ_{15}		1997 06 09.09722	15 38 00.04	−15 53 54.4		4	809
1997 LR_{15}	*	1997 06 08.14097	15 39 09.07	−14 20 11.0	18.3	4	809
1997 LR_{15}		1997 06 08.15417	15 39 08.42	−14 20 09.9		4	809
1997 LR_{15}		1997 06 08.16736	15 39 07.74	−14 20 08.7		4	809
1997 LR_{15}		1997 06 09.07083	15 38 27.05	−14 18 36.4		4	809
1997 LR_{15}		1997 06 09.08403	15 38 26.45	−14 18 35.0		4	809
1997 LR_{15}		1997 06 09.09722	15 38 25.78	−14 18 34.0		4	809
1997 LS_{15}	*	1997 06 08.14097	15 39 14.51	−11 06 49.2	18.5	4	809
1997 LS_{15}		1997 06 08.15417	15 39 13.88	−11 06 49.8		4	809
1997 LS_{15}		1997 06 08.16736	15 39 13.25	−11 06 48.9		4	809
1997 LS_{15}		1997 06 09.07083	15 38 32.27	−11 05 42.4		4	809
1997 LS_{15}		1997 06 09.08403	15 38 31.79	−11 05 41.4		4	809
1997 LS_{15}		1997 06 09.09722	15 38 31.14	−11 05 40.5		4	809
1997 LT_{15}	*	1997 06 08.14097	15 39 35.30	−16 12 01.0	18.6	4	809
1997 LT_{15}		1997 06 08.15417	15 39 34.54	−16 12 01.8		4	809
1997 LT_{15}		1997 06 08.16736	15 39 33.83	−16 12 02.0		4	809
1997 LT_{15}		1997 06 09.07083	15 38 44.53	−16 12 30.1		4	809
1997 LT_{15}		1997 06 09.08403	15 38 43.73	−16 12 31.2		4	809
1997 LT_{15}		1997 06 09.09722	15 38 43.05	−16 12 31.8		4	809
1997 LU_{15}	*	1997 06 08.14097	15 39 44.73	−13 22 44.2	18.4	4	809
1997 LU_{15}		1997 06 08.15417	15 39 44.08	−13 22 45.0		4	809
1997 LU_{15}		1997 06 08.16736	15 39 43.45	−13 22 46.5		4	809
1997 LU_{15}		1997 06 09.07083	15 39 02.31	−13 24 02.9		4	809
1997 LU_{15}		1997 06 09.08403	15 39 01.73	−13 24 04.6		4	809
1997 LU_{15}		1997 06 09.09722	15 39 01.10	−13 24 06.0		4	809
1997 LV_{15}	*	1997 06 08.14097	15 40 02.80	−12 02 02.3	18.7	4	809
1997 LV_{15}		1997 06 08.15417	15 40 02.23	−12 02 01.5		4	809
1997 LV_{15}		1997 06 08.16736	15 40 01.65	−12 02 01.7		4	809
1997 LV_{15}		1997 06 09.07083	15 39 21.71	−12 01 48.5		4	809
1997 LV_{15}		1997 06 09.08403	15 39 21.01	−12 01 48.1		4	809
1997 LV_{15}		1997 06 09.09722	15 39 20.47	−12 01 49.2		4	809
1997 LW_{15}	*	1997 06 08.14097	15 40 08.84	−12 25 08.6	18.6	4	809
1997 LW_{15}		1997 06 08.15417	15 40 08.25	−12 25 11.4		4	809
1997 LW_{15}		1997 06 08.16736	15 40 07.71	−12 25 13.2		4	809
1997 LW_{15}		1997 06 09.07083	15 39 29.35	−12 28 28.3		4	809
1997 LW_{15}		1997 06 09.08403	15 39 28.90	−12 28 28.7		4	809
1997 LW_{15}		1997 06 09.09722	15 39 28.27	−12 28 33.8		4	809
1997 LX_{15}	*	1997 06 08.14097	15 40 15.46	−12 20 28.3	18.9	4	809
1997 LX_{15}		1997 06 08.15417	15 40 14.72	−12 20 27.6		4	809
1997 LX_{15}		1997 06 08.16736	15 40 14.08	−12 20 27.3		4	809
1997 LX_{15}		1997 06 09.07083	15 39 32.16	−12 19 22.0		4	809
1997 LX_{15}		1997 06 09.08403	15 39 31.57	−12 19 20.1		4	809
1997 LX_{15}		1997 06 09.09722	15 39 30.88	−12 19 20.6		4	809
1997 LY_{15}	*	1997 06 08.14097	15 40 19.31	−15 55 34.2	19.0	4	809
1997 LY_{15}		1997 06 08.15417	15 40 18.68	−15 55 33.1		4	809
1997 LY_{15}		1997 06 08.16736	15 40 18.10	−15 55 33.0		4	809
1997 LY_{15}		1997 06 09.07083	15 39 40.19	−15 54 20.7		4	809
1997 LY_{15}		1997 06 09.08403	15 39 39.57	−15 54 20.1		4	809
1997 LY_{15}		1997 06 09.09722	15 39 38.97	−15 54 20.4		4	809
1997 LZ_{15}	*	1997 06 08.14097	15 40 31.01	−15 52 59.5	19.3	4	809
1997 LZ_{15}		1997 06 08.15417	15 40 30.36	−15 52 58.7		4	809
1997 LZ_{15}		1997 06 08.16736	15 40 29.70	−15 52 58.2		4	809
1997 LZ_{15}		1997 06 09.07083	15 39 48.53	−15 50 43.4		4	809
1997 LZ_{15}		1997 06 09.08403	15 39 47.85	−15 50 41.0		4	809
1997 LZ_{15}		1997 06 09.09722	15 39 47.27	−15 50 40.7		4	809
1997 LA_{16}	*	1997 06 08.14097	15 40 42.87	−13 21 08.8	18.4	4	809
1997 LA_{16}		1997 06 08.15417	15 40 42.13	−13 21 06.0		4	809
1997 LA_{16}		1997 06 08.16736	15 40 41.48	−13 21 03.5		4	809
1997 LA_{16}		1997 06 09.07083	15 39 58.29	−13 17 56.5		4	809
1997 LA_{16}		1997 06 09.08403	15 39 57.67	−13 17 53.8		4	809

1997 LA_{16}		1997 06 09.09722	15 39 56.97	−13 17 51.6		4	809
1997 LB_{16}	*	1997 06 08.14097	15 40 52.04	−13 47 24.8	18.7	4	809
1997 LB_{16}		1997 06 08.15417	15 40 51.34	−13 47 22.7		4	809
1997 LB_{16}		1997 06 08.16736	15 40 50.79	−13 47 22.7		4	809
1997 LB_{16}		1997 06 09.07083	15 40 12.34	−13 45 23.6		4	809
1997 LB_{16}		1997 06 09.08403	15 40 11.76	−13 45 21.4		4	809
1997 LB_{16}		1997 06 09.09722	15 40 11.26	−13 45 20.4		4	809
1997 LC_{16}	*	1997 06 08.14097	15 41 17.90	−15 13 44.0	18.6	4	809
1997 LC_{16}		1997 06 08.15417	15 41 17.55	−15 13 41.3		4	809
1997 LC_{16}		1997 06 08.16736	15 41 17.11	−15 13 38.9		4	809
1997 LC_{16}		1997 06 09.07083	15 40 52.42	−15 10 54.7		4	809
1997 LC_{16}		1997 06 09.08403	15 40 52.04	−15 10 52.7		4	809
1997 LC_{16}		1997 06 09.09722	15 40 51.71	−15 10 50.2		4	809
1997 LD_{16}	*	1997 06 08.14097	15 41 26.66	−11 58 15.5	18.0	4	809
1997 LD_{16}		1997 06 08.15417	15 41 25.90	−11 58 16.9		4	809
1997 LD_{16}		1997 06 08.16736	15 41 25.10	−11 58 18.3		4	809
1997 LD_{16}		1997 06 09.07083	15 40 35.56	−11 59 58.7		4	809
1997 LD_{16}		1997 06 09.08403	15 40 34.79	−11 59 59.8		4	809
1997 LD_{16}		1997 06 09.09722	15 40 34.04	−12 00 01.5		4	809
1997 LE_{16}	*	1997 06 08.14097	15 41 34.09	−14 35 08.3	18.5	4	809
1997 LE_{16}		1997 06 08.15417	15 41 33.43	−14 35 10.8		4	809
1997 LE_{16}		1997 06 08.16736	15 41 32.80	−14 35 11.9		4	809
1997 LE_{16}		1997 06 09.07083	15 40 51.77	−14 36 42.3		4	809
1997 LE_{16}		1997 06 09.08403	15 40 51.13	−14 36 43.6		4	809
1997 LE_{16}		1997 06 09.09722	15 40 50.44	−14 36 45.6		4	809
1997 LF_{16}	*	1997 06 08.14097	15 41 40.09	−11 08 18.5	18.3	4	809
1997 LF_{16}		1997 06 08.15417	15 41 39.31	−11 08 21.8		4	809
1997 LF_{16}		1997 06 08.16736	15 41 38.59	−11 08 23.8		4	809
1997 LF_{16}		1997 06 09.07083	15 40 48.41	−11 12 01.5		4	809
1997 LF_{16}		1997 06 09.08403	15 40 47.64	−11 12 04.3		4	809
1997 LF_{16}		1997 06 09.09722	15 40 46.93	−11 12 07.0		4	809
1997 LG_{16}	*	1997 06 08.14097	15 41 47.44	−15 06 08.6	18.5	4	809
1997 LG_{16}		1997 06 08.15417	15 41 46.80	−15 06 06.2		4	809
1997 LG_{16}		1997 06 08.16736	15 41 46.20	−15 06 04.9		4	809
1997 LG_{16}		1997 06 09.07083	15 41 07.67	−15 03 53.9		4	809
1997 LG_{16}		1997 06 09.08403	15 41 07.13	−15 03 53.4		4	809
1997 LG_{16}		1997 06 09.09722	15 41 06.44	−15 03 51.5		4	809
1997 LH_{16}	*	1997 06 08.14097	15 42 08.06	−15 27 58.7	18.0	4	809
1997 LH_{16}		1997 06 08.15417	15 42 07.43	−15 27 59.0		4	809
1997 LH_{16}		1997 06 08.16736	15 42 06.81	−15 27 58.9		4	809
1997 LH_{16}		1997 06 09.07083	15 41 28.77	−15 28 00.7		4	809
1997 LH_{16}		1997 06 09.08403	15 41 28.15	−15 28 00.7		4	809
1997 LH_{16}		1997 06 09.09722	15 41 27.55	−15 28 00.8		4	809
1997 LJ_{16}	*	1997 06 08.14097	15 42 08.54	−14 45 07.4	18.0	4	809
1997 LJ_{16}		1997 06 08.15417	15 42 07.94	−14 45 03.8		4	809
1997 LJ_{16}		1997 06 08.16736	15 42 07.40	−14 44 59.5		4	809
1997 LJ_{16}		1997 06 09.07083	15 41 30.53	−14 40 55.8		4	809
1997 LJ_{16}		1997 06 09.08403	15 41 30.02	−14 40 52.5		4	809
1997 LJ_{16}		1997 06 09.09722	15 41 29.40	−14 40 49.0		4	809
1997 LK_{16}	*	1997 06 08.14097	15 42 19.91	−11 43 20.1	18.5	4	809
1997 LK_{16}		1997 06 08.15417	15 42 19.21	−11 43 19.6		4	809
1997 LK_{16}		1997 06 08.16736	15 42 18.53	−11 43 18.4		4	809
1997 LK_{16}		1997 06 09.07083	15 41 35.28	−11 41 56.8		4	809
1997 LK_{16}		1997 06 09.08403	15 41 34.68	−11 41 55.0		4	809
1997 LK_{16}		1997 06 09.09722	15 41 33.98	−11 41 54.2		4	809
1997 LL_{16}	*	1997 06 08.14097	15 42 20.52	−15 01 28.1	18.6	4	809
1997 LL_{16}		1997 06 08.15417	15 42 19.88	−15 01 28.5		4	809
1997 LL_{16}		1997 06 08.16736	15 42 19.33	−15 01 29.1		4	809
1997 LL_{16}		1997 06 09.07083	15 41 41.04	−15 01 02.6		4	809
1997 LL_{16}		1997 06 09.08403	15 41 40.48	−15 01 01.7		4	809
1997 LL_{16}		1997 06 09.09722	15 41 39.91	−15 01 01.9		4	809
1997 LM_{16}	*	1997 06 08.14097	15 42 41.43	−16 01 02.0	18.5	4	809
1997 LM_{16}		1997 06 08.15417	15 42 40.73	−16 01 01.3		4	809
1997 LM_{16}		1997 06 08.16736	15 42 40.17	−16 01 00.3		4	809
1997 LM_{16}		1997 06 09.07083	15 42 00.67	−15 59 45.5		4	809
1997 LM_{16}		1997 06 09.08403	15 42 00.05	−15 59 43.7		4	809
1997 LM_{16}		1997 06 09.09722	15 41 59.37	−15 59 42.0		4	809
1997 LN_{16}	*	1997 06 08.14097	15 42 44.61	−14 41 24.3	18.5	4	809
1997 LN_{16}		1997 06 08.15417	15 42 44.03	−14 41 20.2		4	809
1997 LN_{16}		1997 06 08.16736	15 42 43.48	−14 41 15.4		4	809
1997 LN_{16}		1997 06 09.07083	15 42 07.90	−14 35 53.6		4	809
1997 LN_{16}		1997 06 09.08403	15 42 07.33	−14 35 49.2		4	809
1997 LN_{16}		1997 06 09.09722	15 42 06.83	−14 35 44.7		4	809
1997 LO_{16}	*	1997 06 08.14097	15 42 48.21	−15 24 08.8	18.6	4	809
1997 LO_{16}		1997 06 08.15417	15 42 47.70	−15 24 07.0		4	809
1997 LO_{16}		1997 06 08.16736	15 42 47.17	−15 24 03.6		4	809
1997 LO_{16}		1997 06 09.07083	15 42 12.81	−15 20 34.6		4	809
1997 LO_{16}		1997 06 09.08403	15 42 12.28	−15 20 32.5		4	809
1997 LO_{16}		1997 06 09.09722	15 42 11.76	−15 20 29.2		4	809
1997 LP_{16}	*	1997 06 08.14097	15 43 07.06	−15 16 02.5	18.0	4	809
1997 LP_{16}		1997 06 08.15417	15 43 06.35	−15 16 00.4		4	809
1997 LP_{16}		1997 06 08.16736	15 43 05.72	−15 15 59.2		4	809
1997 LP_{16}		1997 06 09.07083	15 42 23.98	−15 13 58.8		4	809
1997 LP_{16}		1997 06 09.08403	15 42 23.39	−15 13 57.4		4	809
1997 LP_{16}		1997 06 09.09722	15 42 22.71	−15 13 55.3		4	809
1997 LQ_{16}	*	1997 06 08.14097	15 43 27.75	−14 02 53.9	18.7	4	809
1997 LQ_{16}		1997 06 08.15417	15 43 27.21	−14 02 49.1		4	809
1997 LQ_{16}		1997 06 08.16736	15 43 26.57	−14 02 45.2		4	809
1997 LQ_{16}		1997 06 09.07083	15 42 53.28	−13 58 26.0		4	809
1997 LQ_{16}		1997 06 09.08403	15 42 52.86	−13 58 22.5		4	809
1997 LQ_{16}		1997 06 09.09722	15 42 52.32	−13 58 18.7		4	809
1997 LR_{16}	*	1997 06 08.14097	15 43 52.46	−13 56 54.9	18.5	4	809
1997 LR_{16}		1997 06 08.15417	15 43 51.72	−13 56 59.4		4	809
1997 LR_{16}		1997 06 08.16736	15 43 50.96	−13 57 03.5		4	809
1997 LR_{16}		1997 06 09.07083	15 43 05.31	−14 00 41.0		4	809
1997 LR_{16}		1997 06 09.08403	15 43 04.59	−14 00 44.4		4	809
1997 LR_{16}		1997 06 09.09722	15 43 03.93	−14 00 47.2		4	809
1997 LS_{16}	*	1997 06 08.14097	15 44 02.12	−11 54 17.9	18.4	4	809
1997 LS_{16}		1997 06 08.15417	15 44 01.31	−11 54 16.8		4	809
1997 LS_{16}		1997 06 08.16736	15 44 00.69	−11 54 16.6		4	809
1997 LS_{16}		1997 06 09.07083	15 43 15.18	−11 53 26.7		4	809
1997 LS_{16}		1997 06 09.08403	15 43 14.52	−11 53 27.2		4	809
1997 LS_{16}		1997 06 09.09722	15 43 13.83	−11 53 25.4		4	809
1997 LT_{16}	*	1997 06 08.14097	15 44 19.67	−15 54 05.6	18.6	4	809

1997 LT_{16}		1997 06 08.15417	15 44 18.75	−15 54 05.2		4	809
1997 LT_{16}		1997 06 08.16736	15 44 18.00	−15 54 05.4		4	809
1997 LT_{16}		1997 06 09.07083	15 43 29.34	−15 54 28.3		4	809
1997 LT_{16}		1997 06 09.08403	15 43 28.64	−15 54 28.8		4	809
1997 LT_{16}		1997 06 09.09722	15 43 27.80	−15 54 30.6		4	809
1997 LU_{16}	*	1997 06 08.14097	15 44 27.02	−15 26 54.7	18.8	4	809
1997 LU_{16}		1997 06 08.15417	15 44 26.14	−15 26 56.2		4	809
1997 LU_{16}		1997 06 08.16736	15 44 25.47	−15 26 57.8		4	809
1997 LU_{16}		1997 06 09.07083	15 43 35.72	−15 28 24.4		4	809
1997 LU_{16}		1997 06 09.08403	15 43 34.88	−15 28 26.9		4	809
1997 LU_{16}		1997 06 09.09722	15 43 34.17	−15 28 28.5		4	809
1997 LV_{16}	*	1997 06 08.14097	15 44 40.23	−15 59 47.8	18.4	4	809
1997 LV_{16}		1997 06 08.15417	15 44 39.54	−15 59 46.6		4	809
1997 LV_{16}		1997 06 08.16736	15 44 38.83	−15 59 45.4		4	809
1997 LV_{16}		1997 06 09.07083	15 43 47.60	−15 58 24.4		4	809
1997 LV_{16}		1997 06 09.08403	15 43 46.82	−15 58 22.7		4	809
1997 LV_{16}		1997 06 09.09722	15 43 46.07	−15 58 22.9		4	809
1997 LW_{16}	*	1997 06 08.14097	15 44 50.42	−14 24 15.1	18.5	4	809
1997 LW_{16}		1997 06 08.15417	15 44 49.75	−14 24 17.3		4	809
1997 LW_{16}		1997 06 08.16736	15 44 49.11	−14 24 19.5		4	809
1997 LW_{16}		1997 06 09.07083	15 44 09.55	−14 26 44.2		4	809
1997 LW_{16}		1997 06 09.08403	15 44 08.87	−14 26 47.6		4	809
1997 LW_{16}		1997 06 09.09722	15 44 08.28	−14 26 48.6		4	809
1997 LX_{16}	*	1997 06 08.14097	15 45 08.27	−11 00 09.2	18.5	4	809
1997 LX_{16}		1997 06 08.15417	15 45 07.43	−11 00 08.6		4	809
1997 LX_{16}		1997 06 08.16736	15 45 06.68	−11 00 08.0		4	809
1997 LX_{16}		1997 06 09.07083	15 44 14.34	−10 59 06.3		4	809
1997 LX_{16}		1997 06 09.08403	15 44 13.55	−10 59 05.1		4	809
1997 LX_{16}		1997 06 09.09722	15 44 12.68	−10 59 03.4		4	809
1997 LY_{16}	*	1997 06 08.14097	15 45 08.83	−11 36 26.8	18.4	4	809
1997 LY_{16}		1997 06 08.15417	15 45 08.22	−11 36 24.3		4	809
1997 LY_{16}		1997 06 08.16736	15 45 07.57	−11 36 21.1		4	809
1997 LY_{16}		1997 06 09.07083	15 44 29.21	−11 32 56.8		4	809
1997 LY_{16}		1997 06 09.08403	15 44 28.60	−11 32 53.4		4	809
1997 LY_{16}		1997 06 09.09722	15 44 28.06	−11 32 50.3		4	809
1997 LZ_{16}	*	1997 06 08.14097	15 45 09.96	−15 25 55.9	18.7	4	809
1997 LZ_{16}		1997 06 08.15417	15 45 09.34	−15 25 49.3		4	809
1997 LZ_{16}		1997 06 08.16736	15 45 08.81	−15 25 43.2		4	809
1997 LZ_{16}		1997 06 09.07083	15 44 31.45	−15 18 50.9		4	809
1997 LZ_{16}		1997 06 09.08403	15 44 30.94	−15 18 44.1		4	809
1997 LZ_{16}		1997 06 09.09722	15 44 30.39	−15 18 39.0		4	809
1997 LA_{17}	*	1997 06 08.14097	15 45 28.17	−15 55 44.5	18.3	4	809
1997 LA_{17}		1997 06 08.15417	15 45 27.46	−15 55 46.1		4	809
1997 LA_{17}		1997 06 08.16736	15 45 26.73	−15 55 48.4		4	809
1997 LA_{17}		1997 06 09.07083	15 44 37.88	−15 58 08.8		4	809
1997 LA_{17}		1997 06 09.08403	15 44 37.19	−15 58 12.0		4	809
1997 LA_{17}		1997 06 09.09722	15 44 36.42	−15 58 13.1		4	809
1997 LB_{17}	*	1997 06 08.14097	15 45 33.16	−11 39 29.4	18.8	4	809
1997 LB_{17}		1997 06 08.15417	15 45 32.48	−11 39 29.1		4	809
1997 LB_{17}		1997 06 08.16736	15 45 31.90	−11 39 28.0		4	809
1997 LB_{17}		1997 06 09.07083	15 44 50.46	−11 38 57.8		4	809
1997 LB_{17}		1997 06 09.08403	15 44 49.85	−11 38 57.6		4	809
1997 LB_{17}		1997 06 09.09722	15 44 49.37	−11 38 58.1		4	809
1997 LC_{17}	*	1997 06 08.14097	15 45 34.24	−15 29 10.6	18.7	4	809
1997 LC_{17}		1997 06 08.15417	15 45 33.89	−15 29 09.8		4	809
1997 LC_{17}		1997 06 08.16736	15 45 33.45	−15 29 09.3		4	809
1997 LC_{17}		1997 06 09.07083	15 45 08.42	−15 28 14.2		4	809
1997 LC_{17}		1997 06 09.08403	15 45 08.02	−15 28 13.4		4	809
1997 LC_{17}		1997 06 09.09722	15 45 07.69	−15 28 13.7		4	809
1997 LD_{17}	*	1997 06 08.14097	15 46 07.66	−11 39 01.9	18.5	4	809
1997 LD_{17}		1997 06 08.15417	15 46 06.98	−11 39 01.3		4	809
1997 LD_{17}		1997 06 08.16736	15 46 06.28	−11 39 00.8		4	809
1997 LD_{17}		1997 06 09.07083	15 45 21.39	−11 37 52.7		4	809
1997 LD_{17}		1997 06 09.08403	15 45 20.64	−11 37 51.0		4	809
1997 LD_{17}		1997 06 09.09722	15 45 19.97	−11 37 50.6		4	809
1997 LE_{17}	*	1997 06 08.14097	15 46 11.59	−14 44 27.4	18.7	4	809
1997 LE_{17}		1997 06 08.15417	15 46 10.77	−14 44 26.4		4	809
1997 LE_{17}		1997 06 08.16736	15 46 09.96	−14 44 25.5		4	809
1997 LE_{17}		1997 06 09.07083	15 45 19.30	−14 43 18.9		4	809
1997 LE_{17}		1997 06 09.08403	15 45 18.43	−14 43 17.5		4	809
1997 LE_{17}		1997 06 09.09722	15 45 17.67	−14 43 16.5		4	809
1997 LF_{17}	*	1997 06 08.14097	15 46 19.91	−15 19 53.9	18.7	4	809
1997 LF_{17}		1997 06 08.15417	15 46 19.31	−15 19 52.7		4	809
1997 LF_{17}		1997 06 08.16736	15 46 18.69	−15 19 50.9		4	809
1997 LF_{17}		1997 06 09.07083	15 45 37.36	−15 17 40.4		4	809
1997 LF_{17}		1997 06 09.08403	15 45 36.74	−15 17 38.1		4	809
1997 LF_{17}		1997 06 09.09722	15 45 36.11	−15 17 36.2		4	809
1997 LG_{17}	*	1997 06 08.14097	15 46 32.63	−12 49 52.4	18.6	4	809
1997 LG_{17}		1997 06 08.15417	15 46 32.03	−12 49 49.9		4	809
1997 LG_{17}		1997 06 08.16736	15 46 31.54	−12 49 44.8		4	809
1997 LG_{17}		1997 06 09.07083	15 45 57.55	−12 45 06.3		4	809
1997 LG_{17}		1997 06 09.08403	15 45 56.97	−12 45 02.3		4	809
1997 LG_{17}		1997 06 09.09722	15 45 56.50	−12 44 58.5		4	809
1997 LH_{17}	*	1997 06 08.14097	15 46 41.78	−14 23 07.2	18.5	4	809
1997 LH_{17}		1997 06 08.15417	15 46 41.06	−14 23 07.3		4	809
1997 LH_{17}		1997 06 08.16736	15 46 40.40	−14 23 07.0		4	809
1997 LH_{17}		1997 06 09.07083	15 45 56.85	−14 22 17.4		4	809
1997 LH_{17}		1997 06 09.08403	15 45 56.18	−14 22 16.6		4	809
1997 LH_{17}		1997 06 09.09722	15 45 55.49	−14 22 15.8		4	809
1997 LJ_{17}	*	1997 06 08.14097	15 46 45.61	−13 10 59.6	18.0	4	809
1997 LJ_{17}		1997 06 08.15417	15 46 44.92	−13 10 58.2		4	809
1997 LJ_{17}		1997 06 08.16736	15 46 44.33	−13 10 56.9		4	809
1997 LJ_{17}		1997 06 09.07083	15 46 05.92	−13 09 22.7		4	809
1997 LJ_{17}		1997 06 09.08403	15 46 05.33	−13 09 21.1		4	809
1997 LJ_{17}		1997 06 09.09722	15 46 04.70	−13 09 20.1		4	809
1997 LK_{17}	*	1997 06 08.14097	15 46 49.20	−11 50 30.4	18.7	4	809
1997 LK_{17}		1997 06 08.15417	15 46 48.57	−11 50 27.5		4	809
1997 LK_{17}		1997 06 08.16736	15 46 47.80	−11 50 26.4		4	809
1997 LK_{17}		1997 06 09.07083	15 46 05.31	−11 48 38.2		4	809
1997 LK_{17}		1997 06 09.08403	15 46 04.68	−11 48 38.0		4	809
1997 LK_{17}		1997 06 09.09722	15 46 03.98	−11 48 36.1		4	809
1997 LL_{17}	*	1997 06 08.14097	15 46 51.48	−14 18 34.3	18.6	4	809
1997 LL_{17}		1997 06 08.15417	15 46 50.60	−14 18 30.6		4	809
1997 LL_{17}		1997 06 08.16736	15 46 49.81	−14 18 27.1		4	809

1997 LL_{17}		1997 06 09.07083	15 46 01.93	−14 14 24.6		4	809
1997 LL_{17}		1997 06 09.08403	15 46 01.22	−14 14 22.6		4	809
1997 LL_{17}		1997 06 09.09722	15 46 00.51	−14 14 17.9		4	809
1997 LM_{17}	*	1997 06 08.14097	15 46 58.12	−11 08 52.8	18.7	4	809
1997 LM_{17}		1997 06 08.15417	15 46 57.60	−11 08 49.4		4	809
1997 LM_{17}		1997 06 08.16736	15 46 57.08	−11 08 48.7		4	809
1997 LM_{17}		1997 06 09.07083	15 46 22.23	−11 06 01.2		4	809
1997 LM_{17}		1997 06 09.08403	15 46 21.74	−11 05 58.7		4	809
1997 LM_{17}		1997 06 09.09722	15 46 21.28	−11 05 57.1		4	809
1997 LN_{17}	*	1997 06 08.14097	15 47 09.53	−11 19 57.3	18.6	4	809
1997 LN_{17}		1997 06 08.15417	15 47 08.92	−11 19 55.8		4	809
1997 LN_{17}		1997 06 08.16736	15 47 08.32	−11 19 54.2		4	809
1997 LN_{17}		1997 06 09.07083	15 46 28.32	−11 18 38.0		4	809
1997 LN_{17}		1997 06 09.08403	15 46 27.72	−11 18 37.4		4	809
1997 LN_{17}		1997 06 09.09722	15 46 27.13	−11 18 36.4		4	809
1997 LO_{17}	*	1997 06 08.14097	15 47 58.79	−12 05 41.6	18.4	4	809
1997 LO_{17}		1997 06 08.15417	15 47 58.09	−12 05 38.5		4	809
1997 LO_{17}		1997 06 08.16736	15 47 57.39	−12 05 38.5		4	809
1997 LO_{17}		1997 06 09.07083	15 47 11.64	−12 04 02.5		4	809
1997 LO_{17}		1997 06 09.08403	15 47 10.90	−12 04 00.8		4	809
1997 LO_{17}		1997 06 09.09722	15 47 10.24	−12 03 59.7		4	809
1997 LP_{17}	*	1997 06 08.14097	15 48 05.55	−14 50 27.3	18.4	4	809
1997 LP_{17}		1997 06 08.15417	15 48 04.92	−14 50 28.6		4	809
1997 LP_{17}		1997 06 08.16736	15 48 04.30	−14 50 29.4		4	809
1997 LP_{17}		1997 06 09.07083	15 47 22.59	−14 51 06.4		4	809
1997 LP_{17}		1997 06 09.08403	15 47 22.01	−14 51 06.8		4	809
1997 LP_{17}		1997 06 09.09722	15 47 21.36	−14 51 07.7		4	809
1997 LQ_{17}	*	1997 06 08.14097	15 48 17.49	−15 01 10.7	18.4	4	809
1997 LQ_{17}		1997 06 08.15417	15 48 16.87	−15 01 13.5		4	809
1997 LQ_{17}		1997 06 08.16736	15 48 16.17	−15 01 17.1		4	809
1997 LQ_{17}		1997 06 09.07083	15 47 30.94	−15 04 19.1		4	809
1997 LQ_{17}		1997 06 09.08403	15 47 30.38	−15 04 23.1		4	809
1997 LQ_{17}		1997 06 09.09722	15 47 29.69	−15 04 25.1		4	809
1997 LR_{17}	*	1997 06 08.14097	15 48 25.60	−11 29 18.9	18.4	4	809
1997 LR_{17}		1997 06 08.15417	15 48 24.92	−11 29 18.0		4	809
1997 LR_{17}		1997 06 08.16736	15 48 24.26	−11 29 17.6		4	809
1997 LR_{17}		1997 06 09.07083	15 47 39.74	−11 28 26.3		4	809
1997 LR_{17}		1997 06 09.08403	15 47 39.04	−11 28 25.2		4	809
1997 LR_{17}		1997 06 09.09722	15 47 38.41	−11 28 24.9		4	809
1997 LS_{17}	*	1997 06 08.14097	15 48 31.02	−13 46 23.5	17.9	4	809
1997 LS_{17}		1997 06 08.15417	15 48 30.12	−13 46 29.1		4	809
1997 LS_{17}		1997 06 08.16736	15 48 29.35	−13 46 34.6		4	809
1997 LS_{17}		1997 06 09.07083	15 47 33.73	−13 53 06.2		4	809
1997 LS_{17}		1997 06 09.08403	15 47 32.90	−13 53 12.1		4	809
1997 LS_{17}		1997 06 09.09722	15 47 32.05	−13 53 17.3		4	809
1997 LT_{17}	*	1997 06 08.14097	15 48 41.89	−15 43 40.4	18.5	4	809
1997 LT_{17}		1997 06 08.15417	15 48 41.16	−15 43 39.9		4	809
1997 LT_{17}		1997 06 08.16736	15 48 40.61	−15 43 38.7		4	809
1997 LT_{17}		1997 06 09.07083	15 48 00.30	−15 42 53.1		4	809
1997 LT_{17}		1997 06 09.08403	15 47 59.63	−15 42 52.7		4	809
1997 LT_{17}		1997 06 09.09722	15 47 59.03	−15 42 51.8		4	809
1997 LU_{17}	*	1997 06 08.14097	15 48 51.14	−15 54 52.8	18.6	4	809
1997 LU_{17}		1997 06 08.15417	15 48 50.43	−15 54 52.0		4	809
1997 LU_{17}		1997 06 08.16736	15 48 49.83	−15 54 50.0		4	809
1997 LU_{17}		1997 06 09.07083	15 48 09.51	−15 53 14.9		4	809
1997 LU_{17}		1997 06 09.08403	15 48 08.90	−15 53 12.7		4	809
1997 LU_{17}		1997 06 09.09722	15 48 08.30	−15 53 11.9		4	809
1997 LV_{17}	*	1997 06 08.14097	15 49 02.22	−12 32 48.6	18.5	4	809
1997 LV_{17}		1997 06 08.15417	15 49 01.64	−12 32 47.6		4	809
1997 LV_{17}		1997 06 08.16736	15 49 01.06	−12 32 46.9		4	809
1997 LV_{17}		1997 06 09.07083	15 48 24.49	−12 31 04.1		4	809
1997 LV_{17}		1997 06 09.08403	15 48 23.99	−12 31 02.7		4	809
1997 LV_{17}		1997 06 09.09722	15 48 23.42	−12 31 01.3		4	809
1997 LW_{17}	*	1997 06 08.14097	15 49 10.58	−14 41 49.1	18.7	4	809
1997 LW_{17}		1997 06 08.15417	15 49 09.96	−14 41 48.4		4	809
1997 LW_{17}		1997 06 08.16736	15 49 09.30	−14 41 45.6		4	809
1997 LW_{17}		1997 06 09.07083	15 48 31.21	−14 39 35.8		4	809
1997 LW_{17}		1997 06 09.08403	15 48 30.52	−14 39 33.9		4	809
1997 LW_{17}		1997 06 09.09722	15 48 29.94	−14 39 32.0		4	809
1997 LX_{17}	*	1997 06 08.14097	15 49 14.51	−15 21 18.7	17.7	4	809
1997 LX_{17}		1997 06 08.15417	15 49 13.73	−15 21 24.4		4	809
1997 LX_{17}		1997 06 08.16736	15 49 12.95	−15 21 30.3		4	809
1997 LX_{17}		1997 06 09.07083	15 48 19.03	−15 27 55.6		4	809
1997 LX_{17}		1997 06 09.08403	15 48 18.23	−15 28 01.7		4	809
1997 LX_{17}		1997 06 09.09722	15 48 17.43	−15 28 07.8		4	809
1997 LY_{17}	*	1997 06 08.14097	15 49 37.94	−11 41 25.5	18.4	4	809
1997 LY_{17}		1997 06 08.15417	15 49 37.24	−11 41 28.1		4	809
1997 LY_{17}		1997 06 08.16736	15 49 36.61	−11 41 28.3		4	809
1997 LY_{17}		1997 06 09.07083	15 48 54.53	−11 43 29.0		4	809
1997 LY_{17}		1997 06 09.08403	15 48 53.92	−11 43 30.3		4	809
1997 LY_{17}		1997 06 09.09722	15 48 53.26	−11 43 33.1		4	809
1997 LZ_{17}	*	1997 06 08.14097	15 49 50.43	−13 00 50.7	18.5	4	809
1997 LZ_{17}		1997 06 08.15417	15 49 49.67	−13 00 49.2		4	809
1997 LZ_{17}		1997 06 08.16736	15 49 48.95	−13 00 46.3		4	809
1997 LZ_{17}		1997 06 09.07083	15 49 01.00	−12 58 29.7		4	809
1997 LZ_{17}		1997 06 09.08403	15 49 00.22	−12 58 27.6		4	809
1997 LZ_{17}		1997 06 09.09722	15 48 59.50	−12 58 25.0		4	809
1997 LA_{18}	*	1997 06 08.14097	15 50 21.71	−14 56 27.3	18.7	4	809
1997 LA_{18}		1997 06 08.15417	15 50 20.92	−14 56 23.9		4	809
1997 LA_{18}		1997 06 08.16736	15 50 20.13	−14 56 23.4		4	809
1997 LA_{18}		1997 06 09.07083	15 49 31.06	−14 54 19.6		4	809
1997 LA_{18}		1997 06 09.08403	15 49 30.24	−14 54 18.3		4	809
1997 LA_{18}		1997 06 09.09722	15 49 29.55	−14 54 15.8		4	809
1997 LB_{18}	*	1997 06 08.14097	15 50 42.16	−11 58 09.8	18.1	4	809
1997 LB_{18}		1997 06 08.15417	15 50 41.40	−11 58 14.2		4	809
1997 LB_{18}		1997 06 08.16736	15 50 40.63	−11 58 18.8		4	809
1997 LB_{18}		1997 06 09.07083	15 49 51.08	−12 03 16.3		4	809
1997 LB_{18}		1997 06 09.08403	15 49 50.26	−12 03 19.5		4	809
1997 LB_{18}		1997 06 09.09722	15 49 49.57	−12 03 23.6		4	809
1997 LC_{18}	*	1997 06 08.14097	15 50 57.98	−11 58 48.4	18.6	4	809
1997 LC_{18}		1997 06 08.15417	15 50 57.40	−11 58 45.7		4	809
1997 LC_{18}		1997 06 08.16736	15 50 56.85	−11 58 45.0		4	809
1997 LC_{18}		1997 06 09.07083	15 50 20.57	−11 57 01.5		4	809
1997 LC_{18}		1997 06 09.08403	15 50 20.02	−11 57 00.6		4	809

1997 LC_{18}		1997 06 09.09722	15 50 19.44	−11 57 00.3		4	809	1997 NZ_1	1997 06 08.14097	15 36 55.33	−11 01 32.5	18.5	4	809
1997 LD_{18}	*	1997 06 08.14097	15 51 38.37	−13 07 17.5	18.5	4	809	1997 NZ_1	1997 06 08.15417	15 36 54.56	−11 01 36.2		4	809
1997 LD_{18}		1997 06 08.15417	15 51 37.67	−13 07 16.6		4	809	1997 NZ_1	1997 06 08.16736	15 36 54.23	−11 01 38.2		4	809
1997 LD_{18}		1997 06 08.16736	15 51 37.06	−13 07 14.5		4	809	1997 NZ_1	1997 06 09.07083	15 36 18.25	−11 04 17.3		4	809
1997 LD_{18}		1997 06 09.07083	15 50 55.62	−13 05 41.7		4	809	1997 NZ_1	1997 06 09.08403	15 36 17.59	−11 04 20.5		4	809
1997 LD_{18}		1997 06 09.08403	15 50 55.01	−13 05 40.8		4	809	1997 NZ_1	1997 06 09.09722	15 36 17.00	−11 04 23.7		4	809
1997 LD_{18}		1997 06 09.09722	15 50 54.32	−13 05 39.7		4	809	1997 NN_5	1997 06 08.14097	15 42 46.81	−11 38 16.1	18.4	4	809
1997 MR		1997 05 04.25278	16 04 51.66	−15 38 15.4	18.5	4	809	1997 NN_5	1997 06 08.15417	15 42 46.04	−11 38 16.7		4	809
1997 MR		1997 05 04.26597	16 04 51.06	−15 38 11.2		4	809	1997 NN_5	1997 06 08.16736	15 42 45.25	−11 38 17.4		4	809
1997 MR		1997 05 04.27917	16 04 50.45	−15 38 08.7		4	809	1997 NN_5	1997 06 09.07083	15 41 53.73	−11 39 21.2		4	809
1997 MR		1997 06 08.14097	15 38 40.95	−13 12 20.1	18.5	4	809	1997 NN_5	1997 06 09.08403	15 41 52.99	−11 39 21.9		4	809
1997 MR		1997 06 08.15417	15 38 40.41	−13 12 17.2		4	809	1997 NN_5	1997 06 09.09722	15 41 52.20	−11 39 22.7		4	809
1997 MR		1997 06 08.16736	15 38 39.92	−13 12 14.6		4	809	2098 P-L	1997 03 08.24792	12 53 29.31	−07 17 55.8		4	809
1997 MR		1997 06 09.07083	15 38 04.66	−13 09 20.2		4	809	2098 P-L	1997 03 08.26111	12 53 28.78	−07 17 51.2		4	809
1997 MR		1997 06 09.08403	15 38 04.12	−13 09 18.0		4	809	2098 P-L	1997 03 08.27431	12 53 28.28	−07 17 45.7		4	809
1997 MR		1997 06 09.09722	15 38 03.54	−13 09 15.3		4	809	2098 P-L	1997 03 09.26944	12 52 52.53	−07 11 38.5	18.5	4	809
1997 MX_1		1997 06 08.14097	15 33 39.95	−15 00 49.8	18.5	4	809	2098 P-L	1997 03 09.28264	12 52 52.00	−07 11 33.7		4	809
1997 MX_1		1997 06 08.15417	15 33 39.41	−15 00 46.0		4	809	2098 P-L	1997 03 09.29583	12 52 51.48	−07 11 29.0		4	809
1997 MX_1		1997 06 08.16736	15 33 38.95	−15 00 41.9		4	809	2635 P-L	1997 03 05.22431	12 35 34.22	−05 00 39.8	18.4	4	809
1997 MX_1		1997 06 09.07083	15 33 07.30	−14 56 21.6		4	809	2635 P-L	1997 03 05.23750	12 35 33.71	−05 00 36.0		4	809
1997 MX_1		1997 06 09.08403	15 33 06.79	−14 56 18.4		4	809	2635 P-L	1997 03 05.25069	12 35 33.20	−05 00 31.5		4	809
1997 MX_1		1997 06 09.09722	15 33 06.28	−14 56 14.5		4	809	2635 P-L	1997 03 06.23542	12 34 57.47	−04 55 11.8		4	809
1997 MJ_2		1997 06 08.14097	15 46 14.69	−13 25 04.3	18.5	4	809	2635 P-L	1997 03 06.24861	12 34 56.94	−04 55 07.5		4	809
1997 MJ_2		1997 06 08.15417	15 46 13.93	−13 25 04.8		4	809	2635 P-L	1997 03 06.26181	12 34 56.43	−04 55 03.2		4	809
1997 MJ_2		1997 06 08.16736	15 46 13.21	−13 25 06.2		4	809	6053 P-L	1997 04 01.20556	13 37 28.03	−11 12 26.5	18.5	4	809
1997 MJ_2		1997 06 09.07083	15 45 26.06	−13 26 03.6		4	809	6053 P-L	1997 04 01.21875	13 37 27.42	−11 12 22.6		4	809
1997 MJ_2		1997 06 09.08403	15 45 25.30	−13 26 03.5		4	809	6053 P-L	1997 04 01.23194	13 37 26.81	−11 12 18.8		4	809
1997 MJ_2		1997 06 09.09722	15 45 24.62	−13 26 04.9		4	809	1063 T-2	1997 04 01.20556	13 41 10.32	−10 20 52.9	18.4	4	809
1997 MK_2		1997 06 08.14097	15 50 36.70	−14 27 15.2	18.6	4	809	1063 T-2	1997 04 01.21875	13 41 09.54	−10 20 47.5		4	809
1997 MK_2		1997 06 08.15417	15 50 35.96	−14 27 14.3		4	809	1063 T-2	1997 04 01.23194	13 41 08.86	−10 20 43.0		4	809
1997 MK_2		1997 06 08.16736	15 50 35.30	−14 27 12.9		4	809	1101 T-2	1997 04 01.20556	13 37 56.21	−11 38 33.2	18.5	4	809
1997 MK_2		1997 06 09.07083	15 49 52.20	−14 25 42.4		4	809	1101 T-2	1997 04 01.21875	13 37 55.64	−11 38 30.9		4	809
1997 MK_2		1997 06 09.08403	15 49 51.52	−14 25 41.0		4	809	1101 T-2	1997 04 01.23194	13 37 55.03	−11 38 27.5		4	809
1997 MK_2		1997 06 09.09722	15 49 50.84	−14 25 39.3		4	809	1260 T-2	1997 03 05.22431	12 35 34.45	−03 47 53.7	18.4	4	809
1997 ML_2		1997 06 08.14097	15 51 43.58	−14 30 02.4	18.4	4	809	1260 T-2	1997 03 05.23750	12 35 33.98	−03 47 48.0		4	809
1997 ML_2		1997 06 08.15417	15 51 42.84	−14 30 01.6		4	809	1260 T-2	1997 03 05.25069	12 35 33.54	−03 47 42.2		4	809
1997 ML_2		1997 06 08.16736	15 51 42.13	−14 29 59.4		4	809	1260 T-2	1997 03 06.23542	12 34 59.25	−03 40 19.1		4	809
1997 ML_2		1997 06 09.07083	15 50 55.64	−14 28 18.6		4	809	1260 T-2	1997 03 06.24861	12 34 58.76	−03 40 14.1		4	809
1997 ML_2		1997 06 09.08403	15 50 54.95	−14 28 17.1		4	809	1260 T-2	1997 03 06.26181	12 34 58.27	−03 40 07.6		4	809
1997 ML_2		1997 06 09.09722	15 50 54.24	−14 28 16.0		4	809	2086 T-2	1997 03 08.24792	12 39 51.54	−06 21 44.7		4	809
1997 NA		1997 06 08.14097	15 41 12.48	−15 14 01.8	18.5	4	809	2086 T-2	1997 03 08.26111	12 39 50.94	−06 21 45.0		4	809
1997 NA		1997 06 08.15417	15 41 11.75	−15 13 57.8		4	809	2086 T-2	1997 03 08.27431	12 39 50.41	−06 21 44.5		4	809
1997 NA		1997 06 08.16736	15 41 11.01	−15 13 54.1		4	809	2086 T-2	1997 03 09.26944	12 39 11.25	−06 21 35.4	18.3	4	809
1997 NA		1997 06 09.07083	15 40 23.06	−15 09 13.7		4	809	2086 T-2	1997 03 09.28264	12 39 10.70	−06 21 35.6		4	809
1997 NA		1997 06 09.08403	15 40 22.23	−15 09 09.3		4	809	2086 T-2	1997 03 09.29583	12 39 10.12	−06 21 35.7		4	809
1997 NA		1997 06 09.09722	15 40 21.55	−15 09 05.9		4	809	4092 T-3	1997 03 08.24792	12 54 30.47	−04 35 05.5		4	809
1997 NB		1997 06 08.14097	15 47 12.59	−12 44 42.0	18.3	4	809	4092 T-3	1997 03 08.26111	12 54 30.10	−04 34 57.8		4	809
1997 NB		1997 06 08.15417	15 47 11.98	−12 44 43.1		4	809	4092 T-3	1997 03 08.27431	12 54 29.69	−04 34 49.8		4	809
1997 NB		1997 06 08.16736	15 47 11.44	−12 44 43.7		4	809	4092 T-3	1997 03 09.26944	12 54 02.09	−04 25 02.4	18.0	4	809
1997 NB		1997 06 09.07083	15 46 34.11	−12 45 53.9		4	809	4092 T-3	1997 03 09.28264	12 54 01.72	−04 24 54.9		4	809
1997 NB		1997 06 09.08403	15 46 33.51	−12 45 54.3		4	809	4092 T-3	1997 03 09.29583	12 54 01.28	−04 24 47.3		4	809
1997 NB		1997 06 09.09722	15 46 32.97	−12 45 55.1		4	809	(300)	1997 03 08.24792	12 53 35.18	−05 04 29.9		4	809

(300)	1997 03 08.26111	12 53 34.70	−05 04 27.0		4	809
(300)	1997 03 08.27431	12 53 34.22	−05 04 23.8		4	809
(300)	1997 03 09.26944	12 53 00.92	−05 00 56.8	17.3	4	809
(300)	1997 03 09.28264	12 53 00.45	−05 00 54.2		4	809
(300)	1997 03 09.29583	12 52 59.97	−05 00 51.4		4	809
(337)	1997 03 08.24792	12 40 41.29	−05 54 25.5		4	809
(337)	1997 03 08.26111	12 40 40.55	−05 54 25.1		4	809
(337)	1997 03 08.27431	12 40 39.81	−05 54 24.5		4	809
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(337)	1997 03 09.28264	12 39 46.46	−05 53 15.0		4	809
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816 Rand Observatory

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[GRViscome@compuserve.com]

0.37-m $f/6$ reflector + CCD

GSC, USNO-SA1.0

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1990 VB_{14}	1997 07 30.26644	21 51 08.53	−11 48 49.0	18.0 R		816
1990 VB_{14}	1997 07 30.27492	21 51 08.11	−11 48 50.4	18.0 R		816
1990 VB_{14}	1997 07 31.18690	21 50 24.40	−11 51 47.5	18.0 R		816
1990 VB_{14}	1997 07 31.19437	21 50 24.04	−11 51 49.0	18.0 R		816
1990 VB_{14}	1997 07 31.20380	21 50 23.58	−11 51 50.7	18.0 R		816
1990 VB_{14}	1997 08 01.22830	21 49 33.10	−11 55 16.0	17.6 R		816
1990 VB_{14}	1997 08 01.23559	21 49 32.71	−11 55 17.9	17.9 R		816
1990 VB_{14}	1997 08 01.24148	21 49 32.42	−11 55 19.2	17.7 R		816
1990 VB_{14}	1997 08 01.24892	21 49 32.02	−11 55 20.3	17.9 R		816
1991 EM_1	1997 07 08.17350	16 10 14.15	−05 39 24.5	18.2 R		816
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1991 EM_1	1997 07 11.12566	16 09 19.71	−05 48 08.9	17.8 R		816
1991 EM_1	1997 07 11.13490	16 09 19.54	−05 48 10.8	17.9 R	d	816
1991 EM_1	1997 07 11.14132	16 09 19.44	−05 48 12.2	18.0 R	d	816
1991 RR_{12}	1997 04 11.14730	13 04 31.79	−06 21 02.4	18.6 R		816
1991 RR_{12}	1997 04 11.15094	13 04 31.66	−06 21 00.9	18.4 R		816
1991 RR_{12}	1997 04 11.15701	13 04 31.23	−06 20 59.3	18.5 R		816
1991 RR_{12}	1997 04 12.18034	13 03 32.50	−06 16 04.5	18.4 R		816
1991 RR_{12}	1997 04 12.19021	13 03 31.92	−06 16 02.0	18.3 R		816
1992 CD_1	1997 08 07.27625	22 34 04.51	−05 57 02.5	17.4 R		816
1992 CD_1	1997 08 07.28010	22 34 04.32	−05 57 03.6	17.2 R		816
1992 CD_1	1997 08 07.29825	22 34 03.48	−05 57 08.7	17.3 R		816
1992 CD_1	1997 08 07.30434	22 34 03.23	−05 57 10.8	17.3 R		816
1992 OM_7	1997 08 07.26530	22 33 59.36	−05 44 59.8	16.5 R		816
1992 OM_7	1997 08 07.26941	22 33 59.19	−05 45 00.3	16.6 R		816
1996 DE	1997 06 28.17837	17 34 16.66	−00 21 06.6	17.3 R		816
1996 DE	1997 06 28.19667	17 34 15.68	−00 21 12.2	17.1 R		816
1996 HT_{17}	1997 07 31.16001	20 43 42.14	−17 01 17.4	16.7 R		816
1996 HT_{17}	1997 07 31.16781	20 43 41.73	−17 01 19.5	16.6 R		816
1996 HT_{17}	1997 07 31.17436	20 43 41.40	−17 01 21.0	16.7 R		816
1996 HT_{17}	1997 07 31.17881	20 43 41.16	−17 01 22.3	17.0 R		816
1997 GM_{33}	1997 04 11.14730	13 04 49.94	−06 22 29.6	17.5 R		816
1997 GM_{33}	1997 04 11.15094	13 04 49.76	−06 22 27.3	17.3 R		816
1997 GM_{33}	1997 04 11.15701	13 04 49.46	−06 22 23.8	17.7 R		816
1997 GM_{33}	1997 04 11.16229	13 04 49.21	−06 22 20.6	16.9 R		816
1997 GM_{33}	1997 04 12.19021	13 04 00.77	−06 12 00.3	18.0 R		816
1997 GM_{33}	1997 04 12.19488	13 04 00.56	−06 11 57.5	17.7 R		816
1997 NR_2	1997 07 26.13826	20 47 16.38	−16 35 14.8	17.7 R		816
1997 NR_2	1997 07 26.14202	20 47 16.17	−16 35 15.8	17.7 R		816
1997 NR_2	1997 07 26.14947	20 47 15.78	−16 35 17.6	17.8 R		816
1997 NR_2	1997 07 30.20042	20 43 37.98	−16 51 36.2	17.7 R		816
1997 NR_2	1997 07 30.21102	20 43 37.41	−16 51 39.4	17.5 R		816
1997 NR_2	1997 07 30.21802	20 43 37.00	−16 51 40.8	17.5 R		816
1997 NR_2	1997 07 30.22620	20 43 36.52	−16 51 42.8	17.4 R		816
1997 NR_2	1997 07 31.16001	20 42 45.79	−16 55 30.6	17.4 R		816
1997 NR_2	1997 07 31.16781	20 42 45.33	−16 55 32.7	17.6 R		816
1997 NR_2	1997 07 31.17436	20 42 45.00	−16 55 34.3	17.5 R		816
1997 NR_2	1997 07 31.17881	20 42 44.72	−16 55 34.9	17.5 R		816
1997 NR_2	1997 08 01.17987	20 41 50.09	−16 59 39.5	17.7 R		816
1997 NR_2	1997 08 01.20909	20 41 48.43	−16 59 46.4	17.9 R		816
1997 OM	* 1997 07 26.13826	20 47 24.90	−16 34 58.9	17.9 R		816
1997 OM	1997 07 26.14202	20 47 24.69	−16 34 59.9	18.1 R		816
1997 OM	1997 07 26.14947	20 47 24.31	−16 35 01.1	18.1 R		816
1997 OM	1997 07 30.20042	20 44 03.46	−16 52 07.8	18.0 R		816
1997 OM	1997 07 30.21102	20 44 02.90	−16 52 10.4	17.9 R		816
1997 OM	1997 07 30.21802	20 44 02.52	−16 52 12.2	18.0 R		816
1997 OM	1997 07 30.22620	20 44 02.09	−16 52 14.6	18.0 R		816
1997 OM	1997 07 31.16001	20 43 15.39	−16 56 12.1	17.7 R		816
1997 OM	1997 07 31.16781	20 43 15.04	−16 56 14.5	17.9 R		816
1997 OM	1997 07 31.17436	20 43 14.67	−16 56 15.7	18.0 R		816
1997 OM	1997 07 31.17881	20 43 14.43	−16 56 16.9	18.0 R		816

1997 OM		1997 08 01.20909	20 42 22.66	−17 00 40.1	18.2	R	816
1997 OM		1997 08 01.21885	20 42 22.15	−17 00 42.5	18.1	R	816
1997 OE_1	*	1997 07 30.20042	20 44 33.82	−16 51 43.9	18.8	R	816
1997 OE_1		1997 07 30.21102	20 44 33.09	−16 51 46.5	18.3	R	816
1997 OE_1		1997 07 30.21802	20 44 32.70	−16 51 47.7	18.7	R	816
1997 OE_1		1997 07 30.22620	20 44 32.22	−16 51 48.8	18.4	R	816
1997 OE_1		1997 07 31.16001	20 43 35.92	−16 54 39.9	18.3	R	816
1997 OE_1		1997 07 31.16781	20 43 35.42	−16 54 41.3	17.9	R	816
1997 OE_1		1997 07 31.17436	20 43 35.02	−16 54 41.6	18.2	R	816
1997 OE_1		1997 07 31.17881	20 43 34.75	−16 54 43.4	18.2	R	816
1997 OE_1		1997 08 01.17987	20 42 34.40	−16 57 45.1	18.2	R F	816
1997 OE_1		1997 08 01.18410	20 42 34.02	−16 57 45.9	18.7	R F	816
1997 OE_1		1997 08 01.21885	20 42 31.83	−16 57 52.7	18.5	R F	816
1997 OF_1	*	1997 07 30.25920	21 50 59.62	−11 48 53.6	17.3	R	816
1997 OF_1		1997 07 30.26644	21 50 59.31	−11 48 54.6	17.4	R	816
1997 OF_1		1997 07 30.27492	21 50 58.95	−11 48 55.4	17.3	R	816
1997 OF_1		1997 07 31.18690	21 50 21.45	−11 50 50.8	17.5	R	816
1997 OF_1		1997 07 31.19437	21 50 21.10	−11 50 51.9	17.4	R	816
1997 OF_1		1997 07 31.20380	21 50 20.71	−11 50 53.3	17.2	R	816
1997 OF_1		1997 08 01.22830	21 49 36.87	−11 53 10.4	17.3	R	816
1997 OF_1		1997 08 01.23559	21 49 36.54	−11 53 11.2	17.4	R	816
1997 OF_1		1997 08 01.24148	21 49 36.28	−11 53 11.9	17.4	R	816
1997 OF_1		1997 08 01.24892	21 49 35.92	−11 53 13.1	17.4	R	816
1997 PL_2	*	1997 08 07.26530	22 34 31.41	−05 39 42.4	18.4	R	816
1997 PL_2		1997 08 07.26941	22 34 31.24	−05 39 43.2	18.4	R	816
1997 PL_2		1997 08 07.29120	22 34 30.51	−05 39 46.9	19.0	R	816
1997 PM_2	*	1997 08 07.27625	22 34 19.08	−05 51 08.8	17.9	R	816
1997 PM_2		1997 08 07.28010	22 34 18.89	−05 51 09.4	18.0	R	816
1997 PM_2		1997 08 07.29825	22 34 18.13	−05 51 10.9	17.8	R	816
1997 PM_2		1997 08 07.30434	22 34 17.89	−05 51 11.9	17.9	R	816
(1980)		1997 07 23.13445	17 53 01.65	+41 48 24.2	14.0	R	816
(1980)		1997 07 23.13618	17 53 01.45	+41 48 27.4	14.0	R	816
(1980)		1997 07 23.14331	17 53 00.61	+41 48 40.2	14.0	R	816
(1980)		1997 07 23.14560	17 53 00.34	+41 48 44.3	14.0	R	816
(1980)		1997 07 26.12578	17 47 36.70	+43 13 53.5	14.4	R	816
(1980)		1997 07 26.12737	17 47 36.52	+43 13 56.1	14.4	R	816
(1980)		1997 07 26.12896	17 47 36.34	+43 13 58.6	14.3	R	816

823 Fitchburg

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0.28-m Schmidt-Cassegrain + CCD
GSC

1984 UX_2		1997 08 10.32676	00 40 30.71	−06 10 06.8	17.0		823
1984 UX_2		1997 08 11.31358	00 40 29.67	−06 07 34.3	17.1		823
1997 PC_2	*	1997 08 07.26241	22 30 49.13	−09 01 51.6	18.0		823
1997 PC_2		1997 08 07.29772	22 30 47.54	−09 01 59.1	17.9		823
1997 PC_2		1997 08 08.19512	22 30 06.26	−09 05 16.1	17.6		823
1997 PC_2		1997 08 08.21802	22 30 05.27	−09 05 21.2	17.6		823
(1094)		1997 08 01.32667	22 33 53.35	−08 09 28.3	16.2		823
(1094)		1997 08 01.34098	22 33 52.90	−08 09 35.3	16.2		823
(1094)		1997 08 03.23277	22 32 50.62	−08 24 44.7	16.2		823
(1094)		1997 08 03.24744	22 32 50.10	−08 24 52.2	16.0		823
(1094)		1997 08 07.26241	22 30 24.28	−08 58 45.0	16.2		823
(1094)		1997 08 07.27993	22 30 23.61	−08 58 54.3	16.2		823
(1094)		1997 08 08.19512	22 29 48.17	−09 06 56.0	16.1		823
(1094)		1997 08 08.21802	22 29 47.23	−09 07 08.1	16.1		823

824 Lake Clear

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

1978 VE_{11}		1997 08 07.15808	21 35 34.76	−03 23 27.1	18.1	R	824
1978 VE_{11}		1997 08 07.16221	21 35 34.52	−03 23 27.9	18.0	R	824
1978 VE_{11}		1997 08 07.16699	21 35 34.22	−03 23 28.9	18.0	R	824
1978 VE_{11}		1997 08 09.19463	21 33 34.15	−03 30 26.5	18.9	R	824
1978 VE_{11}		1997 08 09.19835	21 33 33.93	−03 30 27.5	18.7	R	824
1978 VE_{11}		1997 08 09.20300	21 33 33.65	−03 30 28.4	19.0	R	824
1991 GZ_9		1997 08 07.17669	21 42 54.66	−06 36 40.9	19.1	R	824
1991 GZ_9		1997 08 07.18062	21 42 54.48	−06 36 41.0	19.3	R	824
1991 GZ_9		1997 08 07.18485	21 42 54.32	−06 36 42.0	19.2	R	824
1991 GZ_9		1997 08 09.21050	21 41 13.78	−06 41 57.0	18.5	R	824
1991 GZ_9		1997 08 09.21762	21 41 13.63	−06 41 57.5	18.3	R	824
1991 GZ_9		1997 08 09.22186	21 41 13.34	−06 41 56.6	18.9	R	824
1991 VO		1997 07 11.16205	16 16 07.59	−13 42 43.5	19.0	R	824
1991 VO		1997 07 11.16619	16 16 07.52	−13 42 43.5	18.8	R	824
1991 VO		1997 07 11.17050	16 16 07.44	−13 42 44.0	18.9	R	824
1991 VO		1997 07 23.13623	16 15 00.02	−13 54 04.6	19.5	R	824
1991 VO		1997 07 23.13999	16 14 59.99	−13 54 05.1	19.4	R	824
1991 VO		1997 07 23.14437	16 15 00.02	−13 54 05.9	19.5	R	824
1992 DZ		1997 08 07.09481	17 07 03.29	−08 49 23.8	19.1	R	824
1992 DZ		1997 08 07.10009	17 07 03.31	−08 49 26.1	18.9	R	824
1992 DZ		1997 08 07.10426	17 07 03.30	−08 49 27.9	18.9	R	824
1992 DZ		1997 08 09.09679	17 07 15.14	−09 04 47.6	18.9	R	824
1992 DZ		1997 08 09.10079	17 07 15.15	−09 04 49.5	19.2	R	824
1992 DZ		1997 08 09.10507	17 07 15.19	−09 04 51.4	19.1	R	824
1992 EX_{17}		1997 08 07.11360	19 41 29.11	−08 59 03.3	18.6	R	824
1992 EX_{17}		1997 08 07.11775	19 41 28.90	−08 59 04.2	18.5	R	824
1992 EX_{17}		1997 08 07.12162	19 41 28.70	−08 59 05.2	18.5	R	824
1992 EX_{17}		1997 08 09.12392	19 39 48.68	−09 08 57.3	18.1	R	824
1992 EX_{17}		1997 08 09.12811	19 39 48.56	−09 08 57.9	17.8	R	824
1992 EX_{17}		1997 08 09.13205	19 39 48.48	−09 08 59.4	17.5	R	824
1993 FQ		1997 07 11.14682	16 15 27.17	−12 55 25.3	17.6	R	824
1993 FQ		1997 07 11.15064	16 15 27.15	−12 55 25.6	17.7	R	824
1993 FQ		1997 07 11.15421	16 15 27.03	−12 55 26.3	17.7	R	824
1993 FQ		1997 07 12.15551	16 15 21.40	−12 55 26.4	18.0	R	824
1993 FQ		1997 07 12.15997	16 15 21.37	−12 55 26.4	18.0	R	824
1993 FQ		1997 07 12.16356	16 15 21.36	−12 55 26.4	18.1	R	824
1993 FT_{31}		1997 07 23.07737	16 10 35.46	−13 30 43.4	18.7	R	824
1993 FT_{31}		1997 07 23.08645	16 10 35.43	−13 30 45.9	18.7	R	824
1993 FT_{31}		1997 07 26.12174	16 10 47.25	−13 43 29.8	18.7	R	824
1993 FT_{31}		1997 07 26.12968	16 10 47.30	−13 43 32.1	18.6	R	824
1993 FT_{31}		1997 07 26.13462	16 10 47.32	−13 43 33.5	18.6	R	824
1996 CS_8		1997 07 11.11420	16 04 34.41	−13 58 08.8	18.1	R	824
1996 CS_8		1997 07 11.11835	16 04 34.39	−13 58 08.9	18.0	R	824

1996 CS_8		1997 07 11.12237	16 04 34.38	−13 58 09.3	18.1	R	824
1996 CS_8		1997 07 12.10344	16 04 24.71	−14 00 44.6	18.7	R	824
1996 CS_8		1997 07 12.10742	16 04 24.66	−14 00 45.5	19.0	R	824
1996 CS_8		1997 07 12.11177	16 04 24.64	−14 00 46.5	19.0	R	824
1996 HV_{24}		1997 08 07.13199	20 28 25.64	−07 18 01.4	18.7	R	824
1996 HV_{24}		1997 08 07.14392	20 28 25.02	−07 18 03.3	18.5	R	824
1996 HV_{24}		1997 08 07.14792	20 28 24.85	−07 18 04.6	18.3	R	824
1996 HV_{24}		1997 08 09.17651	20 26 53.93	−07 25 17.3	18.2	R	824
1996 HV_{24}		1997 08 09.18052	20 26 53.73	−07 25 18.4	18.3	R	824
1996 HV_{24}		1997 08 09.18453	20 26 53.53	−07 25 19.1	18.2	R	824
1997 LG_4		1997 07 23.10854	16 15 14.31	−00 57 59.3	20.3	R	824
1997 LG_4		1997 07 23.11248	16 15 14.27	−00 58 02.0	20.0	R	824
1997 LG_4		1997 07 23.11638	16 15 14.26	−00 58 03.8	20.1	R	824
1997 LH_4		1997 07 23.12206	16 30 26.75	−01 20 37.0	19.2	R	824
1997 LH_4		1997 07 23.12600	16 30 26.76	−01 20 37.7	19.2	R	824
1997 LH_4		1997 07 23.12984	16 30 26.73	−01 20 39.7	19.1	R	824
1997 NG_6		1997 07 23.07737	16 10 39.56	−13 39 13.5	18.8	R	824
1997 NG_6		1997 07 23.08189	16 10 39.55	−13 39 15.4	19.1	R	824
1997 NG_6		1997 07 23.08645	16 10 39.52	−13 39 16.1	18.8	R	824
1997 NG_6		1997 07 25.11348	16 10 35.73	−13 48 50.7	19.1	R	824
1997 NG_6		1997 07 25.11744	16 10 35.73	−13 48 52.2	19.1	R	824
1997 NG_6		1997 07 25.12124	16 10 35.70	−13 48 53.6	19.3	R	824
1997 NG_6		1997 07 26.07742	16 10 35.95	−13 53 25.9	19.9	R	824
1997 NG_6		1997 07 26.09232	16 10 35.94	−13 53 32.7	19.8	R	824
1997 NG_6		1997 07 26.09829	16 10 35.97	−13 53 34.5	19.8	R	824
1997 NG_6		1997 07 31.08918	16 10 57.55	−14 18 08.0	18.8	R	824
1997 NG_6		1997 07 31.09419	16 10 57.57	−14 18 10.0	19.1	R	824
1997 NG_6		1997 07 31.09854	16 10 57.60	−14 18 11.0	18.9	R	824
1997 OA	*	1997 07 23.07737	16 10 07.49	−13 32 28.4	18.9	R	824
1997 OA		1997 07 23.08645	16 10 07.45	−13 32 32.9	19.0	R	824
1997 OA		1997 07 23.10159	16 10 07.34	−13 32 40.2	18.9	R	824
1997 OA		1997 07 25.12907	16 09 57.19	−13 48 12.1	19.2	R	824
1997 OA		1997 07 25.13314	16 09 57.22	−13 48 13.8	19.5	R	824
1997 OA		1997 07 25.13723	16 09 57.20	−13 48 15.8	19.8	R	824
1997 OA		1997 07 26.07742	16 09 54.54	−13 55 29.8	19.1	R	824
1997 OA		1997 07 26.09232	16 09 54.50	−13 55 36.9	18.6	R	824
1997 OA		1997 07 26.09829	16 09 54.44	−13 55 39.7	18.4	R	824
1997 OA		1997 07 31.06913	16 10 00.50	−14 34 01.3	19.1	R	824
1997 OA		1997 07 31.07755	16 10 00.49	−14 34 05.6	19.1	R	824
1997 OA		1997 07 31.08181	16 10 00.46	−14 34 07.9	19.0	R	824
1997 PE_2	*	1997 08 07.11360	19 40 58.83	−08 54 48.7	15.8	R	824
1997 PE_2		1997 08 07.11775	19 40 58.70	−08 54 53.4	15.8	R	824
1997 PE_2		1997 08 07.12162	19 40 58.53	−08 54 59.1	16.0	R	824
1997 PE_2		1997 08 09.14191	19 40 03.78	−09 37 49.6	15.9	R	824
1997 PE_2		1997 08 09.14641	19 40 03.66	−09 37 55.7	15.9	R	824
1997 PE_2		1997 08 09.15082	19 40 03.49	−09 38 00.8	15.9	R	824
1997 PE_2		1997 08 10.10502	19 39 39.99	−09 58 18.3	15.6	R	824
1997 PE_2		1997 08 10.10977	19 39 39.72	−09 58 23.8	15.6	R	824
1997 PE_2		1997 08 10.11355	19 39 39.73	−09 58 27.5	15.1	R	824
1997 PP_2	*	1997 08 07.17669	21 42 53.05	−06 42 23.4	18.9	R	824
1997 PP_2		1997 08 07.18062	21 42 52.81	−06 42 22.8	19.0	R	824
1997 PP_2		1997 08 07.18485	21 42 52.57	−06 42 22.1	18.9	R	824
1997 PP_2		1997 08 09.21050	21 40 57.36	−06 37 04.2	19.1	R	824
1997 PP_2		1997 08 09.21762	21 40 56.92	−06 37 02.9	19.2	R	824
1997 PP_2		1997 08 09.22186	21 40 56.68	−06 37 02.1	19.5	R	824
1997 PQ_2	*	1997 08 07.17669	21 42 58.80	−06 34 24.9	19.7	R	824
1997 PQ_2		1997 08 07.18062	21 42 58.65	−06 34 25.8	19.8	R	824
1997 PQ_2		1997 08 07.18485	21 42 58.60	−06 34 26.9	19.8	R	824
1997 PQ_2		1997 08 09.21050	21 41 32.59	−06 47 13.2	19.6	R	824
1997 PQ_2		1997 08 09.21762	21 41 32.26	−06 47 16.2	19.4	R	824
1997 PQ_2		1997 08 09.22186	21 41 32.06	−06 47 17.9	19.3	R	824
(5347)		1997 08 09.14191	19 39 33.20	−09 41 24.8	18.2	R	824
(5347)		1997 08 09.14641	19 39 33.09	−09 41 26.3	18.2	R	824
(5347)		1997 08 09.15082	19 39 32.89	−09 41 28.0	18.0	R	824
(7730)		1997 07 11.09210	15 37 22.91	−08 10 07.6	18.8	R	824
(7730)		1997 07 11.09983	15 37 22.91	−08 10 09.6	18.7	R	824
(7730)		1997 07 11.10525	15 37 22.89	−08 10 11.3	18.7	R	824
(7730)		1997 07 12.08603	15 37 24.82	−08 15 28.5	18.4	R	824
(7730)		1997 07 12.09019	15 37 24.84	−08 15 29.3	18.5	R	824
(7730)		1997 07 12.09396	15 37 24.84	−08 15 30.8	18.4	R	824

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

1994 LX		1997 07 12.32696	00 29 14.12	−32 19 59.5	17.0	R	861
1994 LX		1997 07 12.33976	00 29 16.20	−32 20 28.2	17.1	R	861
1994 LX		1997 07 12.34413	00 29 16.87	−32 20 38.3	17.0	R	861
1994 LX		1997 07 12.34943	00 29 17.72	−32 20 49.8	17.1	R	861
1997 LY_4		1997 07 06.27942	19 43 12.74	−01 30 32.6			861
1997 LY_4		1997 07 06.28639	19 43 12.63	−01 30 21.2			861
1997 LY_4		1997 07 11.28666	19 41 50.54	+00 34 26.3	15.9	R	861
1997 LY_4		1997 07 14.33870	19 40 52.55	+01 44 20.2	15.7	R	861
1997 LY_4		1997 07 14.34559	19 40 52.39	+01 44 29.5	16.0	R	861
1997 PN		1997 08 03.06341	20 24 27.54	−20 33 24.5	17.7	R	861
1997 PN		1997 08 03.06795	20 24 26.90	−20 32 56.3	18.2	R	861
1997 PN		1997 08 03.10566	20 24 21.40	−20 29 25.2	17.7	R	861
1997 PN		1997 08 03.12666	20 24 18.40	−20 27 28.7	17.8	R	861
1997 PO		1997 08 03.00880	20 14 15.01	−10 23 32.3	17.3	R	861
1997 PO		1997 08 03.02135	20 14 14.72	−10 23 56.8	17.4	R	861
1997 PO		1997 08 03.03374	20 14 14.45	−10 24 21.1	17.4	R	861
(2915)		1997 07 06.20292	17 33 17.64	−45 16 01.2			861
(2915)		1997 07 06.21032	17 33 17.22	−45 15 59.1			861
(2915)		1997 07 11.18098	17 28 07.66	−44 50 40.2	16.7	R	861

886 Susono

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

1988 CT_2		1997 07 14.59162	19 54 50.84	−20 06 17.2	17.5	V	886
1988 CT_2		1997 07 14.61714	19 54 49.37	−20 06 23.2			886
1988 CT_2		1997 07 24.58992	19 45 29.50	−20 49 16.0			886
1988 CT_2		1997 07 24.60248	19 45 28.75	−20 49 18.3			886
1990 RF_2		1997 07 14.58750	19 40 23.34	−18 20 14.1	16.5	V	886

1990 RF_2	1997 07 14.61218	19 40 21.82	−18 20 16.3			886
1990 RF_2	1997 07 24.57109	19 31 14.65	−18 37 21.7			886
1990 RF_2	1997 07 24.59427	19 31 13.35	−18 37 23.5			886
1991 RJ_7	1997 07 14.60380	19 48 48.76	−20 51 20.3	17.5	V	886
1991 RJ_7	1997 07 14.62117	19 48 47.58	−20 51 19.1			886
1991 RJ_7	1997 07 24.60662	19 38 06.30	−20 55 09.4			886
1991 RJ_7	1997 07 24.62780	19 38 04.93	−20 55 10.8			886

897 YGCO Chiyoda Station

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0.25-m $f/6.0$ reflector + CCD

GSC

1997 AX_{12}	1997 01 29.65104	08 48 40.10	+22 23 01.7	17.0	R	897
1997 AX_{12}	1997 01 29.66117	08 48 39.57	+22 23 08.3			897
1997 AQ_{18}	1997 01 29.67164	07 17 52.25	+16 56 54.0			897
1997 AQ_{18}	1997 01 29.67939	07 17 51.07	+16 56 45.7	18.0	R	897
1997 BQ	1997 01 30.52468	12 27 19.28	+67 54 29.6			897
1997 BQ	1997 01 30.52843	12 27 22.02	+67 54 38.8			897
1997 BQ	1997 01 30.53126	12 27 24.26	+67 54 45.1	16.6	R	897
1997 BR	1997 01 30.51240	10 08 45.95	+30 18 14.6			897
1997 BR	1997 01 30.51871	10 08 45.47	+30 18 32.9	16.5	R	897
1997 BR	1997 02 23.46139	09 29 44.15	+50 53 14.6	16.7	R	897
1997 BR	1997 02 23.46833	09 29 43.01	+50 53 34.6			897
1997 BR	1997 02 23.48920	09 29 39.81	+50 54 33.0	16.8	R	897
1997 BR	1997 02 23.49615	09 29 38.79	+50 54 52.6			897
1997 CO_5	1997 02 12.55165	08 59 53.21	+16 02 51.2	16.7	R	897
1997 CO_5	1997 02 12.55628	08 59 52.80	+16 02 45.5			897
1997 CO_5	1997 02 12.56426	08 59 52.13	+16 02 35.6			897
1997 CT_{19}	1997 02 14.53731	09 15 46.53	+13 05 36.5			897
1997 CT_{19}	1997 02 14.55223	09 15 45.66	+13 05 42.2	17.1	R	897
1997 PO	1997 08 09.54648	20 12 34.46	−13 50 13.0	17.5	R	897
1997 PO	1997 08 09.56354	20 12 34.16	−13 50 45.4			897
(538)	1997 02 12.55165	09 00 11.89	+16 07 23.9	14.2	R	897
(538)	1997 02 12.55628	09 00 11.68	+16 07 25.1			897
(538)	1997 02 12.56426	09 00 11.32	+16 07 27.5			897
(4041)	1997 01 30.45799	03 21 38.44	+11 20 57.6	16.6	R	897
(4041)	1997 01 30.47882	03 21 38.87	+11 21 04.7			897
(4041)	1997 02 01.45436	03 22 25.67	+11 32 01.5			897
(4041)	1997 02 01.47751	03 22 26.19	+11 32 09.0	16.9	R	897

900 Moriyama

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0.25-m $f/6.3$ reflector + CCD

GSC

1997 NR_{10}	*	1997 07 06.66715	20 09 58.39	−11 57 03.7	18.2	V	900
1997 NR_{10}		1997 07 06.71704	20 09 56.55	−11 57 14.4	18.8	V	900
1997 NR_{10}		1997 07 06.74665	20 09 55.37	−11 57 20.7	18.5	V	900
1997 NR_{10}		1997 07 18.66495	20 02 03.21	−12 57 46.1			900
1997 NR_{10}		1997 07 18.68729	20 02 02.35	−12 57 54.5			900
1997 NR_{10}		1997 07 23.55157	19 58 28.64	−13 29 13.9	17.3	V	900
1997 NR_{10}		1997 07 23.59438	19 58 26.53	−13 29 31.1	17.2	V	900
1997 NR_{10}		1997 07 23.62119	19 58 25.31	−13 29 42.4	17.1	V	900

910 Caussols-ODAS

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

0.9-m Schmidt + CCD

GSC

1979 ML_1		1997 07 26.94591	20 06 43.66	−14 26 48.6	17.7	V	910
1979 ML_1		1997 07 26.96829	20 06 42.26	−14 26 47.8	17.8	V	910
1979 ML_1		1997 07 26.99113	20 06 40.80	−14 26 46.7	17.8	V	910
1981 EA_{43}		1997 07 27.04882	22 38 46.62	−08 53 26.1	19.8	V	910
1981 EA_{43}		1997 07 27.06476	22 38 46.22	−08 53 27.6	19.8	V	910
1981 EA_{43}		1997 07 27.08040	22 38 45.82	−08 53 29.4	19.8	V	910
1981 EA_{43}		1997 07 29.03615	22 37 56.02	−08 56 58.0	19.3	V	910
1981 EA_{43}		1997 07 29.05923	22 37 55.35	−08 57 00.6	19.4	V	910
1981 EA_{43}		1997 07 29.08197	22 37 54.68	−08 57 03.3	18.6	V	910
1981 SN_1		1997 08 04.99531	01 53 30.00	+09 44 41.9	17.5	V	910
1981 SN_1		1997 08 05.01924	01 53 31.64	+09 44 48.8	17.8	V	910
1981 SN_1		1997 08 05.04274	01 53 33.27	+09 44 55.2	17.7	V	910
1988 CU_1		1997 07 16.07457	22 03 52.68	−12 57 33.2	19.0	V	910
1988 CU_1		1997 07 16.09051	22 03 52.13	−12 57 35.5	19.4	V	910
1988 CU_1		1997 07 16.10717	22 03 51.56	−12 57 38.0	19.2	V	910
1992 ER		1997 08 04.98873	01 43 59.54	+10 11 03.2	18.0	V	910
1992 ER		1997 08 05.01264	01 44 00.37	+10 11 11.6	18.2	V	910
1992 ER		1997 08 05.03614	01 44 01.29	+10 11 20.6	18.1	V	910
1993 SS_4		1997 07 29.04477	22 50 22.33	−09 02 51.2	20.0	V	910
1993 SS_4		1997 07 29.06785	22 50 21.84	−09 02 53.6	20.3	V	910
1993 SS_4		1997 07 29.09060	22 50 21.34	−09 02 56.1	20.5	V	910
1994 TC_3		1997 08 06.03024	21 56 35.98	−10 17 59.4	18.0	V	910
1994 TC_3		1997 08 06.05386	21 56 34.86	−10 18 04.7	18.2	V	910
1994 TC_3		1997 08 06.07758	21 56 33.75	−10 18 09.9	18.0	V	910
1997 EP_{47}		1997 02 10.14436	13 45 05.41	−09 49 18.8	19.3	V	910
1997 EP_{47}		1997 02 10.16781	13 45 05.55	−09 49 23.7	19.4	V	910
1997 EP_{47}		1997 02 10.19408	13 45 05.68	−09 49 29.0	19.6	V	910
1997 LK_6		1997 07 27.05201	22 43 22.30	−08 59 43.0	20.3	V	910
1997 LK_6		1997 07 27.06794	22 43 21.88	−08 59 46.5	20.4	V	910
1997 LK_6		1997 07 27.08358	22 43 21.46	−08 59 50.4	20.6	V	910
1997 LK_6		1997 07 29.03931	22 42 29.76	−09 07 35.7	20.0	V	910
1997 LK_6		1997 07 29.06240	22 42 29.08	−09 07 41.3	20.2	V	910
1997 LK_6		1997 07 29.08514	22 42 28.40	−09 07 46.8	20.4	V	910
1997 NN_9		1997 07 16.07032	21 57 44.18	−13 11 11.5	19.8	V	910
1997 NN_9		1997 07 16.08626	21 57 43.45	−13 11 09.2	19.9	V	910
1997 NN_9		1997 07 16.10292	21 57 42.65	−13 11 06.9	19.6	V	910
1997 NN_{10}	*	1997 07 14.05482	21 57 09.89	−13 32 20.1	17.8	V	910
1997 NN_{10}		1997 07 14.07789	21 57 08.65	−13 31 55.5	17.7	V	910
1997 NN_{10}		1997 07 14.10120	21 57 07.39	−13 31 30.7	17.5	V	910
1997 NN_{10}		1997 07 16.06867	21 55 21.67	−12 56 08.4	17.8	V	910
1997 NN_{10}		1997 07 16.08460	21 55 20.72	−12 55 51.1	18.0	V	910
1997 NN_{10}		1997 07 16.10126	21 55 19.74	−12 55 33.0	17.9	V	910
1997 OB	*	1997 07 25.92863	20 08 14.04	−15 00 56.3	20.0	V	910

1997 OB		1997 07 25.95084	20 08 12.82	−15 01 02.1	19.8	V	910	1997 OO		1997 07 28.07558	20 28 16.51	−14 19 46.5	19.4	V	910
1997 OB		1997 07 25.97185	20 08 11.68	−15 01 07.3	19.0	V	910	1997 OP	*	1997 07 26.96156	20 29 20.81	−14 08 11.4	17.8	V	910
1997 OB		1997 07 26.88277	20 07 24.04	−15 04 36.9	19.6	V	910	1997 OP		1997 07 26.98395	20 29 19.65	−14 08 11.1	17.8	V	910
1997 OB		1997 07 26.89892	20 07 23.18	−15 04 40.7	19.9	V	910	1997 OP		1997 07 27.00679	20 29 18.47	−14 08 10.6	17.6	V	910
1997 OB		1997 07 26.91515	20 07 22.27	−15 04 44.7	19.5	V	910	1997 OP		1997 07 28.02995	20 28 26.51	−14 07 52.7	18.0	V	910
1997 OC	*	1997 07 25.92933	20 09 15.32	−14 49 01.2	20.4	V	910	1997 OP		1997 07 28.05284	20 28 25.31	−14 07 52.2	17.9	V	910
1997 OC		1997 07 25.95154	20 09 14.23	−14 49 04.8	20.2	V	910	1997 OP		1997 07 28.07565	20 28 24.12	−14 07 51.8	18.4	V	910
1997 OC		1997 07 25.97255	20 09 13.21	−14 49 08.7	19.4	V	910	1997 OQ	*	1997 07 26.96323	20 31 42.06	−14 27 36.4	17.8	V	910
1997 OC		1997 07 26.88353	20 08 29.69	−14 51 46.7	20.9	V	910	1997 OQ		1997 07 26.98561	20 31 40.86	−14 27 42.0	17.6	V	910
1997 OC		1997 07 26.89968	20 08 28.92	−14 51 49.7	19.8	V	910	1997 OQ		1997 07 27.00845	20 31 39.66	−14 27 47.6	17.4	V	910
1997 OC		1997 07 26.91591	20 08 28.16	−14 51 52.8	20.2	V	910	1997 OQ		1997 07 28.03162	20 30 47.95	−14 31 57.9	17.8	V	910
1997 OD	*	1997 07 25.92990	20 10 03.52	−15 09 20.0	18.5	V	910	1997 OQ		1997 07 28.05451	20 30 46.71	−14 32 03.8	18.0	V	910
1997 OD		1997 07 25.95211	20 10 02.38	−15 09 26.4	18.5	V	910	1997 OQ		1997 07 28.10191	20 30 44.22	−14 32 15.0	17.9	V	910
1997 OD		1997 07 25.97312	20 10 01.21	−15 09 31.9	18.7	V	910	1997 OR	*	1997 07 27.04459	22 32 40.37	−08 51 18.9	19.9	V	910
1997 OD		1997 07 26.88405	20 09 14.41	−15 13 55.0	18.8	V	910	1997 OR		1997 07 27.06053	22 32 40.03	−08 51 21.8	19.5	V	910
1997 OD		1997 07 26.90020	20 09 13.56	−15 13 59.4	18.8	V	910	1997 OR		1997 07 27.07617	22 32 39.71	−08 51 24.6	19.8	V	910
1997 OD		1997 07 26.91643	20 09 12.70	−15 14 04.2	18.6	V	910	1997 OR		1997 07 29.03203	22 31 59.00	−08 57 51.1	20.2	V	910
1997 OE	*	1997 07 25.93065	20 11 10.06	−14 53 33.5	19.5	V	910	1997 OR		1997 07 29.05511	22 31 58.42	−08 57 56.0	20.1	V	910
1997 OE		1997 07 25.95287	20 11 08.65	−14 53 42.1	19.4	V	910	1997 OR		1997 07 29.07786	22 31 57.88	−08 58 00.8	20.6	V	910
1997 OE		1997 07 25.97387	20 11 07.37	−14 53 49.6	19.7	V	910	1997 OS	*	1997 07 27.04558	22 34 05.53	−08 59 55.4	18.9	V	910
1997 OE		1997 07 26.88472	20 10 12.54	−14 59 37.2	19.7	V	910	1997 OS		1997 07 27.06152	22 34 05.18	−08 59 58.1	19.2	V	910
1997 OE		1997 07 26.90086	20 10 11.52	−14 59 43.7	19.6	V	910	1997 OS		1997 07 27.07716	22 34 04.84	−09 00 00.7	19.1	V	910
1997 OE		1997 07 26.91709	20 10 10.51	−14 59 49.5	19.3	V	910	1997 OS		1997 07 29.03299	22 33 22.26	−09 05 48.1	18.5	V	910
1997 OF	*	1997 07 25.93311	20 14 41.65	−15 10 57.3	18.0	V	910	1997 OS		1997 07 29.05607	22 33 21.69	−09 05 52.7	18.7	V	910
1997 OF		1997 07 25.95532	20 14 40.17	−15 10 59.1	18.2	V	910	1997 OS		1997 07 29.07882	22 33 21.13	−09 05 56.7	18.8	V	910
1997 OF		1997 07 25.97633	20 14 38.78	−15 11 00.8	18.2	V	910	1997 OT	*	1997 07 27.04637	22 35 13.97	−09 01 23.2	20.2	V	910
1997 OF		1997 07 26.88713	20 13 40.66	−15 12 13.3	18.0	V	910	1997 OT		1997 07 27.06231	22 35 13.49	−09 01 23.5	19.9	V	910
1997 OF		1997 07 26.90328	20 13 39.59	−15 12 14.8	18.2	V	910	1997 OT		1997 07 27.07795	22 35 13.01	−09 01 23.4	20.0	V	910
1997 OF		1997 07 26.91950	20 13 38.53	−15 12 16.0	18.2	V	910	1997 OT		1997 07 29.03358	22 34 13.58	−09 01 48.3	19.8	V	910
1997 OG	*	1997 07 25.93643	20 19 30.75	−14 53 23.6	19.5	V	910	1997 OT		1997 07 29.05666	22 34 12.82	−09 01 48.8	19.9	V	910
1997 OG		1997 07 25.95864	20 19 29.61	−14 53 29.2	19.1	V	910	1997 OT		1997 07 29.07941	22 34 12.05	−09 01 49.3	19.8	V	910
1997 OG		1997 07 25.97965	20 19 28.50	−14 53 34.1	19.3	V	910	1997 OU	*	1997 07 27.04903	22 39 04.85	−08 55 04.0	19.7	V	910
1997 OG		1997 07 26.89060	20 18 42.39	−14 56 55.5	18.4	V	910	1997 OU		1997 07 27.06497	22 39 04.26	−08 55 06.7	20.0	V	910
1997 OG		1997 07 26.90675	20 18 41.53	−14 56 59.1	18.6	V	910	1997 OU		1997 07 27.08061	22 39 03.71	−08 55 09.6	20.2	V	910
1997 OG		1997 07 26.92298	20 18 40.68	−14 57 03.2	18.5	V	910	1997 OU		1997 07 29.03615	22 37 55.53	−09 01 28.2	19.8	V	910
1997 OH	*	1997 07 25.92824	20 07 40.36	−14 55 43.5	20.0	V	910	1997 OU		1997 07 29.05922	22 37 54.66	−09 01 32.8	19.7	V	910
1997 OH		1997 07 25.95045	20 07 38.85	−14 54 50.7	19.5	V	910	1997 OU		1997 07 29.08196	22 37 53.76	−09 01 37.2	19.0	V	910
1997 OH		1997 07 25.97145	20 07 37.41	−14 54 00.6	19.4	V	910	1997 OV	*	1997 07 27.05131	22 42 22.62	−08 46 50.0	18.8	V	910
1997 OH		1997 07 26.94584	20 06 37.99	−14 15 02.8	19.7	V	910	1997 OV		1997 07 27.06725	22 42 22.19	−08 46 54.5	18.8	V	910
1997 OH		1997 07 26.96822	20 06 36.47	−14 14 09.1	20.1	V	910	1997 OV		1997 07 27.08289	22 42 21.77	−08 46 59.0	18.7	V	910
1997 OH		1997 07 26.99106	20 06 34.94	−14 13 14.3	20.2	V	910	1997 OV		1997 07 29.03862	22 41 29.67	−08 56 27.4	18.6	V	910
1997 ON	*	1997 07 26.95254	20 16 18.66	−14 09 24.0	17.6	V	910	1997 OV		1997 07 29.06170	22 41 28.96	−08 56 34.3	18.7	V	910
1997 ON		1997 07 26.97492	20 16 17.26	−14 09 27.4	17.7	V	910	1997 OV		1997 07 29.08444	22 41 28.26	−08 56 41.4	18.5	V	910
1997 ON		1997 07 26.99776	20 16 15.84	−14 09 31.1	17.7	V	910	1997 OW	*	1997 07 27.05389	22 46 06.18	−08 52 38.4	20.6	V	910
1997 ON		1997 07 28.02081	20 15 14.37	−14 12 12.3	17.7	V	910	1997 OW		1997 07 27.06983	22 46 05.87	−08 52 42.5	20.7	V	910
1997 ON		1997 07 28.04369	20 15 12.94	−14 12 16.1	17.7	V	910	1997 OW		1997 07 27.08547	22 46 05.55	−08 52 46.7	20.6	V	910
1997 ON		1997 07 28.06651	20 15 11.53	−14 12 19.7	16.9	V	910	1997 OW		1997 07 29.04136	22 45 27.71	−09 01 20.3	20.6	V	910
1997 OO	*	1997 07 26.96150	20 29 13.63	−14 20 30.2	18.3	V	910	1997 OW		1997 07 29.06445	22 45 27.19	−09 01 26.5	20.4	V	910
1997 OO		1997 07 26.98389	20 29 12.47	−14 20 29.3	18.2	V	910	1997 OW		1997 07 29.08719	22 45 26.62	−09 01 33.0	20.4	V	910
1997 OO		1997 07 27.00673	20 29 11.27	−14 20 28.4	18.0	V	910	1997 OU_1		1997 07 26.94934	20 11 40.68	−14 23 36.8	19.0	V	910
1997 OO		1997 07 28.02988	20 28 18.89	−14 19 48.0	18.8	V	910	1997 OU_1		1997 07 26.97172	20 11 39.19	−14 23 36.6	18.9	V	910
1997 OO		1997 07 28.05277	20 28 17.70	−14 19 47.4	18.8	V	910	1997 OU_1		1997 07 26.99456	20 11 37.65	−14 23 36.5	18.8	V	910

1997 OF_2	*	1997 07 30.98846	21 38 15.48	−10 29 21.3	18.7	V	910
1997 OF_2		1997 07 31.01218	21 38 14.35	−10 29 22.3	18.8	V	910
1997 OF_2		1997 07 31.03501	21 38 13.25	−10 29 23.1	18.7	V	910
1997 OF_2		1997 08 03.89717	21 35 11.38	−10 32 39.5	18.6	V	910
1997 OF_2		1997 08 03.92228	21 35 10.11	−10 32 41.3	18.6	V	910
1997 OF_2		1997 08 03.94648	21 35 08.88	−10 32 42.7	18.7	V	910
1997 OF_2		1997 08 04.88242	21 34 22.98	−10 33 44.2	18.8	V	910
1997 OF_2		1997 08 04.90651	21 34 21.75	−10 33 45.9	18.6	V	910
1997 OF_2		1997 08 04.93040	21 34 20.51	−10 33 47.7	18.9	V	910
1997 OF_2		1997 08 06.01420	21 33 26.26	−10 35 05.1	18.6	V	910
1997 OF_2		1997 08 06.03783	21 33 25.01	−10 35 06.8	18.7	V	910
1997 OF_2		1997 08 06.06154	21 33 23.76	−10 35 08.6	18.6	V	910
1997 OG_2	*	1997 07 30.99135	21 42 25.96	−10 21 05.5	18.6	V	910
1997 OG_2		1997 07 31.01507	21 42 24.94	−10 21 11.2	18.4	V	910
1997 OG_2		1997 07 31.03790	21 42 23.95	−10 21 16.7	18.3	V	910
1997 OG_2		1997 08 03.90029	21 39 40.92	−10 37 45.1	17.9	V	910
1997 OG_2		1997 08 03.92540	21 39 39.75	−10 37 51.9	18.0	V	910
1997 OG_2		1997 08 03.94960	21 39 38.62	−10 37 58.7	17.8	V	910
1997 OG_2		1997 08 04.88559	21 38 57.00	−10 42 15.4	18.0	V	910
1997 OG_2		1997 08 04.90968	21 38 55.86	−10 42 22.3	18.2	V	910
1997 OG_2		1997 08 04.93357	21 38 54.73	−10 42 29.1	17.9	V	910
1997 OH_2	*	1997 07 30.99216	21 43 35.90	−10 25 14.6	20.0	V	910
1997 OH_2		1997 07 31.01588	21 43 34.83	−10 25 20.3	20.0	V	910
1997 OH_2		1997 07 31.03871	21 43 33.78	−10 25 25.8	20.0	V	910
1997 OH_2		1997 08 03.90098	21 40 40.15	−10 41 51.3	20.8	V	910
1997 OH_2		1997 08 03.92608	21 40 38.85	−10 41 57.7	19.4	V	910
1997 OH_2		1997 08 03.95029	21 40 37.66	−10 42 04.5	19.7	V	910
1997 OJ_2	*	1997 07 30.99516	21 47 56.56	−10 18 38.7	19.8	V	910
1997 OJ_2		1997 07 31.01888	21 47 55.39	−10 18 46.5	19.7	V	910
1997 OJ_2		1997 07 31.04172	21 47 54.25	−10 18 54.8	20.0	V	910
1997 OJ_2		1997 08 03.90383	21 44 47.15	−10 42 16.3	19.6	V	910
1997 OJ_2		1997 08 03.92894	21 44 45.92	−10 42 26.4	19.6	V	910
1997 OJ_2		1997 08 03.95314	21 44 44.64	−10 42 35.5	20.1	V	910
1997 OK_2	*	1997 07 30.99967	21 54 25.87	−10 33 48.6	18.5	V	910
1997 OK_2		1997 07 31.02339	21 54 24.49	−10 33 50.6	18.4	V	910
1997 OK_2		1997 07 31.04622	21 54 23.17	−10 33 52.6	18.2	V	910
1997 OK_2		1997 08 03.90792	21 50 41.43	−10 39 58.6	18.5	V	910
1997 OK_2		1997 08 03.93302	21 50 39.93	−10 40 01.7	18.6	V	910
1997 OK_2		1997 08 03.95723	21 50 38.44	−10 40 04.3	18.3	V	910
1997 OK_2		1997 08 04.89305	21 49 42.60	−10 41 44.7	18.5	V	910
1997 OK_2		1997 08 04.91714	21 49 41.12	−10 41 47.5	18.6	V	910
1997 OK_2		1997 08 04.94103	21 49 39.66	−10 41 50.4	18.5	V	910
1997 OL_2	*	1997 07 31.00027	21 55 18.32	−10 26 44.4	18.2	V	910
1997 OL_2		1997 07 31.02399	21 55 17.33	−10 26 47.4	18.2	V	910
1997 OL_2		1997 07 31.04683	21 55 16.41	−10 26 50.4	18.2	V	910
1997 OL_2		1997 08 03.90925	21 52 36.37	−10 35 49.2	17.8	V	910
1997 OL_2		1997 08 03.93435	21 52 35.34	−10 35 54.0	18.3	V	910
1997 OL_2		1997 08 03.95856	21 52 34.26	−10 35 57.7	18.2	V	910
1997 OL_2		1997 08 04.89456	21 51 53.70	−10 38 18.8	18.0	V	910
1997 OL_2		1997 08 04.91866	21 51 52.61	−10 38 22.5	18.2	V	910
1997 OL_2		1997 08 04.94255	21 51 51.52	−10 38 26.3	18.1	V	910
1997 OL_2		1997 08 06.02642	21 51 03.58	−10 41 15.2	18.6	V	910
1997 OL_2		1997 08 06.05005	21 51 02.50	−10 41 19.0	18.6	V	910
1997 OL_2		1997 08 06.07376	21 51 01.41	−10 41 22.7	18.5	V	910
1997 OM_2	*	1997 07 31.00123	21 56 41.53	−10 24 01.2	19.0	V	910
1997 OM_2		1997 07 31.02495	21 56 40.60	−10 24 08.1	19.0	V	910
1997 OM_2		1997 07 31.04779	21 56 39.69	−10 24 14.3	18.5	V	910
1997 OM_2		1997 08 03.91032	21 54 08.85	−10 44 10.4	18.5	V	910
1997 OM_2		1997 08 03.93543	21 54 07.73	−10 44 18.6	18.5	V	910
1997 OM_2		1997 08 03.95964	21 54 06.71	−10 44 25.5	17.4	V	910
1997 PS	*	1997 08 03.89456	21 31 24.78	−10 42 06.7	18.1	V	910
1997 PS		1997 08 03.91966	21 31 23.30	−10 42 04.1	18.1	V	910
1997 PS		1997 08 03.94386	21 31 21.93	−10 42 01.2	17.4	V	910
1997 PS		1997 08 04.87971	21 30 27.92	−10 40 13.3	18.3	V	910
1997 PS		1997 08 04.90379	21 30 26.47	−10 40 10.3	18.1	V	910
1997 PS		1997 08 04.92768	21 30 25.04	−10 40 07.9	18.2	V	910
1997 PT	*	1997 08 03.89894	21 37 45.03	−10 19 36.2	19.7	V	910
1997 PT		1997 08 03.92405	21 37 44.00	−10 19 44.6	19.7	V	910
1997 PT		1997 08 03.94826	21 37 42.92	−10 19 53.1	19.7	V	910
1997 PT		1997 08 04.88428	21 37 04.24	−10 25 10.3	19.9	V	910
1997 PT		1997 08 04.90837	21 37 03.18	−10 25 19.5	19.8	V	910
1997 PT		1997 08 04.93227	21 37 02.11	−10 25 28.1	19.6	V	910
1997 PT		1997 08 06.01616	21 36 15.91	−10 31 45.1	19.7	V	910
1997 PT		1997 08 06.03979	21 36 14.82	−10 31 53.5	19.9	V	910
1997 PT		1997 08 06.06350	21 36 13.74	−10 32 01.8	19.6	V	910
1997 PU	*	1997 08 03.90337	21 44 07.60	−10 28 59.3	19.2	V	910
1997 PU		1997 08 03.92847	21 44 06.43	−10 29 15.3	19.3	V	910
1997 PU		1997 08 03.95268	21 44 05.22	−10 29 30.0	19.0	V	910
1997 PU		1997 08 04.88864	21 43 20.59	−10 39 13.0	19.4	V	910
1997 PU		1997 08 04.91273	21 43 19.40	−10 39 28.4	19.4	V	910
1997 PU		1997 08 04.93662	21 43 18.23	−10 39 43.1	19.6	V	910
1997 PV	*	1997 08 03.90897	21 52 12.16	−10 37 43.7	18.7	V	910
1997 PV		1997 08 03.93407	21 52 10.93	−10 37 46.4	19.3	V	910
1997 PV		1997 08 03.95828	21 52 09.65	−10 37 48.9	18.9	V	910
1997 PV		1997 08 04.89423	21 51 24.30	−10 39 19.4	19.1	V	910
1997 PV		1997 08 04.91831	21 51 23.10	−10 39 22.6	19.4	V	910
1997 PV		1997 08 04.94221	21 51 21.88	−10 39 25.2	19.4	V	910
1997 PV		1997 08 06.02601	21 50 28.25	−10 41 16.6	19.4	V	910
1997 PV		1997 08 06.04964	21 50 27.04	−10 41 19.0	19.4	V	910
1997 PV		1997 08 06.07335	21 50 25.82	−10 41 21.4	19.5	V	910
1997 PW	*	1997 08 03.90323	21 43 55.54	−10 27 18.1	20.0	V	910
1997 PW		1997 08 03.92833	21 43 54.63	−10 27 23.7	20.3	V	910
1997 PW		1997 08 03.95254	21 43 53.75	−10 27 29.7	20.2	V	910
1997 PW		1997 08 06.02058	21 42 38.15	−10 34 45.8	20.2	V	910
1997 PW		1997 08 06.04421	21 42 37.24	−10 34 50.9	20.3	V	910
1997 PW		1997 08 06.06792	21 42 36.32	−10 34 55.8	20.2	V	910
1997 PX	*	1997 08 04.89142	21 47 22.44	−10 18 51.8	20.0	V	910
1997 PX		1997 08 04.91550	21 47 21.11	−10 18 59.6	19.7	V	910
1997 PX		1997 08 04.93940	21 47 19.82	−10 19 07.6	19.9	V	910
1997 PX		1997 08 06.02316	21 46 22.43	−10 25 13.6	19.8	V	910
1997 PX		1997 08 06.04679	21 46 21.14	−10 25 21.7	19.7	V	910
1997 PX		1997 08 06.07050	21 46 19.83	−10 25 29.6	19.8	V	910
1997 PY	*	1997 08 04.89644	21 54 36.50	−10 32 52.1	19.6	V	910
1997 PY		1997 08 04.92053	21 54 35.45	−10 32 57.8	20.1	V	910

1997 PY	1997 08 04.94442	21 54 34.32	−10 33 03.3	19.9 V	910
1997 PY	1997 08 06.02830	21 53 46.19	−10 37 22.3	19.5 V	910
1997 PY	1997 08 06.05192	21 53 45.11	−10 37 28.1	19.7 V	910
1997 PY	1997 08 06.07564	21 53 43.99	−10 37 33.8	19.5 V	910
3176 T-3	1997 07 16.07236	22 00 41.81	−12 48 12.8	19.5 V	910
3176 T-3	1997 07 16.08830	22 00 41.32	−12 48 15.5	19.6 V	910
3176 T-3	1997 07 16.10496	22 00 40.82	−12 48 18.2	19.5 V	910
(398)	1997 07 26.95159	20 14 56.84	−14 08 57.5	15.5 V	910
(398)	1997 07 26.97398	20 14 55.57	−14 08 58.6	15.4 V	910
(398)	1997 07 26.99682	20 14 54.27	−14 08 59.5	15.5 V	910
(398)	1997 07 28.01992	20 13 57.30	−14 09 46.3	15.7 V	910
(398)	1997 07 28.04280	20 13 55.99	−14 09 47.3	15.7 V	910
(398)	1997 07 28.06562	20 13 54.70	−14 09 48.2	15.3 V	910
(994)	1997 08 04.98720	01 41 47.92	+10 07 25.2	14.2 V	910
(994)	1997 08 05.01112	01 41 48.69	+10 07 39.1	14.1 V	910
(994)	1997 08 05.03461	01 41 49.43	+10 07 52.8	14.1 V	910
(1462)	1997 08 04.98670	01 41 04.71	+10 11 31.3	17.1 V	910
(1462)	1997 08 05.01061	01 41 05.09	+10 11 33.7	17.0 V	910
(1462)	1997 08 05.03410	01 41 05.45	+10 11 36.1	17.3 V	910
(2318)	1997 08 04.90104	22 01 14.74	−10 35 18.8	17.8 V	910
(2318)	1997 08 04.92513	22 01 13.57	−10 35 28.1	18.0 V	910
(2318)	1997 08 04.94903	22 01 12.42	−10 35 37.2	17.6 V	910
(2318)	1997 08 06.03287	22 00 21.08	−10 42 30.7	16.7 V	910
(2318)	1997 08 06.05649	22 00 19.90	−10 42 39.7	17.3 V	910
(2318)	1997 08 06.08021	22 00 18.71	−10 42 48.7	16.7 V	910
(2391)	1997 08 03.91355	21 58 50.16	−10 25 01.8	16.0 V	910
(2391)	1997 08 03.93866	21 58 48.94	−10 25 09.7	16.1 V	910
(2391)	1997 08 03.96287	21 58 47.74	−10 25 17.2	16.2 V	910
(2391)	1997 08 04.89882	21 58 02.78	−10 30 08.6	17.1 V	910
(2391)	1997 08 04.92291	21 58 01.58	−10 30 16.1	17.1 V	910
(2391)	1997 08 04.94680	21 58 00.39	−10 30 23.5	17.1 V	910
(2391)	1997 08 06.03062	21 57 07.11	−10 36 07.7	17.0 V	910
(2391)	1997 08 06.05424	21 57 05.91	−10 36 15.1	17.2 V	910
(2391)	1997 08 06.07796	21 57 04.69	−10 36 22.7	17.1 V	910
(3736)	1997 07 27.04645	22 35 21.30	−08 55 30.6	16.5 V	910
(3736)	1997 07 27.06239	22 35 20.93	−08 55 36.8	16.4 V	910
(3736)	1997 07 27.07803	22 35 20.56	−08 55 42.7	16.4 V	910
(3971)	1997 07 26.94267	20 02 03.93	−14 18 58.4	15.7 V	910
(3971)	1997 07 26.96506	20 02 02.57	−14 18 55.2	16.0 V	910
(3971)	1997 07 26.98790	20 02 01.17	−14 18 52.8	14.3 V	910
(3971)	1997 07 28.01096	20 01 01.21	−14 16 24.4	15.1 V	910
(3971)	1997 07 28.03385	20 00 59.84	−14 16 21.0	15.0 V	910
(3971)	1997 07 28.05666	20 00 58.47	−14 16 17.6	14.7 V	910
(4134)	1997 07 16.06174	21 45 20.83	−12 59 33.0	17.7 V	910
(4134)	1997 07 16.07768	21 45 20.23	−12 59 38.0	17.9 V	910
(4134)	1997 07 16.09434	21 45 19.61	−12 59 42.9	17.7 V	910
(5244)	1997 08 05.06257	02 15 21.51	+14 33 55.8	17.8 V	910
(5244)	1997 08 05.07579	02 15 21.70	+14 33 56.5	17.8 V	910
(5244)	1997 08 05.08987	02 15 21.93	+14 33 57.7	18.1 V	910
(5673)	1997 08 05.06241	02 15 07.91	+14 35 25.7	17.5 V	910
(5673)	1997 08 05.07564	02 15 08.64	+14 35 30.1	17.3 V	910
(5673)	1997 08 05.08973	02 15 09.45	+14 35 34.9	17.5 V	910
(6965)	1997 07 16.07042	21 57 53.44	−13 01 53.9	18.4 V	910
(6965)	1997 07 16.08637	21 57 53.00	−13 01 59.0	18.3 V	910
(6965)	1997 07 16.10303	21 57 52.53	−13 02 04.5	17.9 V	910
(6969)	1997 08 03.91196	21 56 31.78	−10 33 42.4	16.9 V	910
(6969)	1997 08 03.93707	21 56 30.50	−10 33 54.6	16.8 V	910
(6969)	1997 08 03.96128	21 56 29.28	−10 34 06.7	16.8 V	910
(6969)	1997 08 04.89722	21 55 43.11	−10 41 46.2	16.5 V	910
(6969)	1997 08 04.92131	21 55 41.87	−10 41 58.0	16.5 V	910
(6969)	1997 08 04.94520	21 55 40.63	−10 42 10.0	16.5 V	910
(7001)	1997 08 03.90711	21 49 31.32	−10 33 31.4	17.1 V	910
(7001)	1997 08 03.93221	21 49 30.07	−10 33 42.2	17.0 V	910
(7001)	1997 08 03.95642	21 49 28.87	−10 33 52.5	16.8 V	910
(7001)	1997 08 04.89237	21 48 43.39	−10 40 30.9	17.4 V	910
(7001)	1997 08 04.91646	21 48 42.16	−10 40 41.2	17.2 V	910
(7001)	1997 08 04.94035	21 48 40.95	−10 40 51.6	17.0 V	910
(7126)	1997 07 31.00040	21 55 28.64	−10 33 00.5	18.2 V	910
(7126)	1997 07 31.02412	21 55 27.62	−10 33 05.4	18.2 V	910
(7126)	1997 07 31.04695	21 55 26.66	−10 33 10.0	18.1 V	910
(7791)	1997 07 25.92388	20 01 22.90	−15 06 54.2	19.8 V	910
(7791)	1997 07 25.94610	20 01 21.85	−15 06 59.5	19.0 V	910
(7791)	1997 07 25.96711	20 01 20.92	−15 07 04.8	19.0 V	910

953 Montjoia

F. Casarramona, P.O. Box 50, E-08200 Sabadell (BCN), Spain
[astrosab@redestb.es]

Observers F. Casarramona, E. Vigil, A. Vidal
Measurer F. Casarramona
0.41-m $f/4$reflector + CCD
GSC

1993 MC	1997 08 06.95359	17 44 01.39	−03 20 09.9	17.3 R	953
1993 MC	1997 08 06.95801	17 44 01.42	−03 20 11.8	17.1 R	953
1993 MC	1997 08 06.96310	17 44 01.50	−03 20 13.1	17.4 R	953
1993 MC	1997 08 06.96664	17 44 01.56	−03 20 13.8	17.6 R	953
1993 MC	1997 08 06.97303	17 44 01.67	−03 20 16.0	17.5 R	953
1993 MC	1997 08 07.89416	17 44 18.12	−03 24 50.1	17.5 R	953
1993 MC	1997 08 07.89505	17 44 18.13	−03 24 50.5	17.5 R	953
1993 MC	1997 08 07.89594	17 44 18.15	−03 24 50.8	17.6 R	953
1993 MC	1997 08 07.89772	17 44 18.17	−03 24 51.2	17.4 R	953
1993 MC	1997 08 07.91319	17 44 18.41	−03 24 55.8	17.4 R	953
1993 MC	1997 08 07.91407	17 44 18.42	−03 24 56.1	17.4 R	953
1993 MC	1997 08 07.91586	17 44 18.46	−03 24 56.3	17.3 R	953
1994 VJ_7	1997 08 08.04838	22 22 13.89	−08 43 38.1	16.2 R	953
1994 VJ_7	1997 08 08.04926	22 22 13.84	−08 43 38.1	16.3 R	953
1994 VJ_7	1997 08 08.06508	22 22 13.10	−08 43 40.5	16.3 R	953
1994 VJ_7	1997 08 08.06684	22 22 13.01	−08 43 40.8	16.3 R	953
1994 VJ_7	1997 08 09.01133	22 21 30.32	−08 46 08.7	15.8 R	953
1994 VJ_7	1997 08 09.01221	22 21 30.26	−08 46 08.9	15.7 R	953
1994 VJ_7	1997 08 09.01398	22 21 30.17	−08 46 09.2	15.8 R	953
1994 VJ_7	1997 08 09.01486	22 21 30.14	−08 46 09.4	15.9 R	953
1994 VJ_7	1997 08 09.01663	22 21 30.05	−08 46 09.7	15.9 R	953
1994 VJ_7	1997 08 09.01839	22 21 29.95	−08 46 10.1	15.8 R	953
1994 VJ_7	1997 08 09.02125	22 21 29.80	−08 46 10.2	15.8 R	953
1994 VJ_7	1997 08 09.02214	22 21 29.78	−08 46 10.3	15.8 R	953

1994 VJ_7	1997 08 09.02302	22 21 29.77	−08 46 10.8	15.8 R	953
1997 PO	1997 08 04.01084	20 13 56.53	−10 55 33.8		953
1997 PO	1997 08 04.01325	20 13 56.46	−10 55 38.6		953
1997 PO	1997 08 04.01427	20 13 56.46	−10 55 40.5		953
1997 PO	1997 08 04.01528	20 13 56.40	−10 55 42.1		953
1997 PO	1997 08 04.02032	20 13 56.30	−10 55 52.1		953
1997 PO	1997 08 06.02365	20 13 22.90	−11 59 24.4		953
1997 PO	1997 08 06.02454	20 13 22.89	−11 59 26.2		953
1997 PO	1997 08 06.02630	20 13 22.84	−11 59 29.9		953
1997 PO	1997 08 06.03353	20 13 22.71	−11 59 43.4		953
1997 PO	1997 08 06.03441	20 13 22.69	−11 59 44.8		953
1997 PO	1997 08 06.03618	20 13 22.67	−11 59 48.3		953
2078 T-3	1997 08 07.12522	22 39 59.49	−11 42 45.0	17.1 R	953
2078 T-3	1997 08 07.12787	22 39 59.37	−11 42 45.2	17.0 R	953
2078 T-3	1997 08 07.12962	22 39 59.29	−11 42 45.5	17.2 R	953
2078 T-3	1997 08 07.13050	22 39 59.25	−11 42 45.1	17.1 R	953
2078 T-3	1997 08 07.13227	22 39 59.16	−11 42 45.5	17.2 R	953
2078 T-3	1997 08 07.13403	22 39 59.06	−11 42 46.0	17.1 R	953
2078 T-3	1997 08 07.13579	22 39 58.98	−11 42 46.3	17.0 R	953
2078 T-3	1997 08 10.08355	22 37 32.42	−11 50 40.9		953
(1101)	1997 07 25.87949	18 50 49.05	+08 13 51.5		953
(1101)	1997 07 25.88558	18 50 48.82	+08 13 49.8		953
(1101)	1997 07 25.98462	18 50 45.01	+08 13 24.3		953
(1101)	1997 07 25.99234	18 50 44.75	+08 13 22.1		953
(1101)	1997 07 26.87984	18 50 12.42	+08 09 28.3		953
(1101)	1997 07 26.88590	18 50 12.18	+08 09 26.8		953
(1101)	1997 07 26.95586	18 50 09.54	+08 09 07.8		953
(1101)	1997 07 26.96711	18 50 09.17	+08 09 05.0		953

955 Sassoeiros

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

GSC, SA-1.0

(50)	1997 01 22.93889	10 19 57.37	+08 14 22.6	13.1	955
(50)	1997 01 22.95417	10 19 56.75	+08 14 26.6	13.3	955
(50)	1997 01 22.96528	10 19 56.30	+08 14 29.4	13.4	955
(50)	1997 01 23.01111	10 19 54.50	+08 14 40.3	13.1	955
(81)	1996 04 13.90026	08 31 12.41	+24 25 05.9		955
(81)	1996 04 13.90963	08 31 12.83	+24 25 00.9		955
(81)	1996 04 13.91658	08 31 13.06	+24 24 58.2		955
(81)	1996 04 13.92804	08 31 13.55	+24 24 54.3		955
(81)	1996 04 13.93220	08 31 13.73	+24 24 53.1		955
(81)	1996 04 13.93707	08 31 13.90	+24 24 51.2		955
(81)	1996 04 13.93915	08 31 14.01	+24 24 50.5		955
(81)	1996 04 13.95061	08 31 14.51	+24 24 46.8		955
(81)	1996 04 13.95373	08 31 14.63	+24 24 45.6		955
(81)	1996 04 13.96068	08 31 14.98	+24 24 44.0		955
(84)	1997 02 04.80556	02 46 43.49	+26 41 32.0		955
(84)	1997 02 04.81962	02 46 44.77	+26 41 32.2		955
(84)	1997 02 04.83333	02 46 45.89	+26 41 33.4		955
(84)	1997 02 04.84028	02 46 46.49	+26 41 34.1		955
(84)	1997 02 04.86805	02 46 48.77	+26 41 35.3		955
(84)	1997 02 04.87500	02 46 49.47	+26 41 36.2		955
(84)	1997 02 04.88194	02 46 50.07	+26 41 37.0		955
(84)	1997 02 04.88889	02 46 50.66	+26 41 37.2		955
(201)	1997 07 06.94254	17 43 27.55	−14 39 37.6	11.3	955
(201)	1997 07 06.95365	17 43 26.97	−14 39 39.1	11.3	955
(201)	1997 07 06.96406	17 43 26.43	−14 39 40.5	11.4	955
(201)	1997 07 06.99254	17 43 24.97	−14 39 43.7	11.4	955
(237)	1996 12 25.82726	05 10 29.23	+22 45 51.2	12.9	955
(237)	1996 12 25.84201	05 10 28.39	+22 45 52.7	12.5	955
(237)	1996 12 25.85625	05 10 27.59	+22 45 54.3	16.5	955
(237)	1996 12 25.87205	05 10 26.69	+22 45 56.1	16.6	955
(237)	1996 12 25.88976	05 10 25.69	+22 45 58.0	13.1	955
(471)	1997 01 27.87500	07 41 38.19	+34 43 20.6		955
(471)	1997 01 27.88889	07 41 37.35	+34 43 25.0		955
(471)	1997 01 27.91667	07 41 35.73	+34 43 33.1		955
(471)	1997 01 27.93055	07 41 34.93	+34 43 36.7		955
(471)	1997 01 27.97222	07 41 32.46	+34 43 49.1		955
(471)	1997 01 28.00000	07 41 30.83	+34 43 57.0		955
(471)	1997 01 28.01389	07 41 30.01	+34 44 01.1		955
(683)	1997 07 26.08212	19 58 10.78	−02 01 20.0	14.1	955
(704)	1997 03 02.82292	03 59 27.75	+26 01 28.6		955
(704)	1997 03 02.83333	03 59 28.48	+26 01 27.6		955
(704)	1997 03 02.84375	03 59 29.22	+26 01 26.4		955
(704)	1997 03 02.85417	03 59 29.96	+26 01 25.0		955
(1275)	1997 07 26.06424	19 53 54.47	−01 00 58.2	14.9	955
(1275)	1997 07 26.06580	19 53 54.33	−01 00 59.4	14.3	955

956 Observatorio Pozuelo

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

GSC

1978 QY_1	1997 08 07.03512	22 16 09.38	−07 19 33.1		956
1978 QY_1	1997 08 07.05670	22 16 08.48	−07 19 43.1		956
1993 TG	1997 08 06.95554	19 10 16.65	−08 22 19.5		956
1993 TG	1997 08 06.99563	19 10 15.38	−08 22 30.3		956
1993 UP_8	1997 08 06.89100	16 59 49.95	−09 00 28.2		956
1993 UP_8	1997 08 06.92682	16 59 50.29	−09 00 39.6		956
1994 TC_3	1997 08 07.01940	21 55 52.02	−10 21 46.6		956
1994 TC_3	1997 08 07.04603	21 55 50.79	−10 21 53.0		956
1996 EJ	1997 08 06.97764	19 24 41.36	−11 12 11.2		956
1996 EJ	1997 08 07.00620	19 24 40.27	−11 12 24.3		956
(1094)	1997 08 03.01395	22 32 58.11	−08 22 57.2		956
(1094)	1997 08 03.02150	22 32 57.81	−08 23 01.1		956
(1094)	1997 08 03.02787	22 32 57.53	−08 23 04.1		956
(1094)	1997 08 03.03542	22 32 57.35	−08 23 08.2		956
(1386)	1997 08 03.09148	00 58 50.83	+05 31 21.2		956

962 Gandia

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

GSC

1987 SR_{12}	1997 07 11.95411	18 22 06.54	−14 45 56.8	962
1987 SR_{12}	1997 07 12.00340	18 22 03.94	−14 46 05.4	962
(7750)	1997 07 11.93082	17 23 07.05	−08 24 14.6	962
(7750)	1997 07 11.93629	17 23 06.92	−08 24 11.2	962
(7750)	1997 07 11.99280	17 23 04.94	−08 23 36.0	962
(7759)	1997 07 11.97800	18 53 43.19	−22 04 55.0	962
(7759)	1997 07 12.02282	18 53 40.54	−22 05 02.6	962
(7759)	1997 07 12.02398	18 53 40.56	−22 05 02.8	962

965 Observação Astronomica no Algarve
B. Ewen-Smith, sitio do Poio, P-8500 Portimão, Portugal [coaa@mail.telepac.pt]
Observers B. Ewen-Smith, R. Johnson
0.5-m reflector + CCD
USNO-SA1.0

(1094)	1997 08 06.99491	22 30 34.65	−08 56 26.5	965
(1094)	1997 08 07.00407	22 30 34.29	−08 56 30.8	965

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C/1995 O1 (Hale-Bopp)
Epoch 1997 Mar. 13.0 TT = JDT 2450520.5

				Marsden	
T	1997 Apr. 1.1374 TT				
q	0.914162		(2000.0)	**P**	**Q**
z	+0.005334	ω	130.5879	−0.1331148	−0.1703064
	±0.000000	Ω	282.4706	+0.2822795	+0.9378096
e	0.995124	i	89.4299	+0.9500520	−0.3025043

From 2129 observations 1993 Apr. 27–1997 Aug. 10, mean residual 0″.8 (increased weight given to the 1997 July-August observations).

C/1996 H1 (SOHO)

				Marsden	
T	1996 Apr. 30.50 TT				
q	0.0069		(2000.0)	**P**	**Q**
		ω	81.20	+0.23818	−0.96911
		Ω	6.20	−0.94410	−0.24648
e	1.0	i	143.73	+0.22792	−0.00821

From 20 observations 1996 Apr. 29–30.

C/1996 J1-A (Evans-Drinkwater)
Epoch 1996 Dec. 23.0 TT = JDT 2450440.5

				Marsden	
T	1996 Dec. 30.4271 TT				
q	1.297766		(2000.0)	**P**	**Q**
z	−0.001211	ω	14.8191	+0.3713037	+0.8476087
	±0.000018	Ω	278.1729	−0.8861011	+0.2014945
e	1.001572	i	22.5170	−0.2774136	+0.4908763

From 65 observations 1996 July 18–1997 Aug. 9, mean residual 0″.6.

C/1996 J1-B (Evans-Drinkwater)
Epoch 1996 Dec. 23.0 TT = JDT 2450440.5

				Marsden	
T	1996 Dec. 30.4205 TT				
q	1.297560		(2000.0)	**P**	**Q**
z	−0.000714	ω	14.8422	+0.3715393	+0.8474910
	±0.000005	Ω	278.1666	−0.8860610	+0.2017530
e	1.000926	i	22.5187	−0.2772265	+0.4909732

From 220 observations 1996 May 10–1997 Aug. 10, mean residual 0″.6.

C/1996 M1 (SOHO)

				Marsden	
T	1996 June 19.01 TT				
q	0.0058		(2000.0)	**P**	**Q**
		ω	91.17	+0.16926	−0.97421
		Ω	13.94	−0.94976	−0.20168
e	1.0	i	141.72	+0.26325	−0.10125

From 19 observations 1996 June 17–18.

C/1996 M2 (SOHO)

				Marsden	
T	1996 June 27.10 TT				
q	0.0053		(2000.0)	**P**	**Q**
		ω	91.66	+0.16047	−0.97631
		Ω	13.78	−0.95481	−0.19081
e	1.0	i	142.44	+0.25018	−0.10203

From 21 observations 1996 June 25–26.

C/1997 G2 (Montani)
Epoch 1998 Apr. 17.0 TT = JDT 2450920.5

				Nakano	
T	1998 Apr. 16.3283 TT				
q	3.084842		(2000.0)	**P**	**Q**
z	+0.001785	ω	239.8531	−0.0358094	+0.6291510
	±0.000027	Ω	55.8032	−0.2118580	+0.7545174
e	0.994493	i	69.8439	−0.9766442	−0.1867416

From 149 observations 1997 Apr. 12–July 23, mean residual 0″.7.

C/1997 J1 (Mueller)
Epoch 1997 Apr. 22.0 TT = JDT 2450560.5

				Marsden	
T	1997 May 3.8010 TT				
q	2.302227		(2000.0)	**P**	**Q**
z	+0.003862	ω	98.9555	−0.5526168	−0.0376334
	±0.000037	Ω	277.0767	−0.2486828	+0.9609184
e	0.991109	i	122.9678	+0.7954694	+0.2742620

From 315 observations 1997 May 3–Aug. 4, mean residual 0″.6.

C/1997 J2 (Meunier-Dupouy)

Epoch 1998 Mar. 8.0 TT = JDT 2450880.5

				Marsden	
T	1998 Mar. 10.4346 TT				
q	3.050393		(2000.0)	**P**	**Q**
z	−0.000489	ω	122.6927	+0.4718609	+0.7139474
	±0.000030	Ω	148.8384	−0.5764475	−0.1941542
e	1.001491	i	91.2715	+0.6671248	−0.6727431

From 367 observations 1997 May 5–Aug. 11, mean residual 0″.6.

C/1997 L1 (Xinglong)

T	1996 Nov. 21.6634 TT			Marsden	
q	4.896406		(2000.0)	**P**	**Q**
		ω	346.1891	−0.6362110	+0.0848137
		Ω	233.3039	−0.5853348	−0.7005744
e	1.0	i	73.0143	−0.5026119	+0.7085211

From 146 observations 1997 June 3–Aug. 7.

C/1997 N1 (Tabur)

T	1997 Aug. 15.4788 TT			Marsden	
q	0.395697		(2000.0)	**P**	**Q**
z	−0.000340	ω	344.1853	−0.8021931	−0.2664104
		Ω	147.6112	+0.5958563	−0.3003085
e	1.000134	i	85.9634	−0.0379655	+0.9158823

From 67 observations 1997 July 3 0.

C/1997 O1 (Tilbrook)

T	1997 July 13.2588 TT			Nakano	
q	1.373624		(2000.0)	**P**	**Q**
		ω	336.0213	−0.4353921	−0.5646374
		Ω	231.1501	−0.6091207	−0.3887226
e	1.0	i	115.8009	−0.6628768	+0.7280654

From 46 observations 1997 July 23–Aug. 10.

C/1997 P1 (SOHO)

T	1997 Aug. 5.68 TT			Marsden	
q	0.0067		(2000.0)	**P**	**Q**
		ω	50.91	+0.17122	−0.92060
		Ω	325.34	−0.98045	−0.12415
e	1.0	i	141.90	+0.09698	+0.37024

From 35 observations 1997 Aug. 3–4.

43P/Wolf-Harrington

Epoch 1997 Sept. 29.0 TT = JDT 2450720.5

T	1997 Sept. 29.2169 TT			Marsden	
q	1.581811		(2000.0)	**P**	**Q**
n	0.1525601	ω	187.1337	+0.1472777	−0.9404717
a	3.468770	Ω	254.7560	+0.9224384	+0.2423611
e	0.543985	i	18.5103	+0.3569546	−0.2382730
P	6.46				

From 89 observations 1977–1997, mean residual 0″.9. Nongravitational parameters $A_1 = +0.19$, $A_2 = -0.0296$.

78P/Gehrels 2

Epoch 1997 Aug. 20.0 TT = JDT 2450680.5

T	1997 Aug. 7.0463 TT			Marsden	
q	2.000252		(2000.0)	**P**	**Q**
n	0.1368748	ω	192.7703	+0.7272789	−0.6840919
a	3.728954	Ω	210.6270	+0.6389024	+0.7043478
e	0.463589	i	6.2578	+0.2507372	+0.1895060
P	7.20				

From 77 observations 1973–1997, mean residual 0″.7. Nongravitational parameters $A_1 = -1.48$, $A_2 = -0.0447$.

132P/Helin-Roman-Alu 2

Epoch 1997 Nov. 8.0 TT = JDT 2450760.5

T	1997 Nov. 10.0838 TT			Nakano	
q	1.910079		(2000.0)	**P**	**Q**
n	0.1196712	ω	220.9518	+0.7722744	−0.6352835
a	4.078274	Ω	178.4817	+0.6059512	+0.7353434
e	0.531645	i	5.7752	+0.1908281	+0.2359768
P	8.24				

From 18 observations 1989–1997, mean residual 1″.0.

One-opposition minor planets

Planet	H	Epoch	M	ω	Ω	i	e	a	Arc	O	N	C
1988 CW_1	14.5	880209	356.62	183.28	305.17	8.44	0.0993	2.8188	12	14		W
1988 CR_2	14.5	880209	137.42	230.38	114.86	6.13	0.0421	2.3650	12	14		W
1988 CV_2	15.0	880209	48.54	306.00	114.42	4.70	0.1877	2.2913	12	14		W
1988 CZ_2	15.5	880209	332.07	40.05	127.57	4.03	0.1708	2.3477	12	8		W
1988 CS_7	15.0	880209	346.08	12.27	138.24	2.68	0.2530	3.1963	8	13		W
1992 HD_7	13.5	920428	9.88	67.81	138.37	12.29	0.2105	2.9948	29	12		M
1993 RT_6	13.0	930910	292.05	192.87	248.56	1.16	0.0990	2.9066	28	10		W
1993 TC	13.5	930930	32.76	293.35	23.86	22.93	0.3153	2.3624	28	17		W
1993 TC_1	14.0	930930	353.28	345.37	40.71	5.30	0.1628	2.2385	26	23		W
1993 TQ_{36}	13.0	930930	338.35	329.22	66.42	10.53	0.1396	2.7991	27	13		W
1993 UF_1	13.0	931020	39.94	312.28	36.13	21.27	0.0916	1.9299	28	6		W
1995 BF_1	14.0	950103	262.59	285.67	296.81	4.24	0.0852	2.2131	21	10		W
1995 OV_3	17.0	950811	281.31	276.48	151.51	2.48	0.1930	2.2982	42	12		W
1995 SN	15.5	950920	52.51	268.45	19.30	7.05	0.3171	3.1192	34	13		W
1995 SM_{15}	15.0	950831	359.85	358.91	349.47	8.87	0.0577	2.5584	36	17		W
1995 UE_{11}	15.0	950920	316.35	215.88	200.87	8.06	0.0796	3.0713	61	11		W
1995 UG_{11}	16.0	950920	13.94	143.38	205.62	5.34	0.0935	2.7680	61	12		W
1995 UP_{11}	15.5	950920	358.92	166.49	201.29	6.69	0.1539	2.7560	60	10		W
1995 UE_{18}	18.0	950920	333.00	180.85	223.52	2.64	0.1935	2.3425	71	11		W
1996 SG_6	15.5	961004	33.88	306.95	23.06	2.88	0.2102	2.4248	50	15		W
1997 EG	14.0	970313	24.11	133.08	7.75	7.17	0.0910	2.2693	40	14		W
1997 ED_8	15.5	970402	10.17	157.37	6.23	3.60	0.1656	2.5864	63	23		W
1997 ER_{11}	15.5	970402	322.21	225.21	4.45	1.30	0.1878	2.3450	51	44		W
1997 EM_{15}	16.0	970313	293.07	262.74	1.45	6.31	0.1549	2.2414	41	30		M
1997 EK_{16}	16.5	970313	106.40	229.12	184.68	1.85	0.1947	2.4114	35	12		W
1997 EE_{32}	15.5	970313	4.36	350.45	183.41	2.22	0.1316	2.4380	39	27		M
1997 ET_{46}	14.0	970313	287.53	76.04	200.95	9.80	0.0978	3.0297	30	14		W
1997 EU_{46}	14.5	970313	308.77	9.39	247.23	1.53	0.1464	2.4690	30	12		W
1997 EB_{47}	15.5	970313	332.86	231.42	358.10	2.40	0.1954	2.3477	30	11		W
1997 EN_{47}	15.5	970313	351.29	1.50	201.02	1.97	0.1289	2.4229	20	9		W
1997 EP_{47}	13.5	970221	223.78	326.83	13.75	13.39	0.1799	2.6186	60	14		W
1997 EW_{47}	14.0	970313	320.95	47.07	196.15	8.84	0.1205	2.7788	20	9		W
1997 EO_{51}	14.0	970221	54.65	276.42	206.16	3.99	0.0063	2.4634	3	9	E	W
1997 EP_{51}	13.5	970221	270.37	287.20	2.61	6.08	0.1919	2.6625	4	12	E	W

1997 EU_{51}	13.5	970221	85.21	252.56	178.20	7.77	0.2026	2.7005	4	12	E	W
1997 FR	16.0	970313	338.15	206.09	0.51	3.88	0.1064	2.2842	40	33		M
1997 FZ	14.0	970402	329.23	33.30	191.48	0.53	0.1038	3.2021	59	18		M
1997 FJ_1	15.0	970313	302.55	58.58	187.21	12.27	0.0764	2.6857	39	22		M
1997 FA_2	14.5	970313	30.39	304.42	195.12	2.20	0.2809	2.6735	4	9		W
1997 FZ_2	15.5	970402	350.60	232.94	336.82	2.94	0.2420	3.0668	7	12	E	W
1997 FB_3	14.0	970402	349.03	7.16	198.16	10.55	0.0246	3.1081	59	19		W
1997 FC_3	14.5	970402	81.30	243.79	223.77	0.68	0.0433	3.0124	7	10	E	W
1997 FN_3	16.0	970402	286.75	253.77	31.86	4.03	0.1724	2.3292	6	14		W
1997 FU_3	13.0	970313	128.19	114.38	297.86	2.88	0.1479	3.1550	27	18		W
1997 FV_3	15.0	970402	175.50	16.89	1.28	7.82	0.1581	2.3085	7	12		W
1997 FW_3	16.0	970402	257.76	321.48	347.04	4.08	0.1068	2.2431	7	12		W
1997 FX_3	14.5	970402	264.11	95.38	225.85	2.07	0.2921	2.6470	8	16	E	W
1997 FY_3	16.5	970402	5.04	172.52	13.01	0.88	0.2343	2.6396	7	12	E	W
1997 FG_4	15.0	970402	214.98	145.63	195.98	4.54	0.0315	2.6831	39	15		W
1997 FH_4	14.0	970402	214.40	339.71	10.88	15.04	0.1830	2.4665	9	19	E	W
1997 FJ_4	14.5	970402	256.84	337.60	321.06	1.15	0.0033	2.8770	31	18	E	W
1997 FK_4	14.0	970402	115.75	66.01	3.30	8.19	0.1059	2.7809	7	12	D	W
1997 FD_5	15.0	970402	50.43	293.35	187.43	12.43	0.2131	2.5530	5	12	E	W
1997 GN	16.0	970402	309.34	80.46	197.11	21.27	0.2881	2.3582	24	37		W
1997 GO_1	15.0	970402	171.54	73.40	306.93	1.95	0.1781	2.4304	10	29		W
1997 GY_1	16.5	970313	21.35	318.64	192.07	3.56	0.1434	2.4587	42	18		M
1997 GS_2	16.0	970313	40.02	117.33	13.14	3.52	0.1337	2.7602	41	18		M
1997 GW_5	16.5	970402	4.83	2.76	199.93	7.20	0.1440	2.3789	5	8		W
1997 GP_6	15.0	970402	21.19	152.16	34.54	4.85	0.0734	2.4141	29	22		W
1997 GA_7	16.0	970402	83.73	73.27	52.79	2.83	0.0168	2.3456	29	19		W
1997 GH_7	15.5	970422	66.87	62.45	83.78	3.23	0.0410	2.6782	55	20		W
1997 GA_8	16.0	970402	314.90	238.31	39.16	11.05	0.2131	2.6257	33	24		W
1997 GC_8	15.5	970402	212.62	332.97	35.03	8.54	0.1348	2.2463	29	21		W
1997 GH_8	15.5	970402	324.79	27.62	223.87	4.02	0.0606	2.3456	29	18		W
1997 GJ_8	13.5	970402	108.61	235.71	222.86	10.19	0.0946	3.0700	33	23		W
1997 GG_9	16.0	970402	82.37	222.71	239.40	2.94	0.0849	2.2290	4	8	E	W
1997 GR_9	14.5	970402	100.58	75.03	7.14	12.94	0.1117	2.7927	4	10	E	W
1997 GZ_9	16.0	970402	70.50	81.78	21.24	5.49	0.1749	2.4115	35	16		W
1997 GP_{10}	16.5	970402	285.92	97.17	184.03	5.26	0.1183	2.2875	4	10	E	W
1997 GL_{11}	16.0	970402	274.33	288.59	2.45	6.53	0.0940	2.2990	7	13		W
1997 GM_{11}	15.5	970402	5.66	187.06	359.85	5.69	0.1599	3.1127	7	8	E	W
1997 GO_{11}	16.5	970402	34.03	292.85	200.05	15.81	0.3068	2.8222	4	10		W
1997 GB_{12}	16.5	970402	46.92	287.73	203.73	2.02	0.1680	2.4618	4	10	E	W
1997 GC_{12}	17.0	970402	7.57	342.97	201.06	1.68	0.1467	2.3519	4	8		W
1997 GD_{12}	16.0	970402	342.30	201.80	15.07	5.98	0.1188	2.3956	4	17	E	W
1997 GJ_{12}	18.0	970402	332.65	54.36	188.10	8.07	0.2883	2.3232	4	10	E	W
1997 GM_{12}	17.0	970402	313.05	210.58	39.43	2.59	0.1023	2.1174	4	13	E	W
1997 GE_{13}	15.5	970402	80.04	267.53	195.17	6.58	0.1051	2.4197	4	10		W
1997 GJ_{13}	15.5	970402	235.40	133.26	206.19	2.39	0.2504	2.3117	32	13		W
1997 GM_{13}	15.5	970402	348.22	13.30	197.30	13.36	0.1452	2.5735	4	10	E	W
1997 GF_{14}	15.5	970402	75.79	180.92	282.76	1.92	0.1423	2.4310	4	10	E	W
1997 GG_{14}	16.0	970402	324.33	21.92	216.92	5.03	0.1046	2.2586	4	10	E	W
1997 GJ_{14}	15.0	970402	6.00	339.90	207.77	11.98	0.1268	2.7523	4	10	E	W
1997 GP_{14}	16.0	970402	78.12	128.50	337.61	4.44	0.0968	2.2767	4	8	E	W
1997 GW_{14}	15.0	970402	307.54	56.38	223.12	4.10	0.2856	2.5734	4	10	E	W
1997 GZ_{14}	16.5	970402	7.96	202.82	342.36	2.29	0.1188	2.3024	4	10		W
1997 GE_{15}	17.0	970402	19.54	196.43	331.13	1.39	0.1683	2.3192	4	10		W
1997 GH_{15}	16.0	970402	4.14	332.76	216.78	2.17	0.1489	2.3837	4	10	E	W
1997 GK_{15}	16.0	970402	4.46	241.48	307.89	0.77	0.1581	2.8410	4	10	E	W
1997 GU_{15}	16.5	970402	111.26	256.38	184.46	6.61	0.0249	2.2044	4	8	E	W
1997 GA_{16}	16.5	970402	330.00	198.80	36.40	4.69	0.1587	2.5988	4	13		W
1997 GL_{16}	14.5	970402	176.42	212.87	165.22	2.98	0.2316	2.7643	4	8	E	W
1997 GS_{16}	16.5	970402	5.98	34.47	150.32	0.74	0.2308	2.2558	7	15	E	W
1997 GV_{16}	15.5	970402	338.92	30.87	193.22	5.99	0.1469	3.0119	7	17	E	W
1997 GA_{18}	14.5	970402	154.71	210.00	184.45	6.45	0.1609	2.4117	4	8		W
1997 GD_{18}	16.5	970402	87.58	293.46	163.24	2.35	0.0965	2.2382	4	8	E	W
1997 GZ_{18}	16.0	970402	303.15	300.24	342.10	3.26	0.2629	2.1754	4	8	E	W
1997 GA_{19}	14.5	970402	221.27	358.88	350.42	5.83	0.2184	2.4388	4	8		W
1997 GJ_{19}	17.0	970402	19.53	297.39	226.22	1.56	0.2035	2.2818	6	12	E	W
1997 GK_{19}	18.0	970402	357.10	0.85	197.69	3.22	0.2911	2.6523	4	10	E	W
1997 GM_{19}	15.5	970402	80.31	286.32	185.94	4.05	0.0064	2.3414	4	10	E	W
1997 GP_{19}	16.5	970402	304.86	231.84	40.58	3.41	0.2194	2.4544	4	8		W
1997 GS_{19}	16.0	970402	266.55	76.73	232.57	3.54	0.1854	2.2150	4	8	E	W
1997 GV_{19}	15.0	970402	70.78	282.76	198.26	18.30	0.0306	2.6738	4	10	E	W
1997 GW_{19}	16.0	970402	113.37	240.31	199.56	3.24	0.0142	2.4740	4	10	E	W
1997 GD_{20}	13.5	970402	220.59	249.49	97.15	0.98	0.1747	3.1170	7	15	E	W
1997 GE_{20}	14.0	970402	135.47	241.04	171.89	2.56	0.1066	2.8988	8	10		W
1997 GG_{20}	15.0	970402	153.28	25.58	9.54	9.09	0.1226	2.5958	4	8	E	W
1997 GJ_{20}	16.5	970402	71.82	92.69	13.43	2.31	0.1438	2.5312	4	8	E	W
1997 GN_{20}	17.0	970402	54.26	98.87	32.12	4.52	0.0884	2.2925	36	17		W
1997 GO_{20}	16.5	970402	344.17	180.98	31.05	5.24	0.0609	2.6432	36	14		W
1997 GT_{20}	15.5	970402	348.00	209.25	3.77	9.44	0.2011	2.3533	7	14		W
1997 GU_{20}	15.5	970313	320.38	24.05	221.86	3.53	0.2118	2.4098	27	16	D	W
1997 GV_{20}	15.0	970313	26.32	279.61	231.95	2.87	0.1642	2.5241	27	16	D	W
1997 GX_{20}	16.0	970402	180.39	160.44	213.97	3.52	0.1387	2.1666	4	10	E	W
1997 GB_{21}	16.0	970402	77.11	277.53	184.72	7.12	0.1205	2.4129	4	6	E	W
1997 GC_{21}	15.0	970402	131.24	51.91	7.24	6.42	0.0487	2.7192	4	10	E	W
1997 GE_{21}	15.5	970402	8.88	343.57	199.17	7.98	0.1783	3.0856	4	15	E	W
1997 GH_{21}	15.0	970402	297.60	246.43	42.55	9.74	0.1160	3.0436	33	31		W
1997 GJ_{21}	16.0	970402	315.20	61.92	209.97	16.15	0.1576	2.7223	6	10		W
1997 GL_{21}	14.0	970402	133.32	80.74	359.17	1.49	0.0243	2.9428	33	27		W
1997 GN_{21}	16.0	970402	351.42	199.03	22.59	4.74	0.1591	2.3298	29	18		W
1997 GF_{22}	18.0	970402	319.93	253.41	32.13	3.22	0.3695	2.1080	29	24		W
1997 GJ_{22}	16.0	970402	350.98	3.63	219.74	4.96	0.0773	2.5237	33	22		W
1997 GS_{22}	15.0	970402	74.96	89.88	48.12	3.79	0.0203	2.7777	29	24		W
1997 GT_{22}	14.0	970402	302.63	239.08	41.08	10.75	0.0700	2.9839	29	26		W
1997 GW_{22}	15.0	970422	109.34	22.62	76.45	3.02	0.0990	2.5176	32	28		W
1997 GZ_{22}	15.0	970402	104.96	271.11	193.05	5.57	0.0574	2.7971	29	24		W
1997 GF_{23}	14.0	970402	104.66	57.33	44.59	22.68	0.0921	3.2226	29	32		W
1997 GO_{23}	13.5	970402	331.51	227.06	23.97	5.70	0.0867	3.3355	29	24	E	W
1997 GD_{24}	15.5	970402	13.01	3.10	192.89	6.56	0.0684	2.4102	6	8	E	W
1997 GN_{24}	14.5	970402	169.38	1.69	40.99	15.68	0.0784	2.5945	29	15		W
1997 GO_{24}	11.5	970422	352.11	5.34	226.38	12.80	0.0822	5.3081	31	22	E	W
1997 GP_{24}	14.5	970402	278.58	253.21	50.52	10.64	0.0575	2.9877	28	24		W
1997 GQ_{24}	16.0	970422	22.08	132.10	58.65	2.70	0.1164	2.4157	31	20		W
1997 GW_{30}	13.5	970313	302.02	49.63	200.74	0.47	0.1073	3.2020	42	19		M
1997 GM_{33}	14.5	970313	253.14	113.22	197.56	13.18	0.1086	2.5969	31	16		W
1997 GM_{35}	16.5	970402	20.34	39.00	145.05	2.85	0.1452	2.3592	25	16		W
1997 GO_{35}	16.0	970402	270.85	257.96	62.15	3.91	0.1545	2.2411	25	23		W
1997 GR_{35}	14.0	970422	195.45	173.66	219.18	11.53	0.2869	2.6561	31	13		W
1997 GH_{36}	14.0	970422	69.88	101.87	37.67	13.64	0.1062	2.6910	31	19		W
1997 GP_{36}	14.0	970422	27.63	322.03	216.11	12.17	0.2156	2.6465	31	19		W
1997 GD_{37}	16.5	970402	134.84	233.23	179.57	5.75	0.1217	2.2214	8	7		W
1997 GE_{37}	14.0	970402	213.13	170.04	189.09	13.78	0.3177	2.6963	8	7		W
1997 HF_7	15.0	970402	137.52	9.79	54.78	1.47	0.1793	2.3270	29	16		W
1997 HR_7	15.5	970422	274.93	324.63	352.79	3.21	0.1139	2.7177	5	19	E	W
1997 HW_7	14.5	970402	229.01	121.28	240.33	2.47	0.2000	2.7295	29	16		W
1997 HP_8	16.0	970422	336.66	68.76	177.06	2.58	0.0982	2.6517	5	20	E	W
1997 HX_8	16.0	970422	13.46	22.10	173.36	0.38	0.2447	3.2348	5	18	E	W
1997 HY_8	14.0	970422	232.00	312.17	47.17	5.45	0.1509	3.2306	5	19	E	W

1997 HA_9	15.0	970422	309.88	260.63	33.32	7.69	0.2350	3.1244	5	19	E W
1997 HR_9	15.5	970402	223.39	301.15	58.82	1.69	0.1237	2.4193	29	21	W
1997 HY_9	15.0	970402	233.56	299.03	52.05	8.47	0.1294	2.4486	29	27	W
1997 HG_{10}	16.5	970422	281.02	250.88	56.24	3.37	0.0854	2.3202	5	21	E W
1997 HR_{10}	15.5	970402	351.15	9.85	214.96	1.17	0.0259	2.9015	29	20	W
1997 HK_{11}	16.5	970422	333.88	15.77	232.55	8.35	0.0588	2.2244	5	19	E W
1997 HP_{11}	14.0	970422	143.28	104.31	328.00	1.47	0.0840	2.9197	27	22	W
1997 HY_{11}	16.0	970422	264.42	296.79	38.65	5.20	0.1848	2.3740	5	19	E W
1997 HP_{12}	16.0	970402	10.55	347.16	207.57	3.58	0.1787	2.3178	25	19	W
1997 HS_{12}	15.0	970402	18.58	312.84	236.28	1.16	0.1411	2.6953	29	21	W
1997 HY_{13}	15.0	970422	274.17	100.46	217.51	7.72	0.1108	3.1774	5	17	E W
1997 JA	13.5	970422	57.38	66.92	85.28	2.30	0.0942	3.1325	66	61	W
1997 JZ	15.0	970402	294.57	74.32	217.82	13.62	0.1281	2.3901	36	35	W
1997 JA_4	14.5	970422	281.69	220.19	95.50	2.44	0.1665	3.2195	27	17	W
1997 JC_4	16.0	970422	338.74	35.78	212.48	9.57	0.1749	2.9889	5	18	E W
1997 JE_4	17.5	970422	18.60	293.95	259.67	1.45	0.1259	2.1773	5	18	E W
1997 JK_4	15.5	970422	254.85	311.46	24.22	3.00	0.1015	2.5388	5	14	E W
1997 JK_{11}	15.5	970422	330.39	50.33	212.04	6.88	0.1799	2.5656	31	17	W
1997 JM_{11}	13.0	970402	36.79	74.20	98.07	2.69	0.1314	3.9709	28	9	W
1997 JR_{16}	14.0	970402	203.85	357.29	26.73	2.94	0.3032	2.7469	35	19	W
1997 KS	14.0	970621	347.51	73.96	225.27	5.72	0.1360	2.4576	65	20	W
1997 KM_4	14.5	970601	57.50	3.48	161.04	16.09	0.1260	3.1276	44	18	M
1997 LG_1	15.0	970621	319.63	178.94	137.32	10.42	0.2330	2.3220	51	32	W
1997 LD_4	17.5	970601	52.04	103.72	67.49	25.63	0.2338	2.3625	26	12	W
1997 LG_4	15.0	970621	290.57	188.07	151.85	15.98	0.1509	2.8900	49	27	W
1997 LH_4	15.0	970621	81.77	347.41	185.56	14.88	0.0285	2.5948	44	24	W
1997 LA_5	15.5	970711	321.45	234.17	109.54	15.78	0.1508	2.5628	60	23	M
1997 LX_5	16.0	970621	26.40	103.27	141.10	1.84	0.2173	2.4801	49	14	M
1997 LM_{14}	13.5	970512	92.36	1.37	135.12	3.48	0.0722	2.9649	36	9	W
1997 MR	14.0	970601	251.86	145.22	209.26	7.61	0.0449	3.0388	56	18	W
1997 MV	15.0	970621	109.06	49.11	123.72	8.36	0.0485	2.2380	17	11	W
1997 MX	15.5	970711	309.54	242.02	131.26	6.84	0.2752	2.5462	36	19	W
1997 MZ	15.0	970621	229.63	153.00	278.65	13.79	0.1378	2.5336	17	12	W
1997 MQ_1	15.5	970711	55.19	16.53	206.67	5.84	0.0886	2.2514	26	8	W
1997 MR_1	15.0	970711	14.54	349.98	252.68	23.64	0.0936	2.2999	29	14	M
1997 MU_1	14.5	970711	58.24	96.90	114.15	14.05	0.2127	2.5458	36	15	M
1997 MV_1	18.5	970711	356.51	113.97	195.64	6.48	0.3189	2.3145	32	12	W
1997 MX_1	14.5	970601	351.65	26.50	226.43	8.92	0.1444	3.1123	24	12	W
1997 MK_2	15.5	970601	147.62	296.98	150.95	3.71	0.1553	2.6004	24	12	W
1997 ML_2	15.5	970601	147.60	291.96	156.61	3.54	0.1544	2.3810	24	15	W
1997 MS_2	13.5	970621	255.28	305.04	102.42	21.42	0.2357	2.6940	4	18	E W
1997 MY_2	16.0	970621	5.31	263.29	5.19	2.59	0.2236	2.8424	4	15	E W
1997 MC_3		970621	35.42	257.62	337.78	4.05	0.0894	2.5583	4	16	W
1997 MG_3	16.0	970621	25.98	154.44	88.98	3.09	0.1418	2.7814	4	21	E W
1997 MV_8	16.0	970621	4.05	356.35	296.81	12.64	0.1713	2.5294	15	12	W
1997 ND	18.0	970621	8.49	13.07	272.70	3.70	0.1594	2.3677	13	12	W
1997 NQ	13.5	970621	318.49	137.39	212.32	12.20	0.1965	2.6853	14	16	W
1997 NU	12.0	970711	34.58	80.24	122.12	13.52	0.1163	2.6667	18	13	W
1997 NY	14.5	970711	208.02	175.91	274.67	5.33	0.0829	2.2117	33	22	M
1997 NB_1	16.5	970711	31.79	205.69	39.11	2.56	0.1672	2.3906	23	6	W
1997 NU_1	14.5	970711	293.02	142.13	230.40	1.10	0.1055	2.8549	25	16	M
1997 NZ_1	17.5	970621	351.58	152.78	112.43	5.45	0.2111	2.3586	30	12	W
1997 NP_2	14.5	970711	49.31	33.40	202.94	5.04	0.1507	2.2326	20	18	W
1997 NR_2	15.0	970711	281.00	239.44	156.69	1.57	0.1179	2.6281	26	29	W
1997 NT_2	16.5	970621	0.25	14.08	288.59	8.32	0.0439	2.7259	12	9	W
1997 NU_2	16.0	970621	231.02	166.56	274.56	5.00	0.1244	2.2742	12	12	W
1997 NW_2	15.5	970621	220.94	164.74	288.52	7.56	0.0974	3.0348	12	12	W
1997 NA_3	14.0	970711	1.25	17.75	269.19	2.34	0.0832	3.0643	21	10	W
1997 NC_3	13.0	970711	282.11	126.28	269.58	0.45	0.1997	3.2106	28	12	M
1997 NE_3	14.0	970711	96.70	246.78	293.73	6.59	0.1537	2.3988	28	16	M
1997 NG_3	13.1	970711	341.41	165.31	158.45	10.90	0.0995	3.0030	17	12	N
1997 NH_3	15.5	970711	334.42	210.72	110.37	22.06	0.0540	2.4289	27	10	M
1997 NN_5	16.0	970621	293.21	244.06	99.42	8.17	0.2468	2.4234	33	12	W
1997 NC_6	18.0	970711	17.91	13.53	264.80	3.16	0.1624	2.1884	5	9	W
1997 ND_6	16.0	970711	53.11	94.58	157.31	5.70	0.0527	3.1144	5	9	E W
1997 NG_6	14.5	970711	271.83	245.28	108.41	11.69	0.0734	2.9902	20	18	W
1997 NJ_6	**18.5**	**970711**	**270.90**	**132.60**	**254.74**	**18.99**	**0.2268**	**1.4866**	**5**	**21**	**W**
1997 NK_6	15.5	970711	17.83	96.61	179.54	7.38	0.1031	2.7591	16	6	W
1997 NU_6	13.5	970711	51.24	354.92	238.02	8.37	0.0916	2.8096	26	24	W
1997 NB_8	15.5	970711	322.07	67.76	276.80	2.30	0.2082	2.2585	16	12	W
1997 NN_9	15.0	970711	67.88	263.51	317.00	20.50	0.2284	2.9577	3	9	W
1997 NJ_{10}	13.0	970711	162.05	331.36	175.37	10.30	0.0430	2.9945	20	12	W
1997 NK_{10}	14.0	970711	258.06	249.28	172.73	15.15	0.1059	2.6061	18	11	W
1997 NM_{10}	16.0	970711	338.38	42.45	282.91	11.09	0.1887	2.2897	13	13	W
1997 NP_{10}	**20.5**	**970711**	**346.14**	**121.11**	**211.44**	**4.54**	**0.4045**	**2.2718**	**28**	**45**	**W**
1997 NR_{10}	16.7	970711	351.20	152.68	156.34	5.25	0.2406	2.3936	27	21	N
1997 ND_{11}	12.5	970711	319.12	71.09	271.50	9.41	0.1469	3.0483	12	8	W
1997 NE_{11}	13.0	970711	339.39	57.64	273.57	13.85	0.1828	2.8032	12	12	N
1997 OA	14.0	970711	338.29	187.33	93.06	23.26	0.0573	3.2076	8	12	W
1997 OH	19.0	970711	354.02	9.01	297.64	17.05	0.3777	2.2727	4	31	W
1997 OJ	14.0	970731	7.98	232.73	58.61	1.26	0.1683	3.1752	13	13	W
1997 OK	15.5	970731	347.77	18.65	305.05	11.75	0.2386	2.7193	13	14	W
1997 OM	14.0	970711	230.47	304.38	140.63	3.79	0.1316	2.8447	6	13	E W
1997 ON	15.5	970731	316.55	135.15	228.79	2.85	0.1688	2.2786	13	18	M
1997 OU	16.0	970731	74.98	249.24	342.51	0.71	0.1613	2.4224	14	9	E W
1997 OY	13.8	970731	208.26	146.20	319.21	8.00	0.1317	2.7417	10	11	N
1997 OZ	14.0	970711	357.34	225.65	83.06	2.71	0.1964	3.0737	7	10	W
1997 OA_1	15.5	970711	16.87	303.90	336.70	4.02	0.1491	2.5282	7	9	W
1997 OB_1	17.0	970731	359.46	144.15	167.47	3.71	0.1987	2.1770	9	11	W
1997 OC_1	15.0	970731	357.20	150.59	164.54	5.00	0.1262	2.5277	4	11	E W
1997 OE_1	16.0	970731	88.88	279.40	287.67	1.95	0.1097	2.3969	2	11	E W
1997 OF_1	15.5	970731	320.48	89.28	296.40	1.72	0.2984	2.5310	2	10	E W
1997 OG_1	17.0	970731	47.69	289.01	300.79	21.92	0.2459	2.2592	8	11	W
1997 ON_1	16.0	970731	46.70	86.34	151.17	2.64	0.1702	2.3329	12	12	M
1997 OO_1	15.0	970731	219.43	316.22	130.24	7.82	0.0945	2.2567	6	8	M
1997 OQ_1	16.0	970731	170.06	12.43	135.70	13.29	0.1172	2.3871	9	9	W
1997 OT_1	16.0	970731	83.72	94.52	123.96	5.54	0.1589	2.3624	4	7	M
1997 OX_1	17.0	970731	351.55	148.02	172.73	5.66	0.2384	2.2053	9	6	W
1997 OY_1	14.0	970731	276.22	235.05	178.65	9.38	0.1585	2.5029	5	10	W
1997 OF_2	16.5	970731	355.61	34.79	287.81	3.76	0.2028	2.5758	6	12	W
1997 OG_2	16.5	970731	357.98	132.04	186.84	2.03	0.1939	2.4126	5	9	W
1997 OK_2	16.0	970731	72.04	290.14	306.27	5.36	0.0890	2.2518	5	9	W
1997 OL_2	14.5	970731	355.30	35.59	290.70	2.65	0.1480	3.0434	6	12	W
1997 PB	15.0	970731	8.82	177.03	117.38	4.39	0.1311	2.3023	3	22	W
1997 PD	15.0	970731	5.34	8.93	287.55	13.00	0.2895	2.4690	10	21	W
1997 PE	13.5	970731	166.85	297.62	196.94	6.60	0.1950	2.3432	2	21	E W
1997 PF	15.0	970731	342.69	107.22	227.36	5.65	0.2424	3.2009	2	12	E W
1997 PH	15.5	970731	319.10	337.60	25.72	6.53	0.1289	2.4541	5	16	M
1997 PJ	14.0	970731	338.52	141.07	186.04	7.43	0.1531	2.8358	2	12	W
1997 PN	**20.0**	**970731**	**3.24**	**348.11**	**309.75**	**26.52**	**0.4247**	**2.2360**	**9**	**88**	**W**
1997 PO	**16.5**	**970731**	**2.35**	**162.05**	**136.57**	**23.85**	**0.4390**	**3.1043**	**9**	**77**	**W**
1997 PP	17.5	970731	3.03	279.82	23.29	4.92	0.3789	2.7307	4	22	W
1997 PT	18.0	970731	351.95	158.39	169.48	3.10	0.2109	2.3537	6	12	W
1997 PV	16.5	970731	24.74	337.08	303.16	4.21	0.2202	2.8202	2	9	E W
1997 PX	17.0	970731	260.91	261.69	170.09	3.30	0.1279	2.3004	5	9	W
1997 PK_1	14.0	970731	255.33	295.83	143.42	7.22	0.1193	2.8120	9	11	M

1997 PZ_1	15.0	970731	285.19	255.06	154.04	3.36	0.1292	2.9934	6	11	M
1997 PA_2	15.5	970731	278.83	35.13	29.93	2.56	0.1890	2.9759	6	8 E	M
1997 PD_2	17.5	970731	4.81	68.29	230.42	1.63	0.2444	2.4118	3	7	M
1997 PE_2	14.0	970731	346.99	184.81	143.10	18.92	0.3171	2.6555	7	12	W
1997 PF_2	17.0	970731	357.75	303.28	34.53	2.58	0.2368	2.2935	3	4 E	W
1274 T-1	13.5	710419	224.88	326.56	5.94	5.06	0.1081	2.7257	51	15	W
3307 T-1	16.5	710330	26.04	84.20	75.75	0.88	0.0640	2.3108	22	6	W
3317 T-1	**12.0**	**710330**	**199.95**	**350.73**	**11.37**	**9.87**	**0.4703**	**2.8931**	**23**	**7**	**W**
4229 T-2	16.0	730915	85.20	226.22	20.23	10.22	0.2925	2.3293	6	8	W
5096 T-2	15.5	730915	351.13	36.29	341.15	16.02	0.2118	2.5486	15	14	W
2290 T-3	15.5	771004	0.59	65.82	312.71	4.37	0.0901	2.6963	6	8	W
3119 T-3	18.5	771004	327.93	246.11	201.05	20.98	0.3946	2.5134	10	9	W

1997 FK_4 = 1997 GW_{20} (G. V. Williams)
1997 GU_{20} = 1997 EP_{49} (G. V. Williams)
1997 GV_{20} = 1997 EQ_{49} (G. V. Williams)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(126) Velleda Obs. 230 M 291.97024 ω 327.43659
H 9.27 G 0.15 U 1 Opp. 38 n 0.25880175 Ω 23.58075
rms res. 0″.99 (M–v) 1872–1997 e 0.1061896 i 2.92376

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(1094) Siberia Obs. 73 M 226.02274 ω 309.19104
H 11.9 G 0.15 U 1 Opp. 16 n 0.24243218 Ω 149.25602
rms res. 0″.85 (M–v) 1935–1997 e 0.1340176 i 14.01137

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(1386) Storeria Obs. 30 M 359.13619 ω 152.22309
H 12.6 G 0.15 U 2 Opp. 7 n 0.27089950 Ω 161.82956
rms res. 1″.04 (M–v) 1935–1997 e 0.2853522 i 11.78328

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden
(1877) Marsden Obs. 88 M 32.39041 ω 307.44885
H 10.7 G 0.15 U 1 Opp. 11 n 0.12573029 Ω 352.95540
rms res. 0″.89 (M–v) 1950–1997 e 0.2102320 i 17.55048

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(2100) Ra-Shalom Obs. 109 M 63.27769 ω 355.95953
H 16.05 G 0.12 U 3 Opp. 9 n 1.29866958 Ω 170.93465
rms res. 0″.90 (M–v) 1975–1997 e 0.4365622 i 15.75243

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(2318) Lubarsky Obs. 40 M 281.59431 ω 241.20679
H 13.8 G 0.15 U 2 Opp. 11 n 0.29145495 Ω 153.42596
rms res. 0″.82 (M–v) 1950–1997 e 0.1319814 i 3.59472

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(2915) Moskvina Obs. 39 M 295.04056 ω 356.62149
H 13.3 G 0.15 U 3 Opp. 7 n 0.24041061 Ω 352.95832
rms res. 0″.89 (M–v) 1977–1997 e 0.1868315 i 13.21994

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(2938) Hopi Obs. 83 M 333.36657 ω 262.91149
H 11.5 G 0.15 U 1 Opp. 7 n 0.17668659 Ω 109.33029
rms res. 0″.81 (M–v) 1980–1997 e 0.3345912 i 41.44245

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(2958) Arpetito Obs. 85 M 17.54660 ω 323.36250
H 12.2 G 0.15 U 1 Opp. 11 n 0.20223393 Ω 298.39552
rms res. 0″.78 (M–v) 1969–1997 e 0.0138885 i 1.02807

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(2966) Korsunia Obs. 32 M 54.50713 ω 198.04448
H 13.4 G 0.15 U 2 Opp. 6 n 0.25721397 Ω 46.65927
rms res. 0″.98 (M–v) 1977–1997 e 0.1404690 i 2.54763

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden
(3102) Krok Obs. 78 M 358.83337 ω 154.32931
H 15.6 G 0.15 U 1 Opp. 4 n 0.31219424 Ω 172.38729
rms res. 0″.88 (M–v) 1981–1997 e 0.4480475 i 8.40995

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(3562) Ignatius Obs. 24 M 236.56613 ω 61.05966
H 13.1 G 0.15 U 2 Opp. 8 n 0.27572692 Ω 93.04328
rms res. 1″.23 (M–v) 1909–1993 e 0.1560711 i 5.72208

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(3619) Nash Obs. 26 M 342.83224 ω 181.59267
H 13.9 G 0.15 U 2 Opp. 5 n 0.26693266 Ω 161.51632
rms res. 0″.92 (M–v) 1960–1997 e 0.2373831 i 4.03756

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(3750) Ilizarov Obs. 33 M 100.27427 ω 206.76337
H 11.8 G 0.15 U 3 Opp. 7 n 0.18741243 Ω 8.18577
rms res. 0″.73 (M–v) 1973–1997 e 0.0457080 i 10.42129

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(4410) Kamuimintara Obs. 57 M 189.67968 ω 326.44509
H 11.9 G 0.15 U 1 Opp. 7 n 0.18476491 Ω 44.84609
rms res. 0″.79 (M–v) 1973–1997 e 0.0938871 i 11.13635

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher
(4485) Radonezhskij Obs. 28 M 207.74369 ω 136.29896
H 11.7 G 0.15 U 1 Opp. 8 n 0.18836036 Ω 316.82156
rms res. 0″.76 (M–v) 1953–1997 e 0.0691400 i 10.15188

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(5601) 1991 VR Obs. 48 M 285.15522 ω 359.26397
H 13.6 G 0.15 U 2 Opp. 7 n 0.30629043 Ω 15.71303
rms res. 0″.75 (M–v) 1933–1997 e 0.1249045 i 4.83569

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams
(6037) 1988 EG Obs. 51 M 210.19339 ω 241.51050
H 18.7 G 0.15 U 3 Opp. 4 n 0.68934083 Ω 182.94780
rms res. 0″.87 (M–v) 1988–1997 e 0.4991762 i 3.47932

Epoch 1997 June 1.0 TT = JDT 2450600.5 Forti
(6269) 1990 UJ Obs. 47 M 321.23153 ω 183.09727
H 13.5 G 0.15 U 1 Opp. 7 n 0.26578172 Ω 158.03560
rms res. 0″.78 (M–v) 1986–1997 e 0.1319909 i 6.20244

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

(6969) 1991 VF$_5$ Obs. 46 M 210.17942 ω 304.75265

H 13.4 G 0.15 U 1 Opp. 6 n 0.30219580 Ω 148.80875

rms res. 0″.69 (M–v) 1974–1997 e 0.0314324 i 7.10562

(7806)∗ 1971 UM = 1990 VB$_3$

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

Id. S. Nakano (*MPC* 17424)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	300.45921			(2000.0)		**P**		**Q**			
n	0.26100700		ω	334.27125		+0.99705421		−0.07311186			
a	2.4249416		Ω	29.94937		+0.07591590		+0.89757927			
e	0.1928119		i	2.66186		+0.01093955		+0.43474832			
P	3.78		H	14.0	G	0.15	U	1			

Residuals in seconds of arc

520915	675	0.5−	0.3−	901111	374	0.9−	0.5−	970707	610	0.5+	0.7−
520915	675	0.7−	0.5+	901111	374	0.4+	0.5+	970707	610	0.4+	0.7−
630717	760	(15.8−	3.2−)	901117	374	0.3+	0.3+	970707	610	0.1+	0.6−
630717	760	(10.2−	4.1−)	901117	374	0.2−	0.6−	970709	610	0.3+	1.0+
711026	029	0.5+	0.4−	901123	871	0.4−	0.1−	970709	610	0.0	0.9+
711026	029	1.0+	0.3−	941226	104	0.2+	0.2+	970709	610	0.2−	0.9+
711027	095	1.1+	0.1+	941226	104	0.1−	0.7+	970713	610	1.0+	1.3+
711030	029	0.1+	0.2−	941226	104	0.5+	0.5+	970713	610	0.7+	1.4+
711110	029	0.1−	0.1−	941226	104	1.1−	0.2+	970713	610	0.4+	1.5+
711110	029	0.5−	0.0	970702	610	0.6−	0.7−	970803	566	1.0−	1.1−
711119	029	0.1+	0.8+	970702	610	0.1+	0.3−	970803	566	0.8−	0.9−
880317	675	0.1+	0.4−	970702	610	0.6+	0.1+	970803	566	1.9−	1.3−

(7807)∗ 1975 SJ$_1$ = 1981 UW$_{26}$

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

Id. T. Kobayashi (*MPC* 21097)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	47.60445			(2000.0)		**P**		**Q**			
n	0.17385027		ω	56.76332		−0.21963944		+0.97213688			
a	3.1794534		Ω	201.01404		−0.95374040		−0.23162943			
e	0.0930362		i	13.20312		−0.20527487		+0.03602361			
P	5.67		H	12.8	G	0.15	U	2			

Residuals in seconds of arc

750930	675	0.8+	0.2−	960419	684	0.8+	0.7−	960524	691	1.2−	0.3+
751001	675	0.3−	0.1−	960419	684	1.1+	0.2−	960524	691	0.9−	0.5+
751002	675	0.3−	0.0	960419	684	1.3+	0.4−	960524	691	1.2−	0.4+
751015	675	0.3+	0.8+	960518	684	0.2+	0.2+	960604	689	0.5+	0.4+
751016	675	0.4−	0.9−	960518	684	0.2+	0.2+	970708	688	0.8−	0.5+
811025	675	1.4−	1.1−	960518	684	0.2+	0.1+	970708	688	0.2−	0.4+
811026	675	1.4+	0.6+	960518	691	1.5−	0.1+	970730	557	0.4+	0.1+
960412	596	1.1+	0.6+	960518	691	1.7−	0.2+	970730	557	0.5+	0.1+
960412	596	1.1+	0.0	960518	691	1.7−	0.0	970802	557	0.1−	0.3−
960412	596	1.5+	0.2+	960519	684	0.3+	0.5−	970802	557	0.2+	0.1−
960417	684	0.6−	0.1−	960519	684	0.4+	0.6−	970802	557	0.1−	0.5−
960417	684	0.5+	0.9−	960519	684	0.3+	0.5−				

(7808)∗ 1976 GL$_8$ = 1976 HR = 1990 XD

Discovered 1976 Apr. 5 by M. R. Cesco at El Leoncito.

Id. O. Kippes (d, *MPC* 5217), T. Urata (*MPC* 17624)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	6.09723		(2000.0)		**P**		**Q**
n	0.24057606	ω	355.30370		−0.03654133		+0.99283537
a	2.5603604	Ω	272.57166		−0.91312059		−0.07942810
e	0.1559207	i	6.53906		−0.40604868		+0.08926985
P	4.10	H	12.4	G	0.15	U	2

Residuals in seconds of arc

760405	808	0.1+	0.9−	941127	675	0.6−	0.8+	970708	327	0.6−	0.1−
760405	808	0.3+	0.8−	960317	801	0.5+	0.3−	970708	327	1.1−	0.0
760423	808	0.4+	0.2+	960317	801	0.4+	0.2−	970708	327	1.1−	0.0
760423	808	0.5−	1.4+	960319	801	0.3−	0.0	970709	610	1.0+	1.0+
760426	808	0.4−	1.5+	960319	801	0.4−	0.1+	970709	610	1.0+	1.1+
760426	808	0.8+	0.5+	970609	816	0.6−	0.1−	970709	610	1.0+	1.4+
901207	889	0.1−	0.4+	970609	816	0.7−	0.1−	970712	610	0.5+	0.3−
901207	889	0.0	0.7+	970609	816	0.6−	0.2−	970712	610	0.3−	0.1−
901208	889	0.1+	1.3+	970701	610	1.1+	0.1−	970712	610	0.9−	0.1+
930723	675	0.0	0.8−	970701	610	1.0+	0.1−	970722	540	0.9−	0.5−
930723	675	0.0	0.8−	970701	610	1.0+	0.0	970722	540	0.9−	0.3−
930812	596	(3.4+	2.9−)	970706	610	0.8+	0.3+	970722	540	0.3−	0.0
930812	596	0.2+	1.9+	970706	610	0.6+	0.4+	970730	540	0.4−	0.4+
930812	596	0.9+	1.6−	970706	610	0.5+	0.6+	970730	540	0.4−	0.1−
941127	675	0.0	0.4+	970708	689	0.5−	0.1−	970730	540	1.1−	0.2−

(7809)∗ 1979 ML$_1$ = 1990 RY$_8$

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

Id. E. Bowell (*MPC* 17955)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	328.25455			(2000.0)		**P**		**Q**			
n	0.27415443		ω	48.43796		+0.79828977		+0.59222394			
a	2.3467808		Ω	274.96145		−0.58012563		+0.70722335			
e	0.1197889		i	6.31393		−0.16182611		+0.38614239			
P	3.60		H	14.6	G	0.15	U	2			

Residuals in seconds of arc

540728	675	0.5+	0.1+	900917	675	1.1+	0.9−	960225	424	0.3−	0.6−
540728	675	0.6+	0.2+	900918	675	0.5−	0.8−	970610	689	1.5+	0.0
790623	413	0.3−	0.3−	900918	675	0.4−	0.3−	970709	104	0.2+	0.2+
790624	413	0.0	0.9−	920212	809	0.7+	0.2−	970709	104	0.7+	0.1+
790625	413	2.2−	0.2−	920212	809	0.5−	0.0	970709	104	0.8+	0.0
790724	675	0.3−	0.6−	920212	809	0.9−	0.6−	970726	910	0.0	0.0
790724	413	0.2+	0.8+	960217	424	1.2−	1.1−	970726	910	0.2+	0.2−
790725	675	0.1−	0.7−	960217	424	0.4+	0.0	970726	910	0.1−	0.1−
790823	675	0.2+	1.0+	960217	424	0.9−	1.1−	970730	552	0.5−	0.3+
900913	675	0.6+	1.3−	960225	424	0.3+	0.8−	970730	552	0.7−	0.4−
900917	675	0.4+	0.4−	960225	424	0.5+	0.6−				

(7810)∗ 1981 DE = 1972 TG$_4$ = 1972 VL = 1977 AD$_1$

Discovered 1981 Feb. 26 by H. Debehogne and G. DeSanctis at the European Southern Observatory.

Id. S. Nakano (*MPC* 11147)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	213.55928		(2000.0)			**P**		**Q**			
n	0.26736001	ω	190.19216			+0.26626137		−0.96003793			
a	2.3863735	Ω	244.40935			+0.89095358		+0.27925561			
e	0.0759097	i	5.48505			+0.36784045		+0.01853310			
P	3.69	H	13.5	G	0.15		U	1			

Residuals in seconds of arc

721005	095	1.2+	0.9+	810306	809	0.1−	0.5−	900919	675	0.5+	1.5−
721108	095	(5.6+	6.3−)	810306	809	0.2+	0.4−	941003	801	0.2−	0.3−
770113	095	(6.6+	0.7−)	810306	809	0.5+	0.8−	941003	801	0.2−	0.3−
810226	809	0.8+	0.5+	810307	809	0.6−	0.5−	941007	801	0.8+	0.4−
810226	809	0.5+	0.2+	810307	809	0.6−	0.4−	941007	801	0.3+	0.1−
810226	809	0.7+	0.1−	810307	809	0.6−	0.4−	960318	801	0.7+	0.6−
810228	809	1.0+	0.3+	810308	809	0.6−	0.1+	960318	801	0.4+	1.4−
810228	809	1.0+	0.1+	810308	809	0.6−	0.1+	960324	801	0.7−	0.8−
810228	809	1.0+	0.2−	810308	809	0.9−	0.1+	960324	801	0.7−	0.9−
810302	809	0.1−	0.2−	810309	809	1.1−	0.5−	970708	689	0.1+	1.1−
810302	809	0.4+	0.6−	810309	809	1.0−	0.6−	970709	689	0.8+	0.1+
810302	809	0.8+	0.7−	810309	809	0.6−	0.6−	970806	540	0.4−	0.6−
810303	809	0.7−	0.6+	900913	675	0.2+	1.1−	970806	540	0.5−	0.2−
810303	809	0.5−	0.6+	900916	675	0.4−	1.4−	970806	540	0.5+	0.6+
810303	809	0.3−	0.7+	900916	675	(0.3+	3.6−)	970806	540	1.1−	0.4−
810304	809	0.2−	0.8+	900917	675	0.1+	0.2−	970807	540	0.8+	1.2+
810304	809	0.2−	0.7+	900917	675	0.3−	1.1−	970807	540	0.5−	1.4+
810304	809	0.2−	0.7+	900919	675	(0.8−	3.1−)	970807	540	0.7+	0.0

(7811)∗ 1982 DT$_6$ = 1991 GX = 1995 BS$_2$

Discovered 1982 Feb. 23 at the Xinglong Station of the Peking Observatory.

Id. K. Kinoshita (*MPC* 25061)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	185.91583		(2000.0)			**P**		**Q**			
n	0.22468211	ω	19.31303			−0.77209550		−0.60352862			
a	2.6797260	Ω	121.94075			+0.54784645		−0.79084224			
e	0.1038396	i	13.56607			+0.32207578		−0.10159602			
P	4.39	H	12.6	G	0.15		U	2			

Residuals in seconds of arc

820223	327	(4.7−	4.0+)	950126	400	1.6−	0.2+	960608	684	0.4+	0.3+
820224	327	0.9−	1.1+	950126	400	(4.2−	2.7−)	960608	684	0.5+	0.4+
820226	327	0.1−	0.5−	950128	400	1.1+	0.5+	960609	684	0.5+	0.3+
820228	327	0.8+	0.6−	950128	400	0.1+	2.0−	960609	684	0.3+	0.3+
910409	675	0.2+	0.1−	960516	801	0.2−	0.3−	960615	801	0.3−	0.6−
910409	675	1.1+	0.0	960516	801	0.6−	0.2+	960615	801	1.2+	1.3−
910411	675	0.1−	1.0+	960520	801	0.2−	0.3−	960615	560	0.3−	0.0
910411	675	0.3−	0.1−	960520	801	1.3−	1.4−	960615	560	0.2−	0.0
930921	675	0.5+	0.5−	960608	684	0.2+	0.3+	960615	560	0.8−	0.6+

(7812)∗ 1984 UT

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	236.52087		(2000.0)			**P**		**Q**			
n	0.21189969	ω	201.72994			+0.28328279		−0.93324247			
a	2.7864366	Ω	232.50668			+0.91580752		+0.33162151			
e	0.2280362	i	16.16767			+0.28468833		−0.13815086			
P	4.65	H	13.3	G	0.15		U	1			

Residuals in seconds of arc

841026	688	0.9−	0.7−	900227	801	0.3−	0.7−	940205	046	0.8+	0.5−
841026	688	0.6+	1.0−	900227	801	0.2−	1.5−	940205	046	1.0−	0.2−
841030	046	1.1−	0.5+	900326	801	0.2−	0.2+	940205	046	0.1−	0.5−
841031	046	0.3−	1.0+	900326	801	0.2+	0.0	970701	596	0.9+	0.2−
841031	688	1.3+	1.7+	900329	801	0.2+	0.3+	970701	596	0.2−	1.9+
841031	688	0.1−	1.5−	900329	801	0.2−	0.5+	970728	118	0.2−	0.6−
841118	688	0.7+	0.9+	930912	801	0.7+	0.2+	970728	118	0.1−	0.6−
841118	688	(0.4+	2.7−)	930912	801	0.3+	0.2+	970728	118	0.2−	0.6−
841121	675	0.2−	0.4−	930915	801	0.2+	0.0	970730	118	0.1−	0.6−
841124	675	0.0	0.8−	930915	801	0.3+	0.0	970730	118	0.6−	0.3−
841127	046	0.1−	0.8−	931012	801	0.6−	0.0	970730	118	0.6+	0.6+
841127	046	1.7+	0.2−	931012	801	0.5−	0.2−	970730	118	0.2−	0.0
841128	046	0.7+	1.0−	931111	801	0.1−	0.2+	970804	557	0.1−	0.4−
841128	046	1.0+	1.6−	931111	801	0.0	0.2+	970804	557	0.1+	0.3−
841130	046	1.0−	1.8+	931113	801	0.2−	0.6+	970805	557	0.3+	0.4−
841130	046	2.2−	1.9+	931113	801	0.2−	0.5+	970805	557	0.2+	0.5−
850217	801	0.3−	0.1+	940205	046	0.5+	0.9−				

(7813)∗ 1985 UF$_3$ = 1989 TA$_8$ = 1993 MR$_1$

Discovered 1985 Oct. 16 by C.-I. Lagerkvist at Kvistaberg.

Id. G. V. Williams (*MPC* 22484)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	284.01383		(2000.0)			**P**		**Q**			
n	0.23492925	ω	180.94884			+0.96167419		−0.26842950			
a	2.6012254	Ω	194.98636			+0.25297203		+0.94727436			
e	0.1685586	i	12.49155			+0.10577287		+0.17497681			
P	4.20	H	13.0	G	0.15		U	2			

Residuals in seconds of arc

850921	095	1.1−	0.5+	930914	801	1.0−	0.6−	970721	560	(7.3+	1.0−)
851016	049	(3.9−	2.5+)	931012	801	0.2+	0.5−	970721	560	(6.9+	1.0−)
851016	049	(3.6−	1.1−)	950207	563	0.3−	0.6+	970804	628	0.4+	0.7−
851017	049	1.4+	1.8+	950207	563	1.1+	0.2−	970804	628	0.2+	0.2−
851017	049	1.0−	0.3−	950305	801	1.3−	1.1−	970804	628	0.1−	0.2−
851018	095	(0.4−	3.0−)	960324	801	0.5+	0.7−	970806	628	1.2−	0.0
851112	095	0.8−	1.5−	960324	801	0.1−	0.6−	970806	628	0.7−	0.2+
891002	071	2.2+	0.8−	970708	610	0.1−	0.7+	970806	628	0.4−	0.1−
891002	071	1.5+	1.0+	970708	610	0.8+	0.3+	970807	628	1.5+	0.2−
930623	675	(2.2+	2.2+)	970708	610	1.6+	0.2−	970807	628	(0.1−	2.4+)
930623	675	(2.8+	1.3+)	970712	610	1.1−	1.0+	970807	628	0.0	0.2−
930626	675	(3.0+	2.4+)	970712	610	0.4−	0.8+	970807	628	0.8+	0.7−
930626	675	1.4−	1.3−	970712	610	0.0	0.7+	970808	628	0.7+	0.0
930912	801	1.0−	0.8−	970721	560	(5.8+	1.5−)	970808	628	0.9−	1.1+
930912	801	0.5−	0.7−	970721	560	(6.1+	0.7−)				

(7814)∗ 1986 CF_2 = 1972 BG = 1993 TP_{36}

Discovered 1986 Feb. 13 by H. Debehogne at the European Southern Observatory.

Id. G. V. Williams (*MPC* 23236, *MPC* 24735)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	279.06534		(2000.0)		**P**	**Q**	
n	0.21611977	ω	64.82870		+0.91129784	−0.35682896	
a	2.7500445	Ω	315.27913		+0.18459830	+0.80007934	
e	0.1683570	i	16.97622		+0.36804852	+0.48223039	
P	4.56	H	12.3	G	0.15	U	1

Residuals in seconds of arc

720119	095	(5.2+ | 0.3−)	860216	809	1.4−	1.9−	950203	033	1.1+	0.2+
860213	809	0.6+	0.5−	931011	675	0.3+	0.6−	950222	033	0.4+	0.1+
860213	809	0.5+	0.5−	931013	675	0.3+	0.4−	950222	033	0.7+	0.4+
860213	809	0.6+	0.6−	931013	675	0.8+	0.9−	970610	689	0.5−	0.3−
860214	809	0.1+	0.6−	931015	675	0.9+	0.4−	970611	689	0.6−	1.2−
860214	809	0.1+	0.6−	931015	675	0.2+	0.5−	970708	689	0.9+	0.1−
860214	809	0.2+	0.5−	950127	399	0.5−	0.5+	970709	689	1.9+	0.2−
860215	809	1.2−	0.3−	950127	399	0.9−	0.7+	970803	566	0.3−	0.1+
860215	809	1.4−	0.2−	950128	399	1.0+	1.6+	970803	566	0.3−	0.2−
860215	809	1.7−	0.0	950128	399	1.2+	1.0+	970803	566	0.6−	0.2−
860216	809	1.7−	1.8−	950130	033	0.8+	0.4+				
860216	809	1.6−	1.9−	950131	033	0.5+	1.0+				

(7815)∗ 1987 QN = 1993 BO_7

Discovered 1987 Aug. 21 by E. W. Elst at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 22951)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	252.95848		(2000.0)		**P**	**Q**	
n	0.08071525	ω	217.57321		+0.97567154	−0.11513216	
a	5.3027236	Ω	147.51130		+0.13618052	+0.98518919	
e	0.0584731	i	20.32533		−0.17181360	+0.12707027	
P	12.21	H	10.4	G	0.15	U	1

Residuals in seconds of arc

870821	809	1.9−	1.3+	930123	809	(4.2− | 3.7−)	940309	010	0.2−	0.0
870821	809	1.6−	1.2+	930128	809	(2.4− | 3.1−)	940310	010	0.4+	0.6−
870821	809	(0.7−	3.0+)	930128	809	(2.7−	2.9−)	940310	010	0.4−	0.7−
870825	809	1.4−	1.5−	930128	809	(3.5− | 3.2−)	940310	010	0.1−	0.7−
870825	809	0.2−	1.0−	930217	809	(1.1− | 2.2−)	950303	017	0.4+	0.2−
870825	809	1.5−	0.3+	930217	809	(2.9− | 2.3−)	950303	017	1.0−	1.0−
870826	809	0.1+	0.7−	930217	809	0.7−	1.8−	950304	017	0.0	0.9−
870826	809	1.2+	0.2+	940208	809	0.4−	0.2+	950304	017	0.2−	0.1−
870826	809	0.4+	0.0	940208	809	0.9−	0.0	950304	017	0.3−	0.7−
870828	809	0.7+	0.5−	940208	809	1.0−	0.1+	950304	017	0.3−	0.3−
870828	809	1.5+	0.8−	940210	809	1.4+	0.0	970609	824	0.2+	0.0
870828	809	1.5+	0.6−	940210	809	1.2+	0.5+	970609	824	0.2+	0.1−
870831	809	0.2+	0.1+	940210	809	0.6+	1.0+	970609	824	0.4+	0.0
870831	809	1.6+	0.4+	940213	809	(3.1+ | 0.1+)	970611	824	0.1+	0.3+
870831	809	(2.8+	1.1+)	940213	809	(2.3+	0.4+)	970611	824	0.4+	0.4+
870831	809	1.1−	1.2−	940213	809	1.6+	0.7+	970611	824	0.2−	0.4+
870831	809	0.1−	0.8−	940216	010	0.3−	1.3+	970807	557	0.2+	0.0
870831	809	0.6+	0.1+	940216	010	(0.4− | 2.0+)	970807	557	0.5−	0.4+
930123	809	(2.7− | 2.3−)	940309	010	0.3+	0.3−	970809	557	0.4−	0.6+
930123	809	(3.2− | 2.8−)	940309	010	0.4−	0.4−	970809	557	0.1−	0.0

(7816)∗ 1987 YA = 1994 VB_1

Discovered 1987 Dec. 18 by M. Koishikawa at the Ayashi Station of the Sendai Observatory.

Id. S. Nakano (*MPC* 24386)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	272.59268		(2000.0)		**P**	**Q**	
n	0.28008722	ω	170.16933		+0.83441580	−0.55040132	
a	2.3135232	Ω	223.26514		+0.50279724	+0.78134889	
e	0.2959753	i	2.37793		+0.22571044	+0.29419771	
P	3.52	H	14.6	G	0.15	U	2

Residuals in seconds of arc

871218	391	(4.4− | 1.3−)	920305	809	1.0−	1.1−	941125	894	0.9−	0.6−
871218	391	(3.1− | 1.7+)	920308	809	0.5+	1.9−	941125	894	0.6−	0.6+
871220	391	0.5+	0.6+	941104	367	1.4+	0.2−	941127	367	0.8−	0.2−
871220	391	1.2−	0.7−	941104	367	0.8+	0.2−	941127	367	0.7+	1.1−
871220	391	1.4−	0.8+	941106	367	1.1+	0.6−	941127	893	0.1−	0.1−
871220	391	(4.3+ | 5.7+)	941106	367	1.0+	0.3+	941127	893	0.4−	0.1−
871221	391	(0.1+ | 3.1+)	941108	367	0.4+	0.0	941128	675	0.7−	0.2−
871221	391	0.7−	0.9+	941108	367	1.2+	1.1−	941128	675	0.4−	0.7+
871221	391	(3.9− | 3.3−)	941123	893	0.4−	0.1−	970628	704	0.6−	0.2−
871221	391	(3.2− | 0.6+)	941123	893	0.4−	0.3−	970628	704	0.8−	0.2+
871222	391	1.0+	1.2+	941124	367	0.8+	0.3+	970628	704	0.4−	0.5+
871223	391	0.9+	0.0	941124	367	0.6+	0.3+	970702	704	1.0+	0.5+
871223	391	0.3−	2.0+	941124	391	0.3+	0.2+	970702	704	0.3−	0.1+
871227	391	0.2+	0.3+	941124	893	(3.6+ | 0.3−)	970702	704	0.3−	0.6+
871227	391	0.6+	0.5+	941124	391	0.5−	0.0	970702	704	0.5+	0.7+
920225	675	1.4+	1.9+	941124	893	0.3−	0.3+	970702	704	0.2+	1.8+
920225	675	(0.1− | 2.8+)	941124	894	0.8−	0.2+	970802	126	0.7−	0.9+
920302	809	0.8−	0.4+	941124	894	1.3−	0.6−	970802	126	0.7+	1.2−

(7817)∗ 1988 RH_{10}

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	354.04404		(2000.0)		**P**	**Q**	
n	0.21197077	ω	178.77332		+0.47691893	+0.87890708	
a	2.7858136	Ω	119.71099		−0.80650077	+0.44139183	
e	0.0447087	i	0.55460		−0.34943502	+0.18081925	
P	4.65	H	12.9	G	0.15	U	1

Residuals in seconds of arc

880914	807	0.1−	0.4−	931022	809	(1.9+ | 4.2+)	960419	801	0.2+	0.1−
880915	807	0.1+	0.1+	931022	809	(0.5+ | 2.9+)	960422	801	0.6+	0.2+
880916	807	0.1+	0.1−	931022	809	(1.0− | 3.0+)	960422	801	0.2+	0.5+
881004	807	0.9−	0.2+	941129	691	0.5+	1.1+	960506	689	0.0	0.1+
881005	807	0.9−	0.6+	941129	691	1.3−	0.1+	960507	689	0.3+	0.2+
881007	807	0.1+	0.2−	941228	411	0.1−	0.1+	970708	689	0.1+	0.9+
881008	807	0.4−	0.9−	941228	411	0.3+	0.1−	970709	689	1.0−	0.2+
881008	807	0.9−	0.3−	941229	411	0.5+	0.8−	970803	566	0.6+	0.2−
881103	807	2.2+	0.2+	941229	411	0.0	0.1+	970803	566	0.2+	0.1−
881105	807	1.8+	0.3−	960315	566	0.7−	0.6−	970803	566	0.0	0.5−
931010	809	(1.8+ | 4.6+)	960315	566	0.4−	0.7−	970803	566	0.0	0.0

931010	809	(1.1+ | 3.7+)	960315	566	0.5−	0.6−	970803	566	0.1−	0.1+
931010	809	(1.5− | 2.5+)	960419	801	0.1+	0.0	970803	566	0.0	0.2+

(7818)∗ 1990 QO = 1970 ET$_1$ = 1988 DN$_5$

Discovered 1990 Aug. 19 by E. F. Helin at Palomar.

Id. E. Bowell (*MPC* 27911), G. V. Williams (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	274.85674		(2000.0)		**P**		**Q**
n	0.27525349	ω	253.89325		+0.55419413		−0.82349177
a	2.3405297	Ω	160.89419		+0.83192977		+0.55280454
e	0.3495344	*i*	21.76495		−0.02759944		+0.12754778
P	3.58	*H*	13.9	*G*	0.15	*U*	2

Residuals in seconds of arc

700303	805	0.3−	0.4−	900922	675	0.5+	0.5−	970713	046	0.8+	0.2−
700303	805	0.5+	0.8−	900922	675	0.3+	0.6−	970713	046	0.7+	0.1+
700303	805	0.1−	0.0	900924	675	0.7−	0.7−	970713	046	0.5+	0.1−
880216	675	0.3+	1.0−	900924	675	1.3−	0.3+	970714	608	0.6+	0.3+
880216	675	0.0	1.2−	970705	608	0.1−	0.4+	970714	608	0.4+	0.2+
880317	675	0.5−	1.7−	970705	608	0.2−	0.4+	970727	608	0.9−	0.2−
880317	675	0.1+	1.3−	970712	608	0.2−	0.0	970727	608	1.1−	0.0
900819	675	0.2−	0.0	970712	608	0.2−	0.3+	970729	658	0.5−	0.4−
900819	675	0.7−	0.2+	970712	046	0.1+	0.3−	970729	658	0.7−	0.2−
900821	675	1.0+	1.6−	970712	046	0.1+	0.1−	970729	658	0.6−	0.3−
900821	675	1.1+	1.1−	970712	046	0.3+	0.2−	970802	566	0.0	0.2+
900915	675	0.8−	0.2−	970713	608	0.6+	0.2+	970802	566	0.3+	0.1+
900915	675	0.2+	1.7−	970713	608	0.6+	0.1−	970802	566	0.1−	0.4+

(7819)∗ 1990 RR$_3$ = 1981 JA$_5$ = 1997 EX$_{17}$

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

Id. G. V. Williams (*MPC* 29298, unpublished)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	294.84368		(2000.0)		**P**		**Q**
n	0.23961769	ω	233.82797		+0.00187916		+0.99959722
a	2.5671828	Ω	36.31103		−0.90144144		+0.01395181
e	0.1636377	*i*	2.74091		−0.43289699		−0.02471335
P	4.11	*H*	14.0	*G*	0.15	*U*	1

Residuals in seconds of arc

810508	675	0.4+	0.1+	940911	675	0.8−	1.1+	970402	704	1.3+	0.1+
810509	675	(8.9+ | 8.4−)	940911	675	0.2−	0.4+	970428	704	0.4−	0.5+
900914	675	0.9+	0.3+	940930	675	0.1−	0.0	970428	704	1.1−	0.9+
900914	675	0.0	1.6−	940930	675	0.2+	0.2−	970428	704	0.5−	0.1+
900918	675	0.1+	0.8−	970303	400	0.9+	1.3−	970428	704	0.5−	0.5−
900918	675	0.1+	1.1−	970303	400	0.1+	0.2−	970428	704	2.8−	0.9−
901022	675	0.3+	0.0	970304	400	0.9+	0.1−	970712	696	0.3+	0.7−
901022	675	0.4+	0.3+	970304	400	1.3+	1.0+	970712	696	0.6+	0.5−
930319	691	1.0−	0.5−	970402	704	0.1−	0.7+	970712	696	0.5+	0.2−
930319	691	1.1−	0.4−	970402	704	0.5+	0.5+				
930319	691	1.0−	0.3−	970402	704	0.9+	0.5−				

(7820)∗ 1990 TU$_8$ = 1979 SP$_7$ = 1979 TB$_1$

Discovered 1990 Oct. 14 by A. Mrkos at Kleť.

Id. G. V. Williams (*MPC* 19307)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	325.74973		(2000.0)		**P**		**Q**
n	0.26974230	ω	321.73781		+0.87262124		+0.48835690
a	2.3723022	Ω	9.03607		−0.43763231		+0.78758168
e	0.2313322	*i*	2.29950		−0.21681821		+0.37579599
P	3.65	*H*	14.5	*G*	0.15	*U*	2

Residuals in seconds of arc

790923	095	0.8+	0.4−	960228	046	0.2+	0.6+	970714	423	0.4+	0.1−
791014	095	0.3+	0.4−	960228	046	1.2−	0.3+	970714	423	0.9+	0.3+
900924	095	1.3−	0.8+	960228	046	0.2+	1.0+	970723	046	0.0	0.2+
900930	095	0.5−	1.6+	960311	596	0.1−	0.7−	970723	046	0.2+	0.1−
901014	046	0.1−	1.7−	960311	596	0.3−	0.2−	970723	046	0.0	0.2+
901014	046	0.4+	1.5−	960311	596	0.4−	0.3−	970725	126	2.7−	1.8−
901015	046	(2.1+ | 3.2−)	970702	046	0.3+	0.3−	970725	126	0.4+	0.0
901015	046	(1.9− | 4.1−)	970702	046	0.1+	0.2−	970725	126	0.3+	0.2−
901015	095	(1.1+ | 2.4+)	970702	046	0.3+	0.2−	970726	126	0.2+	0.0
901015	095	0.4−	0.4−	970708	046	0.2+	0.1−	970726	126	0.2+	0.1−
941130	411	0.6+	0.2+	970708	046	0.2+	0.3−	970726	126	0.1+	0.1−
941130	411	1.5+	0.1+	970709	046	0.1+	0.1−	970728	046	0.2+	0.3+
960214	691	0.8−	0.1−	970709	423	0.2+	0.5−	970728	046	0.2+	0.2+
960214	691	0.6−	0.1−	970709	423	0.3+	0.4−	970728	046	0.1+	0.2+
960214	691	1.0−	0.2−	970709	423	0.1−	0.2+	970802	566	0.0	0.9+
960227	046	0.3+	0.2−	970709	423	0.3+	0.3−	970802	566	0.7+	1.3+
960227	046	0.4+	0.4−	970714	423	0.1+	0.6+	970802	566	1.8−	0.0
960227	046	1.1+	1.1−	970714	423	0.6−	0.3−				

(7821)∗ 1991 AC = 1989 SA$_4$ = 1992 GT$_7$

Discovered 1991 Jan. 8 by Y. Kushida and O. Muramatsu at Yatsugatake South Base Observatory.

Id. S. Nakano (*MPC* 17830), G. V. Williams (*MPC* 29914)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	102.69125		(2000.0)		**P**		**Q**
n	0.20093025	ω	62.94781		−0.51460994		−0.85636039
a	2.8869494	Ω	58.08756		+0.76777565		−0.48240369
e	0.0158239	*i*	2.88353		+0.38170298		−0.18421066
P	4.91	*H*	13.1	*G*	0.15	*U*	1

Residuals in seconds of arc

890926	809	0.2+	2.1−	910116	675	1.8+	1.1−	970402	704	0.9−	0.4+
890926	809	0.1+	1.7−	910119	675	0.0	0.5−	970428	684	0.6−	0.7−
890926	809	0.6+	1.8−	910119	675	0.6+	0.6+	970428	684	0.8−	0.6−
890928	809	0.3−	0.0	910122	896	1.4−	1.0−	970430	704	0.3+	0.3−
890928	809	0.9−	0.6+	920406	809	(4.4− | 1.8−)	970430	704	0.2+	0.5−
890928	809	0.2+	0.5+	920406	809	(4.6− | 2.6−)	970430	704	0.4+	0.3−
890929	675	1.0+	0.0	920406	809	(4.3− | 2.4−)	970430	704	0.8+	0.0
890929	675	0.6+	0.2−	920502	691	1.1−	0.0	970430	704	0.5+	0.3−
891003	809	(3.7+ | 2.2−)	920502	691	0.9−	0.1−	970430	704	0.2+	0.2−
891003	809	(3.5+ | 2.4−)	920502	691	1.0−	0.3+	970430	704	0.6+	1.8−
891003	809	(2.8+ | 1.9−)	960118	691	1.0−	0.1+	970430	704	0.6+	0.3−
910108	896	(6.3+ | 2.1+)	960118	691	1.2−	0.1+	970501	704	0.1+	0.4−
910108	896	(4.5+ | 1.5+)	960118	596	0.0	0.3+	970501	704	0.5−	0.1−
910109	896	(4.0+ | 0.3−)	960118	596	0.1−	0.3+	970501	704	0.1−	0.5−
910109	896	(4.2+ | 2.0+)	960118	596	0.1−	0.1+	970501	704	0.1+	0.1−
910115	896	(3.3+ | 1.2−)	960119	596	0.3−	0.2+	970501	704	0.0	0.2−

910115	896	(2.4+	1.3+)	960119	596	0.2−	0.1+					
910116	675	1.9+	0.9−	970402	704	0.2+	1.3+					

(7822)∗ 1991 CS

Discovered 1991 Feb. 13 by R. H. McNaught at Siding Spring.

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	177.68517		(2000.0)		**P**	**Q**	
n	0.82849703	ω	249.42099		+0.61601012	−0.75136476	
a	1.1227302	Ω	156.91815		+0.72835977	+0.65768013	
e	0.1645835	i	37.12220		−0.30003928	+0.05392443	
P	1.19	H	17.4	G	0.15	U	1

Residuals in seconds of arc

910119	413	0.2−	0.2−	960808	557	0.1+	0.3+	960824	360	0.1−	0.3+	
910211	413	0.2+	1.2+	960808	557	0.0	0.2+	960824	360	0.2−	0.4+	
910211	413	0.6−	0.9+	960809	557	0.2−	0.1+	960824	360	0.2−	0.2+	
910213	413	0.7+	1.4+	960809	557	0.4+	0.0	960825	540	0.1+	0.0	
910213	413	0.1−	1.7−	960809	587	0.3−	0.4−	960825	540	0.3−	0.5−	
910215	413	0.7+	0.1−	960809	587	0.2−	0.3+	960825	540	0.2−	0.4−	
910215	413	0.7+	1.1+	960809	611	0.4−	0.4−	960825	540	0.4−	0.2−	
910215	413	(1.0+	2.1−)	960809	587	0.0	1.3−	970208	124	1.1+	0.3−	
910219	413	0.4−	0.4+	960809	587	0.0	0.5−	970208	124	1.3+	1.2+	
910220	413	0.3+	1.2−	960809	587	0.1−	0.2−	970208	124	0.3+	0.9+	
910220	413	1.1+	1.5−	960809	611	0.3−	0.4−	970209	360	0.3+	0.4+	
910220	372	0.4−	0.6+	960809	108	1.7+	1.0−	970209	360	0.2+	0.6+	
910226	568	1.3−	1.1−	960809	108	0.8+	0.3−	970209	360	0.3+	0.4+	
910226	568	1.4−	1.4−	960809	108	0.5+	0.7−	970210	046	0.5−	0.2+	
910313	801	0.3+	0.8−	960811	611	0.5−	0.3+	970210	046	0.5−	0.6+	
910317	801	0.5+	0.0	960811	611	0.3−	0.0	970210	046	0.6−	0.6+	
910317	801	0.3+	0.0	960813	121	0.0	0.5+	970212	689	1.4−	0.8−	
910318	688	0.0	0.8+	960813	121	0.4−	0.3+	970214	608	0.6+	1.9−	
910318	688	0.2−	0.8+	960813	121	0.4−	0.8+	970214	608	0.5+	0.9−	
910318	688	0.3−	1.2+	960813	121	0.5+	1.2+	970215	608	1.4−	0.3+	
910321	801	0.7+	0.1−	960815	611	0.3−	0.4+	970215	608	0.6−	0.5+	
910321	801	0.5+	0.1−	960816	900	0.4−	0.5+	970217	608	1.3−	0.9−	
951220	691	(2.5−	0.5+)	960816	611	0.0	0.1−	970217	608	1.0−	0.5−	
951220	691	1.4−	0.4+	960816	611	0.0	0.6+	970222	360	0.4−	0.4+	
951220	691	1.0−	0.3+	960816	587	0.1+	0.1+	970222	360	0.1−	0.4+	
951225	691	(2.1−	0.0)	960816	587	0.1+	0.5−	970222	360	0.0	0.3+	
951225	691	(2.1−	0.1+)	960816	587	0.1−	0.0	970223	540	0.5+	0.1+	
951225	691	(2.2−	0.3−)	960817	900	0.2−	0.2+	970223	540	0.8+	0.3+	
960127	413	0.8+	0.8−	960817	900	0.2−	0.4+	970223	540	1.7+	0.1+	
960127	413	0.3−	0.3−	960817	367	0.4+	0.2+	970223	540	0.8+	0.5+	
960423	381	0.8+	1.0−	960817	367	0.1+	0.2+	970301	108	0.1+	0.3+	
960423	381	1.0+	0.6−	960817	611	0.4−	0.3+	970301	108	1.4+	0.8−	
960505	658	0.3−	1.2−	960817	611	0.4−	0.1+	970301	108	0.9+	0.3−	
960505	658	1.2−	0.1−	960818	104	0.1−	0.5−	970302	540	0.2−	0.0	
960505	658	0.8−	0.1+	960818	104	0.3−	0.4−	970302	540	0.1−	0.0	
960607	658	0.4−	1.1+	960818	104	0.1−	0.2−	970302	540	0.2−	0.1+	
960607	658	0.2+	1.2+	960818	104	0.2−	0.9−	970302	627	0.5−	0.7+	
960607	658	0.5−	1.4+	960818	104	0.1−	1.2−	970302	627	1.1−	0.5+	
960712	711	0.6+	0.3+	960818	104	0.0	1.1−	970302	627	0.6−	0.6+	
960712	711	1.0+	0.5+	960818	360	0.3+	0.6+	970307	910	0.1+	0.1+	
960722	711	0.9−	0.2+	960818	360	0.1+	0.8+	970307	910	0.2−	0.2+	
960722	711	0.6−	0.1+	960818	360	0.3+	0.6+	970307	910	0.0	0.1+	
960724	360	0.1+	0.2+	960818	611	0.2+	0.9+	970309	689	0.3+	0.2+	
960724	360	0.4+	0.2−	960818	611	0.0	1.1+	970310	557	0.0	0.0	
960724	360	0.0	0.1−	960819	611	0.1−	0.8+	970310	557	0.1−	0.1−	
960802	118	0.0	0.3−	960819	611	0.3+	0.4+	970310	689	0.1+	0.2+	
960802	118	0.0	0.2−	960820	566	0.6+	0.7−	970312	121	0.3−	0.3+	
960802	108	1.8+	0.5−	960820	566	0.1+	0.6−	970312	121	0.0	0.2+	
960802	108	1.6−	0.2−	960820	566	0.2+	0.8−	970312	121	0.3−	0.3+	
960802	108	1.3+	0.8−	960821	711	1.0+	0.4+	970402	046	0.9+	0.6+	
960802	108	0.3+	0.0	960821	711	1.1+	0.3+	970402	046	0.7+	0.7+	
960803	108	0.2+	1.5−	960821	557	0.3+	1.1+	970402	046	0.7+	0.5+	
960803	108	0.7−	0.8+	960821	557	0.4+	1.3+	970502	658	0.5−	0.5−	
960805	900	0.8+	0.6−	960821	557	0.2+	0.8+	970502	658	0.5−	1.0−	
960805	900	0.3−	0.5−	960822	557	0.2+	0.0	970502	658	0.4−	1.0−	
960806	557	0.3+	0.0	960822	557	0.5+	0.2−	970503	557	0.2−	0.1+	
960806	557	0.3+	0.0	960822	557	0.3+	0.2−	970503	557	0.2+	0.2−	
960806	557	0.4+	0.3+	960823	557	0.3−	0.3−	970503	557	0.4−	0.1−	
960807	557	0.5+	0.2+	960823	557	0.2−	0.2−	970517	381	0.6−	0.2−	
960807	557	0.3+	0.1−	960823	557	0.2−	0.1−	970517	381	0.7−	0.5−	
960807	557	0.3+	0.4+	960823	557	0.3−	0.1−	970610	658	0.2−	0.7−	
960808	540	0.4+	0.0	960823	557	0.2−	0.4−	970610	658	0.2−	0.6−	
960808	540	0.1−	0.1+	960823	557	0.0	0.4−	970611	557	0.2+	0.6−	
960808	540	0.1+	0.2+	960824	557	0.4−	0.3−	970729	658	0.4−	0.5−	
960808	540	0.2+	0.1+	960824	557	0.5−	0.2+	970729	658	0.8−	0.3−	
960808	557	0.2+	0.3+	960824	557	0.7−	0.2+	970729	658	1.1−	1.0−	
960808	611	0.4+	0.3+	960824	557	0.5−	0.1−					

(7823)∗ 1991 PF$_{10}$ = 1969 TS$_2$ = 1988 TD$_3$

Discovered 1991 Aug. 7 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 19869)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	285.98198		(2000.0)		**P**	**Q**	
n	0.31295798	ω	209.67325		+0.99520084	+0.09531504	
a	2.1485495	Ω	144.83600		−0.08049244	+0.92607903	
e	0.0695067	i	2.20352		−0.05564408	+0.36509270	
P	3.15	H	14.5	G	0.15	U	1

Residuals in seconds of arc

530815	675	0.8+	0.3+	910810	675	0.5+	0.3−	951118	691	0.2−	0.7−	
691007	095	1.4−	0.8−	910910	675	(0.4+	2.6+)	951118	691	0.2−	0.6−	
881007	675	0.5+	0.6−	910910	675	1.5−	0.3−	951128	691	0.3−	0.5−	
881007	675	0.4+	0.8−	910911	675	1.0+	0.6+	951128	691	0.0	0.6−	
881015	071	1.8−	0.5+	910911	675	0.8+	1.1+	951128	691	0.3+	0.6−	
881015	071	0.5+	0.3+	910912	675	0.8+	1.2+	970610	689	0.6−	0.4+	
881017	071	0.1+	0.8+	910912	675	1.0+	1.2−	970611	689	0.3+	0.1−	
881017	071	(0.4−	3.3+)	910916	675	0.5−	0.2+	970721	126	0.4−	0.4−	
910807	675	1.2−	0.5−	910916	675	0.2+	0.5−	970721	126	0.3−	0.6−	
910807	675	0.1−	0.8−	940907	689	0.4+	0.1+	970722	126	0.3−	0.1+	
910808	675	0.6+	0.2+	940909	689	0.2−	0.2+	970722	126	0.1+	0.1+	
910808	675	0.3+	0.1+	951118	691	0.1−	0.8−	970722	126	0.0	1.5−	

(7824)∗ 1991 RM$_2$ =A923 RE = 1994 NR

Discovered 1991 Sept. 7 by E. F. Helin at Palomar.

Id. T. Urata (*MPC* 23782), S. Nakano (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	248.60938		(2000.0)		**P**		**Q**
n	0.29016970	ω	187.21231		+0.99629570		+0.08007799
a	2.2596162	Ω	168.05847		−0.06937909		+0.96386067
e	0.2088426	i	8.71271		−0.05080775		+0.25408685
P	3.40	H	13.3	G	0.15	U	2

Residuals in seconds of arc

230913	024	0.7+	2.4−	910916	675	0.4+	1.1−	940704	905	0.7+	0.1−
230914	024	(1.7+	8.3+)	911001	691	0.9−	0.9+	940710	905	0.6+	1.0+
900401	675	0.2−	0.2−	911001	691	0.9−	0.9+	940710	905	0.1−	0.1−
900401	675	0.5−	0.1+	911001	691	0.5−	0.8+	940808	801	0.7−	0.3+
910907	675	0.1−	0.6+	911007	675	0.9+	0.4+	940808	801	0.7−	0.2+
910908	675	0.7−	2.0+	911007	675	0.4+	0.3−	970526	689	1.4+	0.2+
910908	675	0.6−	0.0	911008	675	0.3+	0.2−	970527	689	0.3+	0.7+
910911	675	0.1+	0.5+	911011	675	1.1+	1.0+	970728	784	0.4−	0.1+
910911	675	0.1−	0.3+	911011	675	0.6−	0.4+	970730	784	0.5−	0.5−
910913	675	0.4+	0.3−	911014	675	0.3+	0.9−	970730	784	0.5−	0.4−
910913	675	0.3+	0.2−	911014	675	0.9−	1.6−				
910916	675	0.3+	0.8−	940704	905	0.1−	1.2−				

(7825)∗ 1991 TL_1 = 1989 GV_3

Discovered 1991 Oct. 10 by J. Alu at Palomar.

Id. B. G. Marsden (*MPC* 19509)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	152.02230		(2000.0)		**P**		**Q**
n	0.26188110	ω	240.01829		+0.25147157		−0.96316307
a	2.4195426	Ω	196.27173		+0.96304395		+0.25881710
e	0.2798587	i	19.88076		+0.09648001		−0.07301108
P	3.76	H	13.5	G	0.15	U	2

Residuals in seconds of arc

890404	809	0.8+	0.5−	911105	675	0.5+	0.3+	951225	608	0.1+	0.4+
890404	809	0.1+	0.3+	911106	675	1.1+	0.6+	951227	608	0.1−	0.0
890404	809	1.2+	0.2+	911113	675	0.0	1.5−	951227	608	0.1−	0.9+
890406	809	1.4−	0.9−	911113	675	1.2+	1.5−	960109	608	0.5−	0.2+
890406	809	0.1−	1.9−	911201	675	1.3−	1.1−	960109	608	0.2−	0.0
890406	809	(3.2+	2.5−)	911201	675	0.2−	0.7+	960112	608	0.2−	0.0
890408	809	1.0−	0.4+	911203	675	0.4−	1.2−	960112	608	0.1−	0.1−
890408	809	0.2+	0.2+	950928	801	1.8+	0.1−	960308	689	0.3−	0.8+
890408	809	0.5+	0.3−	950928	801	0.5+	0.3+	970616	608	0.2+	0.2−
911010	675	1.1+	0.7−	950929	801	(2.5+	2.4−)	970616	608	0.9+	0.6−
911010	675	0.6−	0.9+	950929	801	1.6+	1.3−	970724	608	0.2−	0.8−
911012	675	1.3−	0.2+	951022	801	0.3−	1.0−	970724	608	0.3−	0.7−
911012	675	1.5−	0.0	951022	801	0.2−	1.3−	970727	608	0.7+	0.7−
911103	675	0.1+	0.2−	951024	801	(0.6+	2.2−)	970727	608	0.9−	0.1+
911103	675	0.9−	0.8+	951024	801	0.4−	0.6−				
911105	675	1.3+	0.6+	951225	608	0.3−	0.3+				

(7826)∗ 1991 VO = 1990 ML

Discovered 1991 Nov. 2 by A. Takahashi and K. Watanabe at Kitami.

Id. H. Kaneda (*MPC* 19517)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	130.92596		(2000.0)		**P**		**Q**
n	0.27123320	ω	267.55746		−0.43136964		−0.90073517
a	2.3636009	Ω	208.17216		+0.86468804		−0.39667353
e	0.0590387	i	6.19582		+0.25736127		−0.17699227
P	3.63	H	13.5	G	0.15	U	1

Residuals in seconds of arc

540728	675	1.1+	0.6+	911104	400	1.0+	0.1+	960219	689	1.8−	0.1−
540728	675	2.0−	1.0+	911202	400	0.5+	1.0+	970527	689	0.1−	1.0+
900627	675	0.6+	0.4−	911202	400	0.3−	1.3+	970611	689	0.4+	0.1+
900627	675	0.5−	0.3−	930425	809	0.2−	0.4+	970711	824	0.2−	0.1+
900629	675	1.1+	0.6−	930425	809	0.1+	0.2−	970711	824	0.2−	0.2+
900629	675	0.3−	1.1−	930425	809	0.8+	0.4−	970711	824	0.2−	0.2−
911102	400	1.4−	1.3−	930426	809	0.2+	0.2−	970723	824	0.2−	0.4+
911102	400	0.6+	0.1+	930426	809	0.4+	0.2+	970723	824	0.8−	0.2+
911104	400	0.7+	0.6−	930426	809	0.5+	0.2+	970723	824	0.6−	0.2−

(7827)∗ 1992 QE_2 = 1971 SA_1 = 1987 SD_{22} = 1989 CV_3 = 1990 EU_3 = 1990 GM

Discovered 1992 Aug. 22 by H. E. Holt at Palomar.

Id. T. Kobayashi (*MPC* 24107)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	319.88804		(2000.0)		**P**		**Q**
n	0.18739851	ω	168.78482		+0.98083038		+0.19486343
a	3.0243029	Ω	179.97779		−0.19210985		+0.96704980
e	0.2485710	i	13.82246		−0.03264311		+0.16383812
P	5.26	H	13.2	G	0.15	U	2

Residuals in seconds of arc

710916	095	(3.5+	2.6−)	900304	809	0.1−	1.3+	920828	675	0.1−	0.4+
870918	095	1.5+	2.4−	900304	809	0.0	0.6+	920828	675	0.5−	0.4+
890205	809	0.6+	0.3−	900415	809	(6.0−	6.9+)	970701	596	0.4+	1.6−
890205	809	0.3+	1.5−	900416	809	(6.7−	4.8+)	970701	596	0.1+	0.7−
890205	809	0.7+	0.2−	900416	809	(5.3−	4.2+)	970701	596	1.3+	0.7−
890207	809	1.3−	0.6+	900416	809	(44.8+	69.4−)	970722	540	0.3−	0.0
890207	809	0.4−	0.7+	900417	809	(41.1+	71.0−)	970722	540	0.3+	0.2+
890207	809	0.3−	0.2+	900417	809	(35.2+	72.9−)	970722	540	0.3−	0.3−
900302	809	0.5−	0.2−	920822	675	1.1−	0.5+	970730	540	0.1+	0.0
900302	809	0.5−	0.8−	920822	675	0.1−	0.6+	970730	540	0.0	0.1−
900302	809	1.0+	0.4−	920825	675	0.8−	1.5+	970730	540	0.3−	0.1+
900304	809	0.1+	1.4+	920825	675	0.1+	1.4+				

(7828)∗ 1992 SD_{13} = 1981 UM_{17} = 1981 UM_{20} = 1986 RO_8 = 1996 FU_{17}

Discovered 1992 Sept. 28 by M. Yanai and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 28300)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	333.19343		(2000.0)		**P**		**Q**
n	0.17549746	ω	122.00709		+0.83478289		+0.54358370
a	3.1595276	Ω	205.39074		−0.54837925		+0.80669189
e	0.1555385	i	11.77313		−0.04917039		+0.23187273
P	5.62	H	12.3	G	0.15	U	2

Residuals in seconds of arc

811024	095	(3.3+	2.2+)	921002	675	1.3+	0.5+	960326	809	(1.9+	4.4+)
811028	095	0.1−	0.8+	921004	675	0.3−	0.4−	960326	809	(1.9+	4.7+)
860908	095	(0.4−	4.1+)	921004	675	0.5−	1.2−	960326	809	(1.7+	5.0+)
920923	400	0.4−	1.0+	921020	372	1.8−	0.6+	960326	809	0.0	0.2−
920923	400	0.5+	0.3+	921021	372	0.5−	0.4−	960326	809	0.2−	0.6+
920928	400	(3.0+	0.7−)	960322	809	0.9−	1.3+	960326	809	0.3+	0.9−
920928	400	1.0+	1.2−	960322	809	(0.7−	2.4+)	970610	689	0.9+	0.3−
921001	675	0.7+	0.9+	960322	809	(0.8−	2.4+)	970611	689	0.2−	0.3+
921001	400	(2.5−	1.2+)	960324	809	0.4+	0.3−	970623	689	0.1+	0.2+
921001	400	(1.4−	3.8+)	960324	809	0.2−	0.0	970708	689	0.7−	0.1−
921002	675	0.0	0.0	960324	809	0.7+	0.5+				

(7829)∗ 1992 WY$_4$ = 1989 UC$_2$

Discovered 1992 Nov. 21 by E. F. Helin at Palomar.

Id. G. V. Williams (*MPC* 21799)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	216.88288		(2000.0)		**P**	**Q**	
n	0.36130139	ω	187.29907		−0.07676133	−0.94876076	
a	1.9523438	Ω	267.45526		+0.92958198	+0.04306869	
e	0.0752916	*i*	17.86846		+0.36053437	−0.31304649	
P	2.73	*H*	13.5	*G*	0.15	*U*	2

Residuals in seconds of arc

891026	675	0.5−	0.7+	940612	675	(1.2+	2.6−)	960220	608	0.0	0.3−
891026	675	0.0	0.3−	940612	675	(0.1−	5.4−)	960220	608	0.1+	0.2−
891028	675	(0.7−	3.5−)	940704	675	0.2−	0.6+	960229	608	0.5−	0.5−
891028	675	(1.7−	3.4−)	940704	675	1.3−	0.8+	960229	608	0.6−	0.5−
921121	675	0.5−	0.2+	940707	675	0.7−	1.2+	960311	608	0.1+	0.3−
921121	675	0.7−	1.9−	940707	675	0.8+	0.9+	960311	608	0.0	0.3−
921122	675	0.5+	0.4−	940711	801	0.8+	1.3−	960407	689	0.2+	1.2−
921125	675	0.3+	0.0	940711	801	0.0	0.4−	970708	689	1.0−	1.3−
921125	675	0.8+	0.0	940712	801	0.0	0.4+	970709	689	1.2−	1.3−
921127	675	(2.6+	0.6+)	940712	801	0.1+	0.5+	970724	608	0.7−	0.5+
930119	801	0.2−	1.3+	951223	801	1.0+	0.3+	970724	608	0.9−	0.3+
930119	801	0.1+	0.8+	951223	801	0.9+	0.1−	970804	127	1.1+	0.9+
930121	801	0.1−	0.4+	960204	608	0.0	1.2+	970804	127	1.2+	0.7+
930121	801	0.5−	0.6+	960204	608	0.1+	1.3+	970805	127	0.0	0.0
940609	675	(0.1+	2.8−)	960205	608	0.0	1.9+	970805	127	0.1+	0.2+
940609	675	(1.6−	5.8−)	960205	608	(1.1−	4.1+)				

(7830)∗ 1993 DC$_1$ = 1986 KK = 1989 EQ$_6$ = 1997 JF$_{15}$

Discovered 1993 Feb. 24 by Y. Kushida and O. Muramatsu at Yatsugatake South Base Observatory.

Id. B. G. Marsden (*MPC* 30079)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	347.19906		(2000.0)		**P**	**Q**	
n	0.26744301	ω	128.18750		−0.23434057	+0.97128865	
a	2.3858797	Ω	128.21010		−0.90746236	−0.20341539	
e	0.1622725	*i*	2.99268		−0.34870698	−0.12337154	
P	3.69	*H*	14.3	*G*	0.15	*U*	2

Residuals in seconds of arc

860529	095	0.2−	0.8−	930316	896	(19.5−	20.1+)	970607	809	0.5−	1.4+
890305	033	(3.4+	0.0)	930414	675	0.5−	0.7−	970607	809	0.4−	1.1+
890305	033	1.4+	0.6+	930414	675	1.2−	0.5−	970608	809	0.6+	0.1+
911204	691	0.6−	1.0+	970503	809	0.1+	0.0	970608	809	0.8+	0.7+
911204	691	0.5−	0.9+	970503	809	0.2+	0.5+	970608	809	0.2+	0.0
911204	691	0.2+	1.0+	970503	809	0.1−	0.5+	970801	566	1.4−	1.8−
930224	896	0.2+	0.4− Y	970504	809	1.0+	0.9+	970801	566	1.7−	1.7−
930224	896	0.7−	0.8− Y	970504	809	0.9+	0.8+	970801	566	(2.4−	1.5−)
930225	896	(0.5−	2.3+)Y	970504	809	1.0+	0.4+				
930225	896	0.5−	0.7− Y	970607	809	0.1−	0.3+				

(7831)∗ 1993 FQ = 1976 UX$_{19}$ = 1980 WU$_3$ = 1982 HK$_1$

Discovered 1993 Mar. 21 by E. F. Helin at Palomar.

Id. S. Nakano (*MPC* 22061)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	51.26770		(2000.0)		**P**	**Q**	
n	0.26529811	ω	325.56431		−0.99065503	+0.10408513	
a	2.3987222	Ω	220.69459		−0.07322892	−0.95109589	
e	0.1352253	*i*	7.76906		−0.11506576	−0.29083138	
P	3.72	*H*	13.6	*G*	0.15	*U*	2

Residuals in seconds of arc

761024	381	0.2−	1.0+	930322	675	(2.9+	1.0−)	970607	385	1.0+	0.3+
761024	381	0.9−	0.1+	930325	399	(0.6−	2.4+)	970607	385	1.1+	0.4+
801129	675	1.7−	0.7−	930325	399	0.2−	1.6+	970611	689	1.6−	1.1+
801129	675	0.8−	0.3−	930329	399	0.6+	1.2+	970711	824	0.4+	1.4+
801201	675	0.4+	0.1−	930329	399	0.2−	1.0+	970711	824	0.6+	1.1+
820424	688	0.2−	1.7−	951209	608	0.7+	0.2+	970711	824	0.7−	0.3+
820424	688	0.2−	1.3−	951209	608	0.8+	0.1+	970712	824	0.5−	0.4+
820521	688	1.7+	1.9−	960109	608	0.5+	0.5+	970712	824	0.5−	0.4+
820521	688	0.4+	1.3−	960109	608	0.4+	0.4+	970712	824	0.3−	0.5+
930321	675	(2.5−	1.0−)	960110	608	0.4+	0.5+				
930321	675	1.5−	0.6+	960110	608	0.5+	0.5+				

(7832)∗ 1993 FA$_{27}$ = 1974 VP = 1987 QR$_9$ = 1994 UB$_2$

Discovered 1993 Mar. 21 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. S. Nakano (*MPC* 24394)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	326.57372		(2000.0)		**P**	**Q**	
n	0.29539751	ω	116.22333		+0.88728167	+0.45785345	
a	2.2328771	Ω	216.60219		−0.44945617	+0.83120428	
e	0.2123993	*i*	5.35929		−0.10353935	+0.31538811	
P	3.34	*H*	13.9	*G*	0.15	*U*	1

Residuals in seconds of arc

741112	095	(2.1−	8.8−)	941106	675	0.3+	0.4+	941203	675	0.5+	0.1−
870826	095	0.2−	0.7+	941107	399	0.6−	0.8+	941203	675	0.3−	1.9−
930321	809	0.7−	0.3+	941107	399	0.9−	0.8+	970704	620	0.4+	1.1−
930322	809	0.5+	0.7−	941108	894	0.8+	2.0+	970704	620	0.0	0.6−
930326	809	0.0	0.1+	941108	894	(0.9−	2.5+)	970705	620	0.2−	0.6+
930418	413	0.1+	0.1−	941110	894	0.4+	0.6+	970711	620	0.7+	0.2−
941031	399	(3.3−	0.5−)	941110	894	1.4−	0.6+	970711	620	0.5+	0.3−
941031	399	(2.4−	2.6−)	941128	675	0.3+	0.4−	970712	620	1.0−	0.1−
941104	675	0.9+	1.5−	941128	675	0.0	0.1+	970805	620	0.2−	0.4+
941104	675	0.2+	0.8−	941130	675	0.6−	0.3−	970805	620	0.2+	0.0
941106	675	0.3+	0.8−	941130	675	0.3+	0.7−	970805	620	0.2−	0.1+

(7833)∗ 1993 FV$_{32}$ = 1976 OD = 1987 UD

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 23526)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	290.73224		(2000.0)			
n	0.27803315	ω	207.66825		+0.92845781	+0.36958829
a	2.3249038	Ω	130.59220		−0.33114884	+0.86877481
e	0.2025029	i	2.79448		−0.16824545	+0.32959797
P	3.54	H	13.8	G	0.15	U 2

Residuals in seconds of arc

760727 095	0.1−	1.4+	941001 049	0.9+	1.0−	960216 010	1.0+	0.1+
871020 688	0.5−	0.9+	941001 049	0.6+	0.5−	960217 010	0.3+	0.8−
871020 688	0.5+	0.3+	941005 049	0.5−	1.4−	960217 010	0.8−	0.4+
871023 095	(4.4−	1.7−)	941005 049	0.0	0.3−	960217 010	0.5−	0.9+
930319 809	0.7−	0.3−	941104 675	0.3−	1.0+	970409 689	1.1+	0.6−
930320 809	1.0−	0.1−	941104 675	1.0−	0.3+	970708 689	0.6+	0.2−
930324 809	1.6−	0.4−	960216 010	0.6+	0.2+			
930421 413	0.1+	1.0+	960216 010	1.5+	0.4−			

(7834)∗ 1993 JL = 1968 HC$_1$ = 1972 JR

Discovered 1993 May 14 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 22412)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

					P	Q
M	336.89193		(2000.0)			
n	0.23605636	ω	165.96063		−0.42327639	+0.86991478
a	2.5929387	Ω	78.48635		−0.85417786	−0.29002519
e	0.1325359	i	14.97216		−0.30202198	−0.39891562
P	4.18	H	12.0	G	0.15	U 2

Residuals in seconds of arc

680426 095	0.3+	0.0	960117 118	0.5−	1.1−	970410 399	0.9−	0.6−
720512 095	(2.5−	4.8+)	960130 118	1.3+	0.7−	970411 471	0.4+	0.2−
920205 675	1.5−	0.2−	960130 118	1.0+	0.0	970411 471	0.3+	0.2−
920205 675	0.3−	0.3−	970330 367	0.6+	0.9+	970411 471	0.7+	0.2−
930419 399	0.5+	0.8−	970330 367	0.6+	0.7+	970411 471	0.6+	0.1−
930419 399	1.0−	0.5−	970331 124	0.6+	0.6+	970412 471	0.5+	0.1+
930514 399	0.6−	0.0	970331 124	0.9+	0.7+	970412 471	0.6+	0.4−
930514 399	0.5−	0.1−	970331 124	0.6+	0.7+	970412 471	0.6+	0.1+
930516 399	0.8+	0.4−	970401 127	0.1+	0.4−	970428 367	0.2−	0.1+
930516 399	0.0	0.2−	970401 127	0.2+	0.2−	970428 367	0.3−	0.0
930527 361	1.0−	0.2−	970406 127	0.4−	0.3−	970430 399	0.5−	1.2+
930527 361	(0.1+	3.6−)	970406 127	0.2−	0.1−	970430 399	1.7−	1.5−
930527 361	1.2−	0.9−	970407 367	0.4+	0.4−	970503 399	(3.1−	0.6−)
960116 118	0.6+	0.0	970407 367	0.2+	0.6−	970503 399	1.9−	0.9+
960116 118	0.5+	0.1+	970409 127	1.0−	0.2+	970509 962	1.5+	0.3+
960117 118	0.4−	0.2−	970409 127	0.7−	0.4+	970509 962	0.6+	0.5+

(7835)∗ 1993 MC = 1990 WV$_{12}$

Discovered 1993 June 16 by T. B. Spahr at the University of Arizona's Catalina Station.

Id. G. V. Williams (*MPC* 24394)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	2.65089		(2000.0)			
n	0.24142386	ω	37.94205		−0.20847808	+0.96712907
a	2.5543628	Ω	220.61809		−0.94310750	−0.23821854
e	0.2320457	i	12.92323		−0.25900798	+0.08895663
P	4.08	H	14.1	G	0.15	U 2

Residuals in seconds of arc

901123 372	(3.9−	1.4+)	960116 587	0.9−	0.7−	970712 138	0.3−	0.0
901123 372	1.8−	1.6+	960116 587	0.0	0.9+	970712 138	0.3−	0.0
930616 693	0.6+	1.9−	960116 587	1.0+	1.4+	970713 138	0.6+	0.1+
930616 693	0.8+	0.4−	960118 587	0.5+	0.5−	970719 560	0.1+	0.7+
930617 693	0.5+	0.2+	960118 587	0.1−	0.6−	970719 560	0.5+	0.0
930617 693	0.1+	0.0	960118 587	0.2−	1.0−	970719 560	0.1+	0.5+
930618 693	0.0	0.3−	960308 689	0.5−	0.4+	970806 953	0.2−	0.5+
930618 693	1.2−	0.3+	970529 696	0.6+	0.1−	970806 953	0.8−	0.1−
930626 693	0.2+	1.2−	970529 696	0.7+	0.1−	970806 953	0.7−	0.1+
930626 693	0.3+	0.5−	970529 696	0.7+	0.2−	970806 953	0.6−	0.5+
930812 693	(5.7+	2.5−)	970530 696	0.6+	0.0	970806 953	0.4−	0.1+
930812 693	(2.5+	4.7−)	970530 696	0.7+	0.1−	970807 953	0.2−	0.3+
940812 587	0.6+	0.8+	970530 696	0.7+	0.1−	970807 953	0.2−	0.2+
940812 587	0.1+	0.4−	970605 801	0.2+	0.3−	970807 953	0.2−	0.1+
941120 587	0.2−	0.6−	970605 801	0.6+	0.3−	970807 953	0.3−	0.3+
941120 587	0.9+	1.7−	970614 596	0.9−	0.0	970807 953	0.5−	0.3+
941121 587	(0.4+	2.2−)	970614 596	0.8−	0.1+	970807 953	0.6−	0.3+
941121 587	0.9+	0.9−	970614 596	0.4−	0.3+	970807 953	0.4−	0.6+

(7836)∗ 1993 TG = 1943 GJ = 1987 SQ$_{19}$ = 1991 HT = 1996 HZ

Discovered 1993 Oct. 9 by N. Kawasato at Uenohara.

Id. S. Nakano (*MPC* 27311)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

					P	Q
M	43.25215		(2000.0)			
n	0.18457774	ω	24.91094		−0.72557767	+0.68611257
a	3.0550372	Ω	198.72517		−0.65570075	−0.71261126
e	0.1697565	i	9.46435		−0.20879071	−0.14640605
P	5.34	H	12.0	G	0.15	U 1

Residuals in seconds of arc

430406 062	0.1+	0.7+	931010 376	1.2+	0.7+	960422 900	0.0	0.2−
430406 062	0.3−	1.3−	931022 376	0.3−	1.3−	960422 367	0.3+	0.0
870917 095	0.5+	1.4−	931022 376	1.5−	0.8−	960422 367	0.2+	0.2−
870923 095	0.4+	0.3+	931023 376	0.1+	1.4−	960422 367	0.0	0.3−
881106 675	0.4+	0.2−	931023 376	0.7−	0.8+	960506 367	0.0	0.1−
881106 675	0.5+	0.5−	960418 413	0.4+	0.7+	960506 367	0.1−	0.2+
910417 071	(0.1+	2.8+)	960418 413	(1.0−	2.5−)	970526 689	0.7−	0.7+
910417 071	0.5−	0.3+	960421 367	0.2−	0.3−	970806 956	0.2+	0.3−
931009 376	(2.3+	1.8+)	960421 367	0.1−	0.4−	970806 956	0.6+	0.8−
931009 376	0.3−	1.6+	960421 367	0.4−	0.5−			
931010 376	(2.5−	0.4+)	960422 900	0.1−	0.5−			

(7837)∗ 1993 TX = 1972 XU

Discovered 1993 Oct. 11 by H. Abe and S. Miyasaka at Yatsuka.

Id. T. Kobayashi (*MPC* 22693)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	314.77706		(2000.0)		**P**	**Q**	
n	0.23281810	ω	329.64143		+0.97169444	−0.19418405	
a	2.6169267	Ω	42.24196		+0.23610964	+0.81726724	
e	0.2958143	i	11.54503		−0.00788326	+0.54255582	
P	4.23	H	13.5	G	0.15	U	1

Residuals in seconds of arc

721202	095	(1.2− | 3.8−)	960324	809	0.1+	1.3+	970728	423	0.7−	0.5−
721206	095	0.4−	0.9+	960324	809	1.3−	1.7+	970730	423	0.9−	0.5−
930924	095	0.3−	0.2−	960324	809	1.2−	0.4+	970730	423	0.4−	0.4−
931011	367	1.3+	0.2−	960327	809	(1.3+ | 2.1+)	970730	423	0.2−	0.2−
931011	367	0.7−	1.4+	960327	809	(1.0+ | 2.0+)	970730	423	0.1−	0.1+
931012	095	0.1+	0.8−	960327	809	1.4+	1.7+	970730	423	0.7−	0.0
931014	675	0.1−	0.2−	960409	367	1.2+	0.5−	970801	367	0.1+	0.1+
931014	675	0.3−	0.6−	960409	367	0.5+	0.7−	970801	367	0.1−	0.0
931014	367	0.6+	0.4+	960415	809	(3.2+ | 0.6−)	970801	367	0.1−	0.1−
931014	367	0.3−	1.0+	960417	809	(1.7+ | 2.7−)	970807	423	1.0+	0.0
931015	675	0.6−	0.5−	960417	809	(1.1+ | 2.6−)	970807	423	0.3+	0.4+
931016	367	1.5−	0.8+	960417	809	(1.9+ | 3.0−)	970807	423	0.4+	0.6+
931016	367	0.4+	1.2+	960421	367	1.0+	0.7−	970807	423	0.6+	0.2+
931021	809	(2.1+ | 4.6+)	960421	367	0.2−	0.6−	970807	423	0.4+	0.5+
931021	809	(0.9+ | 3.5+)	970629	367	0.9−	1.3−	970807	423	1.0+	0.6+
931021	809	(0.9+ | 4.0+)	970629	367	1.3−	1.2−	970809	423	0.3+	0.4+
931022	367	0.8−	0.3+	970704	367	0.2−	0.2−	970809	423	0.5+	0.3+
931022	367	0.3+	0.1+	970704	367	0.1−	0.0	970809	423	0.6+	0.2+
931114	367	0.6+	1.7−	970704	367	0.1−	0.1−	970809	423	0.7+	0.4+
931114	367	1.1+	0.9−	970728	423	1.0−	0.3−	970809	423	0.5+	0.4+
931115	367	0.5−	0.4+	970728	423	0.3−	0.3−	970809	423	0.6+	0.1+
931115	367	0.4+	0.0	970728	423	0.9−	0.3−	970809	423	0.3+	0.4+

(7838)∗ 1993 WA = 1954 WF$_1$ = 1980 KG$_1$

Discovered 1993 Nov. 16 at Farra d'Isonzo.

Id. E. Bowell (*MPC* 24746), G. V. Williams (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	248.16916		(2000.0)		**P**	**Q**	
n	0.17685980	ω	166.37940		+0.96567966	−0.20189587	
a	3.1432817	Ω	207.00379		+0.19154957	+0.97846269	
e	0.0679102	i	21.09292		+0.17541825	+0.04299793	
P	5.57	H	13.3	G	0.15	U	1

Residuals in seconds of arc

541124	675	0.4+	0.3+	931124	595	0.4+	0.2−	950127	595	0.6−	0.8−
541124	675	0.4−	0.2−	931124	595	0.7+	0.5−	950128	595	0.3−	0.5+
800517	095	(2.6+ | 8.7−)	931130	595	0.2−	0.3+	950131	595	0.5−	1.0+
931014	675	(2.2+ | 0.1−)	931130	595	0.0	1.1+	950201	595	1.0+	0.9+
931014	675	0.6+	1.2+	931130	595	0.7+	1.0−	970528	595	0.7+	0.3−
931116	595	1.4+	0.3−	931212	595	(2.6− | 1.4+)	970528	595	0.1+	0.6−
931116	595	0.0	0.6−	931212	595	(2.3− | 1.1+)	970530	595	0.8−	0.2−
931116	595	0.3+	0.1−	940115	595	(1.2+ | 2.1−)	970530	595	0.1−	0.6−
931117	595	0.7−	0.4−	940115	595	0.6+	0.4−	970609	824	0.1+	0.2−
931117	595	0.3−	0.6−	940115	595	0.3+	0.9−	970609	824	0.1+	0.2−
931117	595	0.2−	1.1−	940129	595	0.3+	0.9−	970609	824	0.2+	0.3−
931118	595	0.9−	0.2−	940129	595	0.6+	0.2−	970611	824	0.5+	0.1+
931118	595	1.4−	0.4−	940129	595	0.7−	1.1+	970611	824	0.1+	0.4+
931118	595	1.1−	0.3−	950102	595	0.2+	0.9−	970611	824	0.1−	0.2+
931122	595	1.1−	0.7+	950103	595	0.4+	1.1−	970713	595	0.7+	0.5−
931122	595	0.7+	0.9+	950103	595	0.0	0.8−	970713	595	1.2−	0.8−
931122	595	0.6+	0.5+	950103	595	1.0−	0.4−				

(7839)∗ 1994 ND

Discovered 1994 July 3 by R. H. McNaught at Siding Spring.

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	315.50567		(2000.0)		**P**	**Q**	
n	0.30923771	ω	227.91335		+0.79244024	+0.41642566	
a	2.1657471	Ω	102.83200		−0.33015308	+0.90722673	
e	0.5165849	i	27.19967		−0.51287173	+0.05940814	
P	3.19	H	17.9	G	0.15	U	1

Residuals in seconds of arc

940703	413	1.0+	0.1−	940707	413	1.9+	1.2−	940826	413	0.1+	0.0
940703	413	(3.5− | 6.4+)	940707	413	0.2−	0.5+	940827	413	0.3+	0.3−
940704	413	(0.9− | 3.6+)	940707	360	0.3+	0.7+	940827	413	0.2+	0.2−
940704	413	0.5−	0.1−	940707	360	0.1+	1.0+	940828	413	0.2+	0.3−
940704	413	1.4−	0.6+	940707	360	0.0	0.9+	940828	413	0.2+	0.3−
940705	474	(3.6−	2.1−)	940708	568	(2.9+	3.0−)	940918	413	0.4+	0.3−
940705	474	(5.5+ | 1.3+)	940708	474	0.8−	0.0	940918	413	0.3+	0.1−
940705	474	(2.7− | 2.8−)	940708	474	1.0−	0.9−	941111	413	0.2−	1.1+
940705	474	(3.7+ | 2.7+)	940711	474	1.0−	0.1−	941111	413	0.2−	0.9+
940705	474	0.5+	0.4+	940711	474	(2.5− | 2.0+)	941219	413	0.2+	0.4+
940705	474	0.7−	0.5+	940711	474	0.6−	1.2−	941219	413	0.5−	0.4+
940706	675	0.6+	0.8+	940711	474	0.8−	1.7−	941220	413	1.4−	0.8+
940706	675	1.5+	0.4−	940725	413	0.3+	0.7−	941220	413	0.7−	1.0+
940706	568	0.4+	0.5−	940725	413	0.3+	0.7−	970330	696	0.6+	0.5−
940706	568	0.5+	0.4−	940725	413	0.3+	0.6−	970330	696	0.9+	0.6−
940706	372	(3.0+ | 0.8−)Y	940726	413	0.1−	0.1−	970330	696	0.7+	0.1−
940707	568	0.1+	0.1−	940726	413	0.1+	0.0	970407	658	1.2−	1.1+
940707	568	0.2+	0.1+	940726	413	0.4+	0.1−	970407	658	0.4−	0.2+
940707	413	1.2+	0.9−	940726	413	0.5+	0.0	970407	658	0.8−	0.5+
940707	413	1.1−	1.8+	940815	413	0.4+	0.0	970409	658	0.3+	0.2−
940707	413	1.5+	0.4−	940815	413	0.3+	0.2−	970409	658	0.1−	0.2+
940707	413	0.0	0.6−	940816	413	0.2+	0.1+	970610	658	0.3−	1.4−
940707	413	0.2+	1.3+	940816	413	0.3+	0.1+	970610	658	0.7−	0.8−
940707	413	0.2+	1.7+	940817	413	0.3+	0.2−	970713	696	0.6+	0.0
940707	413	0.9+	0.6+	940817	413	0.4+	0.4−	970713	696	0.8+	0.2−

(7840)∗ 1994 TL$_3$ = 1980 RN$_5$

Discovered 1994 Oct. 5 by G. C. L. Aikman at the Dominion Astrophysical Observatory, Victoria.

Id. G. V. Williams (*MPC* 24750)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	282.94973		(2000.0)		**P**	**Q**	
n	0.28689382	ω	168.22382		+0.86214320	−0.49505921	
a	2.2767845	Ω	222.01574		+0.45079871	+0.84665109	
e	0.1133233	i	9.27003		+0.23127825	+0.19518786	
P	3.44	H	14.9	G	0.15	U	1

Residuals in seconds of arc

800913	675	0.6−	0.4−	941007	658	0.9+	0.6−	960228	658	(2.6− | 2.3−)
800914	675	0.5+	0.6+	941029	658	0.9−	0.7+	960228	658	(2.4− | 1.2−)

941003	658	1.2+	0.3−	941029	658	0.9−	0.4+	960229	658	0.7−	0.2−
941003	658	1.1+	0.1−	941029	658	0.9−	0.5+	960229	658	1.0−	0.8−
941003	658	0.7+	0.5−	941029	658	1.1−	0.4+	960229	658	0.4−	0.5−
941003	658	0.2+	0.3+	941105	691	1.6−	0.6+	960314	658	1.1+	0.6−
941003	658	0.4+	0.7−	941105	691	(2.1−	0.7+)	960314	658	0.7+	0.1−
941004	658	0.7+	0.7−	941105	691	1.8−	0.5+	960314	658	0.4+	0.2−
941004	658	0.4+	0.5−	950228	658	0.2−	0.7−	970610	658	0.6−	0.1−
941004	658	0.6+	0.5−	950228	658	0.5−	0.9+	970610	658	0.9−	0.2−
941005	658	0.3+	0.3−	951224	658	0.3−	0.1−	970610	658	0.2+	0.1−
941005	658	0.2+	0.2−	951224	658	0.8+	0.2−	970610	658	0.4−	0.2−
941005	658	0.3+	0.1−	951224	658	0.3+	0.1+	970614	658	0.4+	0.2+
941006	658	0.0	0.6−	951224	658	0.6+	0.3−	970614	658	0.3+	0.0
941006	658	0.2+	0.5−	951224	658	0.4+	0.3−	970614	658	0.6+	0.0
941006	658	0.3+	0.5−	951224	658	0.3−	0.8−	970729	658	0.2−	0.3−
941007	658	0.8+	0.5−	960228	658	1.8−	0.9−	970729	658	0.1+	0.3−
941007	658	0.9+	0.4−	960228	658	(4.8−	0.8−)	970729	658	0.1+	0.5−

(7841)∗ 1994 UE$_1$ = 1976 UC$_2$ = 1987 DG$_4$

Discovered 1994 Oct. 31 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Id. K. Kinoshita (*MPC* 24399)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	220.48960		(2000.0)		**P**	**Q**	
n	0.22075720	ω	148.38082		+0.85535435	−0.50792048	
a	2.7113951	Ω	242.47793		+0.44810570	+0.82413141	
e	0.1111202	i	6.59872		+0.25994272	+0.25064758	
P	4.46	H	13.2	G	0.15	U	1

Residuals in seconds of arc

761024	381	0.7+	0.4−	941107	675	0.1+	0.8−	941130	887	0.2+	0.3+
761024	381	0.5−	0.5−	941107	675	0.3−	0.2+	941130	887	0.6+	0.1+
761026	095	(0.0	6.1+)	941107	399	1.0−	0.4+	941130	887	0.1+	0.2−
870223	010	1.0−	0.9−	941107	399	0.4−	1.0+	950101	385	0.2−	0.8+
870224	010	1.1−	0.9+	941110	905	1.1−	0.7−	950101	385	0.8+	0.9+
870224	010	2.0+	0.3−	941110	905	0.1−	0.4−	970607	385	0.7+	0.1−
941031	399	1.6−	0.4−	941112	385	0.2−	0.2−	970607	385	0.4+	0.4+
941031	399	0.9−	0.4−	941112	385	0.5+	0.2+	970728	784	0.0	0.1+
941031	905	0.2+	0.1+	941112	385	0.1+	0.2−	970730	784	0.3−	0.1+
941031	905	0.5+	0.4+	941125	385	0.7+	0.0	970730	784	0.4−	0.2+
941103	905	0.3+	0.5+	941125	385	0.3+	0.6+	970730	784	0.6−	0.1−
941103	905	1.1+	0.4−	941125	385	0.3+	0.4+	970730	784	0.0	0.4+

(7842)∗ 1994 XQ = 1959 TP = 1966 UQ = 1973 UA$_2$ = 1980 VN$_2$ = 1996 FU

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

Id. G. V. Williams (*MPC* 26906)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	312.09547		(2000.0)		**P**	**Q**	
n	0.28351194	ω	165.71081		+0.99351457	+0.11302200	
a	2.2948545	Ω	187.83146		−0.11121737	+0.94318012	
e	0.2149697	i	5.23928		−0.02365347	+0.31246968	
P	3.48	H	14.3	G	0.15	U	1

Residuals in seconds of arc

591006	024	0.4+	0.3−	941203	400	1.0+	1.3+	960319	422	0.2+	0.2+
661020	095	0.0	2.2−	941203	400	(3.8+	1.0+)	960328	413	0.0	0.1−
731026	095	0.3+	0.7+	941210	399	1.0−	0.4−	960328	413	0.0	0.2−
801111	330	(2.9−	0.4−)	941210	399	0.6−	0.3+	960328	413	0.1−	0.2+
930520	691	0.4−	0.1−	960317	422	0.4+	0.0	960328	413	0.0	0.1−
930520	691	0.3−	0.2+	960317	422	0.1+	0.0	960328	413	0.0	0.0
930520	691	0.4−	0.7+	960317	422	0.1+	0.2−	970611	689	0.7−	0.8+
941201	400	1.2+	0.5+	960317	422	0.3+	0.6−	970731	595	0.2+	0.5+
941201	400	1.4−	1.2+	960319	422	0.2+	0.4−	970731	595	0.3+	0.5+

(7843)∗ 1994 YE$_1$ = 1972 JC$_1$ = 1990 XY = 1993 ML

Discovered 1994 Dec. 22 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 24752)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	262.75281		(2000.0)		**P**	**Q**	
n	0.24276451	ω	114.57393		+0.80269843	−0.56365244	
a	2.5449499	Ω	280.29894		+0.44997696	+0.78683672	
e	0.1046267	i	11.42312		+0.39140256	+0.25136406	
P	4.06	H	12.3	G	0.15	U	2

Residuals in seconds of arc

720511	805	0.5−	0.4−	930723	675	0.9+	0.0	950330	801	0.1−	0.1−
720511	805	0.1−	0.3+	930723	675	0.1−	0.3−	950330	801	0.1−	0.1−
720511	805	0.3+	0.2−	941222	399	0.3−	0.7−	970629	367	0.8−	0.0
901214	885	0.6+	1.2+	941222	399	0.6−	0.2+	970629	367	0.9−	0.9+
901214	885	0.8+	2.0+	941225	399	(2.7−	0.1−)	970704	367	0.1+	0.5+
901219	403	0.9+	0.9−	941225	399	1.1−	0.9+	970704	367	0.0	0.0
901219	403	0.9+	0.8−	950127	399	0.2−	0.3−	970706	104	1.3−	0.7−
901219	886	0.6−	0.7−	950127	399	0.3+	1.2−	970806	540	0.5+	0.1+
901219	886	1.7−	0.2+	950128	399	0.5+	0.4+	970806	540	0.3+	0.1−
930617	675	0.9+	2.1−	950128	399	0.5+	1.3−	970806	540	0.7+	0.1+
930617	675	(1.2+	2.6−)	950328	801	0.9+	0.3+	970807	540	0.1+	0.4+
930618	675	(0.8+	2.9−)	950328	801	0.4−	1.0−	970807	540	0.5+	0.2−

(7844)∗ 1995 YL$_1$ = 1982 QM$_3$ = 1982 RQ$_2$ = 1986 PH = 1993 FW$_{77}$

Discovered 1995 Dec. 21 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 26573)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	196.73475		(2000.0)		**P**	**Q**	
n	0.23897254	ω	114.34060		+0.99754375	−0.05567370	
a	2.5718011	Ω	248.87384		+0.03524341	+0.92336816	
e	0.2760690	i	2.61191		+0.06053405	+0.37985744	
P	4.12	H	13.7	G	0.15	U	2

Residuals in seconds of arc

530907	675	0.7+	1.1−	951221	411	0.5−	0.4+	960114	327	0.1+	0.3+
530907	675	0.6−	0.5+	951221	411	0.1+	0.7−	970305	809	0.7−	0.7+
820823	095	2.2−	1.8+	951222	411	0.0	0.6+	970305	809	1.2−	0.2−
820912	095	1.0−	0.0	951222	411	0.0	0.3−	970305	809	1.7−	0.7−
820920	675	(3.2+	1.1+)	951226	411	0.2+	0.4−	970306	809	(1.5+	3.5+)
820920	675	1.2+	0.6+	951226	411	0.7−	0.3+	970306	809	(0.3+	4.4+)
820920	095	1.8+	2.2−	951230	411	0.8−	0.5+	970306	809	(0.6+	4.2+)
860805	887	(0.6+	4.3+)	951230	411	1.2+	0.1−	970410	327	0.3+	0.4−
860805	887	(1.4−	4.2+)	951231	411	0.7+	0.9−	970410	327	0.5+	0.5−

930321	809	0.7+	0.8+	960114	327	0.2−	0.9+	970410	327	0.7+	0.6−
930322	809	0.9+	0.2+	960114	327	0.1−	0.0				

(7845)∗ 1996 AC = 1951 CJ$_2$ = 1979 BU$_2$

Discovered 1996 Jan. 1 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 26575)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	72.90693		(2000.0)		**P**	**Q**	
n	0.17452536	ω	26.46343		−0.81635670	−0.52516053	
a	3.1712491	Ω	119.78802		+0.46856008	−0.84553015	
e	0.2235369	i	16.07782		+0.33765838	−0.09635964	
P	5.65	H	12.7	G	0.15	U	2

Residuals in seconds of arc

510204	675	0.5+	0.1+	960102	411	0.5−	0.1−	970728	784	0.4+	0.4−
510204	675	0.5−	0.2+	960110	411	0.1−	0.2−	970728	784	0.8+	0.1+
790127	675	0.4−	0.6+	960110	411	0.2+	0.3−	970728	784	0.5+	0.1−
790129	675	0.3+	0.3+	960118	411	0.5+	0.1−	970729	784	0.4+	0.5−
960101	411	0.1−	0.0	960118	411	0.3+	0.4−	970729	784	0.1+	0.2+
960101	411	0.7−	0.4−	970527	691	0.9−	0.4+	970729	784	0.1+	0.7+
960102	411	0.3+	0.4+	970527	691	0.6−	0.4−	970729	784	0.6+	0.5+
960102	411	0.1+	0.1+	970527	691	0.7−	0.2−				

(7846)∗ 1996 BJ = 1979 OZ$_2$

Discovered 1996 Jan. 16 at Kleť.

Id. B. G. Marsden (*MPC* 26751)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	114.43602		(2000.0)		**P**	**Q**	
n	0.27331285	ω	223.26479		−0.90419957	−0.42340487	
a	2.3515958	Ω	291.60732		+0.40648353	−0.81271487	
e	0.1763153	i	3.46167		+0.13112696	−0.40027847	
P	3.61	H	14.6	G	0.15	U	2

Residuals in seconds of arc

790724	675	0.1−	0.2+	960201	046	0.5+	0.2+	960406	046	0.4+	0.5+
790724	413	0.5−	0.1+	960201	046	0.5+	0.2+	960406	046	0.1−	0.7+
790725	675	0.5+	0.1−	960206	046	0.5−	0.3−	960407	046	0.3−	0.7+
890306	046	(3.4− | 0.3+)	960206	046	0.4−	0.3+	960407	046	0.1+	0.4+
890306	046	0.1−	0.2+	960206	046	0.1+	0.1−	960407	046	0.3+	0.3+
890307	675	0.2−	0.2−	960209	046	0.1−	0.1−	970702	046	0.6−	0.3−
890307	675	0.0	0.9−	960209	046	0.1−	0.2−	970702	046	0.5−	0.4−
960116	046	(2.2− | 0.6−)	960209	046	0.1−	0.2−	970702	046	0.3−	0.3−
960116	046	(4.4− | 0.7−)	960215	046	0.4−	0.3+	970708	046	0.7−	0.1+
960117	046	0.3−	0.2−	960215	046	0.1+	0.4−	970708	046	0.7−	0.0
960117	046	0.2−	0.1−	960215	046	0.3−	0.4−	970708	046	0.9−	0.2−
960117	046	0.0	0.2−	960223	046	0.0	0.1+	970723	046	0.8+	0.6−
960117	046	0.1−	0.2−	960223	046	0.2+	0.1+	970723	046	1.0+	0.2−
960117	046	0.1−	0.3−	960223	046	0.0	0.0	970723	046	0.6+	0.2−
960131	046	0.4+	0.0	960224	046	0.2−	0.4−	970728	046	0.3+	0.3+
960131	046	0.2+	0.4+	960224	046	0.2−	0.4−	970728	046	0.6+	1.0+
960131	046	0.2+	0.2+	960224	046	0.3−	0.3−	970728	046	0.5+	0.0
960201	046	0.4+	0.3+	960406	046	0.5+	0.4+				

(7847)∗ 1996 CS$_8$ = 1989 WD$_5$

Discovered 1996 Feb. 14 by U. Munari and M. Tombelli at Cima Ekar.

Id. G. V. Williams (*MPC* 29114)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	15.02973		(2000.0)		**P**	**Q**	
n	0.17841292	ω	100.95875		−0.63644098	+0.76687878	
a	3.1250132	Ω	129.19083		−0.74279130	−0.58046938	
e	0.0929460	i	6.12555		−0.20785565	−0.27377406	
P	5.52	H	13.3	G	0.15	U	1

Residuals in seconds of arc

881106	675	0.3−	0.1−	960224	098	0.4−	0.3+	970709	108	0.0	0.2−
881106	675	1.0+	0.0	960314	098	1.0+	0.4+	970709	108	1.2+	0.6−
891129	033	0.6−	0.3−	960320	098	0.6+	0.1+	970709	108	1.2−	0.1−
891129	033	1.0−	0.8−	960320	098	0.9−	0.1+	970711	824	1.4+	0.6+
910419	675	0.0	0.5−	970530	108	0.9+	0.1−	970711	824	1.8+	1.1+
910419	675	0.2+	0.2−	970530	108	1.9−	0.5−	970711	824	(2.3+ | 1.3+)
960117	098	0.2−	1.3+	970530	108	0.4+	1.3−	970712	824	0.3−	0.9+
960117	098	0.7+	0.3−	970701	108	1.9−	0.3+	970712	824	0.5−	0.6+
960214	098	0.5+	0.4+	970701	108	0.8−	0.5+	970712	824	0.1−	0.3+
960214	098	0.3+	0.4+	970701	108	(1.3− | 3.5+)	970727	104	0.3+	0.1−
960215	098	0.1+	0.3+	970703	108	(2.2− | 1.0−)	970727	104	0.5+	0.3+
960215	098	0.9+	1.1−	970703	108	0.8−	1.1−	970729	104	0.4+	0.8−
960224	098	1.5−	0.8−	970709	108	0.7−	0.2−	970729	104	0.9+	0.2+

(7848)∗ 1996 DF$_1$ = 1985 PT$_1$ = 1989 RQ$_4$

Discovered 1996 Feb. 22 by M. Cavagna and A. Testa at Sormano.

Id. K. Ichikawa (*MPC* 26910)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	2.01357		(2000.0)		**P**	**Q**	
n	0.24136321	ω	316.39099		+0.15003237	+0.98810438	
a	2.5547907	Ω	322.20061		−0.89131274	+0.12039935	
e	0.1962556	i	3.15798		−0.42784564	+0.09567509	
P	4.08	H	13.5	G	0.15	U	2

Residuals in seconds of arc

850814	010	(1.8− | 2.6−)	960217	587	0.4−	0.4−	960311	587	1.2−	0.1−
850816	010	0.0	0.5+	960220	566	0.6+	0.2+	970607	587	0.6−	0.9+
880216	675	0.9+	0.8−	960220	566	0.2+	0.3+	970607	587	0.0	0.7+
880216	675	0.2−	0.1+	960220	566	0.6+	0.5+	970607	587	0.1−	0.3+
890729	675	0.5+	0.3−	960222	587	1.4+	0.1+	970706	587	0.1+	0.7−
890902	071	2.0−	0.8+	960222	587	1.6+	0.8−	970706	587	0.1+	0.5−
890902	071	0.4+	0.9−	960222	587	0.3−	0.5+	970708	689	0.5+	0.6−
890903	071	0.9+	1.0−	960223	587	0.2+	0.3−	970709	689	0.2−	0.5−
890903	071	1.1+	1.3−	960223	587	1.2+	0.5−	970726	587	0.0	0.1+
920302	809	1.6−	0.2+	960228	587	0.5−	0.9−	970726	587	0.4−	0.1−
920406	809	0.6−	0.2−	960228	587	0.2−	1.4−	970726	587	0.4−	0.3+
960217	587	0.4−	0.6+	960228	587	0.7−	1.1−	970808	587	0.5+	0.1−
960217	587	1.7−	0.1−	960311	587	0.4−	0.6+	970808	587	0.6+	0.0

(7849)∗ 1996 HR = 1962 XQ$_1$ = 1980 WB$_2$

Discovered 1996 Apr. 18 by P. Pravec and L. Šarounová at Ondřejov.

Id. K. Ichikawa (*MPC* 27318)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	238.51359		(2000.0)		**P**	**Q**	
n	0.21795120	ω	345.62150		+0.38188074	−0.91835407	
a	2.7346172	Ω	81.84408		+0.85797721	+0.31047874	
e	0.0959950	i	6.02431		+0.34357271	+0.24541546	
P	4.52	H	13.9	G	0.15	U	1

Residuals in seconds of arc

621204 033	0.1−	0.9−	960516 557	0.3+	0.6+	960608 557	0.1+	0.1+		
801130 095	0.9−	1.0+	960518 557	0.5−	0.2−	960608 557	0.4+	0.3−		
801210 095	1.1+	1.1+	960518 557	1.0+	0.3+	960608 557	0.6+	0.0		
931015 675	0.2−	0.5−	960519 809	1.6+	0.8−	970709 557	0.1+	0.0		
931015 675	0.7−	0.1−	960519 809	0.3+	0.7−	970709 557	0.3+	0.4+		
960418 557	1.5−	0.8−	960519 809	0.1+	0.5−	970709 557	0.3+	0.7+		
960418 557	1.7−	0.5−	960522 809	0.3−	0.9+	970710 557	0.2+	0.4+		
960419 557	0.5−	0.0	960522 809	0.4−	0.2−	970710 557	0.1+	0.6+		
960419 557	0.4−	0.0	960522 809	0.5+	0.6+	970710 557	0.2+	0.6+		
960420 557	0.1+	0.6−	960522 557	0.1−	0.3−	970713 557	0.8+	0.6+		
960420 557	0.5−	0.0	960522 557	0.2+	0.2−	970713 557	0.9+	0.3+		
960420 557	0.0	0.1+	960522 557	0.0	0.3−	970802 557	0.0	0.4−		
960423 557	0.2−	0.5+	960523 809	0.5−	2.1+	970802 557	0.3−	0.4−		
960423 557	0.6−	0.8+	960523 809	0.4+	2.2+	970803 557	0.3−	0.6−		
960427 557	0.1+	0.3+	960523 809	(0.7+	2.5+)	970803 557	0.6−	0.0		
960427 557	0.2+	0.4−	960605 557	1.0+	0.8−	970803 557	0.2−	0.4−		
960427 557	0.2+	0.4−	960605 557	1.3−	1.2−	970803 557	0.5−	0.7−		
960516 557	0.1+	0.0	960605 557	0.9+	0.3+	970803 557	0.0	0.2−		

(7850)∗ 1996 LH = 1977 DR$_{10}$ = 1992 EM$_{28}$ = 1993 QZ$_4$

Discovered 1996 June 10 by L. Macri at Mt. Hopkins.

Id. G. V. Williams (*MPC* 27563)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	84.25727		(2000.0)		**P**	**Q**	
n	0.26209290	ω	231.72600		−0.63302194	+0.77413068	
a	2.4182389	Ω	358.99242		−0.66504772	−0.54528419	
e	0.1087261	i	7.24380		−0.39622563	−0.32153826	
P	3.76	H	14.9	G	0.15	U	1

Residuals in seconds of arc

770219 381	0.6−	0.4−	960619 696	0.6−	0.2+	960621 709	0.4+	0.6−		
770219 381	0.7+	0.1−	960619 696	0.1+	0.0	960621 709	0.3+	0.6−		
920308 809	0.6+	1.3+	960619 696	0.5−	0.6+	960621 709	0.2+	0.5−		
920309 809	0.7−	0.7+	960620 709	0.1+	0.1−	960621 709	0.4+	0.6−		
920406 809	0.6+	0.3−	960620 709	0.1+	0.1+	960621 709	0.3+	0.6−		
930819 675	1.6−	0.4−	960620 709	0.1+	0.0	960624 696	0.4−	0.3−		
930819 675	0.6−	0.1+	960620 709	0.0	0.1−	960624 696	0.9−	0.1−		
930822 675	0.4+	1.4+	960620 709	0.2+	0.1+	960624 696	0.6−	0.1−		
930822 675	(0.7−	4.0+)	960620 709	0.2+	0.1+	960708 709	0.4−	0.2−		
960610 696	0.2+	0.9+	960620 709	0.2+	0.1−	960708 709	0.0	0.3−		
960610 696	0.0	0.6+	960620 709	0.1+	0.0	960719 696	0.3−	0.2+		
960610 696	0.0	0.7+	960620 709	0.1+	0.0	970602 696	0.1+	0.3+		
960610 696	0.1−	0.6+	960620 709	0.1+	0.0	970602 696	0.4+	0.1+		
960611 696	0.3−	0.9+	960620 709	0.0	0.1−	970602 696	0.9+	0.4+		
960611 696	0.7−	0.9+	960620 709	0.3+	0.2+	970603 696	0.6−	0.0		
960611 696	0.6+	0.7+	960621 709	0.3+	0.5−	970603 696	0.0	0.0		
960616 696	0.1−	0.1+	960621 709	0.4+	0.6−	970804 557	0.1+	0.5−		
960616 696	0.1+	0.2+	960621 709	0.4+	0.6−	970804 557	0.0	0.1−		
960616 696	0.7−	0.1−	960621 709	0.3+	0.6−	970806 557	0.0	0.1+		
960616 696	0.7−	0.0	960621 709	0.4+	0.6−	970806 557	0.7+	0.2+		
960619 696	0.3−	0.4−	960621 709	0.3+	0.5−					

(7851)∗ 1996 YW$_2$ = 1936 OP = 1969 TT$_3$ = 1972 NG = 1976 YY$_4$ = 1992 UG$_{10}$

Discovered 1996 Dec. 29 by N. Sato and T. Urata at Chichibu.

Id. T. Urata (*MPC* 28877), S. Nakano (*ibid.*)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	220.05616		(2000.0)		**P**	**Q**	
n	0.30096349	ω	353.22736		+0.35137280	+0.93299461	
a	2.2052619	Ω	297.31930		−0.85481752	+0.28579654	
e	0.1625525	i	5.02589		−0.38186929	+0.21872677	
P	3.27	H	13.1	G	0.15	U	2

Residuals in seconds of arc

360725 078(25.1−	23.8−)X	921020 095	1.0−	0.3−	970102 369	0.3+	0.8−			
360808 078(22.1+	14.2−)X	921028 095	(2.1−	2.0+)	970118 369	0.3−	0.7+			
691011 095	1.8+	0.9−	940212 675	0.3+	0.6+	970118 369	0.5−	0.3+		
691014 095	0.1−	0.8+	961229 369	0.2+	0.6−	970130 369	0.5−	0.4−		
720715 095	0.2+	2.0−	961229 369	0.1−	0.7−	970130 369	0.0	0.8−		
720718 095	(1.9+	8.6−)	961229 369	0.1−	0.5−	970209 369	0.2+	0.7+		
761218 095	1.9−	0.6−	961230 369	0.5+	0.5−	970209 369	0.2−	0.3+		
920928 095	0.7+	0.3+	961230 369	0.5+	0.6−					
920928 095	0.8−	1.4+	970102 369	0.4+	0.6−					

(7852)∗ 7604 P-L = 1985 GD

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* 12584)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	143.76841		(2000.0)		**P**	**Q**	
n	0.26209471	ω	54.28943		−0.74607263	−0.66221353	
a	2.4182278	Ω	84.13266		+0.58607982	−0.70271311	
e	0.0542999	i	4.01402		+0.31604759	−0.26012985	
P	3.76	H	13.9	G	0.15	U	1

Residuals in seconds of arc

550416 675	0.4−	0.9−	850423 688	1.9−	0.4−	960317 801	1.1+	0.8−		
550416 675	0.2+	0.3−	850423 688	(4.2−	2.2+)	960324 801	0.1+	0.8+		
601017 675	0.6−	0.5+	880112 033	0.4+	0.1−	960324 801	0.2+	0.4+		
601022 675	0.9+	0.5−	880112 033	0.7+	1.0−	970708 689	0.2−	0.4−		
601025 675	0.8+	1.3−	920207 801	0.1−	0.1+	970709 689	0.2+	1.2−		
601026 675	1.0+	0.7−	920207 801	0.2−	0.2+	970802 566	0.2−	0.3+		
770211 675	0.7−	0.4+	941026 400	1.1−	0.9+	970802 566	0.5−	0.8+		
770212 675	0.4−	0.1−	941026 400	0.6−	1.0−	970802 566	1.1+	0.2+		
850414 688	1.4+	0.5+	960308 689	0.0	0.3−					
850414 688	1.2−	0.1+	960317 801	0.4+	1.3−					

(7853)∗ 2086 T-2 = 1965 DD = 1976 JB$_1$ = 1981 EP$_{48}$ = 1986 AL$_2$

Discovered 1973 Sep. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (*MPC* 15257)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	25.70592		(2000.0)		**P**	**Q**	
n	0.18612853	ω	174.07683		−0.96518738	−0.26102505	
a	3.0380442	Ω	350.74090		+0.23551132	−0.83949730	
e	0.2466054	i	5.96135		+0.11378814	−0.47656081	
P	5.30	H	13.0	G	0.15	U	2

Residuals in seconds of arc

650225	330	1.9−	0.1+	730929	675	0.6+	0.7−	860112	688	0.3+	0.2−
650304	330	1.7+	0.5−	730930	675	0.6+	0.5−	891028	807	0.3−	1.4+
730919	675	0.3−	1.0+	730930	675	0.4+	0.6−	891031	807	0.5+	1.4+
730919	675	0.6+	0.9+	731004	675	1.3+	1.2−	970308	809	(0.9+	3.3+)
730920	675	1.6−	1.0−	731004	675	0.9+	2.0−	970308	809	(0.0	2.9+)
730924	675	1.2−	0.2+	731005	675	1.3+	0.8−	970308	809	(0.2+	3.2+)
730924	675	1.5+	0.7+	731005	675	0.7+	0.5−	970309	809	0.4−	0.4−
730925	675	1.1−	0.9−	760502	095	0.6+	1.3−	970309	809	0.3−	0.8−
730925	675	2.1−	0.4−	810301	095	0.3−	1.6+	970309	809	0.6−	1.1−
730929	675	0.7−	0.0	860112	688	0.3+	0.6−	970513	689	0.4−	0.4+

(7854)∗ 1076 T-3 = 1989 EB$_5$

Discovered 1977 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (*MPC* 15088)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	294.96336		(2000.0)		**P**	**Q**	
n	0.29127699	ω	62.77969		+0.97503713	−0.20283385	
a	2.2538859	Ω	308.78249		+0.13945633	+0.87600744	
e	0.1817807	i	6.65487		+0.17278463	+0.43757217	
P	3.38	H	14.3	G	0.15	U	1

Residuals in seconds of arc

530815	675	0.3−	0.5−	870916	095	(1.8+	5.7−)	941107	801	0.5+	0.4+
771007	675	0.8+	1.0−	870920	095	1.2−	1.6+	941107	801	0.4+	0.1+
771011	675	0.9+	0.2+	890302	413	1.0−	0.8−	970709	689	0.2−	0.2+
771011	675	2.0+	0.1+	890302	413	0.2−	0.3−	970725	126	0.1−	0.4−
771012	675	0.1−	0.7+	890304	413	1.0+	0.1+	970725	126	0.2+	0.1+
771012	675	0.3−	1.1+	911227	691	0.0	0.2−	970725	126	0.2+	0.2−
771016	675	0.4+	1.4−	911227	691	0.2−	0.2−	970725	126	0.2+	0.2−
771016	675	0.7−	1.4−	911227	691	0.3+	0.3−	970726	126	0.2+	0.4−
771017	675	1.2+	1.0+	941001	801	0.4−	0.4+	970726	126	0.3+	0.3−
771017	675	0.1+	1.0+	941001	801	0.5+	1.3−	970726	126	0.2+	0.3−
771022	675	1.3−	1.2−	941001	675	0.1−	0.3+	970726	126	0.1+	0.4−
771022	675	(2.9−	0.3−)	941001	675	0.1+	0.3−	970803	566	0.5+	0.1+
820130	675	1.2−	0.0	941003	801	1.1−	1.4−	970803	566	0.5+	0.0
820131	675	0.4−	1.4−	941029	816	0.3−	0.5+	970803	566	0.7+	0.0
870827	095	1.3−	0.4−	941029	816	0.1−	0.7+				
870902	095	1.1−	1.0−	941029	816	0.6−	0.5+				

(7855)∗ 4092 T-3 = 1988 CM$_5$

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

Id. H. Kaneda (*MPC* 16039)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	26.21011		(2000.0)		**P**	**Q**	
n	0.22557179	ω	354.45328		−0.99639807	−0.08475286	
a	2.6726753	Ω	180.70340		+0.08389349	−0.98041156	
e	0.0971359	i	13.17531		+0.01235956	−0.17779234	
P	4.37	H	13.3	G	0.15	U	1

Residuals in seconds of arc

771007	675	0.5+	1.0−	880213	809	0.0	1.6−	930618	801	0.1+	1.4−
771011	675	1.9+	1.3−	880215	809	1.5−	0.6−	930623	801	0.9−	0.9−
771011	675	0.7+	2.0−	880216	809	1.3−	0.3−	930623	801	0.8−	0.9−
771012	675	0.8−	1.3−	880216	809	0.8−	0.3−	940905	809	0.6+	1.5+
771012	675	0.3−	1.3−	880216	809	1.1−	0.3−	940905	809	0.1+	1.5+
771016	675	1.1−	1.3+	880221	809	0.2+	1.5−	940905	809	0.2−	0.6+
771016	675	0.7−	0.1−	880221	809	0.1+	0.6−	940906	809	0.9+	0.2−
771017	675	0.1+	0.3−	880221	809	0.3−	0.8−	940906	809	0.6+	0.6−
771017	675	0.6+	0.1−	880223	809	0.0	0.1+	940906	809	0.1−	0.7−
771021	675	0.2−	0.3−	880223	809	0.1−	0.2−	970212	689	1.1−	0.6+
771021	675	0.4+	0.8+	880223	809	0.3+	0.6−	970308	809	0.9+	0.6+
771022	675	0.6+	0.2−	900916	801	0.9−	0.1+	970308	809	1.1+	0.6+
771022	675	0.1−	1.2−	900916	801	0.2−	0.3+	970308	809	0.8+	0.9+
840329	675	1.4+	0.0	930419	801	1.2−	0.7−	970309	809	0.7+	1.5+
840329	675	0.4−	1.2−	930424	801	1.3−	1.1−	970309	809	1.2+	1.2+
840330	675	2.0+	0.3+	930424	801	1.4−	0.6−	970309	809	0.7+	0.9+
840330	675	0.2+	0.7−	930618	801	0.5−	1.6−				

1974 FD = 1974 HK = 1950 TK$_1$ = 1981 SX$_4$ = 1986 RS$_7$ = 1988 AO$_4$

Id. C. M. Bardwell (d, *MPC* 5347), T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	90.61579		(2000.0)		**P**	**Q**	
n	0.19007096	ω	273.87624		+0.00159890	+0.99992787	
a	2.9958877	Ω	356.15450		−0.83254246	−0.00526295	
e	0.0753189	i	10.22342		−0.55395893	+0.01079577	
P	5.19	H	13.0	G	0.15	U	2

Residuals in seconds of arc

501013	024	0.2+	1.2−	740424	805	0.3+	0.4−	880113	033	0.3−	0.2+
740322	805	1.0−	0.2+	740425	805	0.9+	0.4+	880113	033	0.3−	0.0
740323	805	1.1+	0.9+	810925	095	0.6+	4.0+				
740422	805	0.3−	0.0	860907	095	1.4−	1.5−				

1977 DL$_2$ = 1997 LR$_{17}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	135.26614		(2000.0)		**P**	**Q**	
n	0.25608773	ω	314.28350		−0.09270711	−0.99378917	
a	2.4558973	Ω	140.91182		+0.93907663	−0.10781634	
e	0.1843580	i	5.60210		+0.33096900	+0.02754481	
P	3.85	H	15.0	G	0.15	U	6

Residuals in seconds of arc

770218	381	0.4+	0.6+	770312	381	0.4−	0.3+	970608	809	1.2+	0.7−
770218	381	0.1−	0.3−	770315	381	0.5+	0.9−	970609	809	0.9−	0.3+
770219	381	0.4+	0.1−	770315	381	0.0	0.6−	970609	809	1.4−	0.8+
770219	381	0.8−	0.2+	970608	809	0.9+	0.4−	970609	809	0.8−	0.4+
770312	381	0.1+	0.6+	970608	809	0.9+	0.3−				

1978 PA_3 = 1978 RP_6 = 1997 GF_{20} = 1997 GW_{43}

Id. B. G. Marsden (d, *MPC* 7139), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	249.45279		(2000.0)			
n	0.29939465	ω	170.36530		+0.93655172	+0.35045704
a	2.2129590	Ω	169.11132		−0.32406253	+0.87340388
e	0.1950746	i	2.16086		−0.13362016	+0.33815016
P	3.29	H	15.0	G	0.15	U 5

Residuals in seconds of arc

780808	095	0.7−	0.4−	780910	809	1.4−	1.3+	970403	704	0.6−	0.3+
780902	809	0.8+	0.2+	780910	809	0.3−	1.0−	970403	704	0.3−	1.0+
780902	809	0.4+	0.2−	780910	809	0.1+	1.2+	970405	704	1.1+	0.5−
780902	809	0.7+	0.4−	780910	809	0.2−	0.9−	970405	704	0.7+	0.1+
780902	809	1.2+	0.7−	970312	809	0.2−	0.4−	970407	704	1.3+	0.4−
780903	095	1.3−	1.6+	970312	809	1.2−	1.0−	970407	704	0.0	0.5+
780906	809	0.7+	0.8−	970312	809	1.1−	0.4+				

1981 EA_{43}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	282.46885		(2000.0)			
n	0.27108487	ω	77.35785		+0.67459238	−0.73807655
a	2.3644630	Ω	330.20683		+0.66674448	+0.61674664
e	0.1970211	i	1.49539		+0.31682318	+0.27361760
P	3.64	H	16.0	G	0.15	U 5

Residuals in seconds of arc

770211	675	1.4−	0.0	810501	413	0.5+	0.8−	970729	910	0.6+	0.2−
770212	675	0.9+	1.2−	810503	413	(3.4−	0.3−)	970729	910	0.6+	0.3−
770214	675	0.1−	0.5−	970727	910	0.3−	0.5−	970810	691	0.1−	0.3+
810302	413	1.2+	1.0+	970727	910	0.1−	0.4−	970810	691	0.2−	0.4+
810311	413	(6.0+	2.6−)	970727	910	0.1−	0.7−	970810	691	0.3−	0.3+
810315	413	1.4−	0.2−	970729	910	0.5+	0.3−				

1985 UY = 1985 UF_2 = 1991 RN_{14} = 1994 ED_9

Id. S. Nakano (d, *MPC* 14158), T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

					P	Q
M	290.72419		(2000.0)			
n	0.15451067	ω	219.20906		+0.79633514	−0.60482501
a	3.4395139	Ω	177.97770		+0.58922994	+0.77345047
e	0.0913972	i	9.93429		+0.13659588	+0.18963408
P	6.38	H	12.0	G	0.15	U 4

Residuals in seconds of arc

850921	095	3.4+	0.8+	910911	675	0.5+	1.3+	940309	691	2.0−	0.8+
851017	010	(10.6−	0.9−)	910911	675	0.0	1.9−	940309	691	0.9+	0.4+
851018	010	(10.1−	2.5−)	910915	675	0.5−	0.5+	940314	675	0.6+	0.9−
851024	046	1.5−	0.9+	910915	675	0.1+	0.5−	940314	675	0.1+	1.3−
851024	046	1.7−	1.4−	940309	691	0.2+	0.6+				

1986 RF_3 = 1975 TF_5 = 1997 OQ

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	332.04486		(2000.0)			
n	0.26352194	ω	142.81772		+0.82227074	+0.56909348
a	2.4094885	Ω	182.49744		−0.53185186	+0.76729111
e	0.1996188	i	2.44411		−0.20249553	+0.29562979
P	3.74	H	15.0	G	0.15	U 4

Residuals in seconds of arc

751014	095	0.2+	0.9−	860912	688	0.5+	1.3+	970726	910	0.2−	0.2−
860906	688	1.3−	0.9−	861002	095	1.8+	0.9+	970727	910	0.0	0.3−
860906	688	1.8−	1.2+	861005	688	1.1−	1.0−	970728	910	0.2+	0.1+
860906	095	1.2+	0.2−	861005	688	1.1−	0.0	970728	910	0.0	0.2−
860912	688	1.4+	0.4−	970726	910	0.1−	0.1−	970728	910	0.3+	0.1+

1987 RZ = 1981 NJ_1 = 1982 UK_{10} = 1991 FF_3

Id. T. Kobayashi (*MPC* 15887), H. Kaneda (*ibid.*), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	240.43862		(2000.0)			
n	0.17230587	ω	227.34605		+0.99210436	+0.12206643
a	3.1984237	Ω	125.62262		−0.10219679	+0.91989988
e	0.2074471	i	2.02953		−0.07269627	+0.37267144
P	5.72	H	13.0	G	0.15	U 2

Residuals in seconds of arc

810702	805	0.8+	1.2+	870919	809	0.2−	0.2−	910320	809	0.4+	1.1+
810702	805	0.3+	0.1−	870919	809	0.5−	0.0	910320	809	0.8+	0.6+
821023	095	0.2+	0.1−	870924	809	1.2+	1.0+	910320	809	1.2+	0.5−
870828	095	0.4+	0.5−	870924	809	0.5+	1.1+	930923	095	0.9+	0.3−
870831	095	0.6+	1.2+	870924	809	0.2−	1.0+	931012	095	1.0−	1.6+
870912	809	0.1−	2.3−	870924	095	0.6+	0.9−	931015	010	0.6+	0.5+
870912	809	1.4−	2.2−	870926	809	0.5+	1.2+	931015	010	0.1+	1.4+
870912	809	0.2−	2.0−	870926	809	0.5+	1.0+	931015	010	0.2+	0.4−
870915	809	1.4−	1.1−	870926	809	0.1+	1.2+	960317	691	0.5−	0.4+
870915	809	1.5−	1.1−	870927	809	0.1−	0.8+	960317	691	0.7−	0.2+
870915	809	1.4−	1.2−	870927	809	0.0	1.0+	960317	691	0.7−	0.4+
870919	809	0.0	0.4−	870927	809	0.1+	0.9+				

1987 RG_1 = 1972 TV_7 = 1989 AP_4 = 1991 TS_{14}

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

					P	Q
M	206.87539		(2000.0)			
n	0.25910838	ω	347.86718		+0.91854320	+0.39529877
a	2.4367730	Ω	348.84549		−0.36087982	+0.83418049
e	0.1852999	i	1.23100		−0.16138200	+0.38455403
P	3.80	H	13.5	G	0.15	U 2

Residuals in seconds of arc

721006	095	0.5−	1.3+	870919	809	0.4−	0.0	870928	809	0.8+	0.5+
870826	095	(3.5+	1.6+)	870919	809	0.3−	0.3+	871001	809	0.4+	0.5+
870901	095	(7.1+	0.2+)	870919	809	0.2−	0.1+	871001	809	0.5+	0.4+
870913	809	0.4−	0.2−	870922	095	1.0−	1.5−	871001	809	0.5+	0.3+
870913	809	0.6−	0.2−	870923	809	0.8+	0.5+	871002	809	0.4−	0.4−
870913	809	0.8+	0.5−	870923	809	0.7+	0.5+	871002	809	0.3−	0.4−
870916	809	0.2−	0.4−	870923	809	0.7+	0.6+	871002	809	1.2−	0.4−
870916	809	0.4−	0.1−	870924	413	2.0−	0.7−	890104	413	0.2+	0.7+
870916	809	0.4−	0.2−	870924	413	0.7+	0.3+	890104	413	(2.0+	4.1−)
870917	809	0.2+	0.1−	870927	809	0.3+	0.2+	911004	691	0.5+	0.8−
870917	809	0.2+	0.0	870927	809	0.3+	0.2+	911004	691	0.6+	0.8−
870918	809	0.3−	0.1+	870927	809	0.4+	0.4+	911004	691	0.7+	0.8−
870918	809	0.4−	0.1+	870928	809	0.4+	0.5+	911005	095	(1.9+	2.8+)
870918	809	0.4−	0.1+	870928	809	0.7+	0.5+	911005	095	1.0−	0.0

1987 VG = 1977 DV$_7$ = 1979 SS$_4$ = 1991 XT$_4$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	177.81855		(2000.0)		**P**		**Q**
n	0.25178607	ω	27.27042		+0.95304483		−0.30245814
a	2.4837903	Ω	350.29921		+0.25910212		+0.84004857
e	0.1980694	i	5.10289		+0.15675343		+0.45037482
P	3.91	H	14.0	G	0.15	U	4

Residuals in seconds of arc

770219	381	0.2+	1.3−	871115	399	2.0−	0.4−		871128	399	0.9+	1.3− Y
770219	381	1.2−	0.7−	871122	399	3.0+	0.9+	Y	911203	675	0.4−	0.9−
790928	095	1.5+	2.1−	871122	399	1.1+	0.5+	Y	911203	675	1.0+	1.4+
871115	399	3.1−	0.0	871122	399	0.5+	1.1+	Y				
871115	399	2.4−	0.5−	871128	399	0.9+	0.9+	Y				

1987 WD = 1983 TJ = 1997 GZ$_{42}$

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	271.12973		(2000.0)		**P**		**Q**
n	0.26525975	ω	307.99948		+0.78350836		+0.62027440
a	2.3989534	Ω	13.79462		−0.51018031		+0.67620580
e	0.1561896	i	8.94435		−0.35472624		+0.39749891
P	3.72	H	13.5	G	0.15	U	3

Residuals in seconds of arc

831005	046	0.0	1.8−	871128	399	1.0+	1.2−		970401	809	(1.8−	3.9−)
831005	046	1.0+	0.1+	871128	399	1.3+	1.0+		970401	809	(2.2−	4.1−)
871117	399	1.0−	2.3+	Y 871209	399	0.6−	1.6−		970506	566	0.3+	0.2+
871117	399	1.9−	0.4+	Y 871209	399	0.9+	1.3−		970506	566	0.5+	0.2+
871122	399	0.6−	1.1+	871209	399	0.3+	1.2−		970506	566	0.7+	0.4+
871122	399	1.0+	0.2−	970401	809	2.5−	2.8−					

1988 GQ = 1995 YK$_{10}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	39.47296		(2000.0)		**P**		**Q**
n	0.23382659	ω	102.82604		−0.69301053		+0.70000204
a	2.6093968	Ω	121.91722		−0.71477319		−0.63596513
e	0.2370255	i	11.72107		−0.09399835		−0.32487768
P	4.22	H	13.5	G	0.15	U	4

Residuals in seconds of arc

880318	675	0.0	0.5+	880412	046	1.1−	1.1+		951218	691	0.5−	0.2−
880318	675	0.4−	0.4−	880414	046	0.1−	0.7−		951223	691	0.0	0.0
880407	046	(3.5+	1.5−)	880414	046	0.2−	0.5−		951223	691	0.2−	0.1+
880407	046	1.8+	0.1+	951218	691	0.1+	0.2+		951223	691	0.1−	0.2−
880412	046	(4.0−	2.5−)	951218	691	0.6+	0.0					

1988 TR = 1977 DP$_{10}$ = 1992 PY$_6$

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	349.81585		(2000.0)		**P**		**Q**
n	0.22250943	ω	244.23927		+0.96334630		−0.26448865
a	2.6971418	Ω	131.06286		+0.26247133		+0.89477048
e	0.1001464	i	3.40859		+0.05543205		+0.35976595
P	4.43	H	12.5	G	0.15	U	5

Residuals in seconds of arc

770219	381	0.0	0.3+	881014	400	1.1−	0.1−		881101	400	0.3+	0.0
770219	381	0.4+	0.6+	881014	400	0.3+	0.3+		881101	400	(3.9+	0.3+)
881013	400	(10.2−	42.6+)	881018	400	1.0−	0.4+		881102	400	1.5+	1.3−
881013	400	(13.5−	40.4+)	881018	400	0.9−	0.1−		881102	400	1.7+	0.1+
881013	400	(3.9+	3.1+)	881018	046	(3.6+	2.4+)		920806	675	0.3−	0.8+
881014	400	0.8−	1.0+	881018	046	(3.3+	2.1+)		920806	675	0.2+	0.4−

1989 AL$_6$ = 1986 EZ$_3$ = 1997 PK

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	296.20075		(2000.0)		**P**		**Q**
n	0.29407338	ω	247.17247		+0.99958601		−0.00125042
a	2.2395748	Ω	112.88920		+0.01226648		+0.92222912
e	0.0896200	i	1.78799		−0.02602565		+0.38664180
P	3.35	H	15.0	G	0.15	U	4

Residuals in seconds of arc

860312	809	0.0	0.0	890114	033	1.1+	0.4+		970801	566	0.6−	0.8+
890108	675	0.2−	0.9−	890202	033	0.5+	0.2+		970803	566	0.8+	0.4−
890108	675	1.1−	1.6+	890203	033	0.1+	0.2+		970803	566	0.2+	0.2−
890111	033	0.2+	0.2+	970801	566	0.7−	1.0+		970803	566	0.8+	0.5−
890111	033	0.2−	0.0	970801	566	0.8−	0.7+					

1989 SJ$_3$ = 1997 GF$_{43}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	115.51683		(2000.0)		**P**		**Q**
n	0.17725913	ω	303.68686		+0.65826077		−0.75171177
a	3.1385591	Ω	105.09253		+0.70374367		+0.59549587
e	0.1981977	i	2.39079		+0.26727814		+0.28339738
P	5.56	H	13.5	G	0.15	U	5

Residuals in seconds of arc

890926	809	1.0+	0.3−	891007	809	0.2−	0.0		970409	704	1.2−	0.3+
890926	809	0.2+	0.3+	891007	809	0.0	0.7+		970409	704	0.8−	0.4−
890926	809	0.3−	1.6−	891007	809	0.2+	0.1+		970410	704	1.6+	0.1−
890928	809	0.7−	1.2+	891008	809	0.2+	0.2−		970410	704	0.5+	0.6−
890928	809	1.2−	0.7+	891008	809	0.1+	0.5+		970410	704	0.2−	0.4+
890928	809	1.9−	0.1−	891008	809	0.6−	0.9−		970410	704	0.2−	1.8+
890929	675	1.4+	0.5−	970409	704	0.5+	0.4−					
890929	675	2.0+	0.3+	970409	704	0.2−	1.1−					

1989 ST$_3$ = 1997 LK$_6$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	242.86310		(2000.0)		**P**		**Q**
n	0.23391643	ω	306.48701		+0.12981387		−0.99085712
a	2.6087286	Ω	136.00895		+0.92580260		+0.10785402
e	0.1114067	i	3.03302		+0.35501817		+0.08105350
P	4.21	H	15.5	G	0.15	U	5

Residuals in seconds of arc

890926	809	0.1+	1.4+	891007	809	0.8−	0.9−		970615	691	0.2−	1.0+
890926	809	0.6−	2.4+	891007	809	0.6+	0.9+		970615	691	0.4−	0.6+
890926	809	0.4−	2.6+	891007	809	0.4+	0.5+		970615	691	0.5−	0.6+
890928	809	0.8−	0.2−	891008	809	1.4+	0.1−		970727	910	0.4+	0.9−
890928	809	1.5−	0.9−	891008	809	0.9+	0.4+		970727	910	0.5+	0.8−
890928	809	2.1−	0.9−	891008	809	1.8+	0.1−		970727	910	0.4+	1.1−
891003	809	0.3+	0.9−	970610	691	0.1+	0.9+		970729	910	0.1+	0.7−

891003	809	0.4+	1.1−	970610	691	0.2−	0.7+	970729	910	0.1+	0.6−
891003	809	0.3−	2.2−	970610	691	0.2−	1.2+	970729	910	0.1−	0.5−

1989 TM_1
Id. B. A. Skiff (1993, 1997 observations)
Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	274.68195	(2000.0)		**P**	**Q**
n	0.23542923	ω	38.06385	+0.50264927	−0.86208012
a	2.5975413	Ω	21.98924	+0.74489139	+0.39403143
e	0.1663542	i	9.92089	+0.43872603	+0.31868025
P	4.19	H	13.5 G 0.15	U	4

Residuals in seconds of arc

890930	675	0.2−	0.2−	891102	877	(3.4+	0.9−)	970706	688	0.2+	0.1−
890930	675	0.4−	0.8−	891102	877	1.8+	0.1−	970706	688	0.0	0.0
891008	877	(1.2+	3.2+)Y	891103	675	1.8−	0.3+	970707	688	0.3−	0.2+
891008	877	(0.2−	4.0+)Y	891103	675	1.4−	1.3−	970707	688	0.1−	0.1−
891009	877	1.5+	0.7−	930921	675	0.5−	0.4+	970707	688	0.2−	0.1−
891009	877	0.6+	1.1+	930921	675	0.1−	0.6+	970707	688	0.3+	0.3−
891029	877	0.3+	1.0+	970706	688	0.7+	0.4−				
891029	877	(0.4+	3.2+)	970706	688	0.2−	0.3+				

1990 QW = 1987 XG_1 = 1996 FM_{23}
Id. T. B. Spahr, G. V. Williams
Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	345.48274	(2000.0)		**P**	**Q**
n	0.28466407	ω	341.61030	+0.86383013	+0.50305868
a	2.2886582	Ω	348.07554	−0.44425739	+0.73538623
e	0.1500255	i	7.51095	−0.23755604	+0.45402540
P	3.46	H	14.0 G 0.15	U	4

Residuals in seconds of arc

871212	054	0.2+	0.3+	900828	095	(2.6−	0.2−)	900924	675	0.5−	0.4+
871212	054	0.3−	0.2+	900914	675	0.5−	0.6−	960320	691	0.0	0.2+
900819	675	1.1+	0.0	900914	675	0.1−	0.4−	960320	691	0.0	0.3+
900819	675	0.5+	0.9+	900915	675	1.5−	0.6−	960320	691	0.2−	0.1+
900821	675	0.4−	1.1−	900915	675	1.0−	1.4−	960320	566	0.6+	0.5+
900821	675	0.1−	0.9−	900922	675	0.9+	1.6+	960320	566	0.5+	0.3+
900828	095	1.2+	2.5+	900922	675	0.4−	1.1+	960320	566	0.1+	0.3+

1990 RY_2 = 1990 SC_{27} = 1997 NC_{11}
Id. S. Nakano (d, *MPC* 20912), G. V. Williams
Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	318.40618	(2000.0)		**P**	**Q**
n	0.12658281	ω	70.06053	+0.97963674	+0.19661246
a	3.9284350	Ω	278.58384	−0.19614580	+0.89390008
e	0.2721928	i	2.35824	−0.04287985	+0.40284759
P	7.79	H	12.5 G 0.15	U	6

Residuals in seconds of arc

900915	675	1.5+	2.5−	900919	675	0.1+	0.2+	970709	327	0.3+	0.1+
900916	675	0.5+	0.1+	900923	095	1.4−	2.0+	970712	327	0.0	0.2−
900916	675	0.2−	0.0	970709	327	0.7−	0.1+	970712	327	0.3+	0.1−
900919	675	0.6−	0.2+	970709	327	0.3−	0.1+	970712	327	0.3+	0.1+

1990 TV_{13} = 1968 TC = 1979 VC
Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	315.87535	(2000.0)		**P**	**Q**
n	0.27118246	ω	339.48466	+0.99226535	−0.10497147
a	2.3638957	Ω	26.80504	+0.12411328	+0.84889516
e	0.1402698	i	8.44926	−0.00231570	+0.51803281
P	3.63	H	13.0 G 0.15	U	4

Residuals in seconds of arc

681015	095	0.3−	0.4+	901014	033	0.2−	0.4−	901024	400	1.8+	1.6+
791110	095	1.1+	1.3−	901014	033	1.0−	0.7−	901024	400	1.1−	1.0+
791111	095	(2.5+	13.0+)	901014	033	0.2−	0.6−	901024	400	(3.0+	1.2−)

1990 TK_{15} = 1950 XD_1 = 1979 SJ_{12} = 1988 CD
Id. B. A. Skiff (1997 observations), E. Bowell, G. V. Williams
Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	298.32165	(2000.0)		**P**	**Q**
n	0.27010732	ω	38.70284	+0.93118820	−0.36304058
a	2.3701644	Ω	342.49701	+0.30117079	+0.81718645
e	0.1284042	i	6.30250	+0.20538912	+0.44766935
P	3.65	H	13.0 G 0.15	U	3

Residuals in seconds of arc

501209	675	0.1−	0.5+	901013	095	0.8+	2.0−	970706	688	0.7−	0.4+
501209	675	0.4−	0.3+	901017	095	0.3−	0.5−	970706	688	0.3+	0.0
790920	049	0.3+	0.2−	901017	095	2.6+	0.2+	970707	688	0.2−	0.2+
790920	049	0.4+	0.1−	901114	095	1.7−	2.7+	970707	688	0.1+	0.2+
880208	372	(8.3−	2.6−)	901114	095	(5.4−	3.5+)	970707	688	0.1+	0.1−
880208	372	(8.6−	2.3−)	970706	688	0.1−	0.2+	970707	688	0.1+	0.2+
901013	095	1.5−	0.9−	970706	688	0.4−	0.1+				

1991 AE_3 = 1991 CV_4 = 1950 QN = 1983 EK_3 = 1988 PF_3 = 1989 TB_9 = 1997 MA
Id. S. Nakano (d, *MPC* 22572), T. B. Spahr
Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	298.54671	(2000.0)		**P**	**Q**
n	0.23026738	ω	218.74631	+0.99621772	+0.06284631
a	2.6362166	Ω	137.53086	−0.03912299	+0.94102842
e	0.1120480	i	5.09865	−0.07758638	+0.33243925
P	4.28	H	13.0 G 0.15	U	2

Residuals in seconds of arc

500817	760(60.9+	10.8+)X		910122	675	1.5−	0.2+	970626	327	0.2−	0.1+
830314	095	0.7+	1.4−	910122	675	0.7−	1.9+	970626	327	0.0	0.0
880804	413	1.6−	0.6−	910209	675	0.2−	1.0−	970626	327	0.4−	0.1−
880804	413	(3.0−	0.7−)	910209	675	0.5+	1.0−	970627	327	0.0	0.0
891007	809	0.3+	1.4−	970616	327	0.8−	0.0	970627	327	0.2+	0.0
891007	809	0.1+	0.4−	970616	327	0.2+	0.6−	970627	327	0.2+	0.1+
891007	809	0.3+	0.1+	970616	327	0.2+	0.4−	970627	327	0.0	0.1+
910115	033	0.4+	0.9−	970617	327	0.4−	0.0	970801	566	0.9+	0.5−
910115	033	0.4+	0.9−	970617	327	0.4−	0.3+	970801	566	0.8+	0.4−
910116	033	0.1−	0.5−	970617	327	0.1−	0.3−	970801	566	0.7+	0.1+

1991 CW_2 = 1981 SS_4 = 1995 GX_8
Id. T. B. Spahr, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

					P	**Q**
M	281.16601		(2000.0)			
n	0.25168480	ω	79.67635		−0.05795409	−0.99776288
a	2.4844565	Ω	13.77833		+0.85243314	−0.06683212
e	0.1269739	i	8.04343		+0.51961435	−0.00164453
P	3.92	H	13.0	G	0.15	U 4

Residuals in seconds of arc

810925	095	0.5+	0.9−	910220	675	1.6+	1.9+	910318	675	0.7− 1.2−
910214	675	1.3+	1.5−	910220	675	0.6+	0.9+	950407	691	0.3+ 0.4+
910214	675	0.6−	0.3−	910312	675	0.7−	1.3−	950407	691	0.1+ 0.3+
910216	675	0.2+	0.9+	910312	675	1.4−	0.9−	950407	691	0.3+ 0.5+
910216	675	0.9−	1.0+	910318	675	0.4−	1.3−			

1991 GH$_5$ = 1997 GT$_{23}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	**Q**
M	312.48157		(2000.0)			
n	0.17176708	ω	74.11415		+0.29909333	+0.95331034
a	3.2051086	Ω	213.38061		−0.90194669	+0.26815579
e	0.1184683	i	4.35128		−0.31150498	+0.13889517
P	5.74	H	14.0	G	0.15	U 5

Residuals in seconds of arc

910408	809	1.9+	0.0	910419	809	0.3−	1.4−	970501	704	0.5+ 0.4+
910408	809	0.5−	1.0+	910419	675	1.0+	0.5+	970501	704	0.0 0.1−
910408	809	0.9−	0.7−	910419	675	1.1+	0.2−	970501	704	0.2+ 0.1−
910410	809	1.2−	1.2+	970406	704	0.3+	0.0	970501	704	0.2+ 0.2−
910410	809	0.6−	0.9+	970406	704	0.2+	0.1−	970507	704	0.1+ 0.2−
910410	809	0.3−	0.4+	970407	704	0.2+	0.3+	970507	704	0.1− 0.6+
910419	809	0.6+	0.7−	970407	704	1.0−	1.3−	970507	704	0.0 1.1+
910419	809	0.6−	0.9−	970501	704	0.2+	0.1−	970507	704	0.7− 0.4−

1991 RE$_{15}$ = 1950 OK = 1974 SY = 1981 TL$_1$

Id. G. V. Williams (*MPC* 19680, unpublished)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

					P	**Q**
M	271.33650		(2000.0)			
n	0.28985302	ω	330.44721		+0.69192269	+0.72087014
a	2.2612617	Ω	343.22709		−0.63233682	+0.57844690
e	0.2211955	i	7.94039		−0.34841518	+0.38176618
P	3.40	H	14.0	G	0.15	U 2

Residuals in seconds of arc

500717	078	0.4+	0.6− Y	910914	675	1.5−	0.4+	970305	809	1.1+ 1.5+
740919	095	2.6−	3.8+	910914	675	1.0−	0.3+	970305	809	0.7+ 1.5+
740921	095	(2.3−	12.1+)	910915	675	0.3+	0.1+	970306	809	(1.7+ 3.7+)
740923	095	(2.7−	4.5+)	910915	675	1.5+	0.4−	970306	809	(1.3+ 4.0+)
811002	095	0.5+	1.5−	910917	675	0.3−	0.6+	970306	809	(1.5+ 3.3+)
910911	675	1.5+	0.3−	910917	675	0.6−	0.1−			
910911	675	0.1+	0.4−	970305	809	0.5+	0.8+			

1991 RK$_{15}$ = 1963 TD = 1977 RL$_5$ = 1984 SR$_7$ = 1997 ET$_{52}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	**Q**
M	236.56859		(2000.0)			
n	0.28050824	ω	334.77601		+0.93122503	+0.36439367
a	2.3112077	Ω	3.86909		−0.31717796	+0.81857781
e	0.1558439	i	5.18549		−0.17949396	+0.44401309
P	3.51	H	14.0	G	0.15	U 4

Residuals in seconds of arc

631013	760	0.7−	0.4+	910914	675	0.4−	0.6−	970308	809	1.2+ 0.5−
631013	760	0.0	0.0	910915	675	0.5−	0.7+	970308	809	0.5+ 0.2−
770909	095	0.5+	0.6+	910915	675	0.2+	0.1−	970308	809	0.9+ 0.1−
840921	010	0.9−	2.2+	910916	675	1.4−	1.1−	970309	809	0.3− 2.3+
910911	675	1.0+	1.1+	910916	675	0.8−	0.1−	970309	809	0.6+ 2.6+
910911	675	0.7−	0.3+	911009	033	0.5+	0.6+	970309	809	0.4+ 2.2+
910914	675	0.1−	0.9−	911009	033	0.7+	2.0+			

1991 SB = 1984 YG$_5$ = 1997 EU$_{54}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	**Q**
M	159.89270		(2000.0)			
n	0.26167846	ω	180.08692		+0.80120251	−0.59783382
a	2.4207916	Ω	216.66807		+0.54904126	+0.75162928
e	0.1329614	i	2.48288		+0.23796689	+0.27865418
P	3.77	H	14.0	G	0.15	U 4

Residuals in seconds of arc

841228	095	0.0	0.1−	910914	675	0.3−	1.1−	911008	400	(3.0+ 2.6+)
910911	675	0.2+	1.5−	910914	675	0.9−	0.3+	911008	400	(3.6+ 0.9+)
910911	675	(0.9−	2.9−)	910914	675	0.0	0.4−	970308	809	0.1+ 0.0
910912	675	0.4+	1.1−	910916	400	0.1+	0.4−	970308	809	1.0+ 0.2−
910912	675	0.6+	0.6+	910916	400	1.5−	0.8+	970308	809	0.2− 1.0−
910913	400	1.3+	1.0+	910916	400	0.7−	0.9+	970309	809	0.5− 0.5+
910913	400	1.5+	0.8+	910930	400	0.1−	0.1+	970309	809	0.4− 0.7+
910914	675	1.0−	0.6−	910930	400	0.5+	0.7+	970309	809	0.0 0.2+

1991 TO = 1997 LA$_{14}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	**Q**
M	244.12546		(2000.0)			
n	0.29066679	ω	246.53602		+0.98559370	−0.15113399
a	2.2570392	Ω	122.07799		+0.16831291	+0.92054318
e	0.1150568	i	5.14045		−0.01660814	+0.36022046
P	3.39	H	15.5	G	0.15	U 6

Residuals in seconds of arc

910912	675	0.1−	1.2−	911005	413	0.0	0.1+	970608	809	0.2+ 0.8+
910912	675	0.3+	0.5+	911015	413	1.1+	0.1−	970609	809	0.1+ 0.6−
911001	413	0.3+	0.1−	970608	809	0.1+	1.1+	970609	809	0.9− 0.4−
911002	413	1.7−	0.8+	970608	809	0.7+	0.8+	970609	809	0.2− 1.6−

1991 UR$_1$ = 1980 TT$_9$ = 1996 BF$_2$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

					P	**Q**
M	186.84537		(2000.0)			
n	0.27156932	ω	9.77418		+0.61971090	−0.78450602
a	2.3616503	Ω	41.93552		+0.71776934	+0.55490116
e	0.1539760	i	1.93408		+0.31743594	+0.27683030
P	3.63	H	14.5	G	0.15	U 5

Residuals in seconds of arc

801013	095	0.4+	0.9−	911102	400	0.4+	0.5+	911107	691	1.0− 0.2−
911017	675	0.4+	0.1+	911102	400	0.9+	1.2+	960118	399	1.0− 0.5+
911029	400	0.7+	1.6−	911105	095	0.2−	0.8+	960118	399	0.6− 0.8+
911029	400	(3.3−	2.7−)	911105	095	(6.7−	3.6−)	960121	399	0.4+ 0.4−
911031	400	(2.6+	0.9+)	911107	691	0.7−	0.0	960121	399	1.1+ 1.4−
911031	400	0.1+	0.3+	911107	691	0.8−	0.3−			

1991 YW = 1995 WW$_{31}$ = 1997 LS$_{16}$

Id. T. Kobayashi, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	202.37531		(2000.0)		**P**	**Q**	
n	0.26340747	ω	274.61206		+0.69914323	−0.71146069	
a	2.4101865	Ω	130.76361		+0.68747652	+0.64170871	
e	0.1356515	i	5.36889		+0.19640463	+0.28641511	
P	3.74	H	14.5	G	0.15	U	5

Residuals in seconds of arc

911229	511	0.1+	1.1−	951119	691	0.6+	0.2−	970608	809	0.6+	0.4−
911229	511	0.3−	1.5−	951119	691	0.4+	0.3−	970609	809	0.2−	1.4+
911230	511	(2.3+ | 0.2−)	951120	691	0.7−	0.3+	970609	809	0.2+	0.2+
911230	511	1.5+	1.3+	951120	691	0.6−	0.0	970609	809	0.1+	1.4+
920104	511	1.3−	1.1+	951120	691	0.5−	0.2+	970629	691	0.5−	1.3−
920104	511	(4.4− | 0.8−)	970608	809	1.1+	0.2−	970629	691	0.6−	0.8−
951119	691	0.7+	0.1−	970608	809	0.5−	0.2+	970629	691	0.3−	1.1−

1992 CN$_3$ = 1969 EL = 1986 KM = 1990 SN$_{20}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	170.07301		(2000.0)		**P**	**Q**	
n	0.29805049	ω	332.40825		−0.99336209	+0.11045422	
a	2.2196074	Ω	213.98044		−0.09208552	−0.93092950	
e	0.0852671	i	3.29445		−0.06893492	−0.34809501	
P	3.31	H	14.0	G	0.15	U	2

Residuals in seconds of arc

690312	095	0.5+	1.4+	920130	809	(0.9+ | 3.0+)	920207	809	0.4−	0.4+
860529	095	0.1−	0.9−	920202	809	0.2−	1.2−	920212	809	1.4+	0.1+
900920	675	0.8−	0.1−	920202	809	0.8−	1.3−	920212	809	0.0	0.8+
900920	675	0.8+	0.3+	920202	809	1.1−	1.4−	920212	809	1.2−	0.9+
920124	399	(6.0− | 0.8+)	920207	809	1.0+	0.1−				
920124	399	(4.2− | 3.2+)	920207	809	0.8+	0.2+				

1992 DZ$_5$ = 2228 T-1

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	131.00829		(2000.0)		**P**	**Q**	
n	0.23333351	ω	313.34698		−0.18911278	−0.98141355	
a	2.6130716	Ω	147.51198		+0.91758031	−0.18844589	
e	0.1976332	i	3.48133		+0.34968949	−0.03627106	
P	4.22	H	15.0	G	0.15	U	6

Residuals in seconds of arc

710324	675	0.5+	2.2−	710327	675	0.8−	1.5+	920307	809	0.8+	0.0
710325	675	0.3+	1.4−	710402	675	0.6+	0.8+	920406	809	0.1−	0.4+
710325	675	0.1+	0.8+	920229	809	0.1+	0.2−				
710326	675	0.9−	0.0	920303	809	0.7−	0.1+				

1992 ES$_5$ = 1997 CC$_{19}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	160.36773		(2000.0)		**P**	**Q**	
n	0.19125154	ω	222.62007		+0.99216544	−0.01498181	
a	2.9835461	Ω	137.75182		+0.04774997	+0.96288239	
e	0.0921930	i	10.63042		−0.11544554	+0.26950518	
P	5.15	H	12.5	G	0.15	U	5

Residuals in seconds of arc

920302	809	0.9+	0.1−	970201	327	0.1+	0.1+	970206	327	0.6−	0.2−
920305	809	0.3+	0.6+	970201	327	0.1+	0.2+	970206	327	0.6+	0.1−
920307	809	1.2−	0.5−	970201	327	0.0	0.1−				
920404	809	0.0	0.0	970206	327	0.1−	0.2+				

1992 EZ$_6$

Id. E. Bowell (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	9.72443		(2000.0)		**P**	**Q**	
n	0.24185494	ω	151.90132		+0.20946734	+0.96624717	
a	2.5513267	Ω	129.78237		−0.92971682	+0.24431705	
e	0.2334586	i	11.25327		−0.30290274	−0.08170428	
P	4.08	H	14.5	G	0.15	U	3

Residuals in seconds of arc

920227	691	1.0−	1.0−	920404	809	1.2+	0.6+	970706	688	0.2+	0.5−
920227	691	0.1−	0.7−	930814	675	0.5+	1.0−	970707	688	0.2+	0.5−
920227	691	0.2−	0.5−	930814	675	0.4−	0.4+	970707	688	0.1−	0.3+
920301	809	0.3+	0.6+	970706	688	0.0	0.2−	970707	688	0.1−	0.3+
920304	809	0.0	0.1−	970706	688	0.0	0.2+	970707	688	0.1+	0.3+
920309	809	0.4−	0.4+	970706	688	0.4−	0.0				

1992 EG$_8$ = 1979 SY$_6$ = 1979 TY

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	101.65869		(2000.0)		**P**	**Q**	
n	0.18626387	ω	215.00768		+0.81587368	−0.57823017	
a	3.0365724	Ω	180.31851		+0.53356293	+0.75289915	
e	0.1748454	i	0.77715		+0.22284688	+0.31431312	
P	5.29	H	12.5	G	0.15	U	5

Residuals in seconds of arc

790923	095	0.1+	0.6−	920225	675	0.9+	1.4−	920307	809	0.2+	0.8+
791014	095	0.1−	0.5+	920302	809	0.4−	0.6+	920406	809	0.2−	0.7−
920225	675	1.6−	0.2+	920304	809	0.9+	0.3+				

1992 HY$_6$ = 1976 KF$_2$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	171.06892		(2000.0)		**P**	**Q**	
n	0.30346802	ω	164.26202		−0.26779854	+0.95955645	
a	2.1931117	Ω	90.14377		−0.89307276	−0.21341282	
e	0.1455786	i	4.97993		−0.36153144	−0.18359300	
P	3.25	H	15.5	G	0.15	U	5

Residuals in seconds of arc

760529	413	0.1−	0.5−	920429	033	0.1−	0.2−	920504	033	0.0	0.0
760529	413	0.1−	0.3−	920429	033	0.1+	0.1−	920505	033	0.1−	0.3−
760530	413	0.2+	0.7+	920430	033	0.1+	0.5+				
760530	413	0.1+	0.1+	920503	033	0.1+	0.1+				

1992 PD$_2$ = 1987 SN$_{19}$ = 1988 XJ$_2$

Id. K. Ichikawa (*MPC* 20934), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	350.23538		(2000.0)		**P**	**Q**	
n	0.18932438	ω	85.94463		+0.37661018	+0.92477558	
a	3.0037586	Ω	206.38527		−0.89105896	+0.34558266	
e	0.2039400	i	7.02594		−0.25333518	+0.15925687	
P	5.21	H	12.5	G	0.15	U	2

Residuals in seconds of arc

870917	095	0.7−	1.3+	920731	675	0.2−	0.6−	960323	566	2.0−	0.4−
870923	095	0.5+	0.1+	920731	675	0.3−	0.6−	960323	566	0.5−	1.1−
881215	372	1.4+	1.9−	920802	675	0.2−	0.6−	970610	689	1.6+	1.7−
910414	675	0.2+	0.6+	920802	675	0.0	0.5−	970623	689	1.3+	0.1−
910414	675	0.0	0.1+	920806	675	0.4−	1.1−	970624	689	0.7−	0.5−
910416	675	1.2+	0.2+	920806	675	0.3−	0.2−	970707	476	1.2+	2.5+
910416	675	1.0+	0.9+	960323	566	1.2−	1.3−	970709	689	1.4−	0.4−

1992 SW$_{16}$ = 1991 GG$_3$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	106.02290		(2000.0)		**P**	**Q**	
n	0.23457656	ω	51.98007		+0.13199712	+0.99114645	
a	2.6038321	Ω	225.61149		−0.91562445	+0.11637389	
e	0.1715900	i	1.14937		−0.37974812	+0.06392051	
P	4.20	H	15.5	G	0.15	U	5

Residuals in seconds of arc

910408	809	0.3+	0.7−	910410	809	0.6−	0.0	920926	033	0.0	0.2−
910408	809	0.1−	0.5+	920921	033	0.6+	0.1−	920927	033	0.3+	0.7−
910408	809	0.0	0.4−	920922	033	1.1−	0.3+	920928	033	0.2+	0.1+
910410	809	0.9+	0.2+	920924	033	0.2+	0.3+				
910410	809	0.4−	0.4+	920924	033	0.1−	0.3+				

1993 FH$_{16}$ = 1997 LO$_{15}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	83.95709		(2000.0)		**P**	**Q**	
n	0.26765459	ω	38.40213		−0.81897937	−0.57119878	
a	2.3846222	Ω	106.67810		+0.51132206	−0.76979314	
e	0.1218203	i	3.28041		+0.26042761	−0.28486921	
P	3.68	H	14.5	G	0.15	U	6

Residuals in seconds of arc

930317	809	0.4−	0.0	970608	809	0.3−	0.5+	970609	809	0.6−	0.6+
930318	809	0.0	0.2+	970608	809	0.5−	0.6−	970609	809	0.1−	0.2−
930323	809	0.6+	0.1+	970608	809	0.2+	0.9−				
930416	413	0.3−	0.4−	970609	809	1.3+	0.7+				

1993 FY$_{37}$ = 1991 VQ$_4$ = 1997 NS$_{10}$

Id. G. V. Williams, E. Bowell

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	241.60938		(2000.0)		**P**	**Q**	
n	0.28433473	ω	211.43096		+0.92650606	−0.37608477	
a	2.2904252	Ω	170.63658		+0.35883299	+0.87339850	
e	0.1864556	i	4.27048		+0.11324933	+0.30941124	
P	3.47	H	14.0	G	0.15	U	4

Residuals in seconds of arc

911113	894	0.3+	0.2−	930414	691	3.3−	3.0−	970703	688	0.5+	0.5+
911113	894	0.4−	0.6+	930414	691	0.2+	0.8−	970703	688	0.5+	0.3+
911114	894	0.2−	1.2−	970702	688	0.8+	0.0	970703	688	0.3+	0.3+
911114	894	0.2+	1.4+	970702	688	0.3+	0.4+	970708	691	0.7−	0.1+
930319	809	0.3−	2.2+	970702	691	0.2−	0.0	970708	691	0.7−	0.4−
930320	809	0.7+	1.4+	970702	688	0.7+	0.4+	970708	691	0.9−	0.4−
930324	809	0.9+	0.6+	970702	688	0.6+	0.3+				
930414	691	1.9+	0.4−	970702	691	0.9−	0.3−				

1993 FC$_{46}$ = 1997 HZ$_{11}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	330.02970		(2000.0)		**P**	**Q**	
n	0.26025368	ω	32.12628		+0.07514483	+0.99715591	
a	2.4296187	Ω	242.18384		−0.91626352	+0.06676159	
e	0.1742400	i	0.37408		−0.39346463	+0.03497113	
P	3.79	H	16.0	G	0.15	U	5

Residuals in seconds of arc

930319	809	0.5+	0.5+	970408	704	0.2+	0.8+	970501	704	0.3+	0.2−
930320	809	2.2+	0.7+	970408	704	0.9−	1.0+	970501	704	0.4+	0.5−
930324	809	0.4+	0.5−	970408	704	0.9−	0.9−	970501	704	0.3+	0.2+
930326	691	1.4−	0.7−	970430	704	0.1+	0.2−	970505	704	0.5+	0.5−
930326	691	1.3−	1.1−	970430	704	0.5−	0.3+	970505	704	0.6−	0.4−
930326	691	1.4−	0.7−	970430	704	0.4−	0.3+	970505	704	0.3−	0.2+
930417	413	1.1+	1.7+	970430	704	0.5−	0.8+	970505	704	0.1+	0.3−
970406	704	0.5+	0.4+	970430	704	0.0	0.4+	970505	704	0.1−	0.0
970406	704	0.1−	0.2+	970501	704	0.4+	0.6−				
970408	704	1.5+	0.2−	970501	704	0.2+	0.6−				

1993 HR = 1971 UX$_2$ = 1983 EK$_4$ = 1985 SJ$_6$ = 1985 VM$_1$ = 1988 GJ$_2$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	227.95591		(2000.0)		**P**	**Q**	
n	0.20993574	ω	296.65014		+0.71528893	+0.69744325	
a	2.8037877	Ω	19.23331		−0.58427500	+0.63138109	
e	0.1483989	i	7.67324		−0.38338553	+0.33901449	
P	4.69	H	12.0	G	0.15	U	2

Residuals in seconds of arc

711027	095	0.1+	0.2−	930416	400	(0.2+	3.8+)	930501	809	0.2−	0.3−
830309	688	(0.9+	4.8+)	930416	400	0.7−	2.4+	930501	809	0.0	0.6−
830309	688	0.4+	0.5−	930420	400	0.4+	0.7+	930501	809	0.4+	0.5−
850921	095	2.4+	0.6+	930420	400	1.4+	0.5+	930513	361	2.3−	0.1+
851107	688	1.6−	0.8−	930427	809	2.1+	2.0−	930513	361	0.1−	2.0+
851107	688	0.3−	0.5−	930427	809	(2.5+	1.9−)	930514	361	0.2−	0.1+
880413	054	0.8−	0.3+	930427	809	(3.2+	1.9−)	930514	361	1.9−	1.4−
930324	675	0.3+	0.4+	930429	400	(0.1+	2.5+)				
930324	675	0.7+	1.4−	930429	400	0.1−	0.7−				

1993 QE$_1$ = 1979 DZ = 1989 RX$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	325.88174		(2000.0)		**P**	**Q**	
n	0.22985742	ω	191.99449		+0.71861340	+0.66353178	
a	2.6393503	Ω	124.40442		−0.61535697	+0.74615681	
e	0.1636481	i	14.61152		−0.32392989	+0.05454896	
P	4.29	H	13.0	G	0.15	U	3

Residuals in seconds of arc

790225	033	0.1+	0.8+	930817	675	0.4−	0.9−	930822	675	(2.3+	5.0+)
790225	033	0.3+	0.2+	930817	675	0.5−	0.1−	930914	675	0.7+	1.2−
890904	413	0.6−	1.4+	930819	675	0.3+	0.7+	930914	675	1.0−	1.9−

930815 675 0.2− 0.6− 930819 675 0.5− 1.9+ 930916 675 1.3+ 0.5−
930815 675 0.1− 0.0 930822 675 0.5+ 1.9+ 930916 675 (2.4+ 1.3−)

1993 QX$_4$ = 1987 DW$_4$ = 1975 EW$_4$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	191.74395		(2000.0)		**P**	**Q**	
n	0.23998192	ω	321.38010		−0.53388463	−0.84089115	
a	2.5645846	Ω	160.38491		+0.82648862	−0.54111957	
e	0.0498834	i	15.32245		+0.17856025	−0.00957485	
P	4.11	H	12.5	G	0.15	U	4

Residuals in seconds of arc

750315 095 0.1+ 0.9+ 930816 010 0.7− 0.2+ 930819 675 1.6− 0.5+
870228 010 0.6− 0.6+ 930816 010 0.7+ 0.4+ 930822 675 0.1+ 0.6−
870228 010 0.6+ 1.1− 930817 010 1.6+ 0.7− 930822 675 0.0 0.2−
870228 010 0.1+ 1.0+ 930819 010 1.4+ 0.6+ 930912 675 (3.1− 2.8−)
930813 675 0.1− 0.2+ 930819 010 1.3+ 0.2+ 930912 675 1.9− 0.0
930813 675 0.7− 0.6+ 930819 010 1.3+ 0.3−
930816 010 0.5− 0.8+ 930819 675 1.1− 0.1−

1993 SB$_1$ = 1950 TC$_1$ = 1982 RC$_3$ = 1988 JV$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	102.97819		(2000.0)		**P**	**Q**	
n	0.27514299	ω	282.41459		+0.08121856	+0.99659109	
a	2.3411563	Ω	352.20051		−0.86797988	+0.06358002	
e	0.0290077	i	6.12621		−0.48991271	+0.05257165	
P	3.58	H	13.0	G	0.15	U	2

Residuals in seconds of arc

501013 024 0.1− 0.2+ 930916 400 1.2− 0.2+ 931011 400 0.3+ 0.3−
820913 095 0.0 0.0 930916 400 0.8+ 0.1+ 931011 400 0.4+ 0.3+
880511 413 0.8+ 0.1− 930918 400 1.0+ 1.2+ 931014 675 0.6− 0.2−
880511 413 0.5− 0.7+ 930918 400 (2.9− 1.9+) 931014 675 0.8− 0.9−

1993 SO$_{14}$ = 1992 EM$_{14}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	68.01742		(2000.0)		**P**	**Q**	
n	0.26221056	ω	85.91554		−0.11708898	+0.99311896	
a	2.4175155	Ω	177.35727		−0.92915729	−0.10876046	
e	0.2210279	i	2.75140		−0.35065210	−0.04342685	
P	3.76	H	16.0	G	0.15	U	6

Residuals in seconds of arc

920301 809 1.8+ 0.4− 930916 809 0.5− 0.2− 930923 809 0.6+ 0.2−
920303 809 0.7− 1.1+ 930916 809 0.9+ 0.5+ 930923 809 1.2+ 1.3+
920306 809 (5.4+ 0.5−) 930918 809 0.5− 0.2− 930923 809 1.0− 0.1+
920309 809 1.1− 0.9− 930918 809 0.2− 0.9−
930916 809 0.3− 0.1− 930918 809 0.1− 0.3−

1993 SB$_{15}$ = 1989 YF$_6$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	262.72489		(2000.0)		**P**	**Q**	
n	0.22367883	ω	295.57160		+0.44385734	−0.87676747	
a	2.6877330	Ω	126.81972		+0.88254265	+0.39191763	
e	0.1627442	i	13.37058		+0.15527114	+0.27871021	
P	4.41	H	13.0	G	0.15	U	5

Residuals in seconds of arc

891228 511 1.8− 0.7− 891230 511 (0.0 3.1−) 930920 675 1.3− 0.2−
891228 511 0.0 0.6− 891230 511 2.1+ 0.8− 930920 675 0.6− 0.1+
891228 511 1.1+ 0.9− 891230 511 0.2+ 0.2+ 930921 675 1.3+ 0.4−
891229 511 1.3− 0.1+ 891231 511 (3.8+ 0.5−) 930921 675 0.6− 0.6+
891229 511 0.1− 1.5+ 930919 675 0.1− 0.2− 931010 675 1.1+ 0.1+
891230 511 0.3− 1.0+ 930919 675 0.8+ 0.5− 931010 675 0.6− 0.5+

1993 TE$_3$ = 1972 TS$_6$ = 1979 WZ$_4$ = 1986 TT$_{10}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	41.67703		(2000.0)		**P**	**Q**	
n	0.28146877	ω	335.20314		+0.97383690	+0.22532909	
a	2.3059465	Ω	11.88772		−0.17723032	+0.83424923	
e	0.1184297	i	8.22512		−0.14223608	+0.50324450	
P	3.50	H	13.5	G	0.15	U	5

Residuals in seconds of arc

721006 095 1.5− 3.1+ 931012 400 0.6− 2.4− 931024 691 1.3− 0.3−
791117 095 0.6+ 0.8− 931013 675 1.1− 1.1− 931024 691 1.2− 0.1−
861003 095 0.7− 0.0 931013 675 0.0 2.0− 931024 691 1.3− 0.1−
931010 675 0.8+ 2.0+ 931014 675 0.1− 0.8− 931109 691 0.4+ 0.6+
931010 675 2.2+ 1.7+ 931014 675 0.5− 0.4+ 931109 691 0.4+ 0.6+
931011 400 1.4+ 0.4− 931015 675 0.4+ 0.9− 931109 691 0.3+ 0.6+
931011 400 0.6− 1.2− 931019 400 0.8+ 1.7+
931012 400 0.9+ 0.4+ 931019 400 0.9+ 1.2−

1993 TS$_{36}$ = 1989 UB$_9$ = 1989 WA$_5$

Id. G. V. Williams, S. Nakano (d)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	280.76583		(2000.0)		**P**	**Q**	
n	0.23660395	ω	357.61465		+0.44942737	−0.86487794	
a	2.5889365	Ω	65.60396		+0.82361351	+0.30423302	
e	0.2300327	i	14.21331		+0.34594194	+0.39928489	
P	4.17	H	13.5	G	0.15	U	4

Residuals in seconds of arc

891025 095 0.0 0.4+ 930920 675 0.1+ 1.2+ 931013 675 1.5+ 0.3+
891120 095 1.6− 2.0− 930922 675 0.4− 0.5− 931015 675 0.5+ 0.3−
891124 095 1.5+ 1.9+ 930922 675 0.3− 1.0− 931015 675 0.3+ 0.9−
930920 675 0.6− 0.8+ 931013 675 1.1− 0.0

1994 AL$_1$

Id. M. W. Buie (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	78.57185		(2000.0)		**P**	**Q**	
n	0.38164044	ω	53.80101		−0.81067191	−0.35050467	
a	1.8823474	Ω	101.29899		+0.25043839	−0.93162333	
e	0.1665976	i	28.57221		+0.52923687	−0.09604403	
P	2.58	H	15.5	G	0.15	U	4

Residuals in seconds of arc

940108 675 (0.5+ 2.8−) 940114 385 0.1+ 0.2+ 970514 688 0.2+ 0.3+
940108 675 0.2+ 0.8− 940114 385 0.2− 0.9+ 970514 688 0.1+ 0.5+
940109 675 0.6+ 1.3− 940125 360 0.2− 0.0 970527 688 0.7+ 0.0
940109 675 1.0+ 2.0− 940125 360 0.5− 0.2− 970527 688 0.2+ 0.2−
940111 385 0.0 0.7+ 940130 360 0.4− 0.4+ 970527 688 0.4− 0.7−
940111 385 0.1− 0.7+ 940130 360 0.4− 0.2+ 970527 688 1.0− 0.3−

940111 385	0.2−	0.7+	940304 360	0.1−	0.6−		
940114 385	0.4+	0.4+	940304 360	0.4−	0.1−		

1994 CF_2 = 1971 DK = 1986 UW_1

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	235.08451		(2000.0)		**P**		**Q**
n	0.17386001	ω	356.69998		−0.48458134		−0.87412001
a	3.1793347	Ω	122.28262		+0.80345759		−0.45973011
e	0.1543604	i	2.24333		+0.34588557		−0.15672408
P	5.67	H	13.0	G	0.15	U	4

Residuals in seconds of arc

710218 095	0.5+	1.8+	940212 809	0.6+	1.5+	940217 411	1.0−	0.1−	
861027 010	1.4−	0.0	940212 809	0.4−	1.0+	940217 411	0.9−	0.1+	
861027 010	1.5+	0.2−	940212 411	0.1−	0.1+	940302 411	1.9+	0.3+	
940207 809	1.0+	1.0−	940212 411	0.7−	0.3−	940302 411	0.4−	0.0	
940207 809	0.1+	1.8−	940213 411	0.4−	0.0	940302 411	0.5+	0.8−	
940207 809	1.4−	1.7−	940213 411	0.5−	1.1−	940310 411	0.3+	0.7+	
940209 809	0.5+	0.2−	940213 411	0.2−	0.1+	940310 411	0.5−	0.6+	
940209 809	1.0+	0.4−	940215 675	0.9−	0.2−	940310 411	0.2+	0.6+	
940209 809	0.0	1.0−	940215 675	0.8−	0.8−				
940212 809	1.3+	1.6+	940217 411	0.1+	1.0+				

1994 CM_{13} = 1976 SA_3 = 1976 UY_{20} = 1980 TB_9

Id. T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	112.34053		(2000.0)		**P**		**Q**
n	0.25154112	ω	325.45720		+0.97735026		+0.20670843
a	2.4854025	Ω	22.74209		−0.15784899		+0.85482477
e	0.1458525	i	6.73929		−0.14096161		+0.47596874
P	3.92	H	14.0	G	0.15	U	5

Residuals in seconds of arc

760924 095	1.3−	0.5−	940210 809	1.2−	1.3+	940309 010	0.4+	2.2−	
761025 095	2.7+	1.6−	940210 809	1.3−	1.0+	940309 010	0.8+	2.0−	
801013 095	0.6−	1.1+	940210 809	0.6−	1.2+	940309 010	(0.0	3.0−)	
940208 809	0.8+	1.8+	940213 809	0.6+	0.1−	940310 010	(5.1−	3.6−)	
940208 809	1.0+	1.7+	940213 809	0.2+	1.7−	940310 010	(3.7−	1.2−)	
940208 809	0.2−	1.6+	940213 809	0.5+	0.8−	940310 010	1.4−	2.5−	

1994 PU = 1955 UE_1 = 1992 BE_6

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	261.04509		(2000.0)		**P**		**Q**
n	0.30150198	ω	66.57146		+0.79191313		−0.60988751
a	2.2026353	Ω	330.98290		+0.53508340		+0.71689896
e	0.1334013	i	3.56711		+0.29420972		+0.33777671
P	3.27	H	14.5	G	0.15	U	4

Residuals in seconds of arc

551025 760	0.1+	1.4−	940814 411	0.2+	0.2−	940827 411	0.3+	0.3+	
551025 760	0.6+	0.5−	940815 411	0.8−	0.0	940827 411	0.4+	0.0	
920129 691	0.1−	1.3+	940815 411	0.7−	0.3+	940901 411	0.1−	0.2+	
920129 691	0.3−	0.7+	940815 411	0.8−	0.9+	940901 411	0.2−	0.2−	
920129 691	0.3−	0.7+	940817 411	0.8+	0.3−				
940814 411	0.3−	0.2+	940817 411	0.3+	0.2+				

1994 PW_{20} = 1997 ES_{49}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	7.71074		(2000.0)		**P**		**Q**
n	0.21696163	ω	204.49590		−0.98294040		+0.18318195
a	2.7429260	Ω	346.02929		−0.15545249		−0.87539719
e	0.0238273	i	3.92092		−0.09829896		−0.44735236
P	4.54	H	13.5	G	0.15	U	5

Residuals in seconds of arc

940812 809	1.5+	0.2+	940905 809	0.7−	0.6−	970305 809	0.2+	0.6−	
940812 809	0.5+	0.6+	940905 809	0.4+	0.1+	970305 809	0.1−	1.0−	
940812 809	0.1+	0.4+	940905 809	0.5−	0.7−	970305 809	0.0	1.0−	
940813 809	0.5−	0.4−	940906 809	0.6+	0.0	970306 809	0.6+	1.2+	
940813 809	0.5−	0.0	940906 809	0.2+	0.3+	970306 809	0.4−	0.7+	
940813 809	1.1−	0.8−	940906 809	0.1+	0.8+	970306 809	0.5−	0.6+	

1994 PY_{21} = 1997 GE_{44}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	336.33959		(2000.0)		**P**		**Q**
n	0.26985523	ω	118.84969		−0.14764004		+0.98845027
a	2.3716403	Ω	142.61126		−0.92591262		−0.12598393
e	0.1323832	i	3.22714		−0.34768985		−0.08422658
P	3.65	H	15.0	G	0.15	U	5

Residuals in seconds of arc

940812 809	1.4+	1.1+	940905 809	0.4−	2.0−	970406 704	0.8+	0.3+	
940812 809	1.6+	0.7+	940906 809	0.8+	0.6−	970406 704	0.8+	0.4+	
940812 809	1.5+	1.7+	940906 809	0.2+	1.0−	970408 809	1.4−	0.6−	
940813 809	2.1−	0.4−	940906 809	0.4+	1.2−	970408 809	1.7−	1.3−	
940813 809	1.2−	1.5−	940911 675	0.5+	1.2+	970408 809	2.1−	1.8−	
940813 809	0.7−	0.3−	940911 675	0.8+	3.4+	970408 704	0.8+	1.2+	
940905 809	1.6−	0.4−	970406 704	2.0+	1.0+	970408 704	0.1+	0.7+	
940905 809	1.1−	0.7−	970406 704	0.9+	0.2+				

1994 PL_{22} = 1997 EU_{53}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	125.85406		(2000.0)		**P**		**Q**
n	0.19724920	ω	263.32866		+0.40696466		−0.91335869
a	2.9227559	Ω	162.64078		+0.85372355		+0.37546414
e	0.0939854	i	2.39675		+0.32486284		+0.15748839
P	5.00	H	13.5	G	0.15	U	4

Residuals in seconds of arc

940812 809	0.5−	0.5−	940905 809	0.2−	0.1+	970308 809	0.6−	0.7−	
940812 809	0.4−	0.0	940905 809	0.1+	0.0	970308 809	1.2−	0.9−	
940812 809	0.0	0.6+	940905 809	0.9−	0.5−	970308 809	0.2−	0.7−	
940813 809	1.0+	0.1−	940906 809	0.9+	0.3+	970309 809	0.7+	1.4+	
940813 809	0.5+	0.2+	940906 809	0.4+	0.1−	970309 809	0.6+	0.1+	
940813 809	0.7−	0.2−	940906 809	0.3−	0.1+	970309 809	0.8+	0.8+	

1994 RN_5 = 1997 LS_{14}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	344.76569		(2000.0)		**P**		**Q**
n	0.26007969	ω	62.36838		−0.14232039		+0.98968350
a	2.4307022	Ω	199.47037		−0.92467355		−0.13887404
e	0.1031426	i	2.83338		−0.35316246		−0.03522172
P	3.79	H	15.5	G	0.15	U	5

Residuals in seconds of arc

940911	691	0.9+	0.4−	940913	691	0.1+	0.1−	941005	658	0.8+	0.2−
940911	691	0.1+	0.4+	940928	691	0.7−	0.5+	941005	658	0.9+	0.0
940911	691	0.4+	0.5+	940928	691	0.3−	0.3+	970608	809	0.0	0.5+
940912	691	0.1+	0.3+	940928	691	1.4−	1.6−	970608	809	0.7−	0.5+
940912	691	0.1−	0.2+	940929	691	0.4−	0.4+	970608	809	0.1−	0.1−
940912	691	0.4−	0.0	940929	691	0.2−	0.4+	970609	809	0.7+	0.3−
940913	691	0.4−	0.7+	940929	691	0.1−	0.2+	970609	809	0.8+	0.5−
940913	691	0.1−	1.7−	941005	658	0.9+	0.0	970609	809	0.8−	0.1−

1994 RA_{11} = 1954 PT = 1976 SA_{11} = 1997 ES_{54}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	311.87635			(2000.0)		**P**		**Q**	
n	0.27173034	ω	304.32381		+0.15778870		+0.98729813		
a	2.3607172	Ω	334.73538		−0.89108904		+0.13425549		
e	0.2262245	i	2.49471		−0.42551504		+0.08495797		
P	3.63	H	14.5	G	0.15	U	2		

Residuals in seconds of arc

540804	675	0.1−	0.1+	940901	399	2.4−	0.9+	940909	399	0.8−	0.5−
540804	675	0.2+	0.2−	940901	399	1.8−	0.3−	970308	809	0.6+	0.1−
760929	095	0.3−	0.0	940903	809	2.6+	2.6+	970308	809	0.2+	0.6+
940810	809	0.5+	0.1−	940903	809	2.1+	2.1+	970308	809	0.0	0.1+
940810	809	0.1+	0.2+	940903	809	1.6+	2.6+	970309	809	0.1−	0.9+
940810	809	0.4−	0.1+	940904	809	0.5+	0.2−	970309	809	0.0	0.4+
940811	809	0.4+	2.7−	940904	809	1.0+	0.1−	970309	809	0.2+	0.2+
940811	809	0.8−	1.3−	940904	809	0.0	0.2−				
940811	809	0.6−	1.5−	940909	399	2.7−	0.2−				

1994 TA_1 = 1997 GF_{16}

Id. T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	229.70360			(2000.0)		**P**		**Q**	
n	0.21766124	ω	329.67746		+0.94755076		+0.25543887		
a	2.7370453	Ω	18.75792		+0.02288403		+0.54525537		
e	0.1851327	i	36.68031		−0.31878499		+0.79840314		
P	4.53	H	13.5	G	0.15	U	4		

Residuals in seconds of arc

941002	400	1.1−	0.1+	941011	675	1.6−	0.5+	970406	704	0.8+	0.1−
941002	400	0.3−	0.4+	941011	397	0.5−	1.0+	970406	704	0.2+	0.3−
941003	400	(0.6− | 3.3−)	941011	397	0.1+	0.4+	970407	704	0.7+	0.0
941003	400	0.6+	1.7−	941106	675	0.1+	0.5+	970407	704	1.1+	0.3+
941008	675	1.6+	1.3+	941106	675	0.7+	0.5−	970427	691	0.6−	1.0+
941008	675	(2.9− | 1.2+)	970403	704	0.0	0.6−	970427	691	0.5−	1.0+
941010	397	0.2−	1.4−	970403	704	0.2−	0.3+	970427	691	0.6−	0.8+
941010	397	0.9+	0.1+	970405	704	0.4+	0.4−				
941011	675	1.7−	0.0	970405	704	0.4+	0.9−				

1994 TK_{11} = 1977 EV_6

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	280.57307			(2000.0)		**P**		**Q**	
n	0.25368676	ω	94.81009		+0.87240465		+0.48779448		
a	2.4713685	Ω	235.99740		−0.46200379		+0.80216951		
e	0.0713646	i	2.14932		−0.15957012		+0.34435537		
P	3.89	H	14.5	G	0.15	U	6		

Residuals in seconds of arc

770312	381	0.1−	0.4−	941010	691	0.1+	0.5+	941011	691	0.0	0.1+
770312	381	0.2−	0.2+	941010	691	0.1+	0.4+	941011	691	0.3+	0.2+
770314	381	0.2−	0.9+	941010	691	0.3+	0.3+	941011	691	0.1−	0.1+
770314	381	0.9−	0.3+	941010	691	0.5−	0.4−	941012	691	0.2−	0.0
770315	381	0.9+	0.2−	941010	691	0.2−	0.5−	941012	691	0.4−	0.5−
770315	381	0.4+	0.8−	941010	691	0.4+	0.2−	941012	691	0.1+	0.0

1994 UC_1 = 1977 DK_{10} = 1996 AL_{20}

Id. S. Nakano, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	346.58894			(2000.0)		**P**		**Q**	
n	0.25598514	ω	248.91159		+0.24190049		+0.97016637		
a	2.4565534	Ω	35.09967		−0.87947345		+0.22626482		
e	0.1135222	i	1.61115		−0.40989096		+0.08707150		
P	3.85	H	13.0	G	0.15	U	3		

Residuals in seconds of arc

770219	381	0.9−	0.0	941109	905	0.7+	1.0+	941129	691	1.8−	0.1+
770219	381	0.5+	1.0−	941112	385	0.4+	0.1+	941129	691	(3.2− | 1.1+)
941031	905	0.3+	0.9+	941112	385	0.3−	0.2+	941203	675	0.3−	1.1−
941031	905	1.4−	0.8+	941112	385	0.0	0.5−	941203	675	0.0	0.8−
941103	905	0.7+	0.3+	941112	385	0.3−	0.2−	950101	385	0.4+	0.7−
941103	905	0.6+	2.2+	941127	385	0.6−	0.3+	950101	385	0.9+	0.2−
941104	675	0.6+	0.5−	941127	385	0.6−	0.0	960104	327	0.9+	0.5+
941104	675	0.3+	1.5−	941127	385	0.5−	0.3+	960104	327	0.8−	0.7+
941107	399	(2.7− | 0.2+)	941128	675	0.2+	1.2−	960104	327	0.5+	0.3+
941107	399	1.0+	0.4+	941128	675	1.5+	1.1−				
941109	905	0.2−	0.6+	941129	691	1.4−	0.3−				

1994 UN_1 = 1988 VQ_{10} = 1992 JC_5

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	171.35449			(2000.0)		**P**		**Q**	
n	0.16010872	ω	155.72808		+0.96755115		−0.22913375		
a	3.3588663	Ω	218.01636		+0.19418708		+0.94398816		
e	0.1057326	i	9.95783		+0.16166678		+0.23745332		
P	6.16	H	11.5	G	0.15	U	3		

Residuals in seconds of arc

881112	046	0.5−	1.0−	941025	399	0.8+	0.2−	941128	675	0.3+	0.1−
881112	046	0.6+	0.1−	941025	399	0.9+	0.6−	941128	675	1.1+	0.4+
920503	809	0.4+	0.5−	941026	399	0.4+	0.1+	941130	675	1.6+	0.5+
920503	809	0.1+	0.2+	941026	399	0.6−	0.7−	941130	675	0.5+	0.2−
920503	809	0.5−	0.1−	941107	399	1.0−	1.5−	941203	675	0.2+	0.5+
941013	691	1.4−	0.4+	941107	399	1.1−	0.1+	941203	675	0.2+	0.5+
941013	691	0.8−	0.2−	941110	399	0.2−	1.2+				
941013	691	1.0−	0.1−	941110	399	0.0	0.8+				

1994 WG_2

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	177.48619			(2000.0)		**P**		**Q**	
n	0.21925563	ω	296.40673		−0.05604453		−0.99760492		
a	2.7237603	Ω	156.69902		+0.94867333		−0.06586545		
e	0.0714751	i	5.88232		+0.31125220		+0.02112274		
P	4.50	H	13.5	G	0.15	U	3		

Residuals in seconds of arc

890930	675	0.4+	0.8−	941005	033	0.4+	0.8−	941129	399	0.3− 0.2+
890930	675	0.4+	0.5−	941006	033	0.4+	1.0−	941129	399	0.4− 0.4+
910118	675	(10.2−	8.6+)	941028	033	0.1−	0.1+	941209	399	1.2+ 1.9+
910118	675	(7.7−	0.4+)	941028	033	0.3−	0.3−	941209	399	(0.2+ 2.6+)
930726	691	0.4−	0.6+	941101	033	0.5−	0.4−	970711	696	0.4+ 0.1+
930726	691	0.2−	0.3+	941102	033	0.4−	0.5−	970711	696	0.3+ 0.5+
930726	691	0.4−	0.2+	941128	399	0.2+	1.9+	970712	696	0.3− 0.1+
941005	033	1.2+	0.4−	941128	399	1.4−	0.4+	970712	696	0.2+ 0.6+

1994 YC

Id. B. A. Skiff (1997 observations), E. Bowell (1991 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	173.45208		(2000.0)		**P**	**Q**	
n	0.23112392	ω	181.67459		−0.73422676	−0.67623975	
a	2.6296995	Ω	315.57370		+0.62387616	−0.63715899	
e	0.1630429	i	4.92460		+0.26774916	−0.36976780	
P	4.26	H	14.0	G	0.15	U	4

Residuals in seconds of arc

910207	675	0.1+	0.6−	950102	411	0.3+	0.7+	970706	688	0.3+ 0.1−
910207	675	0.4−	0.0	950102	411	0.3+	1.0+	970707	688	0.1− 0.2−
941224	411	0.7−	0.1−	950107	411	1.0−	1.3−	970707	688	0.1+ 0.1−
941224	411	0.6+	0.5−	950119	411	0.5−	0.1−	970707	688	0.0 0.2−
941225	411	0.1−	0.1−	950119	411	0.3+	0.3−	970707	688	0.3− 0.1−
941225	411	0.8+	0.2+	970706	688	0.2+	0.0			
950102	411	0.1−	0.5+	970706	688	0.2+	0.2−			

1995 BD = 1997 NB

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	334.90677		(2000.0)		**P**	**Q**	
n	0.15663618	ω	180.99743		+0.05791371	+0.98305985	
a	3.4083275	Ω	92.33787		−0.91473283	+0.12202569	
e	0.1090413	i	10.02277		−0.39988731	−0.13675918	
P	6.29	H	12.0	G	0.15	U	4

Residuals in seconds of arc

950120	411	0.7−	0.1−	950127	411	0.0	0.5−	970608	809	0.4+ 0.7+
950120	411	0.3−	0.3+	950129	360	0.2+	0.2+	970608	809	0.1− 0.6+
950123	411	0.6−	2.5+	950129	360	0.2+	0.3+	970608	809	0.3+ 1.0+
950123	411	0.8−	1.0+	950129	411	0.9−	0.8−	970609	809	0.5+ 1.1−
950123	411	1.0+	0.6−	950130	411	0.2−	0.7+	970609	809	0.1− 0.5−
950124	411	0.6−	1.0−	950130	411	0.2+	0.0	970609	809	0.2+ 0.2−
950124	411	0.5+	0.9−	950131	411	0.5+	0.2−	970701	691	0.2− 0.0
950125	411	0.4−	0.3+	950131	411	0.2−	0.4−	970701	691	0.1− 0.4−
950125	411	0.9−	0.1+	950131	411	0.9+	0.1−	970701	691	0.0 0.2−
950125	411	0.2+	0.1−	950201	411	0.4+	0.5−	970702	691	0.1− 0.4−
950126	896	2.8−	2.9−	950201	411	0.1−	0.2+	970702	691	0.0 0.2−
950126	896	0.1+	1.3−	950201	897	1.5−	0.1−	970702	691	0.1− 0.1−
950126	897	0.1+	0.9+	950201	897	0.0	1.0−	970708	691	0.2− 0.1+
950126	897	0.4+	0.5+	950203	411	1.1+	0.6−	970708	691	0.4− 0.3+
950126	897	0.2−	0.2+	950203	411	0.2−	0.7+	970708	691	0.1− 0.4+
950127	411	0.7+	1.3+	950206	411	1.9+	0.4+			
950127	411	1.6+	0.9+	950206	411	0.7+	0.6+			

1995 BW$_1$ = 1997 PG$_2$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	226.85525		(2000.0)		**P**	**Q**	
n	0.23737944	ω	328.84066		−0.18181730	−0.97628086	
a	2.5832949	Ω	131.35587		+0.93135347	−0.20932342	
e	0.2223149	i	9.00987		+0.31547295	+0.05531171	
P	4.15	H	15.0	G	0.15	U	4

Residuals in seconds of arc

950127	411	1.8+	0.2+	950206	411	0.0	0.3+	970805	684	0.3− 0.2+
950127	411	0.4−	2.0+	950206	411	0.1+	0.1−	970805	684	0.1− 0.3+
950128	691	1.2−	0.5−	950210	411	0.7−	0.2+	970805	684	0.2− 0.2−
950128	691	0.3−	0.8−	950210	411	0.6+	0.3−	970810	684	0.2+ 0.0
950128	691	1.0−	0.5−	950219	411	0.4+	0.2−	970810	684	0.0 0.6−
950129	411	1.1+	0.2−	950227	411	0.0	0.8+	970810	684	0.4+ 0.5+
950129	411	0.1+	0.2−	950227	411	0.3−	0.5−			

1995 CW$_1$

Id. B. A. Skiff (1997 observations), E. Bowell (1988 observation)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	306.88525		(2000.0)		**P**	**Q**	
n	0.21504545	ω	149.96188		+0.94353287	−0.16538190	
a	2.7591959	Ω	222.77526		+0.14971723	+0.98581502	
e	0.1354600	i	25.00318		+0.29551729	+0.02859314	
P	4.58	H	14.0	G	0.15	U	2

Residuals in seconds of arc

880819	675	0.0	0.3−	950307	413	0.0	0.6−	970701	688	0.4− 0.1+
950207	413	0.7−	0.7−	950307	413	0.3+	0.4−	970701	688	0.1− 0.0
950207	413	(3.1+	1.3−)	950417	413	0.3−	0.1+	970701	688	0.2+ 0.1−
950209	413	0.9+	0.3+	950417	413	0.3−	0.3−	970703	688	0.3+ 0.0
950209	413	0.8+	0.2+	950602	413	0.5−	0.0	970703	688	0.2− 0.1+
950221	413	0.3−	0.3+	950602	413	0.0	0.2+			
950221	413	0.3−	0.5+	970701	688	0.1+	0.1−			

1995 QF$_1$ = 1977 ER$_8$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	168.38501		(2000.0)		**P**	**Q**	
n	0.23394350	ω	139.04159		+0.65558594	+0.75509845	
a	2.6085273	Ω	171.91659		−0.70308596	+0.61318438	
e	0.1957857	i	2.35570		−0.27545817	+0.23201564	
P	4.21	H	15.5	G	0.15	U	6

Residuals in seconds of arc

770314	381	0.3−	0.6+	950819	327	0.0	0.3−	950820	327	0.1− 0.1+
770314	381	0.8+	0.4+	950819	327	0.1+	0.1+	950823	327	0.4+ 0.3−
770315	381	1.2−	0.8−	950819	327	0.1+	0.2+	950823	327	0.6− 0.4+
770315	381	0.6+	0.2−	950820	327	0.1−	0.4−	950823	327	0.1+ 0.2−
950819	327	0.1+	0.0	950820	327	0.0	0.1+	950823	327	0.1+ 0.1+

1995 QC$_2$ = 1977 DC$_9$ = 1991 SL$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	172.58685		(2000.0)		**P**	**Q**	
n	0.23553607	ω	328.37306		+0.61297292	+0.78415146	
a	2.5967557	Ω	338.92855		−0.65707673	+0.43789068	
e	0.1708543	i	15.61936		−0.43876459	+0.43972518	
P	4.18	H	13.0	G	0.15	U	3

Residuals in seconds of arc

770219	381	1.3+	0.8−	950821	400	0.7+	0.3−	950901	397	1.1−	0.5−
770219	381	2.2−	0.4−	950821	400	0.6+	1.5+	950901	397	0.4−	0.7−
910917	675	0.2−	0.7+	950823	400	0.3+	0.3−	950920	400	1.1+	0.4+
910917	675	0.2+	0.7−	950823	400	0.8−	0.8−	950920	400	0.3+	0.2−

1995 SM$_{29}$ = 1978 VD$_{15}$ = 1989 RM$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	94.70754		(2000.0)		**P**	**Q**	
n	0.17252557	ω	338.73602		+0.82835088	−0.55876060	
a	3.1957079	Ω	55.29766		+0.52078956	+0.74158479	
e	0.1668397	i	2.80742		+0.20642928	+0.37126621	
P	5.71	H	12.5	G	0.15	U	5

Residuals in seconds of arc

781101	095	0.1+	0.4−	951001	114	0.7−	0.4−	951019	114	1.1+	0.7−
890908	372	0.7−	0.7−	951001	114	1.2+	1.0+	951021	399	0.5−	1.9+
890908	372	0.6+	0.9+	951016	114	1.5+	0.6+	951021	399	1.8−	0.4−
950926	114	0.1+	0.7−	951016	114	0.8+	0.4+	951027	399	(0.3− | 3.5+)
950926	114	1.1+	0.9−	951017	114	(3.1− | 1.0−)	951027	399	1.7−	1.3+
950928	114	0.1−	0.1−	951018	114	1.8−	0.3−				
950929	114	0.7+	0.5−	951019	114	0.1+	1.0−				

1995 UU$_6$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	172.95138		(2000.0)		**P**	**Q**	
n	0.25802020	ω	29.75780		+0.99423166	−0.09874681	
a	2.4436194	Ω	335.80208		+0.06655546	+0.87409853	
e	0.1652354	i	5.86191		+0.08410575	+0.47560574	
P	3.82	H	17.0	G	0.15	U	3

Residuals in seconds of arc

951019	568	0.8+	0.1+	951022	568	0.1−	0.0	960317	568	0.4+	0.2+
951019	568	0.9+	0.0	951023	568	0.1−	0.0	960317	568	0.1−	0.4+
951019	568	0.8+	0.1+	951023	568	0.3−	0.1−	960318	568	0.2+	0.2+
951019	568	0.9+	0.0	951024	568	0.3−	0.1−	960318	568	0.1−	0.1+
951019	568	0.2+	0.2−	951024	568	0.1−	0.1−	970209	568	0.3−	0.1+
951019	568	0.1+	0.2−	951124	691	0.5−	0.1−	970209	568	0.4−	0.0
951020	568	0.2−	0.1+	951124	691	0.6−	0.2−	970210	568	0.3−	0.1−
951020	568	0.2−	0.1+	951207	568	0.4−	0.4−	970210	568	0.4−	0.1−
951021	568	0.2−	0.2−	951207	568	0.2−	0.6−	970530	568	0.5+	0.6−
951021	568	0.3−	0.1−	960215	568	0.0	0.6+	970530	568	0.6+	0.6−
951022	568	0.3−	0.0	960215	568	0.1+	0.9+				

1995 WT = 1950 QA = 1984 YJ$_1$ = 1987 KM$_1$ = 1991 BU

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	103.58114		(2000.0)		**P**	**Q**	
n	0.17879023	ω	164.36942		+0.48672216	−0.86458189	
a	3.1206150	Ω	256.36269		+0.78706847	+0.49605607	
e	0.2324134	i	7.38420		+0.37897859	+0.08016567	
P	5.51	H	12.0	G	0.15	U	2

Residuals in seconds of arc

500822	024	0.1−	0.9+	951117	411	0.7+	0.1−	951125	399	1.3−	0.2+
841217	095	0.8−	1.6−	951118	411	0.5+	0.4+	951125	399	1.3−	0.8+
870530	413	0.6−	0.5+	951118	411	0.7+	0.5+	951201	411	0.3+	0.3+
870530	413	0.5+	0.1+	951118	399	0.5−	0.3+	951201	411	0.4+	0.2+
910119	402	1.0−	0.4−	951118	399	1.1−	0.6−	951209	411	0.4+	0.1−
910119	402	1.6+	1.4+	951124	411	0.1−	0.2+	951209	411	0.6+	0.5−
951117	411	0.8+	0.1−	951124	411	0.4+	0.1+				

1995 WB$_{22}$ = 1997 LG$_{15}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	98.30113		(2000.0)		**P**	**Q**	
n	0.29559875	ω	39.09222		−0.70001835	−0.70851536	
a	2.2318636	Ω	95.53984		+0.63062386	−0.67200964	
e	0.0904969	i	5.14932		+0.33509379	−0.21542755	
P	3.33	H	15.5	G	0.15	U	5

Residuals in seconds of arc

951117	691	0.1−	0.0	951130	691	0.2+	0.2+	970608	809	0.7+	1.2+
951117	691	0.3−	0.2−	951130	691	0.2+	0.2+	970608	809	0.1+	1.3+
951117	691	0.2−	0.1−	951130	691	0.0	0.3+	970608	809	0.7+	0.9+
951123	691	0.1−	0.0	960114	691	0.3−	0.1−	970609	809	0.2−	0.6−
951123	691	0.0	0.1+	960114	691	0.2+	0.1+	970609	809	0.8+	0.3−
951123	691	0.0	0.0	960114	691	0.3+	0.2+	970609	809	1.9−	1.9−

1995 XD$_1$

Id. B. A. Skiff (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	124.92924		(2000.0)		**P**	**Q**	
n	0.26256414	ω	39.07525		−0.24193482	−0.96860158	
a	2.4153447	Ω	64.99292		+0.87363402	−0.24313004	
e	0.1498191	i	3.62243		+0.42217430	−0.05194957	
P	3.75	H	14.5	G	0.15	U	4

Residuals in seconds of arc

951021	327	0.1−	0.5+	951222	411	0.3−	0.3+	970703	688	0.0	0.1−
951021	327	0.0	0.2−	951230	411	0.1+	1.3+	970703	688	0.2+	0.2+
951021	327	0.4+	0.8−	951231	411	(0.8− | 2.9+)	970704	688	0.7+	0.5−
951215	411	0.4+	0.2−	951231	411	(0.0 | 2.5+)	970704	688	0.6−	0.4−
951215	411	0.7−	0.0	960109	411	0.1−	1.0−	970704	688	0.3−	0.4+
951216	411	0.4−	0.1+	960109	411	1.4+	0.6−	970704	688	0.2+	0.4+
951216	411	0.4−	0.2+	970703	688	0.2−	0.2−				
951222	411	0.0	0.2+	970703	688	0.0	0.0				

1995 YL$_3$ = 1997 LC$_{15}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	178.53476		(2000.0)		**P**	**Q**	
n	0.27657946	ω	296.65230		+0.45620491	−0.88704321	
a	2.3330431	Ω	126.02572		+0.84445089	+0.40639858	
e	0.1398869	i	5.03165		+0.28067733	+0.21907657	
P	3.56	H	15.0	G	0.15	U	4

Residuals in seconds of arc

951227	411	0.1−	0.1+	960125	411	0.1+	0.4−	970608	809	0.0	1.0+
951227	411	0.6+	0.2+	970504	809	0.4−	0.1−	970609	809	(4.5+ | 3.3+)
951229	411	0.0	0.0	970504	809	0.4−	1.0−	970609	809	(4.5+ | 3.2+)
951229	411	0.5+	0.2+	970504	809	0.6−	0.9−	970609	809	(4.2+ | 2.2+)
951231	411	0.7−	0.2−	970531	691	0.7+	0.1+	970629	691	0.1−	0.9−
951231	411	0.5+	0.0	970531	691	0.4+	0.3+	970629	691	0.1−	0.1+
960110	411	1.2−	0.6−	970531	691	0.4+	0.2+	970629	691	0.5−	0.0
960110	411	0.0	0.0	970608	809	0.1+	0.8+				
960125	411	0.2+	0.9+	970608	809	0.4+	0.3+				

1995 YA$_7$ = 1997 EK$_{52}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	344.21110		(2000.0)		**P**	**Q**	
n	0.27805339	ω	54.54567		−0.59889280	+0.80082873	
a	2.3247910	Ω	178.66273		−0.74639909	−0.55779008	
e	0.1600024	i	2.15620		−0.29019963	−0.21804491	
P	3.54	H	16.5	G	0.15	U	4

Residuals in seconds of arc

951216 691	0.5−	0.4+	951228 691	0.0	0.3−	970309 809	0.1+	0.4+	
951216 691	0.1+	0.3−	951228 691	0.3−	0.2−	970309 809	0.4−	0.7+	
951216 691	0.5+	0.4+	951228 691	0.9−	0.4−	970309 809	0.1+	0.1−	
951222 691	0.1+	0.3−	970308 809	0.4+	0.3+	970415 691	0.1+	0.0	
951222 691	0.7+	0.3+	970308 809	0.2−	0.2−	970415 691	0.0	0.3−	
951222 691	0.2+	0.3+	970308 809	0.1+	0.7−	970415 691	0.2−	0.1−	

1996 BB = 1980 WO = 1995 BB$_{17}$

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	255.66324		(2000.0)		**P**	**Q**	
n	0.21242089	ω	214.16091		+0.89009505	+0.42902785	
a	2.7818769	Ω	119.71026		−0.36852620	+0.87607068	
e	0.1595757	i	10.20212		−0.26817764	+0.22008012	
P	4.64	H	12.0	G	0.15	U	4

Residuals in seconds of arc

801130 095	0.1−	0.2+	960116 411	0.6+	1.0−	960212 411	0.6−	0.1−	
950123 691	0.1+	0.0	960116 411	0.3+	0.6−	960212 411	0.4−	0.7+	
950123 691	0.0	0.0	960118 399	0.3+	0.9+	960219 411	0.6−	0.2−	
950123 691	0.0	0.4−	960118 399	1.0−	1.8+	960219 411	1.4−	1.1−	
960113 411	1.4+	0.0	960127 411	0.8+	0.6+				
960113 411	0.1+	0.8−	960127 411	0.7+	0.2−				

1996 CN$_7$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	20.14199		(2000.0)		**P**	**Q**	
n	0.26305179	ω	253.21723		+0.00602894	+0.99990487	
a	2.4123587	Ω	17.14253		−0.90069117	+0.01081938	
e	0.1461297	i	2.41224		−0.43441809	−0.00855525	
P	3.75	H	14.5	G	0.15	U	4

Residuals in seconds of arc

960117 098	0.1−	1.4+	960215 098	(2.5+	0.8−)	970727 108	1.1+	0.2−	
960117 098	0.3−	0.9−	960224 098	(2.1−	1.2−)	970727 108	0.7+	1.1−	
960118 098	(2.9−	2.3+)	960224 098	1.3+	0.6−	970729 104	0.2−	1.0+	
960118 098	0.7+	0.0	960314 098	0.4+	0.7−	970730 104	0.4+	0.1−	
960120 098	1.4−	1.5+	960314 098	1.4−	0.5+	970730 104	1.3−	0.2+	
960120 098	1.5+	0.8−	960320 098	(2.5+	0.5−)	970807 108	0.5−	0.1+	
960214 098	1.4−	0.8−	960320 098	0.8+	1.7+	970807 108	0.7−	0.7−	
960214 098	0.1−	1.0−	970727 108	0.4+	1.2+	970807 108	0.1+	1.0+	
960215 098	(3.1+	0.8−)	970727 108	0.0	1.4−				

1996 CG$_9$ = 1997 JY$_{16}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	251.33963		(2000.0)		**P**	**Q**	
n	0.28172562	ω	167.93287		+0.99869700	−0.04127436	
a	2.3045448	Ω	194.53366		+0.03087176	+0.95691940	
e	0.1374729	i	6.86869		+0.04063532	+0.28740509	
P	3.50	H	14.0	G	0.15	U	5

Residuals in seconds of arc

960115 098	0.4−	1.3+	960215 098	0.2+	0.8−	970503 809	0.4−	1.3−	
960115 098	0.0	0.5−	960215 098	1.3+	0.4−	970504 809	0.6+	0.6+	
960116 098	0.7+	0.7+	960217 098	0.8−	0.6+	970504 809	0.6+	1.1+	
960117 098	0.4−	1.7−	960217 098	(8.7−	5.3+)	970504 809	0.1+	0.9+	
960213 098	1.2−	0.2+	970503 809	0.4−	0.4−				
960214 098	0.6+	0.7+	970503 809	0.6−	1.0−				

1996 CK$_9$ = 1962 PF = 1992 CB$_7$ = 1997 OD$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	331.86163		(2000.0)		**P**	**Q**	
n	0.28123212	ω	174.46201		+0.83518969	+0.54734953	
a	2.3072400	Ω	152.14266		−0.50887681	+0.80604710	
e	0.1558287	i	6.57955		−0.20857268	+0.22515896	
P	3.50	H	14.0	G	0.15	U	2

Residuals in seconds of arc

620801 760	0.4+	2.0−	960326 566	0.4+	0.2−	970730 610	1.5+	1.7+	
920206 809	0.3−	0.4+	960422 566	0.6−	0.3−	970730 610	1.6+	1.6+	
920206 809	0.3+	0.7−	960422 566	0.1+	0.2+	970730 108	0.6−	1.3−	
920206 809	0.0	0.8−	960422 566	0.5−	0.3+	970802 108	0.9−	0.5+	
960210 691	0.6−	0.3−	970729 104	0.5−	0.7−	970802 108	1.0+	0.4−	
960210 691	0.6−	0.1−	970729 104	0.4−	0.5+	970802 108	0.4−	1.4−	
960210 691	0.6−	0.2−	970729 104	0.6−	0.0	970807 104	0.4−	0.9−	
960326 566	0.9+	0.2−	970730 108	0.8−	0.3−	970807 104	0.3−	0.5−	
960326 566	0.9+	0.3−	970730 610	1.2+	1.8+	970807 104	0.3−	0.4−	

1996 DO$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	1.63208		(2000.0)		**P**	**Q**	
n	0.18659123	ω	319.57487		−0.29430675	+0.94131866	
a	3.0330197	Ω	292.72816		−0.82413696	−0.33751122	
e	0.1329023	i	10.32004		−0.48392334	+0.00231244	
P	5.28	H	12.0	G	0.15	U	3

Residuals in seconds of arc

960223 589	0.2+	0.3+	960227 589	(4.2−	1.0+)	960319 589	0.6−	0.6+	
960223 589	0.2+	0.3−	960227 589	(3.8−	0.8+)	960414 589	0.2−	0.8−	
960223 589	0.5+	0.1+	960228 589	0.9−	0.1−	960414 589	0.3+	0.6−	
960224 589	1.0+	0.8−	960228 589	0.2−	0.5−	960414 589	1.0+	0.2−	
960224 589	0.3+	0.1−	960228 589	0.2−	0.4+	960416 589	0.1+	0.7+	
960224 589	0.8+	0.5−	960228 589	0.2+	1.2−	960416 589	0.3−	0.1+	
960224 589	0.4+	0.1+	960228 589	1.1−	0.2+	960505 589	0.4+	0.3−	
960224 596	0.0	0.5−	960229 589	0.5+	0.5+	960505 589	0.5+	0.0	
960224 108	(0.6+	2.4+)	960229 589	0.5−	0.0	960505 589	0.6+	0.1−	
960224 596	0.2+	0.2−	960311 589	0.5−	0.3−	960517 589	1.1−	0.1−	
960224 596	0.3+	0.1−	960311 589	0.1+	0.8−	960517 589	0.2+	0.1+	
960224 108	(1.5+	2.4−)	960313 589	0.8−	0.5−	960517 589	0.0	1.7+	

960225	589	0.6−	0.1+	960313	589	0.2−	0.5+	970702	589	0.0	0.8+
960225	589	1.2−	0.2+	960313	589	0.5+	0.2+	970702	589	0.3−	0.3+
960225	596	0.1−	0.1−	960313	589	0.6+	0.4−	970702	589	0.3−	0.3+
960225	589	0.5−	0.3−	960314	589	0.1+	0.1−	970712	589	0.4+	0.3−
960225	596	0.3−	0.1+	960314	589	0.5+	0.7+	970712	589	0.5−	0.1+
960226	589	(4.3−	0.9+)	960314	589	0.1+	1.1+	970712	589	0.7+	1.0−
960226	589	(4.8−	1.1+)	960319	589	0.7−	0.2−	970712	589	0.1+	0.6−
960226	589	(4.7−	0.9+)	960319	589	0.1+	0.7+				
960227	589	(3.5−	1.5+)	960319	589	0.2+	0.5+				

1996 DW$_2$
Id. E. Bowell (1989 observations), B. A. Skiff (1997 observations)
Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	226.30971		(2000.0)		**P**	**Q**	
n	0.22130287	ω	235.02883		+0.92644054	−0.33019383	
a	2.7069362	Ω	143.28093		+0.35857857	+0.92023695	
e	0.1844509	i	17.59914		−0.11458329	+0.21008567	
P	4.45	H	12.0	G	0.15	U	3

Residuals in seconds of arc

890801	675	0.2+	0.4−	960227	966	0.1+	0.6−	960407	966	0.3+	0.2+
890801	675	0.2−	0.7−	960310	966	0.3−	0.1−	960407	966	0.0	0.8+
960226	966	0.8−	1.4−	960310	966	0.3+	0.8−	970701	688	0.2+	0.2+
960226	966	0.1+	0.2+	960403	966	2.0−	0.7−	970701	688	0.0	0.1+
960226	966	0.3+	0.3+	960404	966	0.6+	0.1−	970701	688	0.3−	0.4+
960227	966	0.4+	0.4+	960404	966	0.9+	0.4+	970701	688	0.2+	0.1−

1996 EX$_1$ = 1980 KJ$_1$ = 1997 JQ$_{18}$
Id. T. B. Spahr, G. V. Williams
Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	161.50996		(2000.0)		**P**	**Q**	
n	0.17531375	ω	260.07741		+0.19196383	−0.98138500	
a	3.1617345	Ω	178.80812		+0.97354734	+0.18968092	
e	0.1105327	i	16.12402		+0.12391714	+0.03007708	
P	5.62	H	13.0	G	0.15	U	4

Residuals in seconds of arc

800517	095	0.0	0.4−	960320	566	0.7+	0.1−	960422	566	0.2−	0.3−
960315	566	0.9+	0.9−	960320	566	0.2−	0.0	970514	691	0.0	0.2−
960315	566	0.5+	0.4−	960320	566	0.5+	0.2−	970514	691	0.1−	0.3−
960315	566	0.7+	0.2−	960320	566	0.3−	0.3−	970514	691	0.0	0.2−
960319	566	0.7−	0.5+	960326	566	0.3−	0.7+	970530	691	0.0	0.3+
960319	566	0.4−	0.5+	960326	566	0.1−	0.7+	970530	691	0.1+	0.4+
960319	566	0.6−	0.0	960326	566	0.2−	0.7+	970530	691	0.1+	0.3+
960320	566	0.6+	0.4−	960422	566	0.1−	0.4+				
960320	566	0.3−	0.2−	960422	566	0.3−	0.3−				

1996 FL$_2$ = 1978 QY = 1979 VK$_2$ = 1989 WW$_1$ = 1991 EV$_5$ = 1994 WC$_{12}$
Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	351.77134		(2000.0)		**P**	**Q**	
n	0.19977346	ω	285.51537		−0.06484774	+0.99787304	
a	2.8980832	Ω	340.76281		−0.90764659	−0.06174917	
e	0.0343129	i	1.15572		−0.41469560	−0.02089095	
P	4.93	H	12.5	G	0.15	U	2

Residuals in seconds of arc

780831	095	0.2−	0.2+	941127	010	1.1−	0.1−	960215	566	0.4−	0.7+
791114	095	0.5−	1.4+	941128	010	1.4−	0.2−	960317	566	0.2+	0.1−
891129	400	2.9+	0.7−	941128	010	0.5+	0.4−	960317	566	0.2+	0.1−
891129	400	(5.3+	2.8+)	941128	010	0.8+	0.5+	960317	566	0.3+	0.1−
910307	046	2.1−	1.2−	941129	010	0.5+	0.2+	960323	566	0.9+	0.0
910307	046	(3.0−	2.4−)	960215	566	0.1+	0.6+	960323	566	0.4+	0.1+
941127	010	1.8−	0.4−	960215	566	0.2+	0.7+	960323	566	0.5+	0.2−

1996 FP$_3$
Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	233.61599		(2000.0)		**P**	**Q**	
n	0.29928604	ω	315.32477		+0.19700330	−0.97737128	
a	2.2134943	Ω	123.16744		+0.92328005	+0.15852075	
e	0.0971507	i	5.28064		+0.32976303	+0.14005912	
P	3.29	H	16.5	G	0.15	U	4

Residuals in seconds of arc

960326	684	0.0	0.1+	960411	684	0.2+	0.0	960509	684	0.3+	0.2+
960326	684	0.5−	0.4−	960411	684	0.5+	0.9−	960509	684	0.6+	0.2−
960327	684	0.5+	0.2−	960415	684	1.4+	0.2+	970731	684	0.2−	0.2+
960327	684	0.3−	0.2−	960415	684	0.5+	0.4+	970731	684	0.5−	0.7−
960327	684	0.5+	0.1−	960416	608	0.1−	0.7+	970731	684	0.5+	0.3−
960328	684	0.7−	0.1+	960416	608	0.3−	0.8+	970801	684	0.1+	0.1+
960328	684	0.9+	1.6−	960417	608	0.9−	0.7+	970801	684	0.1−	0.0
960330	684	1.2−	0.2−	960417	608	1.0−	0.7+	970804	684	0.1−	0.0
960330	684	0.6−	1.0−	960421	684	0.0	0.5+	970804	684	0.3+	0.2+
960408	684	(1.2−	2.3−)	960421	684	0.2−	0.4+				
960408	684	0.7+	0.5−	960421	684	0.3−	0.3+				

1996 FL$_5$ = 1978 ET$_3$
Id. B. A. Skiff (1997 observations), E. Bowell (1989 observations), G. V. Williams
Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	102.35925		(2000.0)		**P**	**Q**	
n	0.27912893	ω	189.31599		−0.79079913	+0.60904828	
a	2.3188153	Ω	28.48269		−0.55303942	−0.66842507	
e	0.1432008	i	7.32497		−0.26226729	−0.42692870	
P	3.53	H	14.0	G	0.15	U	2

Residuals in seconds of arc

780306	095	0.1−	0.2−	960411	894	0.8−	0.5+	960421	566	0.3+	0.1+
890401	675	0.3+	0.0	960413	400	0.4−	0.2+	970706	688	0.0	0.2+
890401	675	0.2−	0.2+	960413	400	0.5−	0.1−	970706	688	0.1+	0.3+
960320	400	2.9−	0.8+	960414	400	0.1−	0.0	970706	688	0.2+	0.3−
960320	400	1.1+	1.5−	960414	400	0.3+	0.6+	970706	688	0.1−	0.3−
960327	400	0.5+	0.4+	960420	566	0.3+	0.4−	970707	688	0.4+	0.5−
960327	400	1.2+	0.6−	960420	566	0.4+	0.4−	970707	688	0.2+	0.4−
960409	894	0.5−	0.6+	960420	566	0.3−	0.5−	970707	688	0.4−	0.3+
960409	894	0.4−	0.2−	960421	566	0.4+	0.0	970707	688	0.0	0.0
960411	894	0.8+	0.2−	960421	566	0.4+	0.1+				

1996 HO = 1997 PB$_2$
Id. A. Galád

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	259.58235		(2000.0)		**P**	**Q**	
n	0.26889958	ω	297.84988		+0.47268267	−0.87376417	
a	2.3772561	Ω	123.48669		+0.84908910	+0.41681284	
e	0.0945712	i	7.89003		+0.23583636	+0.25060571	
P	3.67	H	15.5	G	0.15	U	4

Residuals in seconds of arc

960419	557	0.2+	0.2+	960424	118	0.1+	0.4+	960606	557	0.3−	0.1−
960419	557	0.1+	0.4+	960515	118	1.1+	0.7+	960614	118	1.3−	1.5+
960419	557	0.0	0.9+	960515	118	1.4+	0.3−	960614	118	1.1−	2.0+
960420	118	0.3−	0.6+	960515	118	0.4+	0.1−	960614	118	1.6−	0.7+
960420	118	0.2+	0.5+	960516	118	0.2−	1.1−	960615	118	0.3+	0.1−
960420	118	0.2+	0.6+	960516	118	0.2−	1.1−	960615	118	0.3−	0.6+
960420	557	0.0	0.1+	960518	557	0.6−	1.0−	960615	118	0.1−	0.6−
960420	557	0.1+	0.2+	960518	557	0.2−	0.5−	960616	118	0.1+	0.2−
960420	557	0.2+	0.2+	960521	118	0.4+	1.1−	960616	118	0.9+	0.1+
960421	118	0.1−	0.6+	960522	557	0.2+	0.9−	970805	118	1.3+	0.2−
960421	118	0.2−	0.7+	960522	557	0.5+	0.6−	970805	118	0.4−	0.8+
960421	118	0.2−	0.7+	960522	557	0.5+	0.4−	970805	118	0.8−	0.9+
960421	118	0.1+	0.3+	960605	557	0.6+	1.4−	970805	118	0.7+	0.3−
960423	557	0.3−	0.3+	960605	557	0.4+	0.6−	970805	118	0.4−	0.4−
960423	557	0.6−	0.1+	960605	557	1.2−	1.7−	970805	118	0.6−	0.1−
960424	118	0.1+	0.3+	960606	557	0.4+	1.0−				
960424	118	0.1+	0.5+	960606	557	0.3−	0.4−				

1996 HP$_1$

Id. M. Tichý (1997 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	103.38465		(2000.0)		**P**	**Q**	
n	0.23242959	ω	355.26943		−0.97174395	+0.22824168	
a	2.6198420	Ω	198.26619		−0.20977590	−0.95194476	
e	0.1180410	i	11.06632		−0.10820247	−0.20422268	
P	4.24	H	15.5	G	0.15	U	3

Residuals in seconds of arc

960321	566	0.2−	0.1+	960426	046	0.3+	0.5+	960522	046	1.0−	0.2+
960321	566	0.1−	0.1−	960426	046	0.6+	0.7−	960522	046	0.5−	0.4−
960321	566	0.1−	0.1−	960426	046	0.6+	0.4−	960522	046	0.4+	0.2+
960412	691	1.0−	0.2−	960505	046	0.9−	0.2−	970804	046	0.1+	0.8−
960412	691	1.1−	0.2−	960505	046	1.2−	0.7+	970804	046	0.4+	0.5−
960412	691	0.9−	0.1−	960505	046	0.9−	0.4+	970804	046	0.0	0.6−
960421	046	1.4+	0.4−	960506	046	0.1−	0.0	970806	046	0.6+	0.5+
960421	046	1.2+	0.1−	960506	046	0.1+	0.2−	970806	046	0.8−	0.6−
960421	046	1.3+	0.1−	960506	046	0.5−	0.7+	970806	046	0.9−	0.7+
960421	046	1.4+	0.1+	960516	046	0.3+	0.9+	970806	046	0.1+	0.5+
960423	046	0.6+	0.5−	960516	046	0.2−	0.6+	970806	046	0.0	0.4+
960423	046	1.0−	0.4+	960516	046	0.6+	0.2+	970806	046	0.6+	0.4+
960423	046	0.0	0.6+	960518	046	0.4+	0.6−				
960423	046	0.2+	0.1−	960518	046	0.1+	1.0−				

1996 HA$_{15}$ = 1987 WU$_3$ = 1990 RS$_{11}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	337.72314		(2000.0)		**P**	**Q**	
n	0.29204286	ω	320.21206		+0.98454024	−0.15984724	
a	2.2499437	Ω	49.13760		+0.17488594	+0.87427488	
e	0.1587552	i	5.43403		+0.00976891	+0.45835826	
P	3.37	H	14.0	G	0.15	U	4

Residuals in seconds of arc

871124	688	0.7+	1.0+	960417	809	0.1−	0.3−	960519	809	0.9−	0.2+
871124	688	1.0−	0.1−	960418	809	(2.8+	0.4+)	960522	809	(1.5+	3.9+)
900914	675	0.2−	0.4+	960418	809	(3.4+	0.4−)	960522	809	(0.6+	3.1+)
900914	675	0.0	0.1+	960418	809	(3.8+	0.4−)	960522	809	(0.3+	3.4+)
960417	809	1.5+	0.3−	960519	809	0.1−	0.7+				
960417	809	0.6+	0.4+	960519	809	0.5−	0.6+				

1996 LA = 1987 QJ$_4$ = 1990 FQ$_3$

Id. M. Tichý (1997 observations), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	107.58262		(2000.0)		**P**	**Q**	
n	0.18181334	ω	320.01229		−0.99420974	+0.05592008	
a	3.0859263	Ω	223.46370		−0.02535349	−0.95188862	
e	0.1089970	i	7.66570		−0.10442319	−0.30129885	
P	5.42	H	13.5	G	0.15	U	2

Residuals in seconds of arc

870831	010	1.4−	0.1−	960607	046	0.5−	0.2−	960716	046	0.6−	0.5+
870831	010	0.8+	0.2+	960607	046	0.4−	0.5−	960716	046	1.2−	0.7+
870831	010	0.3+	0.5−	960607	046	0.7−	1.0−	960716	046	0.9−	0.2+
900320	095	0.5+	1.2−	960608	046	0.2−	0.4+	960720	046	0.5+	0.7−
900320	095	1.0−	1.3−	960608	046	0.1−	0.9+	960720	046	0.2−	0.3−
960605	046	0.3−	0.4−	960608	046	1.2−	0.9+	970728	046	0.2+	0.3−
960605	046	0.2+	0.3−	960611	046	0.6−	0.2−	970728	046	0.1+	0.4−
960605	046	0.0	0.4−	960611	046	0.6+	0.0	970728	046	0.3+	0.3−
960605	046	0.3+	0.2+	960611	046	0.5−	0.2−	970728	046	0.2+	0.3−
960606	046	0.1−	0.1−	960616	046	0.7+	0.9+	970729	046	0.3+	0.1−
960606	046	0.3−	0.2+	960616	046	0.2+	0.4−	970729	046	0.1+	0.4−
960606	046	0.1−	0.2+	960616	046	1.1+	0.4+	970729	046	0.0	0.1−
960606	046	0.0	0.2+	960617	046	0.6+	0.3+	970731	046	0.1+	0.3−
960606	046	0.0	0.6−	960617	046	0.8+	0.3+	970731	046	0.0	0.1−
960606	046	0.2−	0.3−	960617	046	0.5+	0.3+	970731	046	0.2+	0.2−
960606	046	0.5−	0.1+	960703	046	(2.2+ | 0.2−)	970802	046	0.1−	0.3+
960606	046	0.1+	0.5−	960703	046	1.6+	0.6+	970802	046	0.4+	0.2+
960606	046	0.4+	0.0	960703	046	0.9+	0.8+	970802	046	0.5−	0.2−

1996 RJ = 1986 XP$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	356.02408		(2000.0)		**P**	**Q**	
n	0.08312294	ω	114.61513		+0.84588569	−0.18813962	
a	5.1998257	Ω	259.55530		+0.06200202	+0.96406265	
e	0.0485547	i	30.49672		+0.52974820	+0.18758115	
P	11.86	H	9.5	G	0.15	U	2

Residuals in seconds of arc

861201	482	0.5−	0.2+	960915	693	1.0−	0.3−	961215	696	0.2+	0.3+
861201	482	0.3−	0.5−	960923	658	0.2−	0.4−	961215	696	0.3+	0.3+

861201	482	0.4−	1.1−	960923	658	0.2−	0.3−	961215	696	0.2+	0.2+
861201	482	1.2+	1.4+	960923	658	0.0	0.4−	970114	658	0.2+	0.3+
960907	693	0.4−	1.8−	960925	658	0.2+	0.0	970114	658	0.2−	0.4+
960907	693	0.4+	1.1+	960925	658	0.4+	0.1+	970114	658	0.7−	0.6−
960908	693	0.4−	1.0+	960925	658	0.2+	0.0	970712	696	0.1+	0.1−
960908	693	0.0	0.6+	961007	693	0.7+	0.4−	970712	696	0.1+	0.2−
960915	693	0.3+	0.7+	961007	693	0.1−	0.5−				

1996 TO$_{10}$ = 1989 NQ

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	55.50040		(2000.0)		**P**		**Q**
n	0.29534909	ω	305.45172		+0.82086196		−0.56110492
a	2.2331212	Ω	88.90930		+0.55243564		+0.73274069
e	0.1767642	i	6.11597		+0.14491550		+0.38503551
P	3.34	H	13.5	G	0.15	U	6

Residuals in seconds of arc

890702	675	0.2−	0.3−	961009	399	0.2−	0.0	961016	399	0.8+	0.1−
890702	675	0.8+	1.9+	961009	399	0.9+	0.2+	961016	399	0.2−	0.3−
890704	675	0.4−	1.1−	961010	399	0.0	0.1+				
890704	675	0.1−	0.4−	961010	399	1.3−	0.2+				

1996 TL$_{15}$ = 1976 EK = 1976 FG

Id. T. B. Spahr, O. Kippes (d, *MPC* 6840)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	214.25318		(2000.0)		**P**		**Q**
n	0.17234765	ω	4.30553		−0.84882711		+0.50092142
a	3.1979069	Ω	207.86660		−0.49520489		−0.86530812
e	0.0258530	i	21.19984		−0.18510712		+0.01787684
P	5.72	H	12.0	G	0.15	U	4

Residuals in seconds of arc

760307	808	1.2−	1.5+	961009	358	0.3+	0.2+	961018	358	1.0−	0.6−
760307	808	1.2−	1.3−	961009	358	0.3−	0.0	961018	358	0.2+	0.2−
760324	808	1.2+	0.0	961010	358	0.7−	0.3+	961103	358	0.5+	0.3+
760324	808	1.2+	0.3−	961010	358	0.6+	0.1+	961103	358	0.4+	0.0

1996 VB$_8$ = 1980 TG$_{10}$ = 1986 LA$_1$ = 1988 AO

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	143.28734		(2000.0)		**P**		**Q**
n	0.31190762	ω	130.12648		+0.50519551		+0.86294893
a	2.1533703	Ω	170.20342		−0.80832578		+0.47714627
e	0.1948895	i	3.31211		−0.30230272		+0.16628462
P	3.16	H	13.8	G	0.15	U	2

Residuals in seconds of arc

801015	095	0.1−	0.3+	880111	033	0.3+	0.1−	961106	399	0.7−	0.5−
860606	675	(8.1+ | 1.4+)	880111	033	0.3−	0.2−	961106	399	1.1+	0.5+
860606	675	1.5−	0.7+	961103	399	0.7+	1.3−	961115	399	0.7−	0.7+
860608	675	1.4+	1.0−	961103	399	1.2+	0.5−	961115	399	1.6−	0.7+

1996 XF$_6$ = 1975 EY$_4$ = 1987 KJ$_2$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	2.07068		(2000.0)		**P**		**Q**
n	0.17458207	ω	92.07543		−0.69295660		−0.72053171
a	3.1705622	Ω	41.82762		+0.64542240		−0.63565229
e	0.1673650	i	2.18282		+0.32131149		−0.27709243
P	5.65	H	13.0	G	0.15	U	4

Residuals in seconds of arc

750315	095	0.1+	0.3+	961208	411	0.9−	0.5+	961214	411	0.1+	0.2−
870530	413	0.2+	0.0	961208	411	0.4−	0.4+	961228	411	0.4+	0.0
870530	413	0.3−	0.4−	961212	411	0.1+	0.3+	961228	411	0.1−	0.3−
961207	411	0.3−	0.2−	961212	411	0.2+	0.1+				
961207	411	0.3−	0.0	961214	411	1.2+	0.9−				

1996 YB$_2$ = 1955 XU = 1963 TZ = 1963 VO = 1988 VR$_4$

Id. D. Asher, R. Mitrinovic (d, *MPC* 2505)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Asher

M	37.52890		(2000.0)		**P**		**Q**
n	0.23844631	ω	231.30700		+0.71985509		−0.69356221
a	2.5755836	Ω	172.45650		+0.68440802		+0.70249461
e	0.1871890	i	12.28396		+0.11573381		+0.15960196
P	4.13	H	12.1	G	0.15	U	3

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

551213	760	0.7−	0.3+	961222	327	0.1+	0.1−	970109	327	0.3+	0.1+
551213	760	0.7+	0.4+	961222	327	0.1−	0.0	970109	327	0.1−	0.6+
631014	760	(0.05− | 0.01+)X	961222	327	0.4−	0.3+	970109	327	0.6−	0.1+
631115	760	(79.2− | 95.6+)X	961223	327	0.1−	0.1+	970109	327	0.0	0.3+
881112	675	0.3+	1.0−	961223	327	0.1−	0.1−				
881113	675	0.2−	0.4−	961223	327	0.8+	0.1−				

1997 AO$_1$ = 1986 VK$_4$ = 1989 BK$_2$

Id. S. Nakano, T. B. Spahr

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	202.01322		(2000.0)		**P**		**Q**
n	0.12547973	ω	187.30200		+0.50182053		+0.86096453
a	3.9514244	Ω	112.85018		−0.78896371		+0.49501450
e	0.0713383	i	5.17776		−0.35455946		+0.11705006
P	7.85	H	10.5	G	0.15	U	4

Residuals in seconds of arc

861107	010	0.4−	0.6+	970103	411	1.0+	0.7+	970127	411	0.1−	0.6+
861107	010	0.3+	0.5−	970103	411	0.1+	0.8+	970127	411	0.4+	0.5+
890131	675	0.0	1.4−	970109	411	0.5−	0.3−	970212	411	0.3+	0.2+
890131	675	0.1−	0.2−	970109	411	0.4−	0.3+	970212	411	0.3−	0.1−
970102	411	0.8+	0.1−	970116	411	0.0	0.4−				
970102	411	0.5−	0.6−	970116	411	0.4−	0.0				

1997 AR$_2$ = 1980 BH$_4$ = 1992 HE$_7$

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	28.60271		(2000.0)		**P**		**Q**
n	0.17439006	ω	5.07289		−0.52462339		−0.85053378
a	3.1728891	Ω	116.57454		+0.77962518		−0.49739942
e	0.1394267	i	2.36548		+0.34198666		−0.17083941
P	5.65	H	12.5	G	0.15	U	3

Residuals in seconds of arc

800122	095	0.3−	1.4−	970110	411	0.5−	0.3+	970331	704	(3.3−	0.8+)
920426	691	0.2+	0.1+	970110	411	0.2−	0.2+	970331	704	0.1+	0.4−
920426	691	0.2−	0.2−	970115	411	0.0	0.2−	970331	704	1.4+	1.6−
970103	411	0.3+	0.2+	970115	411	0.1+	0.4+	970401	704	0.7−	1.0+
970103	411	0.1+	0.1+	970128	411	0.0	0.0	970401	704	0.1+	1.2+
970104	411	0.1+	0.1+	970128	411	0.3+	0.1+				
970104	411	0.1−	0.1+	970331	704	0.9−	0.1−				

1997 AH$_8$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	52.99752		(2000.0)		**P**	**Q**	
n	0.28325976	ω	337.14539		−0.35464020	−0.93036694	
a	2.2962163	Ω	133.48366		+0.87643254	−0.36542434	
e	0.0594379	i	7.36358		+0.32572433	−0.02970530	
P	3.48	H	14.5	G	0.15	U	5

From 11 observations 1997 Jan. 2–Apr. 1, mean residual 0″.31.

1997 CN$_{13}$ = 1977 QO$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	229.89883		(2000.0)		**P**	**Q**	
n	0.27855210	ω	163.28324		+0.48289038	+0.87047089	
a	2.3220154	Ω	135.46854		−0.81818047	+0.48731623	
e	0.1268484	i	7.81668		−0.31208587	+0.06930592	
P	3.54	H	14.0	G	0.15	U	4

Residuals in seconds of arc

770820	808	0.9+	0.2+	970210	046	0.0	0.2+	970227	046	0.0	0.4−
770822	808	0.9−	0.2−	970210	046	0.1−	0.1−	970305	046	0.3−	0.3−
970207	046	0.3−	0.1+	970210	046	0.1+	0.1−	970305	046	0.2−	0.0
970207	046	0.4−	0.1+	970217	046	0.7+	0.1−	970305	046	0.4−	0.2+
970207	046	0.3−	0.1+	970217	046	0.5+	0.1−	970308	046	0.1−	0.3−
970209	046	0.2−	0.1−	970217	046	0.2+	0.1+	970308	046	0.5−	0.8+
970209	046	0.1+	0.1−	970227	046	0.6+	0.9+	970308	046	0.1−	0.5−
970209	046	0.0	0.1−	970227	046	0.6+	0.3+				
970209	046	0.3−	0.1+	970227	046	0.4+	0.4−				

1997 CR$_{19}$ = 1970 EO = 1986 XE$_2$

Id. S. Nakano

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	37.46685		(2000.0)		**P**	**Q**	
n	0.21916993	ω	121.36464		−0.77758629	−0.62735300	
a	2.7244703	Ω	19.88124		+0.52637871	−0.68626276	
e	0.0675864	i	7.14223		+0.34392589	−0.36806472	
P	4.50	H	12.5	G	0.15	U	5

Residuals in seconds of arc

700307	095	0.3−	0.6−	970211	411	0.1−	0.6+	970301	411	0.0	0.1+
861201	010	(5.5+	0.3−)	970211	411	0.0	0.6+	970301	411	0.4−	0.4−
861201	010	0.5+	3.1−	970212	411	0.2−	0.3+	970309	411	0.2+	0.0
861203	010	2.2−	1.7+	970212	411	0.0	0.0	970309	411	0.3+	0.7+
861203	010	2.1+	1.7+	970214	411	0.1+	0.1+				
861203	010	0.5−	0.4−	970214	411	0.3+	1.3−				

1997 CJ$_{29}$ = 1987 EX = 1992 UF$_4$ = 1994 GJ$_{10}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	5.54305		(2000.0)		**P**	**Q**	
n	0.28931167	ω	12.29808		−0.97525271	−0.21944406	
a	2.2640816	Ω	154.97621		+0.19706774	−0.91805861	
e	0.0666720	i	3.65332		+0.10023203	−0.33017071	
P	3.41	H	13.5	G	0.15	U	2

Residuals in seconds of arc

870304	688	1.4+	1.5−	940415	675	0.0	0.4+	970217	327	0.8+	0.1+
870304	688	1.3−	2.0+	970131	691	1.2−	0.7−	970331	704	0.9+	0.2+
921026	400	0.8+	1.8+	970131	691	1.2−	0.7−	970331	704	0.8+	0.3+
921026	400	1.9−	1.1−	970131	691	1.5−	0.0	970331	704	1.2+	0.7−
921028	400	0.4−	2.1+	970214	327	0.3−	0.1+	970331	704	1.0+	0.0
921028	400	1.2+	0.6−	970214	327	0.4−	0.1+	970401	704	0.3+	0.0
940414	675	0.2+	0.5+	970214	327	1.0−	0.3+	970401	704	1.3+	0.2+
940414	675	0.3−	0.0	970217	327	0.9+	0.0				
940415	675	0.3+	0.3+	970217	327	0.2−	0.2+				

1997 FT$_3$ = 1995 SO$_{53}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	21.72733		(2000.0)		**P**	**Q**	
n	0.28267555	ω	336.21327		−0.98903781	+0.14164809	
a	2.2993789	Ω	212.01701		−0.11968899	−0.93446428	
e	0.0992682	i	4.51267		−0.08647979	−0.32666854	
P	3.49	H	16.0	G	0.15	U	5

Residuals in seconds of arc

950928	327	0.3+	0.1+	950929	327	0.4−	0.1+	970405	704	0.0	0.3+
950928	327	0.5+	0.0	970331	704	0.6+	0.2−	970405	704	0.0	0.9−
950928	327	0.2+	0.3−	970331	704	0.1+	0.6+	970406	704	0.1+	0.2+
950928	327	0.4+	0.0	970403	704	0.0	0.1−	970406	704	0.1−	0.5−
950929	327	0.8−	0.8+	970403	704	0.5−	0.7+	970407	704	0.2+	0.4+
950929	327	0.3−	0.0	970403	704	0.2−	0.6−	970407	704	0.0	0.0
950929	327	0.2+	0.7−	970403	704	0.2−	0.0				

1997 FZ$_3$ = 1996 AL$_9$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	230.51163		(2000.0)		**P**	**Q**	
n	0.19512053	ω	148.38287		+0.95781682	+0.28729247	
a	2.9439746	Ω	194.92614		−0.26905809	+0.88783888	
e	0.1231092	i	1.57272		−0.10096871	+0.35945120	
P	5.05	H	14.0	G	0.15	U	5

Residuals in seconds of arc

960113	691	0.1−	0.2+	970331	704	1.2+	0.7+	970407	704	0.2−	0.4+
960113	691	0.1−	0.2+	970403	704	1.2−	0.2−	970407	704	0.6−	0.8+
960113	691	0.2−	0.2+	970403	704	1.0−	0.1−	970427	691	1.1−	1.4−
960126	691	0.4+	0.0	970405	704	0.8+	0.9+	970508	691	0.2−	1.7−
960126	691	0.3+	0.3−	970405	704	1.3−	0.9−	970508	691	1.6−	1.8+
960126	691	0.4−	0.4−	970407	704	0.5+	1.7+	970508	691	2.0+	1.0−
970331	704	2.1+	0.6−	970407	704	0.4+	0.5−				

1997 FB_4 = 1992 GJ_2

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	288.50020			(2000.0)		**P**		**Q**			
n	0.19109223		ω	267.60506		+0.26724369		+0.96205293			
a	2.9852041		Ω	18.18658		−0.79903057		+0.25318928			
e	0.0767881		i	10.16647		−0.53863806		+0.10173177			
P	5.16		H	14.0	G	0.15		U	5		

Residuals in seconds of arc

920404	809	0.5+	0.8−	970331	704	1.4−	0.1−	970406	704	0.8+	1.3+
920404	809	0.1−	0.9−	970403	704	0.3−	0.1+	970406	704	0.9+	0.2+
920404	809	0.1−	1.3−	970403	704	0.6−	0.3+	970407	704	0.5+	0.4+
920406	809	0.0	1.4+	970405	704	0.5−	1.5−	970407	704	1.0+	0.8+
920406	809	0.2−	0.7+	970405	704	0.5−	0.0	970505	691	0.2−	0.5−
920406	809	0.0	1.0+	970405	704	0.1+	0.7−	970505	691	0.2−	0.3−
970331	704	0.2+	0.6−	970405	704	0.2+	0.3+	970505	691	0.0	0.2+

1997 GJ = 1993 FZ_{34}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	357.15567			(2000.0)		**P**		**Q**			
n	0.24488868		ω	162.79730		−0.85572352		+0.51679210			
a	2.5302120		Ω	48.34840		−0.47869827		−0.77178930			
e	0.0994177		i	1.97509		−0.19643121		−0.37049589			
P	4.02		H	14.5	G	0.15		U	6		

Residuals in seconds of arc

930319	809	0.6+	1.0+	970309	809	0.4−	0.1−	970404	566	0.2−	0.2−
930320	809	0.3+	1.1+	970309	809	0.1+	0.0	970404	566	0.2−	0.3+
930324	809	0.0	0.0	970309	809	0.1+	0.2+	970404	566	0.1+	0.0
970308	809	0.0	0.4−	970404	566	0.3+	0.3−	970405	566	0.6−	0.3−
970308	809	0.1−	0.2+	970404	566	0.2−	0.7−	970405	566	0.2−	0.1−
970308	809	0.3+	0.6−	970404	566	0.6+	0.1+	970405	566	0.5−	0.3−

1997 GX_7 = 1997 GT_{21} = 1997 JP_{18} = 1996 JZ_1

Id. B. G. Marsden (d, *MPC* 30037), G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	143.92576			(2000.0)		**P**		**Q**			
n	0.17462732		ω	329.29063		+0.33924536		−0.93979006			
a	3.1700146		Ω	100.85141		+0.87139457		+0.29740230			
e	0.1887499		i	2.41120		+0.35437846		+0.16836426			
P	5.64		H	14.0	G	0.15		U	6		

Residuals in seconds of arc

960510	327	0.9−	0.2−	970406	704	0.7+	1.1−	970430	704	0.9+	0.9−
960510	327	0.5−	0.2+	970407	809	0.3+	1.7+	970430	704	0.2+	0.5−
960510	327	0.3+	0.4+	970407	809	1.9−	2.2+	970430	704	0.0	0.2−
960511	327	0.0	0.1+	970407	809	0.2−	1.2+	970430	704	0.1−	0.0
960511	327	0.8+	1.0−	970408	809	0.1+	2.3+	970430	704	0.9−	0.3+
960511	327	0.3+	0.0	970408	809	0.1−	0.6+	970505	704	0.7+	1.0−
970402	704	0.7+	0.2−	970408	809	0.2−	1.5+	970505	704	0.2+	0.4−
970402	704	0.3+	0.9+	970408	704	0.2−	0.2−	970505	704	1.0−	1.7−
970406	704	0.1+	0.2−	970408	704	0.6+	0.2+	970505	704	0.5+	1.2−
970406	704	0.5+	1.1−	970408	704	0.5+	0.3−	970505	704	1.9−	0.5+
970406	704	0.6+	0.7−	970408	704	0.3−	1.5−				

1997 GK_{25}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	333.13839			(2000.0)		**P**		**Q**			
n	0.26892039		ω	51.43900		−0.42113845		+0.90695423			
a	2.3771334		Ω	193.66251		−0.84324189		−0.39506776			
e	0.1737065		i	2.12122		−0.33404420		−0.14613521			
P	3.67		H	15.0	G	0.15		U	5		

From 19 observations 1997 Mar. 5–June 3, mean residual 0″.83.

1997 GQ_{27} = 1990 SA_{21} = 1995 YU_{25}

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	205.09610			(2000.0)		**P**		**Q**			
n	0.23619435		ω	270.29263		+0.88958236		−0.39782748			
a	2.5919287		Ω	113.15867		+0.45131688		+0.84125658			
e	0.1887892		i	14.12974		−0.07040102		+0.36608832			
P	4.17		H	12.5	G	0.15		U	3		

Residuals in seconds of arc

900926	808	1.6−	1.1+	970402	327	0.5−	1.6+	970416	327	0.4+	0.2−
900926	808	1.5+	1.0−	970402	327	0.3+	0.1+	970416	327	1.0−	0.3−
951231	691	0.2+	0.0	970409	327	0.6+	0.0	970427	658	0.8−	0.7−
951231	691	0.0	0.0	970409	327	0.8+	0.0	970427	658	0.0	0.1+
951231	691	0.2−	0.0	970409	327	0.4+	0.1−	970427	658	0.7−	0.5−
970402	327	0.2+	0.0	970416	327	0.3+	0.1−				

1997 GA_{37} = 1995 UU_5 = 1995 UN_{38}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	147.32056			(2000.0)		**P**		**Q**			
n	0.29494724		ω	210.77979		+0.52859129		−0.84778046			
a	2.2351491		Ω	207.37984		+0.79667076		+0.51298248			
e	0.1068884		i	5.38037		+0.29309888		+0.13460039			
P	3.34		H	15.5	G	0.15		U	5		

Residuals in seconds of arc

951021	399	0.8+	0.1−	970312	809	0.4−	0.3+	970404	566	0.7−	0.2+
951021	399	0.8+	2.3+	970312	809	0.3−	0.2+	970404	566	0.9−	0.3+
951022	691	0.7−	0.5−	970312	809	1.0+	0.7−	970404	566	1.3−	0.2+
951022	691	0.5−	0.4−	970313	809	0.1−	1.0+	970405	704	2.0−	0.5−
951022	691	0.4−	0.6−	970313	809	0.8+	1.2−	970405	704	0.7+	0.7+
951027	691	0.0	0.1−	970313	809	1.2−	0.5+	970405	704	3.4+	0.0
951027	691	0.3−	0.2−	970403	704	0.6−	1.2−	970405	704	0.8+	0.9+
951027	691	0.2+	0.2−	970403	704	0.7+	0.5−				

1997 HQ_1 = 1983 HS_1 = 1993 BN_{15}

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	324.00647			(2000.0)		**P**		**Q**			
n	0.28441084		ω	243.43382		−0.19608214		+0.98041918			
a	2.2900166		Ω	15.29097		−0.87338602		−0.16619312			
e	0.1295039		i	3.94994		−0.44581235		−0.10563177			
P	3.47		H	15.0	G	0.15		U	5		

Residuals in seconds of arc

830416	033	0.3−	0.2−	970331	704	1.3+	0.2−	970430	691	1.1−	0.3+
830416	033	0.2+	0.2−	970331	704	2.2+	0.2−	970430	691	1.1−	0.7+
930123	691	0.1+	0.0	970403	704	1.3+	1.0−	970430	691	1.3−	0.3+
930123	691	0.2−	0.2+	970403	704	1.5+	0.3−	970508	691	1.2−	0.3+

930123	691	0.2−	0.1−	970428	691	1.3−	0.6+	970508	691	1.2−	1.2+
970331	704	1.2+	1.0−	970428	691	1.0−	0.6+	970508	691	0.9−	0.4+
970331	704	2.2+	1.3−	970428	691	1.1−	0.5+				

1997 HV$_8$ = 1994 UZ$_4$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	44.44794		(2000.0)		**P**		**Q**
n	0.18109386	ω	108.79906		−0.99312367		−0.11345793
a	3.0940944	Ω	64.69481		+0.09175100		−0.90741738
e	0.1012886	i	1.82912		+0.07271261		−0.40462452
P	5.44	H	14.5	G	0.15	U	4

Residuals in seconds of arc

941026	691	0.0	0.9+	970408	704	0.1−	0.2−	970501	704	0.0	0.3+
941026	691	0.4−	0.8+	970408	704	0.0	0.3−	970504	327	0.9+	0.3+
941026	691	0.1+	0.7+	970408	704	0.1+	1.0−	970504	327	0.8−	0.5−
941101	691	0.2+	1.8−	970408	704	0.4−	0.1+	970504	327	0.3−	0.6−
941101	691	0.0	0.5−	970430	704	0.0	0.1+	970504	327	0.9−	0.2−
941101	691	0.1+	0.0	970430	704	0.1+	0.1+	970505	704	0.1−	0.0
970402	704	1.0+	0.0	970430	704	0.2+	0.2−	970505	704	0.5+	0.6+
970402	704	0.8+	0.3−	970430	704	0.1+	0.2+	970505	704	0.0	0.3+
970406	704	0.4−	0.6+	970430	704	1.7+	0.3+	970505	704	0.2−	0.4−
970406	704	0.4−	0.7+	970501	704	0.2+	0.1−	970505	704	0.5−	0.3−
970407	704	0.1−	0.3+	970501	704	0.1−	0.2−				
970407	704	0.9−	0.4+	970501	704	0.2−	0.2+				

1997 HT$_{11}$ = 1994 RD$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	334.37333		(2000.0)		**P**		**Q**
n	0.27461827	ω	239.34364		+0.08013868		+0.99569616
a	2.3441376	Ω	35.34566		−0.88478905		+0.09256407
e	0.2294009	i	4.61538		−0.45904916		−0.00458752
P	3.59	H	16.0	G	0.15	U	5

Residuals in seconds of arc

940905	691	0.1+	0.2+	970406	704	0.1−	0.1−	970430	704	0.1−	0.0
940905	691	0.2+	0.0	970406	704	0.3−	0.1−	970430	704	0.1−	0.3+
940905	691	0.4+	0.0	970406	704	0.0	0.7−	970430	704	0.2−	0.4+
940909	691	0.2−	0.3−	970406	704	0.1−	0.1+	970501	704	0.3+	0.1−
940909	691	0.4−	0.1+	970408	704	0.4−	0.2+	970501	704	0.1+	0.4−
940909	691	0.1−	0.1+	970408	704	0.5+	0.0	970501	704	0.0	0.1−
970406	704	0.8+	0.6+	970430	704	0.5+	0.3−	970501	704	0.2−	0.2−
970406	704	0.0	0.1+	970430	704	0.5−	0.6+	970501	704	0.1−	0.2−

1997 JO

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	346.25001		(2000.0)		**P**		**Q**
n	0.28163280	ω	235.24330		−0.62804325		+0.77808627
a	2.3050511	Ω	355.79126		−0.64995914		−0.53296232
e	0.1702508	i	9.39179		−0.42791913		−0.33246493
P	3.50	H	14.5	G	0.15	U	5

From 20 observations 1997 Mar. 5–June 1, mean residual 0″.47.

1997 JL$_4$ = 1981 JU$_3$ = 1982 ST$_1$ = 1982 SX$_4$ = 1990 TZ$_{15}$ = 1994 TN

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

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	277.47353		(2000.0)		**P**		**Q**
n	0.24606188	ω	66.70537		+0.84055996		+0.54028854
a	2.5221630	Ω	260.57022		−0.51044787		+0.76563474
e	0.1331131	i	2.28521		−0.18138889		+0.34912997
P	4.01	H	13.5	G	0.15	U	3

Residuals in seconds of arc

810508	675	3.0−	1.2−	941007	400	0.2−	1.0−	970430	704	0.5−	0.5+
810509	675	2.4+	1.6−	970408	704	0.6+	0.5+	970501	704	0.1+	0.1+
820915	010	(10.8+	5.5+)	970408	704	0.7+	1.2+	970501	704	2.2+	0.1+
820916	010	(7.7−	5.6+)	970430	704	0.2−	0.1+	970501	704	0.4−	0.3−
820918	010	2.8−	1.9+	970430	704	0.2−	0.2+	970501	704	0.7−	0.2+
820926	095	1.5+	2.0+	970430	704	0.1+	0.3+	970501	704	0.6−	0.1−
901015	095	0.5−	1.0−	970430	704	0.3−	0.1+	970505	704	0.0	0.2−
941002	400	0.1+	0.2+	970430	704	0.0	0.0	970505	704	0.0	0.0
941002	400	0.4−	0.1−	970430	704	0.7−	0.3+	970505	704	0.1−	0.1+
941003	400	1.4+	0.7−	970430	704	0.0	0.1+	970505	704	0.1+	0.1−
941003	400	1.3+	0.6−	970430	704	0.1−	0.1+	970505	704	0.6+	0.3+
941007	400	0.7−	0.1−	970430	704	0.0	0.2−				

1997 JJ$_{16}$ = 1990 QC$_{13}$ = 1977 EJ$_3$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Spahr

M	14.45344		(2000.0)		**P**		**Q**
n	0.25282668	ω	52.32572		−0.75662346		+0.65380193
a	2.4769702	Ω	168.49572		−0.61181543		−0.70361260
e	0.1195689	i	2.29840		−0.23065737		−0.27833854
P	3.90	H	14.5	G	0.15	U	4

Residuals in seconds of arc

770315	381	1.2+	0.6+	970503	809	0.1−	0.6−	970607	809	0.9+	1.1+
770315	381	0.7−	0.8+	970504	809	(0.9−	2.6−)	970607	809	0.3+	1.1+
900816	809	0.5−	0.2+	970504	809	(1.6−	2.8−)	970607	809	0.0	1.4+
900816	809	0.0	0.2−	970504	809	0.6−	1.8−	970608	809	0.1+	0.3−
900816	809	0.1+	0.9+	970607	809	0.3−	0.4−	970608	809	0.5+	0.2−
970503	809	0.1−	0.1−	970607	809	0.4−	0.1−	970608	809	0.4+	0.0
970503	809	0.0	0.3−	970607	809	0.6−	0.2+				

1997 JH$_{18}$ = 1997 MH$_{10}$ = 1981 RN$_7$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	323.31380		(2000.0)		**P**		**Q**
n	0.23894380	ω	174.32930		+0.43819854		+0.89576250
a	2.5720074	Ω	121.63898		−0.82811837		+0.43465641
e	0.1993545	i	5.03885		−0.34957402		+0.09318444
P	4.12	H	15.0	G	0.15	U	5

Residuals in seconds of arc

810903	675	0.6+	0.1+	970504	809	0.7−	0.9−	970629	691	1.3−	1.7−
810904	675	0.6−	0.0	970608	809	2.1+	1.3+	970629	691	1.6−	0.9−
970503	809	1.2−	0.7−	970608	809	1.9+	0.8+	970629	691	1.4−	1.3−
970503	809	1.0−	1.0−	970608	809	2.3+	1.3+	970711	691	0.6−	1.3−
970503	809	1.6−	0.8−	970609	809	2.3+	1.1+	970711	691	0.7−	0.3+
970504	809	1.1−	0.9+	970609	809	1.8+	0.9+	970711	691	1.1−	0.0
970504	809	1.6−	0.7+	970609	809	2.5+	0.6+				

1997 LY$_4$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	336.56084		(2000.0)			
n	0.40692506	ω	51.10159		+0.55172504	+0.82235768
a	1.8035427	Ω	252.92894		−0.80314659	+0.47892706
e	0.2717680	i	8.36219		−0.22484447	+0.30717538
P	2.42	H	17.0	G	0.15	U 4

From 152 observations 1997 June 10–Aug. 9, mean residual 0″.42.

1997 MW$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	137.99435		(2000.0)			
n	1.08562999	ω	203.64552		−0.22829943	−0.94889139
a	0.9375940	Ω	260.12809		+0.92482397	−0.14141322
e	0.3466722	i	12.77861		+0.30426960	−0.28214789
P	0.91	H	19.5	G	0.15	U 6

From 126 observations 1997 June 29–Aug. 10, mean residual 0″.64.

1997 MJ$_2$ = 1980 WB$_3$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	137.45292		(2000.0)			
n	0.26744289	ω	5.77748		−0.18612443	−0.97324004
a	2.3858805	Ω	95.00298		+0.89594662	−0.22441783
e	0.0710237	i	7.77482		+0.40328321	+0.04940112
P	3.69	H	15.0	G	0.15	U 5

Residuals in seconds of arc

801129	675	0.2−	0.4+	970609	809	(5.1+	0.4−)	970630	910	0.6+ 0.0
801201	675	0.2+	0.4−	970610	691	0.2+	0.2+	970630	910	0.3+ 0.3−
970608	809	(5.9+	0.7−)	970610	691	0.1+	0.3−	970630	910	0.8+ 0.2+
970608	809	(5.4+	0.4−)	970610	691	0.3+	0.1+	970701	910	0.1+ 0.3+
970608	809	(5.5+	1.0−)	970626	691	1.1−	0.4+	970701	910	0.1+ 0.2+
970609	809	(5.4+	1.0−)	970626	691	0.7−	0.2−	970701	910	0.1+ 0.2+
970609	809	(4.7+	0.1+)	970626	691	1.0−	0.9−			

1997 MD$_{10}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

					P	Q
M	358.86539		(2000.0)			
n	0.00698612	ω	68.91219		+0.54136331	−0.00792483
a	27.1005844	Ω	281.66422		−0.55314738	+0.74972273
e	0.9433127	i	59.14631		+0.63320908	+0.66170463
P	141.08	H	15.5	G	0.15	U 3

From 61 observations 1997 June 29–Aug. 11, mean residual 0″.71.

1997 NA = 1996 AG$_{12}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	280.59974		(2000.0)			
n	0.29266868	ω	122.98331		+0.95860619	+0.27721327
a	2.2467351	Ω	221.02749		−0.28291936	+0.90158326
e	0.1797800	i	5.68418		−0.03210633	+0.33211507
P	3.37	H	16.0	G	0.15	U 4

Residuals in seconds of arc

960115	691	0.2−	0.2−	970608	809	0.5+	0.7+	970701	691	0.0 0.2−
960115	691	0.6−	0.1+	970608	809	0.7+	0.6+	970701	691	0.4− 0.1−
960115	691	0.4−	0.0	970608	809	0.8+	0.1+	970701	691	0.1− 0.1−
960121	691	0.4+	0.1−	970609	809	0.1+	0.6−	970702	691	0.1+ 0.1+
960121	691	0.4+	0.1+	970609	809	1.3−	0.2−	970702	691	0.0 0.6+
960121	691	0.2+	0.0	970609	809	0.6−	0.8−	970702	691	0.1+ 0.0

1997 NV = 1983 RD$_5$ = 1990 RF$_{12}$

Id. B. G. Marsden, G. V. Williams

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

					P	Q
M	292.58804		(2000.0)			
n	0.27397851	ω	98.60398		+0.99510170	−0.03421020
a	2.3477853	Ω	263.39372		−0.00428308	+0.92241173
e	0.1287723	i	5.35742		+0.09876371	+0.38468983
P	3.60	H	14.5	G	0.15	U 4

Residuals in seconds of arc

830905	095	0.2−	0.3+	970703	046	0.3+	0.1−	970723	046	1.2− 0.0
830907	095	1.1+	0.2−	970703	046	0.5+	0.2−	970723	046	0.6− 0.4−
830909	095	0.7−	0.9−	970708	046	0.4+	0.2+	970723	046	0.4− 0.3−
900915	675	0.1+	0.1−	970708	046	0.4+	0.2+	970727	046	1.1− 0.8−
900915	675	0.0	0.6+	970708	046	0.3+	0.3+	970727	046	0.5− 0.5+
970701	046	0.0	0.1−	970709	046	0.3+	0.3+	970727	046	0.0 0.8−
970701	046	0.3+	0.1−	970709	046	0.6+	0.2+	970801	046	0.8− 0.2+
970701	046	0.6+	0.5−	970709	046	0.6+	0.3+	970801	046	0.4− 0.3+
970701	046	0.4+	0.4−	970712	046	0.2+	0.2+	970807	046	0.2− 0.3+
970702	046	0.2+	0.6−	970712	046	0.6+	0.2+	970807	046	0.5− 0.5+
970703	046	0.0	0.0	970712	046	0.4+	0.1−	970807	046	0.5− 0.6+
970703	046	0.8+	0.5+	970723	046	0.9−	0.2−			

1997 NA$_1$ = 1976 UG$_6$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

					P	Q
M	327.80835		(2000.0)			
n	0.18295948	ω	139.47804		+0.91227583	+0.40949295
a	3.0730251	Ω	196.35477		−0.38295856	+0.84565732
e	0.2478010	i	1.68226		−0.14524308	+0.34231450
P	5.39	H	14.5	G	0.15	U 5

Residuals in seconds of arc

761022	381	0.2−	0.2+	970705	684	0.2−	0.6+	970729	684	0.6+ 0.5−
761022	381	0.5−	0.0	970705	684	0.4+	0.4+	970729	684	0.7+ 0.2−
761024	381	0.5+	0.0	970706	684	0.8−	0.3−	970805	684	0.3− 0.3−
970704	684	0.3−	0.1−	970711	684	0.5+	0.0	970805	684	0.5− 0.2−
970704	684	0.0	0.1+	970711	684	0.1+	0.3+	970805	684	0.2− 0.2−
970704	684	0.3+	0.1−	970711	684	0.3+	0.4+			
970705	684	0.8−	0.4+	970729	684	0.0	0.6−			

1997 NC$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

					P	Q
M	113.61767		(2000.0)			
n	1.22437654	ω	16.56899		−0.38192608	−0.87888306
a	0.8653518	Ω	96.62881		+0.81194078	−0.46681664
e	0.2089393	i	16.72333		+0.44145740	+0.09821809
P	0.80	H	18.5	G	0.15	U 6

From 89 observations 1997 July 5–31, mean residual 0″.56.

1997 NQ$_2$ = 1991 CN$_3$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	103.98433		(2000.0)		**P**		**Q**
n	0.21125685	ω	254.89391		−0.87307524		−0.02476000
a	2.7920863	Ω	281.74903		+0.26862714		−0.85789841
e	0.1316938	i	29.82662		−0.40691410		−0.51322243
P	4.67	H	14.0	G	0.15	U	6

Residuals in seconds of arc

910210	413	0.3−	0.4−	970708	595	0.4−	0.3+	970712	595	0.7−	0.6+
910211	413	0.3+	0.4+	970708	595	0.3+	0.4+	970712	595	0.7−	0.2+
970706	595	0.1+	1.1−	970708	595	0.1+	0.0	970724	595	0.1−	0.9+
970706	595	0.1−	0.2−	970710	595	1.3−	0.8−	970724	595	1.5+	0.9−
970707	595	0.5+	0.7−	970710	595	0.8+	1.2+				

1997 NZ$_2$ = 1992 HS$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	347.54780		(2000.0)		**P**		**Q**
n	0.21914802	ω	232.89358		+0.42083578		+0.90462331
a	2.7246519	Ω	62.12379		−0.80618706		+0.40707231
e	0.1632423	i	4.37830		−0.41588420		+0.12628859
P	4.50	H	15.0	G	0.15	U	4

Residuals in seconds of arc

920427	691	0.3−	0.4−	970705	360	0.2−	0.2−	970708	610	(4.3+ | 1.9−)
920427	691	0.3−	0.1−	970706	402	0.5−	0.1+	970709	610	(3.3+ | 0.4+)
920427	691	0.6−	0.2−	970706	402	0.5−	0.1−	970709	610	(3.0+ | 0.9+)
920507	691	0.4−	0.2+	970706	402	0.5−	0.1+	970714	104	2.0+	0.5−
920507	691	0.2−	0.6−	970707	610	0.2−	0.0	970714	104	1.3−	0.5−
920507	691	1.8+	1.1+	970707	610	0.1−	0.4+	970714	104	0.2+	0.5−
970703	402	0.5+	0.4−	970707	610	0.1+	0.7+	970727	104	0.2+	0.4−
970703	402	0.4+	0.3−	970707	610	0.4+	1.1+	970727	104	1.1−	0.1−
970703	402	0.3+	0.1−	970707	610	(3.5+ | 2.8+)	970803	566	0.4−	0.1−
970705	360	0.1−	0.0	970707	610	(2.9+ | 2.3+)	970803	566	0.3+	0.6+
970705	360	0.1−	0.2−	970708	610	(2.4+ | 1.8+)	970803	566	0.7+	0.3+

1997 NL$_6$ = 1977 EN$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	359.63115		(2000.0)		**P**		**Q**
n	0.30370984	ω	85.56216		+0.14474728		+0.98932143
a	2.1919475	Ω	192.79851		−0.93563661		+0.13123969
e	0.1892847	i	4.41903		−0.32191979		+0.06339755
P	3.25	H	15.5	G	0.15	U	5

Residuals in seconds of arc

770312	381	0.5−	0.9+	770315	381	1.6−	0.5+	970712	595	0.5+	0.0
770312	381	0.9+	0.0	770315	381	1.8−	0.3+	970712	595	0.3−	0.0
770314	381	1.1+	0.3+	970712	595	0.1+	0.0	970722	595	0.1−	0.1+
770314	381	2.0+	1.9−	970712	595	0.1−	0.1+	970722	595	0.0	0.2−

1997 NR$_6$ = 1992 OW$_7$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	296.62222		(2000.0)		**P**		**Q**
n	0.19130809	ω	229.03314		+0.98417217		+0.07560162
a	2.9829581	Ω	126.02650		−0.02756878		+0.95874055
e	0.1157379	i	11.43073		−0.17505741		+0.27404552
P	5.15	H	12.5	G	0.15	U	5

Residuals in seconds of arc

920721	809	0.4+	0.3+	920722	809	0.0	0.0	970711	327	0.6+	0.5−
920721	809	0.3+	0.2+	970710	327	0.6−	0.1−	970711	327	0.3−	0.0
920721	809	0.2+	0.0	970710	327	0.2−	0.3+	970725	327	0.1+	0.4+
920722	809	0.5−	0.4−	970710	327	0.0	0.3+	970725	327	0.0	0.1+
920722	809	0.4−	0.0	970711	327	0.4+	0.1−	970725	327	0.1−	0.4−

1997 OX = 1951 EE$_1$ = 1952 HH$_1$ = 1979 FF$_4$ = 1981 PC = 1991 LG$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Nakano

M	267.20666		(2000.0)		**P**		**Q**
n	0.17966491	ω	292.18824		+0.87146444		−0.44263682
a	3.1104785	Ω	94.63165		+0.49045711		+0.78758675
e	0.0932805	i	12.23561		−0.00124862		+0.42869542
P	5.49	H	11.9	G	0.15	U	2

Residuals in seconds of arc

510309	760	0.2−	0.7−	910606	809	0.7−	1.1−	970724	360	0.1−	0.6+
510309	760	0.3+	0.3−	910606	809	0.0	1.2−	970730	360	0.2−	0.8+
520428	760	1.4−	1.5+	910606	809	0.6−	0.9−	970730	360	0.2−	0.6+
520428	760	2.0+	1.8+	910608	809	0.1+	1.8−	970730	360	0.0	0.6+
790322	033	0.3−	1.3+	910608	809	0.0	2.4−	970801	360	0.1−	1.5+
790322	033	0.9+	0.7+	910608	809	0.4−	1.9−	970801	360	0.3−	1.6+
810805	688	0.9+	2.3−	970724	360	0.1−	1.0+	970803	360	0.2+	0.7+
810805	688	0.5+	0.5−	970724	360	0.0	0.9+	970803	360	0.1+	0.9+

1997 OJ$_1$ = 1996 KF$_5$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	325.06280		(2000.0)		**P**		**Q**
n	0.19800958	ω	249.44231		+0.97431299		+0.21856504
a	2.9152687	Ω	97.90226		−0.18078533		+0.90277647
e	0.0531194	i	3.13992		−0.13427908		+0.37043753
P	4.98	H	15.0	G	0.15	U	5

Residuals in seconds of arc

960522	809	(1.0− | 2.7+)	970728	691	0.4+	0.2+	970807	118	0.4−	0.6+
960522	809	0.0	1.1+	970728	691	0.5+	0.1+	970807	118	0.6−	1.2−
960522	809	0.8+	0.5−	970728	691	0.5+	0.2−	970808	118	0.6−	0.3−
960524	809	0.5−	0.6+	970731	691	0.6−	0.1+	970808	118	0.4+	0.2−
960524	809	0.4−	1.2−	970731	691	0.8−	0.1+	970808	118	1.0+	0.1+
960524	809	(2.1+ | 3.4−)	970731	691	0.6−	0.1+	970809	118	0.8+	0.6+

3087 P-L = 1997 OW$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	316.80812		(2000.0)		**P**		**Q**
n	0.18362861	ω	87.58861		+0.97181698		+0.18734972
a	3.0655553	Ω	261.58770		−0.22836338		+0.89879852
e	0.1069927	i	8.31620		+0.05849725		+0.39630961
P	5.37	H	13.0	G	0.15	U	5

Residuals in seconds of arc

600924	675	0.1+	0.0	601017	675	0.4+	0.4−	601026	675	0.5−	0.8+
600925	675	0.5−	0.4+	601022	675	0.3−	0.3+	970730	595	0.4−	0.0
600926	675	0.2+	0.2+	601022	675	0.5+	0.4−	970730	595	0.0	0.0
600927	675	0.3−	0.1−	601022	675	0.7+	0.2−	970801	595	0.0	0.3+
600928	675	0.0	0.9−	601024	675	0.0	0.8−	970801	595	0.4−	0.3−
600928	675	0.4−	0.1+	601024	675	0.5−	0.5+	970808	595	0.5+	0.0
600929	675	1.2−	1.0−	601025	675	0.4+	0.0	970808	595	0.2+	0.0

601017	675	0.2−	0.4+	601025	675	0.8+	0.4+
601017	675	0.8+	0.7+	601026	675	0.1+	0.1+

3090 P-L = 1997 HP$_{17}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	140.53298		(2000.0)		**P**		**Q**
n	0.17511994	ω	198.20162		+0.35461397		−0.91508848
a	3.1640668	Ω	231.48578		+0.88545836		+0.39462491
e	0.2312115	i	14.20401		+0.30035384		−0.08297136
P	5.63	H	13.5	G	0.15	U	5

Residuals in seconds of arc

600924	675	0.3−	0.5+	601024	675	0.1−	0.4−	970430	704	0.4−	0.4+
600925	675	0.6−	0.4−	601025	675	0.2+	0.4+	970430	704	0.1+	0.3+
600926	675	0.6+	0.1−	601025	675	0.4−	1.0−	970430	704	0.7+	0.1−
600928	675	0.1+	0.1−	601026	675	0.2−	0.9+	970430	704	3.5−	0.3+
601017	675	0.3+	0.8+	601026	675	0.6−	0.3−	970430	704	0.2−	0.3+
601017	675	0.0	0.3−	970430	704	0.5+	0.4+	970501	704	0.1+	0.2+
601017	675	0.0	0.2−	970430	704	0.3−	0.1−	970501	704	0.1−	0.3−
601022	675	0.9+	0.4−	970430	704	0.3+	0.8−	970501	704	2.1+	0.7−
601022	675	0.1−	0.3+	970430	704	0.8+	0.2−	970501	704	0.1+	0.3+
601022	675	0.3+	0.3+	970430	704	0.9+	0.6+	970501	704	1.1−	0.5−

4315 P-L = 1997 EX$_{50}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	295.35180		(2000.0)		**P**		**Q**
n	0.20281061	ω	54.33334		−0.07646959		+0.99698537
a	2.8690774	Ω	211.28875		−0.92277541		−0.07575585
e	0.0197075	i	1.44940		−0.37767439		−0.01676955
P	4.86	H	14.5	G	0.15	U	6

Residuals in seconds of arc

600924	675	0.3+	0.6+	601022	675	0.2+	0.1−	970305	809	1.3+	2.0+
600925	675	0.2−	0.2−	601026	675	0.1−	0.1+	970306	809	0.6−	0.9−
600926	675	0.2−	0.3−	970305	809	(1.7+	2.7+)	970306	809	0.6−	1.2−
600928	675	0.1+	0.2−	970305	809	1.0+	1.5+	970306	809	1.1−	1.5−

6039 P-L = 1953 GB$_1$ = 1997 OM$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	222.79120		(2000.0)		**P**		**Q**
n	0.20918668	ω	264.38128		−0.01345612		−0.99974746
a	2.8104769	Ω	186.47219		+0.96894935		−0.00859285
e	0.1738787	i	9.18793		+0.24689289		−0.02076480
P	4.71	H	13.0	G	0.15	U	3

Residuals in seconds of arc

530405	760	0.1+	0.1+	601022	675	0.3+	1.0−	970731	046	0.1−	0.0
530405	760	0.4−	1.4−	601025	675	0.6+	0.1+	970731	046	0.5+	0.1+
600924	675	0.3−	0.2+	601026	675	0.6−	1.2+	970731	046	0.4+	0.2+
600925	675	0.7+	0.3−	601026	675	0.8−	0.3−	970731	046	0.0	0.2+
600926	675	0.3−	0.8−	970729	046	0.2−	0.1−	970731	046	0.0	0.2+
600928	675	0.6+	0.5−	970729	046	0.2−	0.3−				
601017	675	0.1−	0.1+	970729	046	0.3−	0.1−				

7061 P-L = 1996 BF$_{18}$ = 1997 LJ$_{14}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	216.95742		(2000.0)		**P**		**Q**
n	0.25985200	ω	179.05883		+0.84245168		−0.53610713
a	2.4321219	Ω	213.53671		+0.49367846		+0.80790571
e	0.1290296	i	5.55912		+0.21577013		+0.24469882
P	3.79	H	15.0	G	0.15	U	3

Residuals in seconds of arc

600926	675	0.2+	1.0−	960129	691	0.4−	0.0	970608	809	1.4+	0.1+
600928	675	1.9+	0.8+	960129	691	0.4−	0.1+	970608	809	0.6+	0.0
601017	675	0.1−	0.4−	960129	691	0.4−	0.1+	970609	809	0.4+	0.6−
601022	675	0.8−	0.4+	960217	691	1.6+	0.0	970609	809	0.5−	0.1+
601024	675	0.5−	0.3+	960217	691	0.3+	0.1−	970609	809	1.7−	0.6+
601026	675	0.4−	0.4+	960217	691	0.6−	0.1+				
601026	675	0.7−	0.1−	970608	809	0.2−	0.6+				

4220 T-1 = 1997 EN$_{54}$

Id. G. V. Williams, E. Bowell (1952 observations)

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	261.57539		(2000.0)		**P**		**Q**
n	0.18974486	ω	129.63553		+0.64587444		+0.76344129
a	2.9993193	Ω	180.60569		−0.74389867		+0.62877783
e	0.0953477	i	10.35510		−0.17164201		+0.14763411
P	5.19	H	13.0	G	0.15	U	4

Residuals in seconds of arc

520915	675	0.1+	0.3+	710327	675	(1.1+	3.5−)	970308	809	0.5+	0.3−
520915	675	0.2−	0.0	710402	675	0.8−	0.0	970308	809	0.8−	0.4+
710324	675	1.2−	0.7−	710416	675	1.2+	0.5−	970308	809	0.7−	0.7−
710324	675	0.1−	0.7−	710416	675	1.4+	0.2+	970309	809	0.3+	0.6+
710325	675	2.3−	0.7+	710513	675	0.0	0.3+	970309	809	0.9+	0.7+
710326	675	(3.0−	2.9−)	710514	675	0.8+	0.7−	970309	809	0.3+	1.1+
710326	675	(3.5−	3.1−)	710516	675	1.0+	0.2−				

4878 T-1 = 1978 RM$_{11}$ = 1992 EH$_{15}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	173.94007		(2000.0)		**P**		**Q**
n	0.18394265	ω	172.99999		+0.96192557		+0.27205359
a	3.0620651	Ω	171.08175		−0.25823627		+0.93607264
e	0.1062998	i	9.72712		−0.08951663		+0.22305797
P	5.36	H	12.0	G	0.15	U	4

Residuals in seconds of arc

710513	675	0.5−	1.4+	780910	809	0.4−	1.4+	920301	809	0.1+	0.0
710514	675	0.3+	0.4−	780910	809	0.2+	1.6−	920303	809	1.3−	0.4+
710516	675	0.2+	0.9−	780910	809	0.2−	0.3+	920306	809	1.2+	0.4−
780906	809	0.1−	0.1+	780910	809	0.5+	0.2−				

2235 T-2 = 1996 TR$_{15}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	47.52174		(2000.0)		**P**		**Q**
n	0.17118286	ω	187.53625		+0.99920049		−0.03984318
a	3.2123969	Ω	174.74382		+0.03830299		+0.93037419
e	0.1586476	i	2.06457		+0.01145652		+0.36443982
P	5.76	H	15.0	G	0.15	U	6

Residuals in seconds of arc

730919	675	1.0−	0.5+	730929	675	0.2+	0.2−	961009	327	0.2−	0.4−
730919	675	0.5−	1.6+	730930	675	0.7+	0.3+	961009	327	0.0	0.1−
730920	675	0.1+	2.2−	730930	675	0.5+	1.7−	961013	566	0.2+	0.2−
730924	675	0.1−	0.5+	731004	675	1.0−	0.0	961013	566	0.2−	0.1+
730924	675	0.4−	1.8+	731004	675	1.5−	1.3+	961013	566	0.1−	0.1+
730925	675	0.8+	1.0−	731005	675	0.3+	0.1−	961014	327	0.1+	0.2−
730925	675	2.0+	1.1−	731005	675	0.1+	0.5−	961014	327	0.0	0.1+
730929	675	0.3−	0.7+	961009	327	0.1+	0.8+	961014	327	0.0	0.1−

3310 T-2 = 1997 GA$_{44}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	183.81164		(2000.0)		**P**	**Q**	
n	0.27311216	ω	279.01712		+0.89659673	−0.44116826	
a	2.3527477	Ω	107.16911		+0.42050272	+0.82083598	
e	0.1190782	i	2.31144		+0.13889481	+0.36276558	
P	3.61	H	15.5	G	0.15	U	5

Residuals in seconds of arc

730919	675	0.2−	0.5−	730930	675	0.4−	0.7−	731005	675	0.6−	0.0
730919	675	0.3−	1.1−	730930	675	0.7−	1.3−	970403	704	0.3+	0.6+
730920	675	1.0−	0.3+	730930	675	1.0−	0.1+	970403	704	0.4+	1.1−
730924	675	0.1+	0.0	730930	675	0.7+	0.5+	970403	704	0.3−	0.7+
730924	675	1.2+	1.6+	731004	675	0.8−	2.1+	970403	704	0.4−	0.5+
730925	675	0.7+	0.8−	731004	675	1.2−	1.3+	970411	704	0.5−	0.1+
730925	675	0.7+	0.0	731005	675	2.3+	1.1−	970411	704	0.6+	0.5−
730929	675	1.0−	0.1+	731005	675	1.1−	0.6−				
730929	675	0.4+	1.4+	731005	675	2.1+	1.2−				

4095 T-2 = 1993 FX$_{32}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	201.91103		(2000.0)		**P**	**Q**	
n	0.18165020	ω	103.51621		+0.21643834	+0.97628390	
a	3.0877737	Ω	178.94552		−0.96678766	+0.21502902	
e	0.1339459	i	15.50115		−0.13592668	+0.02514494	
P	5.43	H	13.5	G	0.15	U	5

Residuals in seconds of arc

730919	675	0.7−	0.3−	730925	675	0.7−	0.6+	731004	675	0.3−	2.0+
730919	675	0.0	0.2−	730925	675	0.2−	0.1−	731005	675	0.2+	0.6+
730919	675	0.2−	1.1−	730929	675	1.8+	1.4−	731005	675	0.1−	0.6+
730919	675	0.5−	0.8+	730929	675	1.7+	3.0−	930319	809	0.6−	0.5+
730920	675	0.5−	0.7+	730930	675	0.8+	1.3−	930320	809	0.3+	2.2−
730924	675	1.3−	1.1+	730930	675	0.9+	1.4−	930324	809	0.8−	0.1+
730924	675	0.6−	1.7+	731004	675	0.2−	0.4−	930416	413	1.0+	0.5+

4194 T-2 = 1996 PB$_9$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	104.70725		(2000.0)		**P**	**Q**	
n	0.21095326	ω	123.49364		−0.00412858	+0.99931555	
a	2.7947645	Ω	146.21169		−0.93800698	+0.00887134	
e	0.1252325	i	3.79016		−0.34659179	−0.03591295	
P	4.67	H	14.5	G	0.15	U	5

Residuals in seconds of arc

730919	675	0.9+	0.3+	730929	675	1.5+	2.0−	960808	809	1.3−	0.3−
730919	675	0.1+	1.2−	730930	675	1.1+	0.9+	960808	809	1.0−	1.1−
730920	675	0.6−	0.2−	730930	675	0.7+	0.2−	960809	809	1.1+	0.7+
730924	675	0.4−	2.4+	731004	675	1.7−	0.3−	960809	809	0.6+	0.2−
730924	675	1.5−	0.2−	731004	675	0.8−	0.1+	960809	809	0.7+	0.5+
730925	675	2.6−	0.5+	731005	675	1.3+	0.3−	960908	809	0.5−	0.3+
730925	675	0.2−	1.8+	731005	675	0.1+	0.4+	960908	809	0.6+	0.1+
730929	675	1.7+	1.7−	960808	809	0.4+	1.2+	960908	809	0.7−	1.3−

5049 T-2 = 1997 OU$_1$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Marsden

M	71.61634		(2000.0)		**P**	**Q**	
n	0.28123314	ω	282.80206		−0.90454671	+0.40237762	
a	2.3072344	Ω	281.06617		−0.31372504	−0.85208799	
e	0.1034032	i	8.26171		−0.28874182	−0.33472124	
P	3.50	H	16.0	G	0.15	U	6

Residuals in seconds of arc

730920	675	0.0	0.2−	730930	675	0.2−	0.4+	970803	552	0.1+	0.6+
730920	675	1.5+	0.9−	970726	910	0.2+	0.0	970803	552	0.1−	0.1+
730924	675	1.4−	1.0+	970726	910	0.3+	0.1−	970804	552	0.3−	1.2−
730924	675	0.9−	1.1+	970726	910	0.2+	0.3−	970804	552	0.8−	0.5−
730925	675	0.3−	2.0−	970730	552	0.6−	0.4+	970804	552	0.6−	1.1−
730925	675	1.0−	1.8+	970730	552	1.0−	0.4+	970808	552	0.4+	0.1+
730929	675	2.4+	0.2+	970802	552	0.0	0.3−	970808	552	1.0+	0.5+
730929	675	0.3+	1.6−	970802	552	0.9+	1.0+	970808	552	0.6−	0.2−
730930	675	0.4−	0.1+	970803	552	1.0+	0.6+				

4517 T-3 = 1993 FA$_{34}$

Epoch 1997 June 1.0 TT = JDT 2450600.5 Williams

M	15.62536		(2000.0)		**P**	**Q**	
n	0.28947772	ω	106.68181		−0.01363051	+0.99925752	
a	2.2632158	Ω	162.41878		−0.95684403	−0.00257235	
e	0.1013360	i	6.85188		−0.29028214	−0.03844210	
P	3.40	H	16.0	G	0.15	U	6

Residuals in seconds of arc

771011	675	0.5+	1.2−	771016	675	1.4−	0.6−	930325	691	1.0−	0.1−
771011	675	0.6+	0.6−	930319	809	1.0+	0.2+	930325	691	1.1−	0.2+
771012	675	0.8+	1.3+	930320	809	1.0+	1.6−	930416	413	0.4+	0.0
771012	675	0.1−	0.0	930324	809	0.9+	1.5+				
771016	675	0.3−	1.0+	930325	691	1.1−	0.4−				

Object	H	Epoch	M	ω	Ω	i	e	a	Obs.	Opp.	& Arc	rms	Perts	U	Computer	MPC	Object
1966 CM	13.0	970601	106.57693	357.28812	149.73899	14.04357	0.1094026	2.6415612	32	3	1966–1997	0.71	M-v	4	Marsden	30286	1966 CM
1973 SQ_3	14.0	970601	216.66104	163.26650	189.54003	6.23054	0.1554304	2.3476818	31	3	1973–1997	0.80	M-v	4	Williams	29652	1973 SQ_3
1975 SR	15.5	970601	315.47168	164.80982	190.35668	2.41041	0.2495171	2.3944603	40	6	1975–1997	0.77	M-v	2	Williams	27118	1975 SR
1975 SM_1	16.0	970601	262.68370	219.55911	155.56529	2.98645	0.2221247	2.4254884	19	4	1975–1997	0.69	M-v	2	Williams	27552	1975 SM_1
1976 UR_{15}	14.0	970601	292.40152	338.73626	49.62017	9.89787	0.0569666	2.6370017	22	4	1976–1996	0.72	M-v	2	Williams	27453	1976 UR_{15}
1977 EL_1	14.5	970601	58.70019	132.63836	358.26350	4.75539	0.1623280	2.2329242	21	4	1977–1997	0.59	M-v	3	Marsden	29939	1977 EL_1
1977 QQ_5	15.0	970601	326.21514	247.71129	134.51403	25.19592	0.4660718	2.2263924	99	4	1977–1997	0.52	M-v	1	Marsden	30287	1977 QQ_5
1978 PO_3	14.0	970601	359.19040	273.10352	26.39157	0.94219	0.1318967	2.4438933	35	8	1978–1997	0.98	M-v	2	Williams	27725	1978 PO_3
1978 PW_3	14.0	970601	323.90845	140.14318	169.38599	6.42194	0.1479174	2.4622588	28	5	1978–1997	1.00	M-v	2	Williams	30287	1978 PW_3
1978 QY_1	14.0	970601	286.12964	223.65791	168.50364	4.67151	0.1013046	2.4470092	18	5	1954–1997	0.89	M-v	2	Williams	28314	1978 QY_1
1978 VW_2	14.0	970601	55.23228	356.19493	134.76508	1.73570	0.1561991	3.1668460	17	4	1978–1997	0.91	M-v	2	Williams	26755	1978 VW_2
1978 VE_{11}	15.5	970601	149.11760	264.53535	245.79285	6.13970	0.0568207	2.2148501	23	5	1951–1997	0.38	M-v	1	Williams	29653	1978 VE_{11}
1979 MA_6	14.5	970601	225.24746	329.44811	137.04553	5.84048	0.0589374	2.3116732	31	6	1979–1997	0.81	M-v	1	Williams	27118	1979 MA_6
1979 QC_1	14.0	970601	296.58541	60.44494	326.46235	11.68474	0.1738361	2.3477032	19	4	1954–1997	0.72	M-v	4	Williams	21965	1979 QC_1
1979 QT_1	15.0	970601	41.71395	69.13017	169.42348	1.33123	0.1740822	2.3542161	19	3	1979–1997	0.47	M-v	6	Williams	24383	1979 QT_1
1979 US	13.5	970601	295.64811	35.02288	8.41389	3.75414	0.1335596	2.7653833	48	9	1953–1997	0.80	M-v	1	Marsden	27725	1979 US
1980 PF	14.0	970601	337.51403	17.43090	312.57005	8.30857	0.1618185	2.2626844	29	7	1980–1997	0.94	M-v	2	Williams	24238	1980 PF
1980 RC	15.0	970601	156.96080	238.14051	171.10185	10.74003	0.2429111	2.3777400	18	2	1980–1989	1.16	M-v	6	Marsden	14781	1980 RC
1980 SM	13.5	970601	322.70193	27.16827	340.51370	9.07392	0.1988641	2.6338753	23	4	1980–1997	0.84	M-v	3	Marsden	28882	1980 SM
1981 EN	14.5	970601	177.13976	350.81968	164.13034	9.57942	0.1618421	2.3669067	68	5	1978–1997	0.75	M-v	2	Williams	27453	1981 EN
1981 ED_{12}	14.5	970601	28.62554	337.77542	201.31489	11.40935	0.0805198	2.5082854	35	4	1981–1997	0.97	M-v	4	Williams	29653	1981 ED_{12}
1981 EN_{16}	16.5	970601	100.09965	223.59218	325.51244	7.56440	0.1510642	2.4239401	20	4	1977–1997	0.82	M-v	2	Williams	21967	1981 EN_{16}
1981 EK_{25}	14.5	970601	359.02479	344.74613	309.30757	1.96171	0.1762623	2.4370865	28	6	1981–1997	0.66	M-v	2	Williams	30287	1981 EK_{25}
1981 EZ_{27}	14.5	970601	344.63426	239.28240	59.58340	1.18583	0.1189632	2.4410477	41	7	1981–1997	0.87	M-v	2	Williams	29653	1981 EZ_{27}
1981 EE_{28}	14.0	970601	291.63068	351.86739	33.39862	2.38538	0.0767015	2.8428837	46	6	1954–1997	0.60	M-v	1	Marsden	27726	1981 EE_{28}
1981 GO_1	15.0	970601	143.14671	163.28481	12.25832	2.57032	0.1445636	2.3868725	43	6	1955–1997	0.57	M-v	1	Williams	29653	1981 GO_1
1981 RF_7	13.5	970601	317.46638	28.01331	350.85960	9.00002	0.3274055	3.0718856	16	4	1954–1997	0.86	M-v	2	Williams	24581	1981 RF_7
1981 SN_1	13.5	970601	342.17405	227.79133	145.68101	2.33826	0.3143388	3.0516640	24	7	1949–1997	1.06	M-v	2	Williams	23347	1981 SN_1
1981 SC_7	13.5	970601	315.14093	344.43936	40.51707	8.64671	0.2424820	2.5317232	15	6	1969–1996	0.88	M-v	3	Williams	30287	1981 SC_7
1981 UZ_9	14.0	970601	266.52974	21.07813	42.40932	6.85672	0.2488654	2.1979609	41	4	1981–1997	0.74	M-v	2	Marsden	27566	1981 UZ_9
1982 DC_2	15.5	970601	172.58325	344.05520	164.31191	4.79317	0.1431925	2.2691785	30	4	1982–1997	0.67	M-v	4	Marsden	27324	1982 DC_2
1982 EE	12.5	970601	181.61522	22.67542	110.24141	9.36253	0.0432130	2.7050852	30	6	1982–1997	0.73	M-v	1	Marsden	27553	1982 EE
1982 FG_3	13.5	970601	265.75006	121.77870	302.80945	1.73698	0.1502462	2.2638193	41	5	1951–1997	0.95	M-v	2	Williams	27726	1982 FG_3
1982 KK_1	14.0	970601	82.86175	204.65857	96.67519	4.97437	0.0982172	2.2736163	18	4	1982–1996	0.52	M-v	2	Williams	29654	1982 KK_1
1982 SO_4	13.5	970601	319.58442	54.59190	14.35052	7.55276	0.2886519	2.3925085	29	3	1982–1993	0.58	M-v	3	Williams	30287	1982 SO_4
1982 UF_7	12.5	970601	14.25126	146.57168	218.27075	8.20362	0.1645679	2.9099020	16	4	1982–1997	0.68	M-v	3	Williams	24759	1982 UF_7
1983 CO_3	13.0	970601	215.97240	224.26498	283.00780	14.14644	0.1651227	3.0870449	23	5	1972–1997	0.94	M-v	2	Williams	25078	1983 CO_3
1983 RX_3	13.0	970601	306.24115	136.54417	170.60988	14.10149	0.3212590	2.8653150	30	7	1977–1997	0.67	M-v	2	Williams	30287	1983 RX_3
1983 RB_4	14.5	970601	220.56816	307.82707	49.73316	2.97917	0.2194063	2.4258921	23	5	1968–1997	0.75	M-v	2	Williams	29654	1983 RB_4
1983 TU_1	13.5	970601	262.14716	307.16574	49.28841	8.30275	0.1166431	2.3983743	19	7	1964–1997	0.85	M-v	2	Williams	29940	1983 TU_1
1983 XN_1	12.5	970601	238.01294	109.34039	313.79337	8.55764	0.0732497	3.0034871	40	4	1954–1997	0.65	M-v	2	Williams	29654	1983 XN_1
1984 DQ	13.5	970601	40.66259	251.07068	330.85401	11.07576	0.2244397	2.5530470	61	7	1980–1997	0.60	M-v	1	Williams	29133	1984 DQ
1984 HO_1	15.0	970601	20.21054	233.07542	22.99209	3.39899	0.1018873	2.1487202	23	5	1984–1997	0.76	M-v	2	Williams	29940	1984 HO_1
1984 SU	14.5	970601	178.53312	69.02575	310.04821	2.09305	0.2391337	2.3481449	26	4	1982–1997	0.92	M-v	2	Williams	26578	1984 SU
1984 SB_1	14.5	970601	340.35544	330.19407	351.95183	5.98197	0.1868632	2.2115248	44	5	1984–1997	0.65	M-v	1	Marsden	29133	1984 SB_1
1984 UJ_1	15.0	970601	190.22721	350.92781	28.85291	6.25919	0.2409279	2.3439037	21	4	1984–1997	1.04	M-v	3	Williams	29940	1984 UJ_1
1984 UN_2	13.5	970601	228.54350	140.80926	196.94043	1.60373	0.0516931	2.9115426	30	3	1984–1997	0.70	M-v	4	Williams	26924	1984 UN_2
1984 UX_2	12.5	970601	348.32780	323.19600	15.73053	11.98824	0.2022493	2.6827171	20	7	1931–1997	0.95	M-v	2	Williams	28883	1984 UX_2
1984 UD_3	14.0	970601	182.93922	183.65295	207.84367	6.39012	0.1150812	2.3445644	25	4	1954–1997	0.87	M-v	2	Williams	22492	1984 UD_3
1984 WC_2	13.5	970601	250.30129	141.14118	271.42315	7.72522	0.1486161	2.7890196	22	4	1951–1997	0.38	M-v	1	Williams	25225	1984 WC_2
1985 CV_1	13.0	970601	45.56090	109.51859	44.12737	1.92966	0.1332141	3.2095701	51	4	1985–1997	0.58	M-v	4	Williams	29940	1985 CV_1

1985 PQ	14.0	970601	250.32967	115.89104	153.90904	4.76437	0.1932690	2.2137105	11	3	1985–1994	1.12	M-v	5	Williams	18426	1985 PQ
1985 TY_1	13.0	970601	263.46495	115.67884	248.84245	8.00153	0.0883061	2.6438986	17	5	1981–1997	0.92	M-v	3	Williams	29655	1985 TY_1
1985 TZ_3	14.0	970601	204.90969	344.00969	306.93649	5.33970	0.1731356	2.2771204	11	4	1971–1995	0.90	M-v	2	Williams	28582	1985 TZ_3
1986 GZ	15.5	970601	297.93155	126.65933	199.64084	22.62914	0.2480725	2.3445479	39	3	1986–1997	0.73	M-v	2	Williams	30090	1986 GZ
1986 QB_3	12.5	970601	303.29333	275.02414	86.73540	2.88253	0.1834860	3.1967240	92	9	1975–1997	0.89	M-v	1	Williams	30288	1986 QB_3
1986 RG_3	14.5	970601	54.50322	152.06811	163.78093	7.95570	0.2595414	2.2863017	15	5	1979–1996	0.73	M-v	2	Williams	27324	1986 RG_3
1987 BS_1	13.0	970601	207.30563	150.35949	295.15142	12.28085	0.1284487	2.5853393	33	5	1987–1997	0.77	M-v	2	Williams	25225	1987 BS_1
1987 CG	12.5	970601	289.06253	266.76130	5.49698	1.55937	0.0196777	2.8757163	26	2	1987–1997	0.83	M-v	5	Marsden	29610	1987 CG
1987 DH_6	13.5	970601	36.76724	344.09851	264.10934	1.39452	0.1053396	2.6966918	76	7	1953–1997	0.56	M-v	1	Williams	30288	1987 DH_6
1987 OA	19.0	970601	93.16048	235.44173	180.33196	9.01544	0.5952993	1.4965216	60	3	1987–1997	0.67	M-v	2	Williams	29655	1987 OA
1987 QW_2	13.0	970601	272.51279	259.64731	41.53685	1.34922	0.1491809	3.1900683	26	8	1952–1997	0.86	M-v	1	Marsden	29655	1987 QW_2
1987 QF_6	14.5	970601	227.81093	262.69733	170.55327	21.92703	0.3181912	2.3091576	15	5	1980–1997	0.75	M-v	2	Williams	30288	1987 QF_6
1987 QG_6	15.5	970601	264.71867	242.49058	159.24247	21.87774	0.3442617	2.2922987	29	4	1987–1997	0.85	M-v	2	Williams	25648	1987 QG_6
1987 RL_1	15.5	970601	295.08036	189.38590	131.11343	1.27286	0.2363136	2.3112322	45	2	1987–1997	0.60	M-v	5	Williams	30090	1987 RL_1
1987 RV_3	14.5	970601	327.88175	105.73212	219.50219	3.63853	0.1852374	2.2670826	18	5	1980–1997	0.74	M-v	1	Williams	24760	1987 RV_3
1987 SR_{12}	14.0	970601	340.12575	116.54749	177.59543	4.28028	0.1564461	2.2786486	28	5	1976–1997	0.64	M-v	1	Williams	27727	1987 SR_{12}
1987 UV_1	14.0	970601	231.22478	24.61852	329.52916	1.83893	0.1412157	2.4130784	18	4	1976–1997	0.84	M-v	2	Williams	29655	1987 UV_1
1987 VR	12.5	970601	260.62671	217.54087	212.60531	8.99421	0.0760345	3.0651816	14	3	1987–1997	0.66	M-v	4	Marsden	21787	1987 VR
1988 CU_1	14.5	970601	116.60353	198.30433	339.48020	1.65441	0.1184185	2.4420255	19	4	1988–1997	0.66	M-v	4	Williams	27102	1988 CU_1
1988 CL_2	14.0	970601	256.98345	244.49477	124.98380	5.53998	0.1922553	2.4327576	35	3	1988–1997	0.84	M-v	4	Williams	30288	1988 CL_2
1988 CT_2	14.0	970601	8.84295	147.97625	121.98558	3.00985	0.1074607	2.4653719	40	6	1985–1997	0.83	M-v	1	Williams	28883	1988 CT_2
1988 EB_1	14.5	970601	149.72321	129.07063	55.15964	3.08938	0.1385995	2.4319453	26	6	1954–1997	0.75	M-v	2	Williams	29941	1988 EB_1
1988 GD	13.5	970601	121.04947	127.72772	100.51516	5.21335	0.1067190	2.4296425	23	5	1988–1996	0.65	M-v	1	Williams	30288	1988 GD
1988 GF	12.5	970601	7.91383	50.14556	227.29256	13.33441	0.1765416	2.5957214	19	4	1981–1997	0.81	M-v	2	Williams	30288	1988 GF
1988 GL	13.5	970601	114.80561	149.25073	67.97782	15.24140	0.1907651	2.4447261	35	4	1988–1996	0.83	M-v	3	Williams	27566	1988 GL
1988 JW	13.5	970601	20.62879	134.33858	109.16937	13.54596	0.2946967	2.6168720	34	5	1984–1997	0.72	M-v	2	Williams	26579	1988 JW
1988 RY_5	13.0	970601	290.04683	164.33001	185.27115	1.98744	0.0921892	2.8269834	31	3	1979–1993	0.87	M-v	4	Williams	29912	1988 RY_5
1988 RR_{10}	12.5	970601	318.43899	122.12003	164.51098	17.28287	0.0611850	5.1320591	28	4	1988–1997	0.40	M-v	1	Williams	30288	1988 RR_{10}
1988 RL_{13}	12.5	970601	290.44913	257.12274	59.34958	15.84246	0.0829445	5.2435940	20	4	1978–1997	0.58	M-v	1	Williams	21972	1988 RL_{13}
1988 SJ_3	12.5	970601	231.92917	291.94301	88.81853	20.96449	0.0595448	5.2747812	17	4	1988–1997	0.48	M-v	1	Williams	21972	1988 SJ_3
1988 UC	13.0	970601	294.75090	314.14218	39.37120	2.53922	0.0945333	2.9156247	33	8	1953–1997	0.95	M-v	2	Williams	28613	1988 UC
1988 UV	15.0	970601	166.11555	206.90851	212.71379	7.45967	0.0979274	2.2503461	26	3	1978–1997	0.69	M-v	4	Williams	30076	1988 UV
1988 VY	14.0	970601	257.92697	200.66462	200.51216	1.74313	0.1081268	2.9248907	25	3	1988–1997	0.70	M-v	5	Marsden	27710	1988 VY
1988 XJ_1	12.5	970601	216.30958	320.79030	73.83225	13.64430	0.0507223	3.1396456	27	6	1954–1996	0.95	M-v	1	Williams	29134	1988 XJ_1
1988 XB_5	14.0	970601	102.37931	101.01750	63.42179	4.79706	0.1030811	2.2453522	30	7	1981–1997	0.86	M-v	2	Williams	29656	1988 XB_5
1989 AT	12.0	970601	223.50932	352.72862	100.40103	13.25527	0.1167736	3.0365141	26	5	1989–1997	0.77	M-v	2	Williams	27324	1989 AT
1989 AL_3	14.5	970601	189.59958	331.53808	127.16379	5.06696	0.0844123	2.2584977	30	5	1988–1997	0.79	M-v	1	Williams	29941	1989 AL_3
1989 AN_5	14.0	970601	263.77490	281.05180	129.28540	9.94338	0.1192130	3.0741707	15	2	1989–1997	0.81	M-v	5	Williams	30272	1989 AN_5
1989 BA_1	13.0	970601	310.75983	166.59857	246.72647	36.45272	0.1602973	2.7730341	34	5	1987–1997	0.82	M-v	1	Marsden	29657	1989 BA_1
1989 CE_5	15.0	970601	9.92548	270.16930	309.06842	1.84056	0.1237627	2.4170206	34	3	1989–1997	0.54	M-v	4	Williams	29941	1989 CE_5
1989 CJ_8	13.0	970601	6.68396	65.30568	145.18965	8.66771	0.1924915	2.4669164	59	3	1989–1997	0.72	M-v	3	Williams	30288	1989 CJ_8
1989 EZ_2	15.0	970601	97.70419	263.72689	270.80570	6.79947	0.1141703	2.3187254	18	4	1980–1997	0.81	M-v	2	Williams	26900	1989 EZ_2
1989 GJ_2	14.0	970601	254.20194	166.34095	229.87414	7.18679	0.1124224	2.3621107	27	5	1976–1997	0.81	M-v	2	Williams	30288	1989 GJ_2
1989 GG_4	13.5	970601	91.71867	299.06062	211.92654	5.87774	0.0656838	2.4289180	30	6	1970–1997	0.84	M-v	2	Williams	30288	1989 GG_4
1989 GP_4	14.5	970601	54.10979	51.07763	203.43649	6.40038	0.0837249	2.3288849	30	7	1976–1997	0.75	M-v	1	Williams	24407	1989 GP_4
1989 NY	13.5	970601	9.03612	202.09074	140.65013	10.40050	0.2083396	2.4091566	25	6	1952–1995	0.93	M-v	2	Williams	30288	1989 NY
1989 PU	13.5	970601	329.66984	194.00859	138.05197	29.67733	0.2455578	2.5387240	19	3	1989–1997	0.68	M-v	3	Williams	22599	1989 PU
1989 SU	13.0	970601	354.60382	31.76652	292.31270	4.10807	0.2376789	2.5323011	16	3	1976–1993	0.84	M-v	4	Williams	22825	1989 SU
1989 SX	14.0	970601	314.84651	354.79424	27.93172	6.68501	0.3020603	2.5582793	47	3	1989–1993	1.01	M-v	3	Williams	30288	1989 SX
1989 SG_1	14.0	970601	199.60180	330.85572	166.48209	7.83710	0.1450878	2.5783352	34	5	1980–1997	0.89	M-v	2	Williams	30289	1989 SG_1
1989 TT	14.0	970601	297.27905	221.14832	173.40843	16.95422	0.2800924	2.5973547	25	4	1989–1997	0.80	M-v	3	Williams	29657	1989 TT
1989 TU_1	13.5	970601	254.82681	160.03980	260.73440	6.66907	0.2852428	2.6706888	32	2	1989–1997	0.64	M-v	4	Williams	30272	1989 TU_1

1989 TA_{16}	14.5	970601	351.13558	71.76467	233.16749	2.29127	0.1644496	2.5875304	29	5	1981–1997	0.61	M-v	3	Williams	30289	1989 TA_{16}
1989 UB_3	14.0	970601	280.94469	19.49818	61.48584	5.42371	0.2586923	2.5720981	33	3	1989–1995	0.95	M-v	3	Williams	25226	1989 UB_3
1989 UJ_3	13.5	970601	20.73568	291.30961	359.68063	13.10457	0.1838279	2.5583002	15	3	1989–1996	0.76	M-v	4	Williams	26900	1989 UJ_3
1989 WG_7	13.5	970601	257.07315	223.84580	237.09285	1.64839	0.1612056	2.6169638	21	6	1976–1997	1.15	M-v	2	Williams	25226	1989 WG_7
1989 XD_2	14.5	970601	288.49553	260.05821	124.58376	7.15268	0.2306731	2.6374576	18	3	1982–1997	0.42	M-v	4	Williams	21973	1989 XD_2
1990 EZ_5	13.5	970601	59.77976	340.19392	263.16553	0.14581	0.1273847	3.0935194	43	8	1976–1997	0.63	M-v	1	Marsden	27325	1990 EZ_5
1990 MR	14.5	970601	357.62914	7.22399	248.54758	6.88848	0.2176176	2.3421584	23	4	1980–1997	0.72	M-v	3	Williams	30091	1990 MR
1990 OW_2	14.0	970601	285.37669	300.77091	81.82289	8.34472	0.1352224	2.3213145	28	7	1954–1997	0.68	M-v	1	Williams	29657	1990 OW_2
1990 QM	13.5	970601	318.84917	125.58841	160.57524	2.83426	0.1800631	2.4270228	33	4	1990–1997	0.81	M-v	1	Williams	28885	1990 QM
1990 QT_1	15.0	970601	296.30561	197.91998	133.00327	2.93718	0.2208420	2.4109937	26	2	1990–1997	0.82	M-v	5	Williams	30289	1990 QT_1
1990 QX_1	15.0	970601	275.05753	5.84058	49.82533	0.88491	0.2134811	2.3294161	27	3	1990–1997	0.64	M-v	3	Williams	25062	1990 QX_1
1990 QZ_1	13.5	970601	183.57648	118.29668	346.02496	7.16902	0.0820811	2.4016209	24	4	1990–1997	0.60	M-v	3	Williams	26925	1990 QZ_1
1990 QA_2	13.5	970601	128.38603	114.22497	320.52030	1.59147	0.0627694	2.6306534	35	8	1976–1997	0.70	M-v	1	Williams	30289	1990 QA_2
1990 QC_3	15.0	970601	304.62576	227.43126	162.81355	3.47017	0.1888309	2.3002734	40	3	1990–1997	0.63	M-v	4	Williams	27566	1990 QC_3
1990 QO_5	15.0	970601	0.93095	213.87120	74.44150	1.70160	0.1244059	2.3342764	27	3	1990–1997	0.79	M-v	5	Williams	24761	1990 QO_5
1990 RF_2	13.5	970601	1.52124	41.92676	232.61335	1.73931	0.1610552	2.3796847	29	3	1990–1997	0.71	M-v	4	Williams	26757	1990 RF_2
1990 RW_8	15.5	970601	347.01131	28.18319	283.89063	6.70347	0.1943748	2.3156529	12	3	1990–1997	0.27	M-v	3	Williams	27711	1990 RW_8
1990 RM_9	14.0	970601	282.82906	105.37335	245.25719	5.37474	0.2627504	2.4049680	19	3	1990–1997	0.66	M-v	3	Williams	27104	1990 RM_9
1990 SW	13.5	970601	14.59755	84.35866	205.95014	8.48760	0.1161534	2.3426917	32	6	1971–1997	0.85	M-v	1	Williams	28885	1990 SW
1990 SD_5	15.0	970601	20.87280	213.93272	36.12641	3.26355	0.1623090	2.4063114	18	4	1989–1997	0.76	M-v	1	Williams	29611	1990 SD_5
1990 SS_9	14.5	970601	255.38053	326.04258	93.12235	3.32527	0.2002504	2.3785179	22	5	1979–1997	0.82	M-v	2	Williams	27567	1990 SS_9
1990 SX_{10}	13.5	970601	338.79640	33.70665	310.99842	5.80986	0.0804713	2.3165310	15	3	1990–1997	1.03	M-v	5	Williams	29612	1990 SX_{10}
1990 TW_7	15.5	970601	282.57934	25.05650	36.04499	6.05801	0.2227033	2.3554689	16	5	1979–1997	0.59	M-v	2	Williams	26925	1990 TW_7
1990 TV_{12}	10.5	970601	258.25875	110.56396	242.65449	24.03477	0.0919194	5.1995031	19	6	1954–1997	0.75	M-v	1	Williams	30289	1990 TV_{12}
1990 UC	14.0	970601	316.49544	190.44300	182.49483	8.12424	0.2143150	2.3401588	48	4	1990–1997	0.76	M-v	2	Williams	30289	1990 UC
1990 UO_2	13.0	970601	287.46123	161.89026	237.10234	23.81002	0.2253789	2.3684902	19	4	1939–1997	0.61	M-v	2	Williams	22494	1990 UO_2
1990 VB_{14}	14.5	970601	268.29116	123.64873	293.65749	1.61436	0.1992345	2.4245720	39	4	1990–1997	0.73	M-v	2	Marsden	24912	1990 VB_{14}
1991 AK	13.0	970601	160.98315	156.61790	333.09990	1.94216	0.0447075	2.6567778	20	5	1976–1997	0.95	M-v	2	Williams	27325	1991 AK
1991 BE	12.5	970601	141.39325	246.58537	293.85656	26.90140	0.1667069	2.5980940	34	4	1953–1997	0.67	M-v	2	Williams	30289	1991 BE
1991 EM_1	13.5	970601	263.47174	193.14723	165.70418	11.09417	0.1223113	2.9776891	28	5	1950–1997	0.40	M-v	1	Williams	30289	1991 EM_1
1991 GB_3	13.5	970601	37.72755	160.05051	19.84862	0.80161	0.1187174	3.2149098	61	3	1991–1997	0.78	M-v	4	Williams	29942	1991 GB_3
1991 GK_4	13.5	970601	258.89679	170.74867	231.53862	1.11930	0.0779678	2.8359775	40	5	1991–1997	0.96	M-v	2	Williams	27934	1991 GK_4
1991 GZ_9	14.0	970601	149.37455	229.23316	284.03081	7.55010	0.2193474	2.7508063	18	7	1977–1997	0.52	M-v	2	Williams	22700	1991 GZ_9
1991 OL_1	12.5	970601	328.38166	246.70760	113.53714	2.77985	0.1950009	3.2104420	18	4	1986–1994	0.70	M-v	1	Williams	22273	1991 OL_1
1991 PO_2	13.5	970601	266.09884	350.69772	79.94210	2.16983	0.1115475	3.1615293	29	6	1981–1997	0.80	M-v	1	Marsden	29659	1991 PO_2
1991 PJ_3	14.5	970601	98.05164	107.23607	349.67461	4.79978	0.0978080	2.3119236	34	7	1981–1997	0.90	M-v	1	Williams	29659	1991 PJ_3
1991 PE_5	12.5	970601	222.21453	277.49566	245.38871	1.21819	0.0093273	2.8751627	43	5	1980–1995	0.86	M-v	1	Williams	29659	1991 PE_5
1991 PG_{11}	14.5	970601	250.59553	137.56166	179.36077	6.61277	0.2370544	2.3050133	19	3	1977–1997	0.81	M-v	4	Williams	29942	1991 PG_{11}
1991 RJ_7	14.5	970601	37.46948	300.40731	291.79191	3.35423	0.1170532	2.2387128	41	3	1991–1997	0.68	M-v	4	Williams	26758	1991 RJ_7
1991 RK_7	14.5	970601	41.32941	321.44216	289.01287	4.01014	0.1221898	2.1761513	22	4	1981–1997	0.54	M-v	2	Williams	26758	1991 RK_7
1991 RR_{12}	15.0	970601	158.32410	17.70354	23.95828	3.40913	0.2345577	2.3696901	32	4	1984–1997	0.74	M-v	1	Williams	30091	1991 RR_{12}
1991 RD_{16}	16.0	970601	252.26414	216.84402	154.56946	4.73864	0.2004609	2.2171027	32	3	1991–1997	0.60	M-v	4	Williams	30290	1991 RD_{16}
1991 UF_3	13.5	970601	141.24760	50.73039	40.17651	13.35963	0.1915379	2.4161414	16	4	1970–1996	0.56	M-v	2	Williams	30273	1991 UF_3
1991 UG_3	14.0	970601	202.34519	45.01302	318.41493	3.01543	0.2152977	2.4018042	22	5	1971–1997	0.87	M-v	2	Marsden	26925	1991 UG_3
1991 UJ_4	14.0	970601	204.93378	33.36061	324.43319	2.22267	0.1864023	2.4636138	20	7	1954–1997	1.01	M-v	2	Marsden	21976	1991 UJ_4
1991 VH	16.5	970601	250.54679	207.06894	139.48801	13.91670	0.1438605	1.1365315	185	2	1991–1997	0.55	M-v	2	Williams	30290	1991 VH
1991 VP_7	13.5	970601	113.54431	109.16145	212.93919	14.19427	0.0468127	2.9336760	20	3	1989–1996	0.60	M-v	3	Williams	30273	1991 VP_7
1991 VW_8	14.0	970601	47.60332	193.94877	149.72835	2.13861	0.1560218	3.1271220	30	5	1990–1996	0.59	M-v	1	Williams	30273	1991 VW_8
1991 WD	13.5	970601	71.68398	35.56492	89.60050	13.85720	0.2190688	2.6154473	22	3	1991–1997	0.60	M-v	3	Williams	30274	1991 WD
1991 YV	12.5	970601	89.46714	2.18546	109.43730	13.97830	0.1006242	2.6154992	16	4	1989–1997	0.74	M-v	2	Williams	29660	1991 YV
1992 BE_2	15.0	970601	237.99793	263.37507	193.65945	5.18125	0.0750430	2.2305156	23	5	1977–1997	0.84	M-v	2	Williams	28316	1992 BE_2
1992 CD_1	13.5	970601	175.29908	310.72763	188.01118	2.91324	0.1285684	2.3645974	28	3	1992–1997	0.91	M-v	4	Williams	27567	1992 CD_1

1992 DZ	13.5	970601	91.45255	15.24645	141.55111	14.45070	0.1003747	2.6190998	22	5	1988–1997	0.69	M-v	2	Williams	30290	1992 DZ
1992 DF_1	16.0	970601	259.77695	268.52925	149.89922	21.18544	0.3110651	2.2819764	15	3	1985–1997	0.21	M-v	2	Williams	23978	1992 DF_1
1992 DH_3	15.0	970601	355.43055	238.01498	339.02618	6.68731	0.1467280	2.8171986	16	2	1992–1997	0.66	M-v	5	Williams	30274	1992 DH_3
1992 DY_7	14.5	970601	331.21406	182.84534	75.50129	3.09764	0.0297908	2.7169016	24	2	1992–1997	0.62	M-v	5	Williams	30079	1992 DY_7
1992 DC_{11}	15.5	970601	222.58256	314.98046	152.44045	3.23779	0.1310647	2.3087250	19	4	1980–1997	0.62	M-v	1	Williams	28886	1992 DC_{11}
1992 ER	14.0	970601	228.11934	116.55652	6.42287	7.61464	0.0624899	2.2932792	21	5	1954–1997	0.78	M-v	2	Williams	29135	1992 ER
1992 EP_7	14.5	970601	341.63417	144.33996	138.18035	13.58257	0.2247958	2.6575942	12	4	1988–1997	0.70	M-v	3	Williams	28615	1992 EP_7
1992 ES_{13}	14.5	970601	232.20126	217.35684	210.88002	2.06117	0.1477317	2.3777430	19	3	1992–1997	0.82	M-v	4	Williams	24762	1992 ES_{13}
1992 EX_{17}	14.0	970601	234.54794	230.87716	196.88212	7.83434	0.1731404	2.3532889	41	6	1983–1997	0.81	M-v	1	Williams	27121	1992 EX_{17}
1992 FW_1	15.0	970601	210.22413	267.79164	191.74338	22.60612	0.2666709	2.3350748	30	7	1983–1997	0.85	M-v	1	Williams	28615	1992 FW_1
1992 GF_4	14.5	970601	39.47802	338.82339	37.91858	6.55637	0.1811326	2.2223306	30	3	1960–1993	1.02	M-v	4	Williams	23247	1992 GF_4
1992 LF	12.0	970601	210.00068	224.70280	152.51819	20.18004	0.1566516	3.1949942	17	4	1970–1997	0.78	M-v	2	Williams	28586	1992 LF
1992 LR	18.0	970601	344.69681	67.75826	233.22220	2.02355	0.4092911	1.8309125	190	2	1992–1997	0.66	M-v	0	Marsden	30290	1992 LR
1992 OM_7	13.0	970601	16.09439	3.63569	292.72338	3.26697	0.0452306	2.7860781	31	7	1977–1997	0.51	M-v	1	Williams	27935	1992 OM_7
1992 QR	14.0	970601	247.94652	239.82419	150.50221	22.99506	0.1048107	1.9234813	13	3	1991–1997	0.82	M-v	5	Williams	20829	1992 QR
1992 QL_2	11.5	970601	337.14256	77.60721	242.45770	9.37671	0.1017385	3.0065985	15	6	1935–1997	0.85	M-v	2	Williams	30290	1992 QL_2
1992 RT_7	12.0	970601	279.01236	95.90474	310.55659	7.48776	0.2254198	3.1504390	15	5	1987–1997	0.61	M-v	1	Williams	28317	1992 RT_7
1992 UB	16.0	970601	313.81205	290.66496	74.35925	15.94861	0.5826715	3.0666669	34	2	1992–1997	0.56	M-v	2	Williams	29917	1992 UB
1992 XB	12.5	970601	330.27347	140.72911	258.35248	10.20231	0.2456762	3.0258844	35	6	1962–1997	1.03	M-v	1	Williams	22432	1992 XB
1993 BU_7	15.0	970601	170.29798	184.09629	214.33562	2.57966	0.0161177	2.3377888	15	2	1993–1997	0.58	M-v	5	Williams	30274	1993 BU_7
1993 EE	14.5	970601	58.21009	67.61416	136.43904	3.94926	0.1453682	2.2834431	36	3	1993–1997	0.69	M-v	4	Williams	30291	1993 EE
1993 FB_1	13.0	970601	341.20528	160.32865	65.97659	8.62904	0.1452011	2.5697506	35	4	1993–1997	0.54	M-v	1	Williams	30291	1993 FB_1
1993 FQ_8	15.0	970601	254.29446	313.11557	34.64842	7.96502	0.1398971	2.3684836	27	3	1986–1997	0.65	M-v	5	Williams	29918	1993 FQ_8
1993 FB_{18}	14.0	970601	346.56837	205.22539	95.58804	4.48518	0.1552602	2.2679205	17	5	1987–1997	0.68	M-v	2	Williams	29662	1993 FB_{18}
1993 FK_{25}	14.0	970601	151.36656	187.50633	225.17148	2.10730	0.1776800	2.4693067	15	5	1987–1997	0.88	M-v	3	Williams	26421	1993 FK_{25}
1993 FT_{31}	14.5	970601	276.23105	212.54802	148.75851	5.60018	0.2304825	2.2680321	36	6	1953–1997	0.65	M-v	2	Williams	30291	1993 FT_{31}
1993 FD_{40}	16.0	970601	22.22769	47.16793	177.10640	6.77323	0.0617116	2.3613344	18	3	1993–1997	0.50	M-v	4	Williams	24898	1993 FD_{40}
1993 FY_{43}	14.0	970601	269.19515	300.13280	352.65271	2.39309	0.1293341	2.5981722	22	3	1993–1997	1.03	M-v	4	Williams	25428	1993 FY_{43}
1993 FZ_{49}	15.0	970601	9.25229	282.78113	347.28243	2.53651	0.1463226	2.2779347	12	3	1993–1997	0.28	M-v	4	Williams	27916	1993 FZ_{49}
1993 FP_{73}	15.0	970601	271.23334	133.87862	222.70792	2.78014	0.1764268	2.3013965	25	3	1993–1997	0.72	M-v	4	Williams	25428	1993 FP_{73}
1993 FL_{84}	13.5	970601	309.78836	164.66734	183.08341	8.05011	0.1648644	2.2174559	35	3	1993–1997	0.66	M-v	3	Marsden	27730	1993 FL_{84}
1993 HH_7	14.0	970601	309.57127	344.81063	353.61033	2.49116	0.1075400	2.2729205	33	5	1976–1997	0.65	M-v	1	Williams	30291	1993 HH_7
1993 KQ_2	14.5	970601	58.47035	86.52773	131.47852	24.09738	0.2507561	2.3460704	20	4	1989–1997	0.78	M-v	2	Williams	26759	1993 KQ_2
1993 MB	14.0	970601	334.45265	63.55736	203.76247	13.26937	0.1846724	2.6767635	23	3	1949–1997	0.88	M-v	3	Williams	30275	1993 MB
1993 NV	13.5	970601	290.73208	42.24266	245.33919	0.79173	0.0529769	2.8737666	19	3	1993–1997	0.78	M-v	5	Williams	30092	1993 NV
1993 OB_2	12.5	970601	273.29889	101.37019	270.42504	12.40511	0.2028239	2.6093603	22	6	1951–1997	0.89	M-v	1	Williams	25082	1993 OB_2
1993 OB_{13}	14.0	970601	279.87659	112.42717	174.95681	2.16625	0.0912172	2.9447888	33	4	1992–1997	0.63	M-v	1	Marsden	29944	1993 OB_{13}
1993 PE	14.5	970601	353.69531	76.74783	267.09415	3.92605	0.0995131	2.3816342	75	7	1951–1997	0.63	M-v	1	Williams	29944	1993 PE
1993 RE	14.0	970601	318.60379	146.61894	256.57216	1.72615	0.1673984	2.4337420	36	5	1982–1996	0.75	M-v	2	Williams	27936	1993 RE
1993 RF_2	14.5	970601	61.28707	325.72496	353.89155	4.80975	0.1827957	2.2582047	23	2	1976–1993	0.71	M-v	5	Williams	24914	1993 RF_2
1993 RH_2	14.0	970601	337.29385	349.11292	3.39843	14.11184	0.2019117	2.5317880	18	3	1985–1993	0.85	M-v	4	Williams	24914	1993 RH_2
1993 RR_2	15.5	970601	320.96758	161.97036	155.02829	11.38331	0.4903264	2.6577151	50	3	1993–1997	0.66	M-v	3	Williams	30291	1993 RR_2
1993 RL_5	14.5	970601	357.15137	70.55462	307.53984	2.59254	0.0608751	2.3455354	16	4	1979–1995	0.73	M-v	4	Williams	25429	1993 RL_5
1993 RB_7	14.5	970601	49.23035	123.71111	190.70545	5.64040	0.1293025	2.3437842	31	4	1992–1996	0.81	M-v	1	Williams	27326	1993 RB_7
1993 SG_1	13.5	970601	326.16608	175.42124	174.75997	13.86204	0.2925055	2.5828851	23	3	1989–1997	0.53	M-v	2	Williams	30291	1993 SG_1
1993 SR_1	14.0	970601	21.66477	329.73945	37.92497	3.85835	0.2161699	2.2913372	10	4	1958–1993	0.49	M-v	3	Williams	29137	1993 SR_1
1993 SO_2	14.0	970601	96.98472	336.79289	208.22253	7.56930	0.1089945	2.7955998	27	2	1993–1997	0.51	M-v	4	Williams	30080	1993 SO_2
1993 SU_2	12.5	970601	298.45711	101.63695	295.34659	13.77465	0.0989614	2.5799926	17	6	1973–1997	0.99	M-v	2	Williams	27730	1993 SU_2
1993 SK_3	13.0	970601	181.37345	128.51550	311.13192	2.26956	0.2744126	3.2377447	31	4	1982–1995	0.62	M-v	1	Williams	30092	1993 SK_3
1993 SW_3	14.0	970601	58.35695	279.48679	55.35965	6.21861	0.2008240	2.2350893	14	3	1973–1993	0.59	M-v	3	Williams	29618	1993 SW_3
1993 SS_4	16.0	970601	295.51999	42.36841	357.44742	1.75850	0.2250437	2.5516164	25	3	1989–1997	0.66	M-v	4	Williams	28888	1993 SS_4
1993 SL_6	13.5	970601	254.67709	220.10609	175.01834	2.04315	0.0687973	2.8279192	29	6	1979–1997	0.55	M-v	1	Williams	30291	1993 SL_6

1993 TE	14.5	970601	338.19998	161.46901	192.43704	8.68601	0.2740656	2.5430847	31	6	1985–1997	0.78	M-v	3	Williams	28888	1993	TE
1993 TQ	13.0	970601	312.97184	292.18526	67.27297	8.48896	0.2070121	2.6920438	20	5	1971–1994	0.74	M-v	2	Williams	25441	1993	TQ
1993 TC_3	15.0	970601	53.05051	193.27990	166.27015	2.39403	0.2068256	2.2115140	18	3	1980–1993	0.99	M-v	4	Williams	23350	1993	TC_3
1993 TK_3	13.5	970601	270.92011	262.11535	93.25597	3.44230	0.2972958	2.9947618	17	3	1993–1997	0.75	M-v	4	Williams	30291	1993	TK_3
1993 UC	15.5	970601	310.38882	323.02095	166.04195	26.04162	0.6636386	2.4361462	247	4	1989–1996	0.55	M-v	1	Williams	30092	1993	UC
1993 UP_8	12.0	970601	335.43979	118.04660	171.75267	10.53036	0.1276201	3.0457134	30	6	1982–1997	0.86	M-v	1	Williams	27936	1993	UP_8
1993 VC_5	14.5	970601	339.29225	251.18546	162.26013	21.62933	0.3243302	2.3716083	31	3	1986–1995	0.55	M-v	2	Williams	25340	1993	VC_5
1993 WE	13.5	970601	208.74355	210.96141	290.47505	1.56660	0.1210096	2.7598765	32	5	1988–1997	0.71	M-v	1	Williams	29944	1993	WE
1993 XB	14.0	970601	313.85813	131.02285	206.51447	6.99055	0.1384745	3.0803994	27	3	1954–1997	0.55	M-v	3	Williams	30275	1993	XB
1993 XS	14.0	970601	205.30831	23.76729	83.24157	2.58014	0.1859239	3.1339351	30	4	1989–1997	0.41	M-v	1	Williams	28589	1993	XS
1994 BM	14.0	970601	18.58634	112.21495	316.76300	6.02860	0.1139762	2.4043858	43	2	1993–1996	0.85	M-v	4	Williams	28617	1994	BM
1994 LX	15.5	970601	220.80590	349.06652	111.34162	36.90524	0.3463591	1.2615941	145	4	1977–1997	0.62	M-v	2	Williams	30092	1994	LX
1994 PA	15.0	970601	155.05255	235.30219	249.38461	6.11728	0.0273298	2.1814586	46	3	1994–1997	0.86	M-v	3	Williams	27456	1994	PA
1994 PK	14.5	970601	356.45892	100.19487	235.92629	19.25880	0.0856642	1.9429959	30	5	1951–1997	0.56	M-v	2	Williams	27456	1994	PK
1994 PO_7	14.0	970601	351.47870	83.63542	147.42253	0.69589	0.1599290	2.4030766	25	3	1994–1997	0.76	M-v	3	Williams	29138	1994	PO_7
1994 PW_{16}	14.0	970601	47.63048	296.37630	294.21197	3.24665	0.0728252	2.1852445	27	5	1991–1997	0.85	M-v	2	Williams	26422	1994	PW_{16}
1994 PA_{19}	14.5	970601	233.95549	191.16079	189.83713	1.80225	0.1871233	2.4275226	21	2	1994–1997	0.92	M-v	5	Williams	30276	1994	PA_{19}
1994 PP_{26}	14.5	970601	335.02296	218.36840	23.99514	2.83009	0.1528052	2.4301133	27	3	1993–1997	0.84	M-v	3	Williams	29663	1994	PP_{26}
1994 PB_{30}	14.5	970601	300.81560	61.27346	222.37196	4.74222	0.1331720	2.4525279	24	3	1991–1997	0.97	M-v	4	Williams	30291	1994	PB_{30}
1994 PW_{31}	14.0	970601	325.22637	78.32757	175.59685	7.82016	0.1658551	2.4471234	28	3	1990–1997	0.66	M-v	4	Marsden	29302	1994	PW_{31}
1994 PC_{34}	13.0	970601	225.74255	135.29709	155.88956	10.42131	0.0672507	2.9950685	17	2	1993–1994	0.79	M-v	4	Williams	30276	1994	PC_{34}
1994 PA_{39}	15.5	970601	334.19014	41.13262	217.62818	2.38907	0.1900481	2.3244343	22	4	1973–1997	0.85	M-v	2	Williams	30092	1994	PA_{39}
1994 QC	18.5	970601	355.04460	94.17548	162.60225	13.87118	0.1179086	1.3243679	225	2	1994–1997	0.60	M-v	2	Williams	30291	1994	QC
1994 RC_{11}	13.0	970601	163.69216	335.48374	50.56395	1.08912	0.1963197	3.0860476	26	7	1951–1997	0.78	M-v	2	Williams	24409	1994	RC_{11}
1994 SB	13.0	970601	167.49688	201.02304	297.83786	6.26575	0.1013733	2.2009878	74	3	1994–1997	0.72	M-v	3	Williams	30292	1994	SB
1994 SO_5	15.0	970601	276.26797	164.17617	130.29223	0.99615	0.0409653	2.7848561	22	4	1992–1997	0.53	M-v	1	Williams	29663	1994	SO_5
1994 TU_2	15.0	970601	277.63678	149.31063	200.19025	3.18111	0.2568759	2.3781155	21	3	1994–1997	0.69	M-v	4	Williams	30276	1994	TU_2
1994 TC_3	15.0	970601	316.34682	141.05247	213.16112	0.98041	0.1910871	2.1730858	26	5	1978–1997	0.81	M-v	2	Williams	24914	1994	TC_3
1994 TN_3	15.5	970601	200.76602	73.38730	25.82706	1.86602	0.1390241	2.3787998	46	5	1974–1997	0.66	M-v	1	Marsden	27327	1994	TN_3
1994 UB_1	13.5	970601	316.64059	267.68642	37.55691	8.54538	0.1755063	2.4599965	29	3	1993–1997	0.67	M-v	2	Williams	30292	1994	UB_1
1994 VT_6	13.5	970601	183.80689	328.85602	74.47590	3.05875	0.1216996	2.9260980	29	2	1994–1997	0.70	M-v	4	Williams	30093	1994	VT_6
1994 VB_7	14.5	970601	243.87582	196.42020	223.53016	2.81303	0.1565612	2.3941673	19	3	1990–1997	0.74	M-v	4	Williams	29622	1994	VB_7
1994 VJ_7	14.0	970601	309.77646	61.93242	303.84066	1.90432	0.1464290	2.2799432	37	7	1955–1997	0.63	M-v	1	Williams	27327	1994	VJ_7
1994 WU_1	14.0	970601	3.13523	123.45392	172.92209	14.82209	0.1607686	2.4466445	65	3	1994–1997	0.64	M-v	3	Williams	27327	1994	WU_1
1994 XY	14.0	970601	313.15397	269.86538	91.95782	7.31476	0.1341264	2.2826304	38	5	1955–1997	0.63	M-v	1	Williams	28889	1994	XY
1994 YT	13.5	970601	110.45818	319.27994	281.54133	2.50816	0.1336339	2.3965006	22	5	1977–1995	0.96	M-v	2	Williams	27731	1994	YT
1994 YC_1	13.5	970601	132.21342	74.94027	66.75343	0.41630	0.1099701	3.0879929	32	4	1993–1997	0.77	M-v	1	Williams	28617	1994	YC_1
1994 YD_1	14.0	970601	248.94649	127.90865	279.51122	1.96177	0.1045203	2.6706360	26	5	1976–1997	0.78	M-v	1	Marsden	25084	1994	YD_1
1994 YX_1	13.5	970601	105.74910	185.86568	12.63515	3.12364	0.0523182	2.7535100	35	7	1987–1997	0.74	M-v	1	Williams	28889	1994	YX_1
1995 AH	14.0	970601	259.34390	268.47895	138.32845	4.14947	0.1288279	2.6151478	23	5	1989–1997	0.60	M-v	1	Williams	28889	1995	AH
1995 BH_1	15.5	970601	299.92988	75.74941	309.32478	1.51643	0.2071184	2.3849058	48	3	1995–1997	0.52	M-v	4	Williams	27109	1995	BH_1
1995 DK_1	11.0	970601	137.32528	35.88290	133.91470	13.19247	0.1345494	3.1743530	44	5	1939–1997	0.91	M-v	1	Marsden	27937	1995	DK_1
1995 DQ_1	14.0	970601	344.94337	278.51379	111.72426	5.65158	0.1057548	2.4142330	18	3	1991–1995	0.80	M-v	4	Williams	30292	1995	DQ_1
1995 EC	12.5	970601	115.77553	141.59145	52.67418	1.91191	0.1259096	3.1551648	64	5	1984–1997	0.52	M-v	1	Marsden	27568	1995	EC
1995 EL_1	14.0	970601	54.61684	117.11367	170.97506	4.01376	0.2040158	3.0684049	41	4	1991–1997	0.44	M-v	1	Williams	27568	1995	EL_1
1995 QD_3	14.0	970601	116.25874	110.70267	315.87532	1.97461	0.1925369	2.4156699	21	5	1980–1997	0.71	M-v	1	Marsden	26192	1995	QD_3
1995 SS	15.5	970601	334.38660	46.84100	225.30848	24.20023	0.0643753	1.8194630	34	2	1995–1997	0.55	M-v	3	Williams	30081	1995	SS
1995 SW_{48}	15.5	970601	220.33540	145.90410	238.52032	24.81989	0.0852725	1.8959915	23	2	1995–1997	0.67	M-v	3	Williams	30277	1995	SW_{48}
1995 UN_2	14.5	970601	71.80463	308.56981	142.59983	2.20621	0.2060275	3.0427781	48	2	1995–1997	0.64	M-v	3	Williams	29665	1995	UN_2
1995 UR_3	14.5	970601	144.91902	191.52122	226.65073	5.71950	0.0976220	2.3241422	29	3	1988–1997	0.61	M-v	4	Williams	29665	1995	UR_3
1995 UW_3	15.5	970601	159.87837	22.43471	7.14579	2.46475	0.1987819	2.3971461	51	3	1980–1997	0.62	M-v	4	Marsden	29946	1995	UW_3
1995 UG_6	14.5	970601	157.33569	14.96535	7.85354	2.72744	0.1673252	2.5201021	23	2	1995–1997	0.54	M-v	5	Williams	29304	1995	UG_6

1995 UL_8	15.5	970601	127.58155	44.24029	41.99939	2.83052	0.1731725	2.3562769	37	2	1995–1997	0.50	M-v	4	Williams	29626	1995 UL_8
1995 UU_{14}	16.5	970601	34.25721	220.87645	309.79363	1.55385	0.1358015	2.3847266	24	2	1995–1997	0.44	M-v	5	Williams	29626	1995 UU_{14}
1995 VJ	15.0	970601	98.73614	53.00443	42.57867	3.07101	0.1338337	2.5747018	30	2	1995–1997	0.56	M-v	4	Williams	29626	1995 VJ
1995 VS	14.0	970601	193.37759	153.07256	218.58007	2.17574	0.1625881	2.2523523	21	7	1978–1997	0.67	M-v	2	Williams	28890	1995 VS
1995 WX_4	14.5	970601	161.77984	177.57120	225.62168	4.04765	0.1928253	2.4186017	15	4	1976–1997	0.63	M-v	2	Williams	29665	1995 WX_4
1995 XP_2	15.0	970601	174.79950	180.17322	210.41144	2.43542	0.1835977	2.2653950	38	3	1978–1997	0.58	M-v	3	Williams	29946	1995 XP_2
1995 YM	12.0	970601	8.20725	104.01010	102.63799	17.28391	0.1805400	3.1248866	32	3	1980–1997	0.49	M-v	3	Williams	30292	1995 YM
1995 YD_1	14.0	970601	296.82941	201.85529	109.85438	8.79584	0.0708410	2.3016799	21	3	1990–1997	0.52	M-v	4	Williams	30082	1995 YD_1
1995 YV_{22}	14.5	970601	78.38660	344.04417	150.15268	1.59371	0.1278192	3.0975981	24	2	1995–1997	0.70	M-v	4	Williams	30292	1995 YV_{22}
1996 AJ	14.5	970601	289.66766	358.21211	304.59789	1.77383	0.1953697	2.4492561	24	3	1990–1997	0.47	M-v	4	Williams	29666	1996 AJ
1996 AA_1	14.0	970601	26.51300	321.10291	289.25072	1.13774	0.1281835	2.2379312	22	5	1981–1997	0.56	M-v	1	Williams	28618	1996 AA_1
1996 AL_2	12.5	970601	354.65758	134.14889	106.21813	14.18544	0.1291474	2.6447204	39	3	1991–1997	0.45	M-v	2	Williams	30292	1996 AL_2
1996 BV_3	13.5	970601	343.55449	217.14616	83.56159	6.26250	0.1408316	2.3431786	30	6	1964–1997	0.71	M-v	2	Williams	30292	1996 BV_3
1996 CZ	15.0	970601	129.05994	275.93576	208.03126	5.50081	0.2650456	2.6040200	60	4	1990–1997	0.47	M-v	2	Williams	30292	1996 CZ
1996 CG_1	12.0	970601	14.33192	192.24302	32.00789	5.81155	0.0095507	3.0823813	26	6	1975–1997	0.74	M-v	1	Williams	29666	1996 CG_1
1996 CT_7	14.5	970601	200.96575	192.59411	210.95240	6.13223	0.1323356	2.4247222	22	2	1996–1997	0.93	M-v	5	Williams	30278	1996 CT_7
1996 CW_7	15.0	970601	33.69526	154.09595	125.35418	5.66991	0.2081107	2.2175450	18	4	1977–1997	0.70	M-v	2	Williams	30278	1996 CW_7
1996 CX_7	14.0	970601	288.31847	227.11644	126.98750	6.37040	0.2021942	2.2219396	32	5	1991–1997	0.89	M-v	2	Williams	30292	1996 CX_7
1996 CV_8	14.0	970601	29.02961	230.37128	41.76533	4.24601	0.1383504	2.2677469	29	5	1990–1997	0.74	M-v	1	Williams	29947	1996 CV_8
1996 DA	14.5	970601	49.13445	160.66988	97.78583	3.25817	0.1867533	2.3718894	23	5	1988–1997	0.52	M-v	1	Williams	27457	1996 DA
1996 DE	13.5	970601	301.81739	187.87177	145.63767	16.19947	0.1392592	2.6097659	30	5	1988–1997	0.72	M-v	2	Marsden	30292	1996 DE
1996 EJ	12.0	970601	95.86704	28.28786	150.38474	13.48102	0.0891372	2.6600135	16	5	1949–1997	0.65	M-v	2	Williams	27457	1996 EJ
1996 EG_2	13.5	970601	5.06060	115.90991	165.91910	12.31274	0.0392042	2.5396199	17	5	1976–1997	0.88	M-v	4	Williams	29947	1996 EG_2
1996 FW_4	13.0	970601	60.99185	143.78869	65.98433	2.04932	0.1051160	3.2018444	24	4	1979–1997	0.92	M-v	2	Williams	28890	1996 FW_4
1996 GU_8	14.0	970601	345.11190	229.76607	77.70548	3.85327	0.0594299	2.7404099	17	3	1982–1997	0.25	M-v	3	Williams	27451	1996 GU_8
1996 GC_{18}	14.0	970601	170.93164	0.75852	123.78104	0.87687	0.0946965	2.6458294	19	3	1987–1997	0.91	M-v	5	Williams	28862	1996 GC_{18}
1996 HW	13.0	970601	24.28816	244.37371	26.22274	15.02009	0.0388305	2.5692156	24	3	1977–1997	0.82	M-v	3	Williams	27457	1996 HW
1996 HT_{17}	13.5	970601	221.91090	294.12469	143.92633	2.66083	0.0401001	2.8749246	34	5	1984–1997	0.67	M-v	1	Williams	30293	1996 HT_{17}
1996 HV_{24}	14.0	970601	232.46590	209.31941	218.40615	7.69560	0.0268573	3.0332920	36	5	1990–1997	0.87	M-v	1	Williams	30094	1996 HV_{24}
1996 JS_5	14.0	970601	10.16128	120.18333	168.65751	3.73699	0.1036814	3.1525388	21	3	1995–1997	0.52	M-v	3	Williams	30278	1996 JS_5
1996 OO	12.5	970601	88.63289	19.36582	232.26355	10.25921	0.0795837	3.9911504	31	2	1996–1997	0.30	M-v	3	Williams	30279	1996 OO
1996 ST	15.5	970601	71.27575	142.70756	213.82939	1.85039	0.1598617	2.1340154	34	5	1971–1996	0.64	M-v	2	Williams	28619	1996 ST
1996 XS_{23}	14.5	970601	70.98385	6.37405	42.93235	26.36472	0.2400122	2.3028763	31	1	217 days	0.51	M-v	4	Williams	29947	1996 XS_{23}
1996 XA_{32}	14.5	970601	270.31081	300.69963	272.58641	1.48927	0.0755690	2.3236942	15	3	1960–1997	0.59	M-v	5	Williams	28875	1996 XA_{32}
1997 AX_{12}	16.5	970601	49.56005	326.71878	109.89475	5.71288	0.4193530	2.6331743	56	1	109 days	0.55	M-v	4	Williams	29667	1997 AX_{12}
1997 AQ_{18}	18.0	970601	209.42252	36.88690	296.38357	17.38340	0.4652764	1.1470734	84	1	39 days	0.65	M-v	6	Williams	29309	1997 AQ_{18}
1997 BQ	18.0	970601	28.19861	147.22923	50.36702	10.99759	0.4785043	1.7459611	140	1	164 days	0.58	M-v	4	Williams	30293	1997 BQ
1997 BR	17.5	970601	356.76950	133.73672	116.78941	17.23775	0.3058711	1.3360287	389	3	1980–1997	0.58	M-v	1	Williams	30280	1997 BR
1997 BG_1	14.0	970601	359.56806	33.11176	143.95033	7.56983	0.2302683	2.6373387	27	2	1993–1997	0.66	M-v	4	Williams	29947	1997 BG_1
1997 CO_5	17.0	970601	45.17259	122.82240	318.51738	18.91754	0.4830717	2.6236936	96	1	30 days	0.54	M-v	5	Williams	29310	1997 CO_5
1997 CT_{19}	15.0	970601	70.06888	202.51365	241.62994	1.45468	0.1740409	2.3862590	38	3	1977–1997	0.78	M-v	4	Williams	29948	1997 CT_{19}
1997 DC	14.5	970601	326.39961	85.93801	158.58673	2.53650	0.1660735	2.3912123	28	2	1993–1997	0.56	M-v	5	Williams	29667	1997 DC
1997 EK_8	15.5	970601	83.33049	93.29443	354.25896	2.71524	0.2050750	2.4198369	32	3	1993–1997	0.73	M-v	3	Williams	29948	1997 EK_8
1997 EH_{15}	14.5	970601	9.90544	185.89461	0.01286	17.39692	0.1094304	3.1591912	15	2	1960–1997	0.28	M-v	4	Marsden	29644	1997 EH_{15}
1997 ED_{23}	15.5	970601	350.63630	223.89772	357.82046	2.75919	0.1903784	2.5307745	53	2	1993–1997	0.80	M-v	5	Marsden	29948	1997 ED_{23}
1997 ES_{40}	15.0	970601	129.48410	224.50616	196.71901	3.96530	0.1206410	2.3166551	60	3	1988–1997	0.59	M-v	5	Marsden	29948	1997 ES_{40}
1997 FZ_1	15.0	970601	22.13176	181.32007	8.75847	0.31865	0.1426897	2.3902420	33	5	1982–1997	0.70	M-v	2	Williams	30293	1997 FZ_1
1997 GF_3	17.5	970601	14.79643	351.46641	195.53164	42.18002	0.4205638	3.0688398	66	1	99 days	0.60	M-v	4	Williams	30085	1997 GF_3
1997 GU_7	16.0	970601	294.83830	245.55078	72.73728	3.71130	0.2138628	2.3217199	32	2	1996–1997	0.42	M-v	4	Williams	30094	1997 GU_7
1997 GY_7	14.5	970601	102.26203	15.57879	95.80395	1.61113	0.1200295	2.6770383	31	3	1977–1997	0.60	M-v	5	Williams	30094	1997 GY_7
1997 GD_8	16.0	970601	21.96734	173.72464	28.68837	0.29852	0.1593932	2.3254315	24	2	1995–1997	0.42	M-v	5	Williams	29932	1997 GD_8
1997 GE_8	15.5	970601	90.42940	226.20710	256.33667	0.39950	0.1368221	2.4280998	34	3	1991–1997	0.50	M-v	4	Williams	30094	1997 GE_8

1997 GN_8	14.0	970601	288.04762	285.89237	30.47789	5.17048	0.1488691	3.1862452	30	4	1981–1997	0.57	M-v	2	Williams	29933	1997 GN_8
1997 GR_{20}	16.0	970601	259.14725	294.21731	28.83606	1.16904	0.1443601	2.5178774	17	3	1990–1997	0.80	M-v	5	Williams	29934	1997 GR_{20}
1997 GH_{22}	15.0	970601	287.75115	298.18828	34.10397	8.18759	0.2680495	2.3151827	32	3	1980–1997	0.63	M-v	4	Williams	30085	1997 GH_{22}
1997 GY_{26}	14.5	970601	338.82115	86.53046	139.19558	0.98218	0.1108612	3.1273600	23	2	1994–1997	0.72	M-v	5	Marsden	29648	1997 GY_{26}
1997 GR_{36}	14.5	970601	133.25826	6.27332	73.76307	5.61007	0.1944345	2.5766640	28	3	1974–1997	0.59	M-v	4	Williams	30086	1997 GR_{36}
1997 HS_3	15.5	970601	86.95407	349.49760	148.10513	3.36683	0.0954610	2.8979005	20	2	1995–1997	0.56	M-v	4	Williams	30282	1997 HS_3
1997 JA_8	14.5	970601	196.38404	208.93370	194.93588	2.07134	0.1347835	2.3384271	17	2	1993–1997	0.86	M-v	5	Williams	30282	1997 JA_8
1997 JT_{11}	13.5	970601	341.45026	90.51651	163.49526	1.48235	0.1158209	3.1750404	24	3	1985–1997	0.64	M-v	5	Williams	30086	1997 JT_{11}
1997 JS_{14}	14.5	970601	258.06654	175.02650	171.37224	2.38001	0.0843356	2.5357766	21	3	1994–1997	0.92	M-v	4	Williams	30282	1997 JS_{14}
1997 JE_{15}	12.5	970601	279.10597	176.93692	145.03154	2.80188	0.0494685	2.8980481	20	2	1996–1997	0.71	M-v	5	Williams	30283	1997 JE_{15}
1997 JP_{15}	14.0	970601	146.84045	277.87081	160.32712	1.94545	0.2128375	2.3229746	17	4	1982–1997	0.89	M-v	2	Williams	30283	1997 JP_{15}
1997 JH_{16}	14.5	970601	313.80833	94.17529	202.81020	5.45100	0.1280938	2.3813586	18	2	1993–1997	0.70	M-v	5	Williams	30283	1997 JH_{16}
1997 KR_3	12.5	970601	225.21335	280.51444	109.93904	7.25191	0.2171600	3.1186721	26	5	1984–1997	0.73	M-v	1	Williams	30293	1997 KR_3
1997 LJ_3	14.0	970601	135.39221	318.62201	145.84198	3.71188	0.0359535	2.7147017	27	4	1992–1997	0.45	M-v	1	Williams	30283	1997 LJ_3
1997 MR_8	15.0	970601	53.21094	89.99812	131.73058	12.88088	0.2150791	2.6013216	20	2	1996–1997	0.64	M-v	4	Williams	30284	1997 MR_8
1997 MB_9	13.0	970601	285.64485	87.58137	302.07793	21.60771	0.1112797	3.2037282	17	3	1986–1997	0.45	M-v	2	Williams	30284	1997 MB_9
1997 NZ	12.5	970601	347.38729	8.29194	284.78835	12.06893	0.1628748	2.6066484	26	4	1972–1997	0.39	M-v	2	Williams	30284	1997 NZ
2098 P-L	13.0	970601	226.98668	158.28238	192.06680	11.95591	0.2650301	2.6279009	36	4	1960–1997	0.70	M-v	1	Williams	24585	2098 P-L
2100 P-L	14.5	970601	305.97560	74.22550	193.31492	16.80141	0.0719738	2.8572609	21	2	1960–1997	0.71	M-v	6	Williams	29936	2100 P-L
2553 P-L	13.0	970601	204.94173	62.83310	355.19845	0.59826	0.1666045	3.1132983	20	5	1960–1995	0.51	M-v	2	Williams	25084	2553 P-L
2635 P-L	15.0	970601	319.05574	72.74335	190.21238	3.15264	0.1605866	2.2807089	30	2	1960–1997	0.65	M-v	5	Marsden	29936	2635 P-L
3039 P-L	14.0	970601	282.89819	149.47272	247.49674	6.86342	0.2255869	2.7993764	24	3	1960–1997	0.62	M-v	4	Williams	26414	3039 P-L
4047 P-L	14.0	970601	28.62480	316.33538	339.93339	2.07703	0.0201323	2.7865260	28	6	1960–1997	0.69	M-v	1	Williams	27732	4047 P-L
4073 P-L	15.5	970601	293.86642	19.78685	260.98019	2.76554	0.0213116	2.1556628	15	2	1960–1997	0.74	M-v	5	Williams	30285	4073 P-L
4661 P-L	14.0	970601	108.39340	17.67132	54.34297	2.70843	0.0414056	2.8850347	30	4	1960–1997	0.71	M-v	2	Williams	29141	4661 P-L
4780 P-L	14.0	970601	79.49661	306.15079	185.52776	5.30747	0.1316417	3.1581647	33	2	1960–1997	0.76	M-v	5	Williams	30095	4780 P-L
4896 P-L	14.0	970601	251.38421	237.95110	114.44398	2.59612	0.1817837	3.1031850	32	4	1960–1997	0.69	M-v	2	Williams	30293	4896 P-L
6053 P-L	14.5	970601	301.87081	84.13587	211.44690	3.31410	0.1954131	2.6082625	24	5	1960–1997	0.78	M-v	2	Williams	26583	6053 P-L
6071 P-L	13.5	970601	150.18909	341.50815	196.74511	8.90035	0.0914020	2.7826969	18	5	1954–1997	0.59	M-v	2	Williams	29141	6071 P-L
9076 P-L	12.5	970601	296.53038	194.18883	196.19925	13.57786	0.1875436	2.5759589	20	4	1960–1997	0.85	M-v	3	Williams	27123	9076 P-L
9525 P-L	15.0	970601	234.04732	336.85220	57.27134	3.50050	0.1289381	2.2690957	23	4	1960–1996	0.48	M-v	2	Williams	30293	9525 P-L
9538 P-L	14.5	970601	345.48259	131.11533	158.23082	1.57032	0.0360199	2.2628230	17	5	1960–1997	0.67	M-v	2	Williams	26583	9538 P-L
9578 P-L	12.5	970601	178.55727	76.28416	3.61475	5.90638	0.1139042	3.1088989	17	3	1960–1993	0.94	M-v	5	Williams	26415	9578 P-L
3058 T-1	14.5	970601	207.14982	13.37411	352.48926	6.24692	0.1649273	2.1908111	12	3	1971–1997	0.49	M-v	4	Williams	30285	3058 T-1
3064 T-1	15.0	970601	96.60408	265.83087	277.03930	0.26994	0.1420377	2.3522726	20	3	1971–1997	0.67	M-v	4	Williams	26754	3064 T-1
4161 T-1	13.0	970601	336.99409	143.11357	182.94837	14.77334	0.1441575	2.5878962	29	5	1971–1997	0.76	M-v	2	Williams	29142	4161 T-1
4271 T-1	15.0	970601	306.23733	258.94984	38.97983	6.82061	0.1334950	2.3815535	40	4	1954–1997	0.68	M-v	2	Williams	29948	4271 T-1
1063 T-2	14.5	970601	103.05068	255.61317	198.23053	1.80154	0.1791704	2.3704246	26	4	1955–1997	0.80	M-v	2	Williams	22827	1063 T-2
1101 T-2	13.0	970601	141.50099	92.27668	334.30709	1.26343	0.0665443	2.9986007	26	4	1973–1997	0.94	M-v	2	Williams	23987	1101 T-2
1260 T-2	14.5	970601	65.21991	304.22699	179.70171	7.87026	0.1188451	2.6525290	29	3	1960–1997	0.99	M-v	4	Williams	15078	1260 T-2
1344 T-2	14.0	970601	234.17082	315.28578	137.84658	2.32273	0.0840609	2.8744612	48	8	1951–1997	0.86	M-v	1	Williams	29949	1344 T-2
2116 T-2	15.0	970601	196.67688	63.42195	53.16260	0.38303	0.1492772	2.2978432	26	4	1973–1997	0.95	M-v	2	Williams	28892	2116 T-2
2244 T-2	15.5	970601	326.82114	148.48131	173.97519	0.97040	0.1233493	2.5521026	20	3	1973–1997	0.70	M-v	6	Williams	17977	2244 T-2
1164 T-3	14.0	970601	7.69520	47.61400	244.13673	11.03839	0.0885736	2.9883603	22	3	1977–1997	0.64	M-v	4	Williams	30286	1164 T-3
2078 T-3	13.0	970601	84.78414	227.96934	344.31595	7.26560	0.1449628	2.5676297	45	7	1977–1997	0.66	M-v	2	Williams	28620	2078 T-3
2114 T-3	13.5	970601	326.92891	112.24004	216.04272	8.92637	0.0960682	2.9923639	26	3	1977–1997	0.77	M-v	3	Marsden	22822	2114 T-3
3176 T-3	14.0	970601	123.30119	127.59885	50.57867	0.43124	0.0967508	3.0156906	26	4	1977–1997	0.66	M-v	1	Williams	27569	3176 T-3
3395 T-3	14.5	970601	60.42388	344.14725	179.10641	4.68373	0.0499222	2.3190117	46	7	1949–1997	0.85	M-v	2	Williams	30095	3395 T-3
5022 T-3	14.0	970601	56.18948	45.62352	143.41132	10.12373	0.0082918	3.0815572	24	3	1977–1997	0.72	M-v	4	Williams	30286	5022 T-3
5192 T-3	13.5	970601	226.81633	6.22056	68.96933	11.26008	0.0520080	3.0136715	36	6	1977–1997	0.80	M-v	1	Williams	27458	5192 T-3

NEW NAMES OF MINOR PLANETS

(4019) Klavetter = 1981 EK$_{14}$

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

Named in memory of James Jay Klavetter (1960–1997), professor of physics at California State University at Sacramento. His enthusiasm for teaching undergraduate astronomy will serve as a model for communicating the value and excitement of science. Klavetter studied the sources and behavior of cometary dust and gas tails through telescopic imaging, and he also established the chaotic rotation state of Hyperion. Klavetter's positive outlook and thirst for new experiences remained undimmed even in the final days of his battle with leukemia. Name suggested and citation prepared by J. Harrington.

(4339) Almamater = 1985 UK

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

Named in anticipation of the 650th anniversary of Charles University (Univerzita Karlova) in Prague. This oldest university in central Europe was founded in 1348 by Charles IV of Luxembourg. Name suggested by J. Tichá, M. Šolc, M. Tichý and Z. Moravec.

(4427) Burnashev = 1971 QP$_1$

Discovered 1971 Aug. 30 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Named in honor of Vladislav Ivanovich Burnashev (b. 1943), staff scientist at the Crimean Astrophysical Observatory and an expert in stellar photometry and spectrophotometry. The name also honors his wife, Bella Alekseevna Burnasheva (b. 1944), former minor-planet observer on the staff of the Institute of Theoretical Astronomy. She is now a systems programer at the Crimean Astrophysical Observatory.

(4467) Kaidanovskij = 1975 VN$_2$

Discovered 1975 Nov. 2 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Named in honor of Naum L'vovich Kaidanovskij (b. 1907), a pioneer of radio astronomy, who began his research in solar and galactic radio astronomy as early as 1948. In 1955 he co-founded the radio astronomy department at Pulkovo Observatory, the first in Russia. Kaidanovskij is well known for his designs of radio-telescope and he was principal designer of the largest radio telescope, RATAN-600, at Zelenchukskaya. Name suggested by the Institute of Applied Astronomy.

(4514) Vilen = 1972 HX

Discovered 1972 Apr. 19 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Named in honor of Vilen Valentinovich Nesterov (b. 1935), head of the Astrometry Department of the Sternberg Astronomical Institute in Moscow, respected for his work in astrometry, on the rotation of the earth and the analysis of observations of artificial and natural satellites. He is one of scientific leaders of the space-borne astrometric project 'Lomonosov'. His monograph, *Common Astrometry*, written with V. V. Podobed, is used extensively by professional astronomers, students and amateurs. Name suggested by the Institute of Theoretical Astronomy.

(4591) Bryantsev = 1975 VZ

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

Named in memory of Aleksandr Aleksandrovich Bryantsev (1883–1961), producer, People's artist of the USSR and the founder of the Theater for Young Audiences in Petrograd. He staged 48 plays, laying down the techniques of children's theater production. Named at the request of the staff of the St. Petersburg Theater of Young Audiences.

(4851) Vodop'yanova = 1976 US$_1$

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

Named in honor of Galina Petrovna Vodop'yanova (b. 1939), a talented surgeon of the Russian Academy of Sciences Hospital, St. Petersburg, since 1978. Name suggested by N. A. Bokhan.

(4916) Brumberg = 1970 PS

Discovered 1970 Aug. 10 at the Crimean Astrophysical Observatory.

Named in honor of Victor Aleksandrovich Brumberg (b. 1933), staff member at the Institute of Theoretical Astronomy from 1958 to 1987 and the Institute of Applied Astronomy since 1988. His main scientific results are related to analytical and relativistic celestial mechanics (the three-body problem, general planetary theory, lunar theory, relativistic reduction of observations, reference systems and time scales, and the relativistic definitions of astronomical concepts and constants). Name proposed by the Institute of Theoretical Astronomy and the Institute of Applied Astronomy.

(5065) Johnstone = 1990 FP$_1$

Discovered 1990 Mar. 24 by E. F. Helin at Palomar.

Named in memory of Paul Johnstone (?–1976), the first director and producer of the well-known British TV program "The Sky at Night", now celebrating its 40th anniversary.

(5084) Gnedin = 1977 FN$_1$

Discovered 1977 Mar. 26 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Yurij Nikolaevich Gnedin (b. 1935), well-known Russian astrophysicist, deputy director of the Pulkovo Astronomical Observatory and professor at St. Petersburg Technical University. Gnedin has studied the transfer of polarized radiation in cosmic media, the physics of neutron stars, black holes and comets, cosmomicrophysics and the physics of x-ray sources. Name suggested by the Institute of Theoretical Astronomy.

(5087) Emel'yanov = 1978 RM$_2$

Discovered 1978 Sept. 12 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Nikolaj Vladimirovich Emel'yanov (b. 1946), head of the Celestial Mechanics Department of the Sternberg Astronomical Institute in Moscow. He constructed a practical analytical theory for artificial-satellite motion based on non-keplerian intermediate orbits. He has derived precise values for the orbital parameters of Phobos and Deimos and the dynamical parameters of Mars. He also developed ephemeris software for the majority of natural satellites. Name suggested by the Institute of Theoretical Astronomy.

(5104) Skripnichenko = 1986 RU$_5$

Discovered 1986 Sept. 7 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Vladimir Il'ich Skripnichenko (b. 1942), staff member of the Institute of Theoretical Astronomy since 1968 and its deputy director since 1994, well

known expert on computational methods of celestial mechanics. He has studied the application of Hansen's method of partial anomalies to the investigation of cometary motions, the development of the Universal Poissonian processor and the development of the programing system ERA. Name proposed by the Institute of Theoretical Astronomy.

(5303) Parijskij = 1978 TT_2

Discovered 1978 Oct. 3 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Yurij Nikolaevich Parijskij (b. 1932), radio astronomer and cosmologist. He was principal scientific investigator during the design and construction of the largest radio telescope, RATAN-600, at Zelenchukskaya, and he is now head of the radio astronomy department of the Special Astrophysical Observatory. Name proposed by the Institute of Theoretical Astronomy and the Institute of Applied Astronomy.

(5319) Petrovskaya = 1985 RK_6

Discovered 1985 Sept. 15 by N. S. Chernykh at the Crimean Astrophysical Obsevatory.

Named in honor of Margarita Sergeevna Petrovskaya, staff member of the Institute of Theoretical Astronomy since 1960. She determined the domains of convergence of series representing periodic solutions in planetary and satellite problems and obtained a new expansion for the perturbing function that converges even in the case of overlapping orbits. She was the first to construct convergent global expansions for the earth's potential. Name proposed by the Institute of Theoretical Astronomy.

(5343) Ryzhov = 1977 SG_3

Discovered 1977 Sept. 23 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Yurij Aleksandrovich Ryzhov (b. 1930), a member of the Russian Academy of Sciences, outstanding specialist on aero- and hydrodynamics, former long-time rector of the Moscow Aviation Institute. Name proposed by A. G. Sokolsky.

(5344) Ryabov = 1978 RN

Discovered 1978 Sept. 1 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Yurij Aleksandrovich Ryabov (b. 1923), professor at the Moscow Road-Transport Institute. He developed the Poincaré-Lyapunov method of small parameters for the investigation of fine-resonance effects. He is also the author of monographs on the modern problems of celestial mechanics, as well as of popular books on astronomy. Name proposed by the Institute of Theoretical Astronomy.

(5455) Surkov = 1978 RV_5

Discovered 1978 Sept. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Vladimir Vasil'evich Surkov (b. 1945), well-known Russian specialist on databases and staff member of the Moscow Aviation Institute. Name proposed by the discoverer following a suggestion by the Institute of Theoretical Astronomy.

(5495) Rumyantsev = 1972 RY_3

Discovered 1972 Sept. 6 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Named in memory of the Russian count Nikolaj Petrovich Rumyantsev (1754–1826), the Minister for Foreign Affairs and President of the State Council in Russia from 1807 to 1814. He amassed great collections of books, manuscripts, ethnographic and numismatic materials that became the basis for Moscow's Rumyantsev museum, inaugurated in 1862. The book collection later became the foundation of the Russian State Library.

(5521) Morpurgo = 1991 PM_1

Discovered 1991 Aug. 15 by E. F. Helin at Palomar.

Named in honor of Pieter Morpurgo, who has been the producer for the last 18 years of "The Sky at Night", a British TV program celebrating its 40th anniversary featuring Patrick Moore as host. Morpurgo and Moore have worked closely and successfully creating this upbeat informative program about astronomy for public education in an imaginative, entertaining forum.

(5543) Sharaf = 1978 TW_2

Discovered 1978 Oct. 3 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Shafika Gil'mievna Sharaf (b. 1915), well known expert on celestial mechanics and staff member of the Institute of Theoretical Astronomy from 1939 to 1986. She co-developed an analytical theory of Pluto using the Laplace-Newcomb method and determined new orbital elements for the planet. Later she investigated the secular variations of solar radiation incident upon given area of the earth's surface caused by perturbations of the earth's orbit. Name suggested by the Institute of Theoretical Astronomy.

(5565) Ukyounodaibu = 1991 VN_2

Discovered 1991 Nov. 10 by A. Natori and T. Urata at the JCPM Yakiimo Station.

Named for the Japanese poetess, Kenreimon-in Ukyounodaibu (1157–?). She wrote a diary with 359 poems that describe her life at court and reminiscences of her young lover Taira-no Sukemori, who died at the battle of Dannoura. She worked for (5242) Kenreimonin. Name suggested and citation provided by A. Sato.

(5668) Foucault = 1984 FU

Discovered 1984 Mar. 22 by A. Mrkos at Kleť.

Named in memory of Jean Bernard Léon Foucault (1819–1868), French physicist and astronomer, well known for his pendulum demonstration of the earth's rotation, first in Paris in 1851. Name suggested by J. Tichá, M. Tichý and Z. Moravec.

(5707) Shevchenko = 1976 GY_3

Discovered 1976 Apr. 2 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Vladislav Vladimirovich Shevchenko (b. 1940), head of the Lunar and Planetary Research Department of the Sternberg Astronomical Institute in Moscow and the Chairman of the Lunar Task Group of the IAU Working Group for Planetary System Nomenclature. He was a participant of the 'Zond' and 'Lunokhod' space missions and was co-author and scientific leader of the Global Mapping of the Moon and Mars projects. Name suggested by the Institute of Theoretical Astronomy.

(5852) Nanette = 1991 HO

Discovered 1991 Apr. 19 by C. S. Shoemaker and D. H. Levy at Palomar.

Named in honor of Nanette and Mark Vigil, daughter and son-in-law of Wendee and David Levy, at their suggestion.

(5916) van der Woude = 1991 JD$_1$

Discovered 1991 May 8 by E. F. Helin at Palomar.

Named in honor of Jurrie van der Woude, Jet Propulsion Laboratory Public Information Representative and the co-creator of the "25 Years of Space Photography" Exhibit. He joined JPL in 1976 and became an active member of the photo lab and Public Information Office. He develops special products for the Director's Office and the Laboratory's Community Relations Program.

(5947) Bonnie = 1985 FD

Discovered 1985 Mar. 21 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Named in memory of Bonnie Gail Farquhar (1936–1993), late wife of the mission director for the Near-Earth Asteroid Rendezvous (NEAR) mission, Robert Farquhar. Rendezvous operations at (433) Eros will begin on Bonnie's birthday, 1998 Dec. 20. Name proposed by the discoverers following a suggestion by R. Farquhar.

(5957) Irina = 1988 JN

Discovered 1988 May 11 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Named in honor of Irina Victorovna Farquhar, wife of the NEAR mission director, Robert Farquhar. NEAR's initial close pass by Eros will occur on 1999 January 10, their fifth wedding anniversary. Since earning a doctoral degree in economics from Leningrad State University in 1983, Irina has made several important contributions in the fields of labor, regional and health economics. Name proposed by the discoverers following a suggestion by R. Farquhar, who prepared the citation.

(6127) Hetherington = 1989 HD

Discovered 1989 Apr. 25 by E. F. Helin at Palomar.

Named in honor of Ernest Hetherington, a highly respected authority on Orchids (Orchidaceae). He was a good friend and mentor to Kay Francis, the discoverer's mother, who grew and hybridized many exceptional "new" orchids. "Ernie" is an orchid judge, gifted writer on orchidaceae and recipient of many honors, awards and special recognition for his role as a grower, educator and popularizor of orchid culture.

(6160) Minakata = 1993 JF

Discovered 1993 May 15 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Named in memory of Kumagusu Minakata (1867–1941), a renowned Japanese naturalist who, as a child, studied mycology. Employed from 1895 as a temporary specialist by the British Museum, he returned to Japan in 1900 to continue his studies of biology and other fields. He promoted the movement to protect the forest of Kumano in the Wakayama prefecture from destruction by the government.

(6291) Renzetti = 1985 TM$_1$

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

Named in honor of Nicholas A. Renzetti (b. 1914) on the occasion of his retirement from the Jet Propulsion Laboratory after 37 years of contributions to NASA's Deep Space Network. As manager of the DSN's Science Office, Renzetti revitalized the Goldstone Solar System Radar, which has been used for investigations of 34 minor planets. He also successfully advanced the use of DSN antennas for geodynamics research, radio interferometry, microwave spectroscopy and SETI. Name suggested and citation prepared by S. J. Ostro.

(6586) Seydler = 1984 UK$_1$

Discovered 1984 Oct. 28 by A. Mrkos at Kleť.

Named in memory of August Seydler (1849–1891), professor of astronomy and theoretical physics at Charles University in Prague. He founded the Astronomical Institute of the Czech part of Charles University in 1886. Several of his works deal with celestial mechanics and orbit computations for minor planets and comets. Name suggested by J. Tichá and M. Šolc.

(6607) Matsushima = 1991 UL$_2$

Discovered 1991 Oct. 29 by K. Endate and K. Watanabe at Kitami.

Named in honor of Koichi Matsushima (b. 1938), head of the Instrumentation Laboratory, Control Systems Division, National Aerospace Laboratory. He has played a leading role in the design of Japan's minor-planet exploration program. He has also promoted research into minor planets, comets and meteors.

(6637) Inoue = 1988 XZ

Discovered 1988 Dec. 3 by K. Endate and K. Watanabe at Kitami.

Named in honor of Keisuke Inoue (b. 1928), who worked for Tentai Ichiyou, nautical almanacs, at Japan's Hydrographic Department for 38 years. He was an expert in calculating the orbits of artifical satellites. After retirement, he worked for a software company and is now on the editorial staff of the astronomical almanac *Tenmon Nenkan*.

(6670) Wallach = 1994 LL$_1$

Discovered 1994 June 4 by C. S. Shoemaker and D. H. Levy at Palomar.

Named for Annette and Leonard Wallach, in honor of their monumental effort in building Treasure Island, a unique day camp and school on Long Island, N.Y. More than a day camp, the facilities were donated to the American Red Cross each year for a small craft and safety school. Citation and name suggested by Wendee and David Levy.

(6901) Roybishop = 1989 PA

Discovered 1989 Aug. 2 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Named in honor of Roy L. Bishop, retired professor of physics at Acadia University, Nova Scotia. Since 1982 Bishop has edited the *Observer's Handbook* of the Royal Astronomical Society of Canada, a vital reference for professional and amateur astronomers. Bishop is also known for his unique photographs, especially one of a double rainbow over Isaac Newton's birthplace. Citation provided by Carolyn and Eugene Shoemaker and Wendee and David Levy.

(6928) Lanna = 1994 TM$_3$

Discovered 1994 Oct. 11 by M. Tichý at Kleť.

Named in memory of Vojtěch Lanna (1805–1866), well-known Czech entrepreneur. He contributed to the development of trade and business in southern and central Bohemia. Most of his activities—shipbuilding, sailing and bridge building—were closely connected with the Vltava river.

(7072) Beijingdaxue = 1996 CB$_8$

Discovered 1996 Feb. 3 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Named for the 100th anniversary of the Peking University (Beijing Daxue), the oldest national university in China. Founded in 1898, Peking University distinguishes itself by its rigorous style of study, prominent academic standing and fruitful education achievements.

(7126) Cureau = 1991 GJ_4

Discovered 1991 Apr. 8 by E. W. Elst at the European Southern Observatory.

Named in memory of Marin Cureau de la Chambre (1594–1669), a doctor of medicine and author of several scientific works. In 1635 he became one of the first members of the prestigeous Académie Francaise and will be remembered for his *Traité de la Connaisance des Animaux* (1647), a work that made clear that animals, like humans, have feelings, knowledge and thoughts.

(7141) Bettarini = 1994 EZ_1

Discovered 1994 Mar. 12 by A. Boattini and M. Tombelli at Cima Ekar.

Named in memory of Otello Bettarini (1905–1982), a pioneer who left great footprints in our way of life. The astronomical observatory, built by him, allowed the discoverers to "cut their teeth" in astronomy.

(7152) Euneus = 1973 SH_1

Discovered 1973 Sept. 19 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Named for the king of Lemnos and a son of Jason. Euneus supplied the Greek forces with wine during the Trojan war.

(7214) Antielus = 1973 SM_1

Discovered 1973 Sept. 19 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Named for one of the Greek heroes during the Trojan war. Antielus was one of the heroes hidden in the wooden horse.

(7300) Yoshisada = 1992 YV_2

Discovered 1992 Dec. 26 by T. Urata at the Nihondaira Observatory.

Nemed for Yoshisada Shimizu (b. 1943), a Japanese orthopaedist and an active amateur astronomer. In addition to publishing many outstanding astrophotographies, he has been searching for minor planets since 1993.

(7344) Summerfield = 1992 LU

Discovered 1992 June 4 by C. S. Shoemaker and D. H. Levy at Palomar.

Named in honor of Robert and Lisa Summerfield, for their exhaustive effort to spread astronomy to the public. The couple brings their collection of telescopes, one a 0.9-m reflector, to public star parties across the United States, and they complete several cross-country marathon drives in this effort. Their organization, "Astronomy To Go", sets up education sessions in dozens of schools each year. Citation prepared by David and Wendee Levy.

(7441) Láska = 1995 OZ

Discovered 1995 July 30 by J. Tichá and M. Tichý at Kleť.

Named in memory of Václav Láska (1862–1943), Czech astronomer, geophysicist, geodesist and mathematician, professor of Charles University in Prague and founder of geophysical research in Czechoslovakia.

(7543) Prylis = 1973 SY

Discovered 1973 Sept. 19 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Named for a son of Hermes. Inspired by Athene, Prylis suggested that entry to Troy could be gained by means of a wooden horse. Epeius, a carpenter, volunteered to build the horse. Afterwards, of course, Odysseus claimed all the credit for this stratagem.

(7571) Weisse Rose = 1989 EH_6

Discovered 1989 Mar. 7 by F. Börngen at Tautenburg.

Named in memory of the members of Weisse Rose, a circle of students, academics and artists around Hans and Sophie Scholl in Munich. They appealed for resistance against the Nazi regime in 1942–43, motivated by ethical and Christian arguments. Numerous members of the group were later condemned to death.

(7584) Ossietzky = 1991 GK_{10}

Discovered 1991 Apr. 9 by F. Börngen at Tautenburg.

Named in memory of Carl von Ossietzky (1889–1938), German publicist and editor of the weekly paper Weltbühne from 1927 to 1933. A staunch republican, he warned against militarism and National Socialism. In 1931 he received an 18-month prison sentence for disclosing the rearmament of the Reich in violation of the treaty of Versailles. Imprisoned by the Nazis in 1933, Ossietzky received the 1935 Nobel Peace Prize but he was not allowed to accept it. He was released in 1936 following worldwide protests but died shortly afterwards due to the ill-treatment he had received while in prison.

(7599) Munari = 1994 PB

Discovered 1994 Aug. 3 by A. Boattini and M. Tombelli at San Marcello Pistoiese.

Named in honor of Ulisse Munari (b. 1960), staff astronomer at the Astronomical Observatories of Padua and Asiago since 1990. His researches are concerned with symbiotic stars, cataclysmic variables, novae and open clusters as well as minor planets. As a high-school student he founded the Minor Planet Section of the Italian National Amateur Organization, and he still maintains his links with amateurs, allowing them access to some of the Italian professional telescopes. The discoverers found their first asteroids with one of these instruments.

(7647) Etrépigny = 1989 SR_2

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern Observatory.

Named for a small village in the French Ardennes, close to the Belgian border.

(7651) Villeneuve = 1990 VD_6

Discovered 1990 Nov. 15 by E. W. Elst at the European Southern Observatory.

Named in honor of Don Villeneuve, anthropologist and friend of the discoverer.

(7655) Adamries = 1991 YM_1

Discovered 1991 Dec. 28 by F. Börngen at Tautenburg.

Named for the famous German arithmetician Adam Ries (1492–1559), author of the first German arithmetic books, which were used over more than two hundred years and which explain the procedure of calculations in a clear manner. Ries made an effort to help the man in the street to appreciate arithmetic, which was considered at that time to be difficult. In 1539, Ries was appointed to the Churfuerstlich Saechsischen Hofarithmeticus. This is the discoverer's 100th numbered discovery.

(7679) Asiago = 1996 CA_9

Discovered 1996 Feb. 15 by U. Munari and M. Tombelli at Cima Ekar.

Named for the mountain town and region hosting the largest astronomical observatory on Italian territory. When dedicated in 1942, the 1.2-m telescope was the largest in Europe; a 1.8-m Cassegrain reflector was added in 1973. The observatory has been particularly active in the discovery and photometric and spectroscopic monitoring of all types of variables, including supernovae. A program to discover new minor planets has been conducted with Asiago Schmidts since 1993.

(7684) Marioferrero = 1997 EY

Discovered 1997 Mar. 3 by P. G. Comba at Prescott.

Named in memory of Mario Ferrero (1904–1965) who encouraged and nurtured the discoverer's interest in astronomy when the latter was in his early teens. Ferrero was the co-discoverer of (1169) Alwine and (1218) Aster. He was an astronomer at Pino Torinese in the 1930s. Because of his interest in teaching, Ferrero later joined the physics faculty at the Polytechnic Institute in Turin. He was also a music lover and accomplished organist.

EPHEMERIDES

C/1997 O1 (Tilbrook) Elements *MPC* 30429

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 08 10	12 53.87	−06 17.3	1.696	1.432	57.4	36.6	10.7	
1997 08 15	13 01.40	−03 58.2	1.809	1.454	53.5	34.0	10.9	
1997 08 20	13 08.45	−01 57.3	1.918	1.480	49.6	31.4	11.1	
1997 08 25	13 15.13	−00 11.2	2.024	1.508	46.0	28.8	11.3	
1997 08 30	13 21.54	+01 23.0	2.125	1.539	42.4	26.3	11.5	
1997 09 04	13 27.74	+02 47.6	2.221	1.572	39.1	23.8	11.7	
1997 09 09	13 33.79	+04 04.6	2.312	1.608	35.9	21.5	11.9	
1997 09 14	13 39.73	+05 15.6	2.396	1.645	32.9	19.4	12.1	
1997 09 19	13 45.57	+06 21.8	2.475	1.685	30.2	17.5	12.2	

1997 PO a, e, i = 3.10, 0.44, 24 Elements *MPC* 30431

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 08 10	20 12.48	−14 04.2	0.757	1.753	163.7	9.3	17.7
1997 08 20	20 11.84	−18 59.6	0.799	1.765	153.9	14.6	18.1
1997 08 30	20 14.15	−23 11.1	0.863	1.780	143.7	19.6	18.4
1997 09 09	20 19.83	−26 27.9	0.946	1.800	134.3	23.6	18.8
1997 09 19	20 28.84	−28 50.1	1.044	1.823	125.8	26.6	19.1
1997 09 29	20 40.72	−30 22.7	1.154	1.850	118.1	28.5	19.4
1997 10 09	20 54.99	−31 12.3	1.273	1.879	111.0	29.7	19.7
1997 10 19	21 11.08	−31 25.8	1.400	1.912	104.6	30.3	19.9
1997 10 29	21 28.43	−31 09.2	1.533	1.947	98.5	30.3	20.2
1997 11 08	21 46.64	−30 27.5	1.671	1.984	92.8	29.9	20.4
1997 11 18	22 05.34	−29 25.4	1.813	2.023	87.3	29.2	20.6
1997 11 28	22 24.26	−28 06.7	1.956	2.064	81.9	28.3	20.8
1997 12 08	22 43.24	−26 34.7	2.101	2.106	76.7	27.1	20.9
1997 12 18	23 02.14	−24 52.7	2.246	2.150	71.6	25.7	21.1
1997 12 28	23 20.87	−23 03.1	2.391	2.194	66.6	24.3	21.2
1998 01 07	23 39.41	−21 08.4	2.533	2.240	61.6	22.7	21.4

132P/Helin-Roman-Alu 2 Elements *MPC* 30429

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 08 10	01 37.79	+10 03.1	1.487	2.080	111.1	27.0	16.6	19.7
1997 08 20	01 49.28	+10 29.3	1.368	2.047	117.9	25.9	16.3	19.4
1997 08 30	01 59.01	+10 37.6	1.258	2.017	125.3	24.1	16.1	19.1
1997 09 09	02 06.53	+10 26.2	1.160	1.990	133.3	21.6	15.8	18.9
1997 09 19	02 11.52	+09 54.4	1.076	1.967	142.0	18.3	15.6	18.6
1997 09 29	02 13.78	+09 03.5	1.008	1.948	151.4	14.3	15.4	18.3
1997 10 09	02 13.40	+07 57.3	0.959	1.932	161.2	9.6	15.2	18.0
1997 10 19	02 11.00	+06 43.6	0.931	1.921	170.6	4.9	15.1	17.7
1997 10 29	02 07.52	+05 32.3	0.925	1.913	172.0	4.1	15.1	17.6
1997 11 08	02 04.24	+04 34.6	0.940	1.910	163.1	8.7	15.1	17.9
1997 11 18	02 02.40	+03 59.0	0.977	1.911	153.1	13.5	15.2	18.1
1997 11 28	02 02.82	+03 49.7	1.033	1.917	143.3	17.9	15.3	18.4
1997 12 08	02 05.97	+04 06.7	1.106	1.927	134.2	21.5	15.5	18.7
1997 12 18	02 11.93	+04 46.9	1.193	1.941	125.9	24.3	15.7	19.0
1997 12 28	02 20.48	+05 45.6	1.292	1.959	118.2	26.3	15.9	19.2
1998 01 07	02 31.34	+06 57.9	1.402	1.980	111.0	27.6	16.2	19.4
1998 01 17	02 44.18	+08 18.9	1.520	2.006	104.4	28.4	16.4	19.7
1998 01 27	02 58.66	+09 44.4	1.646	2.034	98.2	28.6	16.7	19.9
1998 02 06	03 14.51	+11 10.7	1.778	2.066	92.2	28.5	17.0	20.1
1998 02 16	03 31.45	+12 34.8	1.915	2.101	86.5	28.0	17.2	20.3
1998 02 26	03 49.28	+13 54.3	2.056	2.138	81.0	27.2	17.5	20.4
1998 03 08	04 07.83	+15 07.1	2.199	2.178	75.7	26.2	17.8	20.6
1998 03 18	04 26.90	+16 11.7	2.344	2.220	70.5	25.0	18.0	20.7
1998 03 28	04 46.36	+17 07.0	2.490	2.263	65.3	23.6	18.3	20.9
1998 04 07	05 06.07	+17 52.3	2.636	2.309	60.2	22.1	18.6	21.0
1998 04 17	05 25.90	+18 27.0	2.779	2.356	55.2	20.5	18.8	21.1
1998 04 27	05 45.75	+18 51.1	2.920	2.404	50.2	18.8	19.0	21.2
1998 05 07	06 05.51	+19 04.5	3.058	2.453	45.2	17.0	19.3	21.3
1998 05 17	06 25.08	+19 07.5	3.190	2.504	40.2	15.1	19.5	21.3
1998 05 27	06 44.38	+19 00.6	3.315	2.555	35.2	13.2	19.7	21.4
1998 06 06	07 03.35	+18 44.3	3.434	2.606	30.1	11.3	19.9	21.5

1995 UO$_5$ a, e, i = 1.56, 0.64, 36 Elements *MPC* 27568

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 08 10	03 21.72	+07 45.8	2.284	2.457	87.4	24.3	21.9
1997 08 20	03 26.71	+08 25.6	2.114	2.430	95.5	24.5	21.7
1997 08 30	03 29.51	+09 01.2	1.943	2.400	104.2	24.1	21.5
1997 09 09	03 29.52	+09 33.3	1.775	2.366	113.6	22.9	21.2
1997 09 19	03 26.04	+10 02.5	1.614	2.330	124.0	20.9	20.9
1997 09 29	03 18.31	+10 29.6	1.466	2.290	135.4	17.9	20.6
1997 10 09	03 05.66	+10 54.7	1.336	2.247	148.1	13.6	20.2
1997 10 19	02 47.86	+11 17.4	1.231	2.200	162.1	8.0	19.7
1997 10 29	02 25.58	+11 37.1	1.158	2.150	176.5	1.6	19.2
1997 11 08	02 00.72	+11 53.8	1.120	2.096	166.6	6.3	19.3
1997 11 18	01 36.15	+12 10.1	1.117	2.038	150.9	13.6	19.6
1997 11 28	01 14.59	+12 30.7	1.145	1.977	136.0	20.3	19.8
1997 12 08	00 57.85	+13 01.2	1.195	1.911	122.2	25.9	20.0
1997 12 18	00 46.51	+13 45.8	1.259	1.841	109.7	30.2	20.1
1997 12 28	00 40.27	+14 46.5	1.327	1.767	98.6	33.4	20.2
1998 01 07	00 38.55	+16 04.0	1.393	1.688	88.7	35.6	20.3
1998 01 17	00 40.66	+17 38.2	1.451	1.604	79.9	37.1	20.3
1998 01 27	00 46.03	+19 28.5	1.497	1.515	71.9	38.2	20.3
1998 02 06	00 54.26	+21 34.8	1.525	1.421	64.8	38.9	20.2
1998 02 16	01 05.10	+23 56.6	1.534	1.322	58.5	39.6	20.1
1998 02 26	01 18.52	+26 33.6	1.521	1.218	53.1	40.5	19.9
1998 03 08	01 34.69	+29 25.4	1.483	1.109	48.4	42.0	19.7
1998 03 18	01 53.99	+32 29.9	1.417	0.995	44.6	44.6	19.5
1998 03 28	02 17.19	+35 41.8	1.322	0.880	41.7	49.0	19.2
1998 04 07	02 45.38	+38 47.4	1.195	0.766	39.6	56.4	18.9
1998 04 17	03 19.58	+41 10.6	1.034	0.662	37.9	68.6	18.6
1998 04 27	03 59.07	+41 25.2	0.842	0.585	35.5	87.8	18.5
1998 05 07	04 37.02	+36 33.0	0.642	0.555	30.0	114.7	19.2

1997 NC$_1$ $a, e, i = 0.87, 0.21, 17$ Elements *MPC* 30464

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 08 20		14 08.76	−52 47.9	0.302	1.028	84.5	78.5	18.7
1997 08 30		14 23.94	−56 24.3	0.333	1.011	80.7	80.4	18.9
1997 09 09		14 39.39	−59 21.3	0.356	0.988	76.7	82.8	19.1
1997 09 19		14 53.83	−61 45.6	0.369	0.961	72.6	85.9	19.3
1997 09 29		15 05.36	−63 33.8	0.373	0.930	68.1	90.1	19.4
1997 10 09		15 11.30	−64 34.5	0.366	0.894	63.0	95.7	19.5
1997 10 19		15 08.16	−64 17.3	0.349	0.856	56.8	103.3	19.7
1997 10 29		14 55.35	−61 40.5	0.326	0.817	48.9	113.7	20.0
1997 11 08		14 38.87	−55 15.7	0.303	0.778	38.8	127.0	20.8
1997 11 18		14 29.01	−44 10.1	0.295	0.743	28.4	140.8	22.2

1997 MD$_{10}$ $a, e, i = 27.10, 0.94, 59$ Elements *MPC* 30464

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 08 20		17 22.76	−00 48.5	1.265	1.883	111.1	30.1	18.7
1997 08 30		17 17.88	+03 13.4	1.334	1.812	100.4	33.2	18.8
1997 09 09		17 17.28	+06 41.1	1.406	1.747	91.2	35.2	18.9
1997 09 19		17 20.41	+09 43.5	1.476	1.688	83.5	36.2	19.0
1997 09 29		17 26.81	+12 29.5	1.538	1.638	77.1	36.6	19.0
1997 10 09		17 36.18	+15 07.0	1.591	1.597	72.1	36.5	19.0
1997 10 19		17 48.30	+17 43.0	1.631	1.566	68.3	36.2	19.0
1997 10 29		18 03.12	+20 22.7	1.659	1.545	65.8	35.9	19.0
1997 11 08		18 20.77	+23 10.5	1.676	1.537	64.5	35.6	19.0
1997 11 18		18 41.44	+26 09.5	1.684	1.540	64.3	35.3	19.0
1997 11 28		19 05.50	+29 20.5	1.687	1.554	65.1	35.1	19.0
1997 12 08		19 33.43	+32 42.3	1.689	1.580	66.5	34.9	19.1
1997 12 18		20 05.67	+36 09.8	1.695	1.617	68.4	34.5	19.1
1997 12 28		20 42.61	+39 33.5	1.713	1.663	70.3	33.8	19.2
1998 01 07		21 24.27	+42 40.3	1.746	1.718	71.9	33.0	19.3
1998 01 17		22 09.98	+45 15.3	1.801	1.780	72.9	31.9	19.4
1998 01 27		22 58.29	+47 06.6	1.879	1.848	72.9	30.6	19.5
1998 02 06		23 47.10	+48 09.3	1.982	1.922	72.0	29.2	19.7
1998 02 16		00 34.26	+48 26.4	2.107	2.000	70.1	27.7	19.9
1998 02 26		01 18.19	+48 06.8	2.253	2.081	67.3	26.0	20.0
1998 03 08		01 58.15	+47 21.7	2.414	2.166	63.7	24.3	20.2
1998 03 18		02 34.04	+46 20.7	2.588	2.253	59.6	22.4	20.4
1998 03 28		03 06.21	+45 11.1	2.769	2.342	54.9	20.4	20.6
1998 04 07		03 35.13	+43 57.9	2.953	2.433	50.0	18.4	20.7
1998 04 17		04 01.28	+42 43.8	3.137	2.525	44.7	16.2	20.9
1998 04 27		04 25.09	+41 30.4	3.317	2.617	39.3	14.1	21.0

1997 PN $a, e, i = 2.24, 0.42, 27$ Elements *MPC* 30431

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 08 20		19 59.52	+01 28.1	0.351	1.322	147.7	24.2	19.5
1997 08 30		19 55.40	+09 15.3	0.422	1.347	136.5	31.0	20.1
1997 09 09		19 57.40	+14 07.7	0.505	1.379	128.4	34.9	20.7
1997 09 19		20 04.19	+17 08.6	0.596	1.415	122.3	36.9	21.1
1997 09 29		20 14.66	+19 01.3	0.692	1.456	117.4	37.6	21.5
1997 10 09		20 28.06	+20 13.2	0.794	1.501	113.2	37.7	21.9

1997 NP$_{10}$ $a, e, i = 2.27, 0.40, 5$ Elements *MPC* 30431

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1997 08 20		21 28.57	+01 56.7	0.354	1.355	163.9	11.9	19.6
1997 08 30		21 33.65	+01 02.7	0.356	1.353	161.9	13.4	19.7
1997 09 09		21 41.13	−00 16.4	0.372	1.357	157.3	16.7	19.9
1997 09 19		21 51.60	−01 39.9	0.399	1.368	151.5	20.5	20.2
1997 09 29		22 04.87	−02 50.7	0.439	1.385	145.4	24.2	20.5
1997 10 09		22 20.50	−03 37.1	0.490	1.408	139.4	27.5	20.9
1997 10 19		22 37.92	−03 54.1	0.554	1.436	133.7	30.1	21.3
1997 10 29		22 56.44	−03 42.5	0.629	1.469	128.2	32.1	21.7
1997 11 08		23 15.66	−03 05.0	0.716	1.505	122.9	33.5	22.1

C/1997 N1 (Tabur) Elements *MPC* 30429

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 09		11 54.68	+32 10.0	1.439	0.738	28.8	41.1	8.5	
1997 09 14		12 26.19	+34 46.2	1.448	0.835	34.1	42.5	9.0	
1997 09 19		12 58.64	+36 42.0	1.464	0.931	39.0	42.8	9.5	
1997 09 24		13 31.41	+37 59.2	1.489	1.026	43.4	42.2	10.0	
1997 09 29		14 03.84	+38 40.8	1.522	1.119	47.3	41.1	10.4	
1997 10 04		14 35.25	+38 51.4	1.564	1.210	50.7	39.8	10.8	
1997 10 09		15 05.10	+38 36.4	1.614	1.300	53.6	38.2	11.2	
1997 10 14		15 33.05	+38 01.7	1.673	1.388	56.0	36.6	11.5	
1997 10 19		15 58.94	+37 12.9	1.738	1.475	57.9	34.9	11.9	
1997 10 24		16 22.76	+36 15.3	1.811	1.560	59.4	33.3	12.2	
1997 10 29		16 44.62	+35 12.8	1.889	1.643	60.4	31.7	12.5	
1997 11 03		17 04.66	+34 09.0	1.972	1.725	61.0	30.2	12.8	
1997 11 08		17 23.05	+33 06.4	2.060	1.806	61.2	28.7	13.1	
1997 11 13		17 39.99	+32 06.6	2.151	1.885	61.2	27.4	13.4	
1997 11 18		17 55.64	+31 10.8	2.245	1.963	60.8	26.1	13.7	
1997 11 23		18 10.15	+30 19.8	2.342	2.040	60.2	24.8	13.9	
1997 11 28		18 23.68	+29 34.0	2.440	2.116	59.4	23.7	14.2	
1997 12 03		18 36.32	+28 53.8	2.539	2.191	58.5	22.6	14.4	
1997 12 08		18 48.19	+28 19.0	2.638	2.265	57.4	21.5	14.7	
1997 12 13		18 59.36	+27 49.7	2.738	2.338	56.2	20.5	14.9	
1997 12 18		19 09.91	+27 25.7	2.836	2.410	55.0	19.5	15.1	
1997 12 23		19 19.90	+27 06.7	2.934	2.481	53.7	18.6	15.3	
1997 12 28		19 29.39	+26 52.6	3.031	2.552	52.3	17.8	15.5	

26P/Grigg-Skjellerup Elements *MPC* 23483

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 19		13 44.44	−05 34.0	1.766	1.034	30.5	29.5	13.8	19.1
1997 09 29		14 28.87	−07 06.1	1.788	1.079	32.0	29.5	14.6	19.2
1997 10 09		15 12.40	−08 20.5	1.830	1.137	33.4	28.9	15.5	19.4
1997 10 19		15 54.45	−09 14.4	1.890	1.206	34.3	27.8	16.6	19.5
1997 10 29		16 34.59	−09 46.8	1.967	1.282	34.8	26.2	17.8	19.7
1997 11 08		17 12.53	−09 58.0	2.059	1.364	34.6	24.3	19.0	19.9
1997 11 18		17 48.12	−09 49.6	2.162	1.450	33.8	22.3		20.1
1997 11 28		18 21.36	−09 23.8	2.275	1.537	32.5	20.1		20.2
1997 12 08		18 52.32	−08 42.8	2.395	1.625	30.6	17.9		20.4

125P/Spacewatch Elements *MPC* 27542

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 19		01 23.67	−00 32.8	2.605	3.543	155.5	6.7		22.8
1997 09 29		01 16.39	−01 37.9	2.606	3.585	165.8	3.9		22.7

1997 10 09	01 08.60	−02 39.6	2.637	3.626	170.8	2.5		22.7
1997 10 19	01 00.96	−03 33.2	2.699	3.667	164.0	4.3		22.9

P/1983 J3 (Kowal-Vávrová) Elements *MPC* 25184

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 19	09 24.80	+11 33.9	4.845	4.079	36.4	8.4	20.0	
1997 09 29	09 35.08	+10 41.1	4.697	4.030	43.5	9.8	19.9	
1997 10 09	09 45.01	+09 47.4	4.537	3.980	50.7	11.2	19.8	
1997 10 19	09 54.48	+08 53.5	4.365	3.930	58.1	12.4	19.6	
1997 10 29	10 03.40	+08 00.4	4.183	3.880	65.6	13.5	19.5	
1997 11 08	10 11.64	+07 09.0	3.994	3.830	73.4	14.4	19.3	
1997 11 18	10 19.05	+06 20.6	3.799	3.781	81.4	15.0	19.2	
1997 11 28	10 25.49	+05 36.3	3.603	3.731	89.8	15.3	19.0	
1997 12 08	10 30.78	+04 57.7	3.407	3.682	98.4	15.3	18.8	
1997 12 18	10 34.75	+04 26.3	3.215	3.633	107.4	15.0	18.6	
1997 12 28	10 37.22	+04 03.5	3.031	3.585	116.9	14.2	18.5	
1998 01 07	10 38.03	+03 51.1	2.859	3.536	126.8	12.9	18.3	
1998 01 17	10 37.11	+03 50.1	2.703	3.489	137.1	11.1	18.1	
1998 01 27	10 34.46	+04 01.2	2.567	3.441	147.8	8.8	17.9	
1998 02 06	10 30.24	+04 24.2	2.455	3.394	158.9	6.0	17.8	
1998 02 16	10 24.82	+04 57.6	2.370	3.347	169.9	3.0	17.6	
1998 02 26	10 18.70	+05 38.6	2.314	3.302	174.7	1.6	17.5	
1998 03 08	10 12.56	+06 23.3	2.288	3.256	164.9	4.6	17.4	
1998 03 18	10 07.11	+07 07.3	2.289	3.212	153.7	7.9	17.4	
1998 03 28	10 02.95	+07 46.8	2.316	3.168	142.7	11.0	17.3	
1998 04 07	10 00.55	+08 18.2	2.364	3.125	132.2	13.7	17.3	
1998 04 17	10 00.20	+08 39.4	2.429	3.083	122.2	16.0	17.3	
1998 04 27	10 01.96	+08 49.3	2.507	3.042	112.8	17.8	17.3	
1998 05 07	10 05.80	+08 47.2	2.593	3.002	104.1	19.0	17.3	
1998 05 17	10 11.58	+08 33.4	2.685	2.964	95.8	19.8	17.4	
1998 05 27	10 19.12	+08 08.1	2.779	2.926	88.1	20.2	17.4	
1998 06 06	10 28.22	+07 31.8	2.872	2.890	80.9	20.3	17.4	
1998 06 16	10 38.68	+06 45.4	2.964	2.856	74.0	20.0	17.4	
1998 06 26	10 50.33	+05 49.6	3.051	2.823	67.5	19.4	17.4	
1998 07 06	11 03.02	+04 45.0	3.134	2.791	61.3	18.6	17.4	
1998 07 16	11 16.60	+03 32.6	3.210	2.762	55.3	17.6	17.4	
1998 07 26	11 30.97	+02 13.3	3.281	2.734	49.6	16.4	17.4	
1998 08 05	11 46.04	+00 47.9	3.344	2.708	44.1	15.1	17.4	
1998 08 15	12 01.73	−00 42.4	3.400	2.685	38.7	13.6	17.4	
1998 08 25	12 17.99	−02 16.7	3.448	2.663	33.4	12.1	17.4	

C/1997 BA$_6$ (Spacewatch) Elements *MPC* 29880

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 19	09 36.53	+04 23.3	8.361	7.532	32.4	4.1		19.4
1997 09 29	09 40.11	+03 32.6	8.196	7.466	40.8	5.0		19.4
1997 10 09	09 43.29	+02 40.8	8.011	7.401	49.4	5.9		19.3
1997 10 19	09 45.98	+01 48.2	7.810	7.335	58.2	6.6		19.3
1997 10 29	09 48.07	+00 55.3	7.596	7.269	67.2	7.2		19.2
1997 11 08	09 49.45	+00 02.5	7.372	7.204	76.4	7.7		19.2
1997 11 18	09 50.03	−00 49.5	7.142	7.138	85.8	7.9		19.1
1997 11 28	09 49.71	−01 40.1	6.910	7.072	95.4	8.0		19.0
1997 12 08	09 48.40	−02 28.5	6.683	7.007	105.2	7.8		18.9
1997 12 18	09 46.05	−03 13.7	6.465	6.941	115.2	7.4		18.8
1997 12 28	09 42.65	−03 55.0	6.261	6.875	125.2	6.7		18.7
1998 01 07	09 38.23	−04 31.3	6.077	6.810	135.2	5.8		18.5
1998 01 17	09 32.90	−05 01.8	5.917	6.744	144.7	4.8		18.4
1998 01 27	09 26.82	−05 26.0	5.785	6.678	153.1	3.8		18.3
1998 02 06	09 20.23	−05 43.4	5.685	6.612	158.5	3.1		18.2
1998 02 16	09 13.43	−05 54.4	5.617	6.547	158.6	3.2		18.1
1998 02 26	09 06.72	−05 59.3	5.581	6.481	153.3	3.9		18.2
1998 03 08	09 00.43	−05 59.5	5.576	6.416	145.1	5.1		18.2
1998 03 18	08 54.84	−05 56.2	5.599	6.350	135.8	6.3		18.2
1998 03 28	08 50.14	−05 51.0	5.645	6.285	126.1	7.4		18.3
1998 04 07	08 46.51	−05 45.7	5.710	6.219	116.4	8.3		18.3
1998 04 17	08 44.00	−05 41.6	5.788	6.154	106.8	9.0		18.4
1998 04 27	08 42.65	−05 40.3	5.874	6.089	97.6	9.4		18.4
1998 05 07	08 42.42	−05 42.7	5.963	6.023	88.6	9.6		18.4
1998 05 17	08 43.25	−05 49.9	6.051	5.958	79.9	9.6		18.4
1998 05 27	08 45.05	−06 02.4	6.134	5.894	71.6	9.4		18.4
1998 06 06	08 47.72	−06 20.9	6.207	5.829	63.7	9.0		18.4
1998 06 16	08 51.16	−06 45.8	6.268	5.764	56.2	8.4		18.4
1998 06 26	08 55.27	−07 17.3	6.314	5.700	49.1	7.7		18.3
1998 07 06	08 59.94	−07 55.7	6.344	5.636	42.5	7.0		18.3
1998 07 16	09 05.07	−08 41.3	6.355	5.572	36.6	6.2		18.2
1998 07 26	09 10.57	−09 34.1	6.347	5.508	31.6	5.5		18.2

120P/Mueller 1 Elements *MPC* 25513

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 19	09 46.21	+19 26.9	4.658	3.870	34.3	8.4	21.2	22.4
1997 09 29	09 56.73	+18 34.4	4.596	3.900	41.4	9.8	21.2	22.4
1997 10 09	10 06.55	+17 44.7	4.518	3.930	48.6	11.0	21.2	22.4
1997 10 19	10 15.59	+16 58.8	4.426	3.960	56.2	12.1	21.2	22.4
1997 10 29	10 23.74	+16 17.5	4.323	3.989	64.0	12.9	21.2	22.4
1997 11 08	10 30.89	+15 42.0	4.210	4.019	72.2	13.6	21.2	22.4
1997 11 18	10 36.91	+15 13.2	4.089	4.048	80.6	13.9	21.1	22.4
1997 11 28	10 41.66	+14 52.0	3.964	4.077	89.5	14.0	21.1	22.3
1997 12 08	10 45.00	+14 39.2	3.839	4.106	98.8	13.7	21.1	22.3
1997 12 18	10 46.79	+14 35.4	3.717	4.134	108.4	13.0	21.0	22.2
1997 12 28	10 46.95	+14 40.8	3.603	4.163	118.5	12.0	21.0	22.1
1998 01 07	10 45.41	+14 54.9	3.502	4.191	129.1	10.5	20.9	22.0
1998 01 17	10 42.24	+15 16.4	3.419	4.219	139.9	8.6	20.9	21.9
1998 01 27	10 37.59	+15 43.6	3.358	4.247	151.1	6.4	20.9	21.8
1998 02 06	10 31.75	+16 13.7	3.325	4.275	162.2	4.0	20.9	21.6
1998 02 16	10 25.16	+16 43.5	3.322	4.302	172.0	1.8	20.9	21.5
1998 02 26	10 18.34	+17 10.1	3.349	4.329	170.7	2.1	21.0	21.6
1998 03 08	10 11.81	+17 31.0	3.408	4.356	160.5	4.4	21.1	21.7
1998 03 18	10 06.08	+17 44.2	3.496	4.383	149.6	6.6	21.1	21.9
1998 03 28	10 01.51	+17 49.1	3.609	4.410	138.8	8.6	21.2	22.1
1998 04 07	09 58.36	+17 45.5	3.745	4.436	128.4	10.2	21.3	22.3
1998 04 17	09 56.73	+17 33.8	3.897	4.462	118.3	11.4	21.4	22.4
1998 04 27	09 56.61	+17 14.7	4.062	4.487	108.7	12.3	21.6	22.5

62P/Tsuchinshan 1 Elements *MPC* 25183

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 29	02 46.60	−00 16.4	1.574	2.454	143.7	14.0	18.7	22.2
1997 10 09	02 42.31	−01 12.9	1.456	2.389	153.0	11.0	18.3	21.9

1997 10 19	02 35.34	−02 09.4	1.361	2.325	160.8	8.1	17.8	21.6
1997 10 29	02 26.23	−02 57.8	1.291	2.260	163.3	7.2	17.4	21.4
1997 11 08	02 15.97	−03 29.0	1.246	2.196	158.0	9.7	17.0	21.3
1997 11 18	02 05.96	−03 35.3	1.225	2.132	148.7	14.0	16.7	21.4
1997 11 28	01 57.56	−03 12.2	1.226	2.069	138.3	18.5	16.3	21.5
1997 12 08	01 51.95	−02 19.0	1.244	2.007	128.0	22.8	16.0	21.6
1997 12 18	01 49.80	−00 58.2	1.275	1.946	118.4	26.4	15.8	21.7
1997 12 28	01 51.37	+00 46.4	1.315	1.887	109.5	29.4	15.5	21.8
1998 01 07	01 56.64	+02 50.4	1.360	1.830	101.5	31.8	15.2	21.8
1998 01 17	02 05.42	+05 09.6	1.406	1.775	94.3	33.5	15.0	21.9
1998 01 27	02 17.45	+07 40.2	1.453	1.724	87.8	34.8	14.7	21.9
1998 02 06	02 32.54	+10 18.7	1.498	1.676	82.1	35.6	14.5	22.0
1998 02 16	02 50.48	+13 01.1	1.541	1.633	77.0	36.1	14.3	22.0
1998 02 26	03 11.16	+15 43.5	1.583	1.594	72.5	36.3	14.1	22.0
1998 03 08	03 34.48	+18 21.7	1.623	1.561	68.5	36.3	13.9	22.0
1998 03 18	04 00.34	+20 50.5	1.662	1.534	65.0	36.0	13.7	22.0
1998 03 28	04 28.60	+23 04.8	1.702	1.514	61.9	35.6	13.7	22.0
1998 04 07	04 59.10	+24 59.0	1.743	1.501	59.2	34.9	13.6	22.0
1998 04 17	05 31.48	+26 28.0	1.787	1.496	56.9	34.2	13.6	22.1
1998 04 27	06 05.33	+27 27.3	1.834	1.498	54.7	33.3	13.7	22.1
1998 05 07	06 40.10	+27 54.0	1.887	1.508	52.8	32.2	13.8	22.1
1998 05 17	07 15.12	+27 46.9	1.945	1.525	50.9	31.0	14.0	22.2
1998 05 27	07 49.81	+27 07.1	2.010	1.549	49.1	29.6	14.3	22.3
1998 06 06	08 23.62	+25 57.2	2.082	1.580	47.2	28.1	14.6	22.3
1998 06 16	08 56.15	+24 21.7	2.160	1.616	45.3	26.6	14.9	22.4
1998 06 26	09 27.17	+22 25.3	2.244	1.657	43.3	24.9	15.2	22.5

P/1997 G1 (Montani) Elements *MPC* 30063

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 29	10 12.34	+08 05.3	5.115	4.320	33.9	7.4	18.9	
1997 10 09	10 21.95	+07 04.2	5.034	4.332	41.2	8.7	18.9	
1997 10 19	10 31.01	+06 04.4	4.938	4.344	48.6	9.9	18.8	
1997 10 29	10 39.43	+05 06.6	4.831	4.357	56.2	10.9	18.8	
1997 11 08	10 47.09	+04 11.8	4.712	4.371	64.1	11.8	18.8	
1997 11 18	10 53.89	+03 20.8	4.584	4.385	72.3	12.4	18.7	
1997 11 28	10 59.72	+02 34.6	4.450	4.400	80.7	12.8	18.7	
1997 12 08	11 04.45	+01 54.4	4.313	4.415	89.5	12.9	18.6	
1997 12 18	11 07.96	+01 21.0	4.176	4.431	98.6	12.7	18.6	
1997 12 28	11 10.15	+00 55.5	4.043	4.448	108.1	12.1	18.5	
1998 01 07	11 10.96	+00 38.6	3.919	4.465	118.0	11.2	18.5	
1998 01 17	11 10.36	+00 30.9	3.807	4.482	128.2	9.9	18.4	
1998 01 27	11 08.43	+00 32.6	3.713	4.500	138.7	8.3	18.4	
1998 02 06	11 05.29	+00 43.2	3.641	4.519	149.6	6.3	18.4	
1998 02 16	11 01.22	+01 01.6	3.595	4.538	160.5	4.2	18.3	
1998 02 26	10 56.57	+01 26.1	3.577	4.557	170.9	2.0	18.4	
1998 03 08	10 51.73	+01 54.2	3.589	4.577	173.8	1.3	18.4	
1998 03 18	10 47.13	+02 23.4	3.631	4.597	164.3	3.4	18.4	
1998 03 28	10 43.17	+02 51.2	3.703	4.618	153.6	5.5	18.5	
1998 04 07	10 40.14	+03 15.1	3.800	4.639	143.1	7.4	18.6	
1998 04 17	10 38.28	+03 33.5	3.920	4.661	132.8	9.1	18.7	
1998 04 27	10 37.67	+03 45.4	4.059	4.683	122.9	10.4	18.7	
1998 05 07	10 38.36	+03 49.9	4.213	4.705	113.4	11.4	18.8	
1998 05 17	10 40.30	+03 47.0	4.377	4.728	104.2	12.0	19.0	
1998 05 27	10 43.40	+03 36.9	4.547	4.751	95.4	12.3	19.1	
1998 06 06	10 47.56	+03 19.7	4.720	4.774	86.9	12.3	19.2	
1998 06 16	10 52.65	+02 56.1	4.892	4.798	78.7	12.0	19.3	
1998 06 26	10 58.55	+02 26.5	5.061	4.822	70.7	11.5	19.4	
1998 07 06	11 05.15	+01 51.6	5.223	4.846	62.9	10.8	19.4	
1998 07 16	11 12.33	+01 11.8	5.376	4.871	55.3	9.9	19.5	
1998 07 26	11 19.99	+00 27.9	5.519	4.896	47.9	8.9	19.6	
1998 08 05	11 28.06	−00 19.6	5.648	4.921	40.5	7.7	19.7	
1998 08 15	11 36.43	−01 10.1	5.763	4.946	33.2	6.4	19.7	

119P/Parker-Hartley Elements *MPC* 25513

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
1997 09 29	10 24.01	+05 27.6	4.623	3.793	30.4	7.7	18.4	20.8
1997 10 09	10 34.42	+04 20.1	4.564	3.818	37.4	9.1	18.4	20.8
1997 10 19	10 44.23	+03 13.8	4.489	3.844	44.6	10.5	18.5	20.9
1997 10 29	10 53.37	+02 09.5	4.401	3.869	52.0	11.7	18.5	20.9
1997 11 08	11 01.72	+01 08.3	4.300	3.894	59.6	12.7	18.5	20.9
1997 11 18	11 09.18	+00 11.0	4.189	3.919	67.6	13.5	18.5	20.9
1997 11 28	11 15.62	−00 41.3	4.069	3.944	75.8	14.0	18.5	20.8
1997 12 08	11 20.90	−01 27.5	3.943	3.970	84.4	14.3	18.5	20.8
1997 12 18	11 24.88	−02 06.3	3.815	3.995	93.3	14.2	18.4	20.7
1997 12 28	11 27.43	−02 36.6	3.688	4.020	102.7	13.8	18.4	20.6
1998 01 07	11 28.44	−02 57.2	3.566	4.045	112.5	13.0	18.4	20.6
1998 01 17	11 27.86	−03 07.3	3.455	4.070	122.6	11.7	18.4	20.5
1998 01 27	11 25.70	−03 06.0	3.358	4.095	133.2	10.1	18.4	20.3
1998 02 06	11 22.09	−02 53.5	3.281	4.120	144.1	8.1	18.4	20.2
1998 02 16	11 17.29	−02 30.5	3.228	4.145	155.1	5.7	18.4	20.1
1998 02 26	11 11.65	−01 58.6	3.203	4.170	165.9	3.3	18.4	20.0
1998 03 08	11 05.66	−01 20.4	3.207	4.195	173.4	1.6	18.5	19.9
1998 03 18	10 59.81	−00 39.2	3.243	4.219	167.4	3.0	18.6	20.0
1998 03 28	10 54.57	+00 01.7	3.308	4.244	156.9	5.3	18.7	20.2
1998 04 07	10 50.35	+00 39.2	3.400	4.268	146.2	7.5	18.8	20.3
1998 04 17	10 47.40	+01 11.0	3.517	4.293	135.7	9.4	18.9	20.5
1998 04 27	10 45.88	+01 35.2	3.654	4.317	125.5	10.9	19.0	20.7
1998 05 07	10 45.81	+01 51.0	3.806	4.341	115.8	12.1	19.2	20.8
1998 05 17	10 47.15	+01 58.1	3.969	4.365	106.4	12.8	19.3	20.9
1998 05 27	10 49.80	+01 56.6	4.140	4.388	97.5	13.2	19.4	21.1
1998 06 06	10 53.63	+01 46.8	4.313	4.412	88.9	13.3	19.6	21.2
1998 06 16	10 58.50	+01 29.5	4.486	4.435	80.6	13.1	19.7	21.3
1998 06 26	11 04.27	+01 05.2	4.656	4.458	72.6	12.6	19.8	21.3
1998 07 06	11 10.81	+00 34.6	4.819	4.481	64.8	11.8	19.9	21.4
1998 07 16	11 17.99	−00 01.5	4.974	4.504	57.1	10.9	20.1	21.4
1998 07 26	11 25.72	−00 42.4	5.117	4.527	49.7	9.8	20.2	21.5
1998 08 05	11 33.89	−01 27.5	5.248	4.549	42.3	8.6	20.3	21.5
1998 08 15	11 42.41	−02 16.1	5.364	4.571	35.0	7.3	20.3	21.5

OPPOSITION DATA

Planet	Opposition	α_{2000}	δ_{2000}	V	$\dot{\alpha}$	$\dot{\delta}$	$\phi_{\rm MIN}$	*MPC*
(7789)	97 07 18.1	19 50.27	−22 36.9	15.7	−1.11	+ 0.2	0.8/17.9	30267
1993 RP_3	97 07 18.2	19 50.54	−10 25.0	16.2	−0.96	+ 0.5	3.6/19.4	24745
4114 T-1	97 07 18.2	19 50.59	−24 21.0	16.9	−1.04	− 4.0	1.5/17.7	28620
1976 UJ_4	97 07 18.2	19 50.65	−23 44.9	16.6	−0.97	− 3.6	1.0/17.8	27323
1993 PU_7	97 07 18.3	19 50.93	−22 39.5	17.2	−0.94	− 1.9	0.6/18.1	29103

(6886)	97 07 18.3	19 51.12	−25 11.1	16.0	−0.97	−	5.0	1.4/17.6	26886
1988 CT_2	97 07 18.3	19 51.36	−20 22.3	16.2	−0.94	−	4.3	0.3/18.5	30469
1987 BS_1	97 07 18.4	19 51.61	−20 42.1	16.6	−1.04	+	1.1	0.1/18.5	30469
1988 VY	97 07 18.4	19 51.76	−18 16.6	18.0	−0.86	−	2.3	0.9/18.9	30469
1981 EW_{13}	97 07 18.5	19 51.91	−19 42.6	18.1	−1.01	−	2.1	0.5/18.7	24239
1984 WC_2	97 07 18.6	19 52.12	−15 46.3	17.4	−0.92	−	0.3	1.8/19.3	30468
(7812)	97 07 18.6	19 52.20	+01 13.3	18.0	−0.86	−	0.1	6.9/21.6	30434
1996 GG_5	97 07 18.7	19 52.58	−27 16.8	17.5	−1.05	−	4.8	2.9/17.5	27560
1362 T-2	97 07 18.7	19 53.02	−31 34.7	19.5	−1.17	−	2.2	4.4/17.2	24237
(7354)	97 07 18.8	19 53.23	−24 33.5	17.7	−0.82	−	2.7	1.1/18.2	28576
(7843)	97 07 18.8	19 53.37	−15 17.5	15.5	−1.03	+	1.9	2.2/19.5	30442
(7846)	97 07 18.8	19 53.42	−20 24.6	17.8	−1.07	−	1.6	0.2/19.0	30443
(7827)	97 07 19.0	19 53.72	+00 01.6	16.6	−0.75	−	4.2	8.3/23.0	30438
1989 EZ_2	97 07 19.0	19 53.78	−15 36.6	18.0	−1.07	−	0.3	2.2/19.7	30469
1981 FP	97 07 19.0	19 54.08	−17 03.6	18.4	−0.98	−	3.3	1.5/19.7	22697
1990 SD_5	97 07 19.0	19 54.13	−27 10.0	17.1	−1.02	−	2.7	3.0/18.1	30470
6513 P-L	97 07 19.1	19 54.40	−42 16.7	17.0	−1.20	+	1.3	9.3/16.6	23786
(7022)	97 07 19.1	19 54.51	+01 18.0	17.3	−0.87	−	1.5	7.8/22.8	27296
1995 BQ_8	97 07 19.2	19 54.55	−22 34.3	18.5	−0.85	−	3.1	0.6/18.9	27917
1997 NA_1	97 07 19.3	19 55.08	−17 54.2	17.3	−0.81	−	2.3	1.2/19.8	30464
1989 TB_5	97 07 19.4	19 55.53	−12 45.2	17.3	−0.86	−	4.3	3.1/20.9	28613
1996 BV_3	97 07 19.7	19 56.83	−27 43.8	15.4	−0.96	−	6.6	3.4/18.3	30473
(7820)	97 07 19.9	19 57.57	−25 32.1	15.9	−0.94	−	2.1	2.6/19.2	30436
1992 DZ_2	97 07 20.0	19 57.99	−22 34.3	17.3	−1.01	−	3.0	0.7/19.7	27935
1992 DF_1	97 07 20.0	19 58.12	−01 36.8	19.3	−1.03	−	9.1	7.5/24.2	30471
1992 EX_{17}	97 07 20.1	19 58.46	−07 45.5	17.4	−0.98	−	3.1	5.0/22.3	30471
(7337)	97 07 20.2	19 58.72	−28 39.5	16.0	−1.10	−	0.6	3.6/19.1	28572
2114 T-3	97 07 20.4	19 59.50	−06 16.5	17.3	−0.80	−	1.7	5.2/22.9	30474
(7852)	97 07 20.5	19 59.81	−24 20.2	17.0	−1.02	−	4.2	1.5/19.8	30444
(7308)	97 07 20.6	20 00.52	−16 49.6	16.3	−0.86		0.0	1.3/21.2	28291
(6979)	97 07 20.7	20 00.88	−45 55.8	15.2	−1.26	+	1.5	11.5/16.8	27097
1993 FL_{84}	97 07 20.8	20 01.04	−05 15.2	15.4	−0.90	−	4.7	7.7/23.8	30471
(7433)	97 07 20.9	20 01.49	−00 27.0	17.5	−0.94	−	4.3	8.2/25.2	28834
2303 T-2	97 07 21.2	20 02.93	−21 56.0	19.1	−1.07	−	3.8	0.6/21.0	24579
(6967)	97 07 21.3	20 03.05	−27 30.0	16.7	−1.13	−	4.0	2.9/20.0	27094
1991 AS_1	97 07 21.3	20 03.13	−39 22.2	17.5	−1.40	+	3.8	6.2/19.5	25226
1994 XV	97 07 21.3	20 03.19	+09 51.4	20.2	−0.97	+	0.1	9.6/25.5	25071
1981 EF_{32}	97 07 21.3	20 03.29	−15 36.9	18.6	−1.03	+	1.0	2.1/22.0	26921
1986 RB_{12}	97 07 21.4	20 03.45	−07 02.0	15.2	−0.84	+	1.6	4.6/23.1	22698
1987 RV_3	97 07 21.4	20 03.59	−12 26.6	15.9	−0.90	−	1.8	4.2/22.8	30469
(6851)	97 07 21.5	20 03.73	−19 32.4	16.9	−1.08	−	5.0	0.4/21.7	29076
1994 YU_2	97 07 21.5	20 03.99	+07 02.7	18.3	−0.93	−	7.7	10.0/27.9	25071
(7687)	97 07 21.5	20 04.00	−10 24.0	17.1	−1.01	−	3.7	4.1/23.4	29908
1989 XD_2	97 07 21.5	20 04.19	−19 09.6	17.3	−0.93	−	6.1	0.5/21.9	30470
4069 P-L	97 07 21.6	20 04.40	−06 50.2	17.5	−0.77	−	2.6	4.3/24.2	28892
(7791)	97 07 21.7	20 04.53	−14 49.8	18.2	−0.75	−	4.0	1.5/22.8	30268
1997 NQ_2	97 07 21.7	20 04.73	−03 35.2	18.3	−1.06	+	4.6	5.6/23.3	30465
1994 PU	97 07 21.7	20 04.93	−23 57.2	16.8	−1.15	−	1.7	1.6/21.2	30453
(7105)	97 07 21.8	20 04.96	−18 42.6	18.3	−0.99	−	3.8	0.6/22.1	27697
1987 DN_6	97 07 22.0	20 06.00	−19 33.3	18.5	−0.93	−	2.2	0.2/22.2	28612
1989 AL_3	97 07 22.1	20 06.15	−19 05.7	17.3	−1.03	−	5.4	0.5/22.3	30469
1992 ES_{13}	97 07 22.2	20 06.93	−16 44.9	17.7	−1.01	−	3.0	1.4/22.9	30471
1975 SU_1	97 07 22.3	20 07.04	−18 33.6	17.7	−0.78	−	2.6	0.5/22.6	28083
1996 EG_2	97 07 22.3	20 07.12	−05 07.6	16.7	−0.85	−	6.6	6.0/25.8	30473
1996 AF_2	97 07 22.4	20 07.60	−23 49.9	15.8	−1.10	−	0.3	1.5/22.0	26928
(7806)	97 07 22.8	20 09.04	−25 16.7	16.2	−1.03	−	3.2	2.4/21.9	30433
1990 RS_6	97 07 22.8	20 09.19	−28 35.3	17.9	−1.11	−	1.0	3.5/21.6	26740
1993 TS_{15}	97 07 22.9	20 09.40	−17 45.0	17.7	−0.90	−	3.7	1.0/23.0	24111
1991 VL_1	97 07 22.9	20 09.71	−23 44.1	16.2	−1.03	−	7.6	1.8/22.2	29660
4140 T-3	97 07 22.9	20 09.73	−20 41.0	18.9	−0.93	−	4.5	7.8/12.0	27929
1981 ED_{20}	97 07 23.0	20 10.02	−27 29.5	18.1	−1.10	−	2.6	2.7/21.8	26918
1993 KR	97 07 23.1	20 10.39	+13 00.4	18.0	−1.01	−	1.1	11.9/30.2	26744
1996 FO_5	97 07 23.1	20 10.44	−34 32.8	17.7	−1.16	−	2.3	5.3/20.7	30293
(7809)	97 07 23.2	20 10.52	−14 29.8	16.6	−1.02	+	1.0	2.7/24.0	30433
1997 NL_6	97 07 23.2	20 10.54	−10 14.9	16.7	−0.85	−	4.5	5.4/25.3	30465
4812 P-L	97 07 23.2	20 10.84	−21 10.2	19.2	−0.85	−	2.7	0.4/23.1	25224
1994 VB_7	97 07 23.3	20 10.88	−15 20.2	17.6	−1.00	−	2.8	1.8/24.1	30472
1978 VP_3	97 07 23.3	20 11.01	−23 34.3	18.8	−0.85	−	3.4	1.1/22.6	27302
1990 QZ_1	97 07 23.3	20 11.19	−28 48.2	16.9	−1.11	−	1.2	3.4/22.0	30470
3097 P-L	97 07 23.4	20 11.32	−18 28.0	16.3	−0.92	+	1.5	0.7/23.6	15423
4098 P-L	97 07 23.4	20 11.50	−07 25.8	19.0	−0.82	−	2.6	4.0/25.8	27320
1993 DD_1	97 07 23.4	20 11.68	−28 31.5	16.7	−1.17	−	2.7	3.7/22.0	29102
(7828)	97 07 23.5	20 12.02	−01 00.2	16.2	−0.74	−	2.5	6.9/27.4	30438
1992 GA	97 07 23.6	20 12.55	−23 13.5	17.4	−1.06	+	1.2	1.2/23.3	26758
1993 SQ_{13}	97 07 23.7	20 12.57	−21 14.4	17.8	−0.89	−	2.9	0.4/23.5	27916
1981 EE_{32}	97 07 23.7	20 12.65	−10 19.4	19.3	−0.96	−	2.3	3.7/25.4	26921
1993 TL_{28}	97 07 23.8	20 12.90	−19 50.7	19.0	−0.80	−	3.0	0.0/23.8	25068
5211 T-2	97 07 23.8	20 12.96	−06 47.7	17.2	−0.82	−	1.8	4.0/26.2	22972
1985 UC	97 07 23.8	20 13.01	−52 18.3	15.9	−1.29	+	2.5	15.7/18.2	29940
(7848)	97 07 23.9	20 13.59	−22 12.1	15.4	−0.94	−	0.6	1.1/23.6	30443
1984 DQ	97 07 24.0	20 13.73	−30 22.0	16.3	−1.18	+	2.4	4.5/22.8	30468
1986 QL_2	97 07 24.0	20 13.89	−23 54.7	16.1	−0.85	−	1.6	1.4/23.3	29133
1989 VK	97 07 24.1	20 14.36	−16 49.5	17.9	−1.01	−	1.9	1.2/24.7	27933
5049 T-2	97 07 24.2	20 14.66	−14 24.4	18.7	−1.09	+	0.4	2.3/25.0	30467
1993 YF	97 07 24.3	20 15.03	−20 21.2	18.4	−0.81	−	3.2	0.2/24.2	23791
1984 HO_1	97 07 24.3	20 15.16	−26 53.0	16.8	−1.11	−	2.7	3.5/23.1	30468
1996 JX_7	97 07 24.3	20 15.24	−20 51.9	18.9	−0.80	−	3.1	0.3/24.2	27452
2808 P-L	97 07 24.5	20 15.70	−16 59.5	18.6	−0.97	−	3.5	1.0/25.0	26929
1991 ES_1	97 07 24.5	20 15.76	−04 45.8	16.1	−0.85	−	5.7	5.1/27.9	30289
(6774)	97 07 24.5	20 15.99	−21 17.7	16.6	−1.10	−	3.7	0.6/24.3	26385
9094 P-L	97 07 24.6	20 16.31	−01 05.0	17.6	−0.86	−	3.1	9.2/28.0	27123
1985 PO	97 07 24.7	20 16.89	−17 11.9	16.4	−0.90	−	4.8	1.1/25.3	29654
(6972)	97 07 24.8	20 17.28	−09 44.4	16.2	−0.90	−	3.0	3.4/26.8	27095
(6927)	97 07 24.9	20 17.43	−17 42.3	16.0	−0.98	−	5.6	0.8/25.4	27696
1989 WF_1	97 07 24.9	20 17.58	−37 18.0	17.6	−1.06	−	5.1	6.0/20.9	29913
1988 GQ	97 07 24.9	20 17.64	−19 44.8	16.0	−0.91	−	9.2	0.0/25.0	30447
1992 QL_2	97 07 25.1	20 18.28	−06 07.2	15.3	−0.82	−	0.8	4.9/27.6	30471
1991 BK	97 07 25.2	20 18.80	−26 25.2	18.7	−0.94	−	3.6	2.0/23.9	29658
(6985)	97 07 25.2	20 18.85	−30 21.2	16.5	−1.07	−	4.2	4.2/23.1	27098
1994 PW_{16}	97 07 25.3	20 19.06	−18 40.5	16.0	−1.10	−	1.5	0.4/25.5	30472
(6999)	97 07 25.4	20 19.26	−14 25.9	17.6	−1.00	−	5.4	2.0/26.5	27101
(6970)	97 07 25.8	20 21.22	−21 41.7	16.2	−1.00	−	6.3	0.9/25.4	27095

1993 HC_1	97 07 25.8	20 21.35	−63 43.9	18.8	−2.09	+ 1.9	16.9/19.5	23539
1988 JW	97 07 25.9	20 21.34	−25 45.8	15.5	−0.88	−11.9	2.9/24.1	30469
1995 BP_1	97 07 26.0	20 21.55	−31 54.6	15.8	−1.03	− 8.4	4.8/22.7	29622
1993 SO_2	97 07 26.0	20 21.80	−07 38.6	18.1	−0.83	− 3.2	4.0/28.5	30471
(6843)	97 07 26.0	20 21.88	−34 22.5	16.9	−1.13	− 2.4	5.3/23.3	26727
(6960)	97 07 26.1	20 22.15	−21 42.6	15.7	−0.81	− 2.6	0.8/25.7	27093
(7818)	97 07 26.1	20 22.32	+03 23.2	17.1	−1.00	− 9.3	9.3/31.7	30436
1990 QN_2	97 07 26.3	20 22.74	−29 30.9	16.2	−1.10	+ 0.5	4.9/24.7	25440
1991 GK_4	97 07 26.3	20 23.08	−17 40.8	17.2	−0.87	− 2.8	0.6/26.7	30470
1982 UJ_7	97 07 26.4	20 23.16	−20 08.2	17.1	−0.80	− 3.3	0.2/26.2	29654
1993 VV_7	97 07 26.4	20 23.56	−31 26.6	17.2	−1.12	−14.9	4.2/22.7	24914
(7842)	97 07 26.6	20 24.26	−09 08.5	15.9	−0.88	− 4.4	5.2/28.8	30442
1991 YL_1	97 07 26.7	20 24.75	−19 30.1	17.8	−1.02	− 3.2	0.1/26.7	27556
1982 VB_4	97 07 26.8	20 24.89	−24 52.3	17.9	−0.98	− 3.7	1.9/25.7	24759
1989 SF_1	97 07 26.9	20 25.15	−10 34.4	16.1	−0.81	− 6.8	3.7/29.1	30288
(6950)	97 07 27.1	20 25.92	−32 27.6	16.3	−1.00	− 7.3	4.9/23.8	27090
1988 GF	97 07 27.1	20 26.08	+05 34.7	15.3	−0.84	− 1.2	10.9/01.6	30469
1989 PU	97 07 27.2	20 26.39	−04 43.9	15.4	−0.81	−26.0	6.4/01.9	30469
1991 AK	97 07 27.2	20 26.41	−20 43.4	16.6	−0.94	− 2.6	0.5/26.9	30470
(7209)	97 07 27.2	20 26.62	−26 04.4	16.1	−1.06	0.0	2.7/26.1	27906
1995 AH	97 07 27.3	20 26.93	−17 30.8	17.3	−0.91	− 4.8	0.6/27.7	30472
3039 P-L	97 07 27.3	20 27.05	−09 27.1	17.6	−0.90	− 1.4	3.6/29.1	30474
1993 FG_{23}	97 07 27.4	20 27.30	−16 39.2	16.3	−1.08	− 2.9	1.1/27.9	26926
1996 DQ_2	97 07 27.4	20 27.44	−23 05.9	17.0	−0.95	− 5.3	1.6/26.6	28890
1992 FW_1	97 07 27.5	20 27.48	+12 31.7	19.4	−0.92	− 4.6	10.5/04.0	30471
1993 FZ_{49}	97 07 27.5	20 27.66	−22 46.2	16.7	−1.02	− 1.8	1.8/26.9	30471
1040 T-2	97 07 27.5	20 27.87	−16 27.9	18.3	−1.02	− 3.7	1.1/28.1	26912
(7294)	97 07 27.7	20 28.26	−27 07.2	16.8	−0.95	− 4.4	2.7/25.9	29076
1983 XN_1	97 07 27.7	20 28.63	−21 12.6	16.7	−0.89	− 0.7	0.7/27.4	30468
1996 AA_1	97 07 27.8	20 28.66	−18 26.0	15.7	−1.03	− 2.8	11.3/17.0	30473
1984 UD	97 07 27.8	20 28.78	−33 47.2	17.5	−1.05	− 3.1	5.1/24.6	30287
1989 AL_6	97 07 27.9	20 29.51	−19 44.8	16.9	−1.02	− 4.8	0.3/27.8	30447
(6956)	97 07 28.1	20 30.15	−10 51.8	17.1	−0.96	− 2.4	3.0/29.7	27092
2206 P-L	97 07 28.2	20 30.29	−11 20.7	18.5	−0.88	− 3.8	2.6/29.8	28891
1987 UZ_1	97 07 28.2	20 30.41	+30 23.0	17.4	−1.16	+ 2.3	22.5/07.3	23779
(7817)	97 07 28.2	20 30.55	−19 02.3	16.1	−0.88	− 3.3	0.0/28.3	30435
(7045)	97 07 28.2	20 30.59	−25 10.1	17.4	−1.08	− 2.1	2.4/27.1	27434
1986 RF_3	97 07 28.2	20 30.66	−14 32.5	16.6	−0.84	− 4.1	2.2/29.3	30446
(7854)	97 07 28.3	20 30.99	−19 46.5	16.0	−1.14	+ 1.0	0.4/28.3	30445
1996 GU_8	97 07 28.3	20 31.07	−23 42.5	17.3	−0.90	− 4.2	1.8/27.3	30473
1992 DJ_8	97 07 28.5	20 31.76	−12 05.9	18.5	−0.93	− 3.7	2.5/30.0	25650
1981 EJ_2	97 07 28.7	20 32.30	−05 08.3	17.7	−0.85	0.0	5.5/31.2	26914
1993 FB_{18}	97 07 28.8	20 32.79	−23 41.1	15.5	−0.91	− 6.6	2.5/27.6	30471
1990 SC_4	97 07 29.0	20 33.80	+12 37.5	17.5	−0.93	− 4.8	11.2/05.5	24912
1986 QP_2	97 07 29.1	20 34.06	−18 34.2	16.5	−0.78	− 3.9	0.1/29.2	27119
(7832)	97 07 29.2	20 34.27	−06 01.4	15.2	−0.83	− 2.4	7.0/31.9	30439
1995 BQ_3	97 07 29.2	20 34.36	−12 23.0	16.9	−0.87	− 6.5	2.3/30.8	30093
1214 T-3	97 07 29.2	20 34.50	−24 00.6	16.7	−0.93	− 0.5	1.8/28.3	22972
1996 JN_6	97 07 29.3	20 34.78	−19 24.9	17.2	−0.83	− 4.0	0.2/29.2	29925
1996 HV_{24}	97 07 29.4	20 35.15	−06 50.2	18.4	−0.78	− 2.8	3.8/01.0	30473
(7400)	97 07 29.4	20 35.26	−16 49.6	16.5	−0.82	− 3.7	0.7/29.9	28826
1992 SB_1	97 07 29.4	20 35.26	−42 29.0	15.6	−1.10	+ 0.6	8.3/24.8	23519
1996 HT_{14}	97 07 29.7	20 36.33	−19 17.0	17.4	−0.78	− 3.4	0.2/29.6	29947
1981 EH_6	97 07 29.7	20 36.54	−14 41.9	20.9	−0.81	− 2.6	1.0/30.6	26915
(7349)	97 07 29.8	20 36.53	−19 04.2	17.2	−0.89	− 4.3	0.2/29.7	28575
1995 DH	97 07 29.8	20 36.54	+02 59.3	16.4	−0.86	−11.5	7.7/05.2	24908
1981 EJ_{35}	97 07 29.8	20 36.54	−13 18.0	20.8	−0.95	− 4.8	1.8/31.0	22271
(6994)	97 07 29.9	20 36.95	−19 40.3	16.7	−0.82	− 2.9	0.4/29.7	27696
2203 T-2	97 07 30.2	20 38.18	−06 58.4	20.2	−0.89	− 4.5	4.3/01.8	27564
1994 TM_{14}	97 07 30.2	20 38.28	−08 28.4	16.7	−0.95	− 4.4	3.9/01.5	30093
1995 CD_2	97 07 30.2	20 38.40	+12 35.8	17.4	−0.75	− 0.9	9.3/06.7	30277
2079 P-L	97 07 30.2	20 38.44	−22 38.5	17.3	−0.92	− 2.0	1.4/29.4	27938
(6948)	97 07 30.4	20 39.08	−22 35.6	17.9	−1.02	− 3.6	1.5/29.6	27090
2679 P-L	97 07 30.4	20 39.24	−13 58.2	17.9	−0.88	− 6.1	2.3/31.6	27116
2030 T-2	97 07 30.5	20 39.29	−22 18.9	19.1	−0.98	− 3.0	1.6/29.7	17977
1975 SR	97 07 30.6	20 39.66	−13 42.7	17.0	−0.87	− 4.0	2.4/31.7	30468
1996 BL_{17}	97 07 30.6	20 40.04	−26 27.4	16.9	−1.08	− 5.9	3.3/28.8	27568
(6868)	97 07 30.7	20 40.02	−19 03.2	16.4	−0.91	− 4.7	0.2/30.6	26733
3087 P-L	97 07 30.7	20 40.41	−08 21.2	16.8	−0.82	− 1.0	3.5/01.8	30465
1981 ES_{28}	97 07 30.8	20 40.47	−26 26.0	19.2	−1.06	− 2.6	2.9/29.2	26920
6328 P-L	97 07 30.8	20 40.54	−22 49.1	18.0	−0.97	− 2.9	1.6/29.9	27328
1977 DF_2	97 07 31.0	20 41.44	−25 11.1	17.4	−0.94	− 2.4	2.4/29.6	28610
1993 FD_{19}	97 07 31.1	20 41.89	−16 09.7	16.4	−0.99	− 7.5	0.9/31.7	26742
1990 SN_6	97 07 31.2	20 42.30	−19 09.4	15.6	−0.93	− 6.6	0.4/31.0	27119
1987 DH_6	97 07 31.3	20 42.55	−16 31.7	16.5	−0.90	− 3.0	0.7/31.7	30469
1993 TZ_{16}	97 07 31.4	20 43.05	−11 16.2	18.0	−0.83	− 4.7	2.7/02.0	23240
1994 TN_3	97 07 31.4	20 43.12	−21 14.0	18.9	−1.02	− 3.7	1.1/30.8	30472
1996 GG_{20}	97 07 31.4	20 43.12	−17 28.7	16.2	−0.83	− 4.2	0.3/31.7	28890
1996 BD_2	97 07 31.5	20 43.40	−21 19.3	17.6	−1.08	− 3.6	1.5/30.9	29139
1996 HT_{17}	97 07 31.5	20 43.41	−17 02.6	17.4	−0.83	− 4.0	0.4/31.8	30473
1981 EU_{41}	97 07 31.6	20 43.63	−14 40.7	19.3	−0.99	− 4.0	1.3/01.4	24557
(7037)	97 07 31.7	20 43.94	−09 21.4	15.6	−0.83	− 0.6	2.8/02.5	27300
4157 T-3	97 07 31.7	20 43.95	−12 15.2	17.6	−0.98	− 6.0	2.3/02.1	27124
4517 T-3	97 07 31.7	20 44.03	−10 35.1	18.1	−0.91	− 7.8	3.5/02.7	30467
1996 GC_{18}	97 07 31.7	20 44.06	−18 13.9	17.7	−0.90	− 3.8	0.0/31.7	30473
1993 JX	97 07 31.8	20 44.30	−09 23.5	18.2	−0.99	− 3.6	3.5/02.7	22958
1995 YN_3	97 07 31.8	20 44.31	−12 05.9	16.6	−1.08	− 1.5	2.6/02.0	26761
1990 YX	97 07 31.9	20 44.98	−25 30.0	18.3	−1.01	− 2.8	2.6/30.4	29134
1992 RJ_5	97 07 31.9	20 45.09	−22 09.3	16.9	−0.83	− 4.1	1.5/31.0	27729
1990 SS_9	97 08 01.0	20 45.46	−21 24.8	17.4	−1.03	− 5.2	1.3/31.3	30470
1994 YX	97 08 01.1	20 45.43	−15 24.7	17.4	−0.96	− 2.2	1.0/01.6	24752
1991 GA_6	97 08 01.1	20 45.47	−17 24.7	16.9	−0.85	− 3.0	0.2/01.2	28316
1991 TD_6	97 08 01.1	20 45.66	−14 33.1	17.9	−1.08	− 3.1	1.5/01.9	24390
1996 EU_3	97 08 01.1	20 45.71	−29 44.3	17.0	−1.11	− 0.4	5.4/30.0	27719
(6855)	97 08 01.3	20 46.23	−23 29.1	16.1	−1.14	+ 0.2	2.5/31.4	26730
(7686)	97 08 01.3	20 46.66	−24 12.3	16.8	−1.12	− 2.3	2.6/31.2	29908
3398 T-3	97 08 01.4	20 46.87	−16 22.8	17.0	−1.02	− 5.1	0.7/01.8	27732
1989 SA	97 08 01.6	20 47.84	−36 49.6	16.1	−1.01	− 8.1	7.6/27.0	22081
(7011)	97 08 01.8	20 48.36	−27 30.9	16.7	−1.15	− 2.9	4.2/30.8	27293
2237 T-2	97 08 01.8	20 48.45	−10 29.5	17.7	−0.88	− 4.2	3.1/03.6	23988
1991 VF_2	97 08 01.8	20 48.54	−08 03.0	17.7	−1.00	− 4.1	3.8/04.0	27325
1993 FO_{40}	97 08 01.8	20 48.63	−21 33.2	16.5	−1.07	− 4.7	1.7/01.1	29944

(6818)	97 08 01.9	20 48.76	−24 59.7	16.8	−1.12	− 3.4	2.9/31.4	26550
1990 TU_{11}	97 08 02.0	20 49.21	−19 32.2	17.9	−1.00	− 3.2	0.6/01.7	28614
3064 T-1	97 08 02.5	20 50.98	−17 24.2	17.9	−1.01	− 4.0	0.1/02.6	30474
(6837)	97 08 02.6	20 51.47	−30 20.8	16.9	−1.00	− 1.2	3.9/31.0	26555
6039 P-L	97 08 02.6	20 51.70	−06 12.1	17.5	−0.80	− 4.5	3.5/05.5	30466
1996 LA	97 08 02.7	20 51.72	−06 06.1	18.2	−0.76	− 3.1	3.4/05.5	30459
(6959)	97 08 02.8	20 52.23	−35 15.3	15.2	−1.07	+ 0.6	6.7/30.4	27093
1992 RT_7	97 08 02.8	20 52.39	−17 33.3	16.0	−0.87	− 1.3	0.0/02.9	30471
(7849)	97 08 03.0	20 52.90	−24 44.5	17.8	−0.90	− 4.8	2.5/01.2	30443
2496 T-3	97 08 03.0	20 53.13	−04 31.4	17.1	−0.78	− 3.2	4.3/06.2	16038
1993 TO_{15}	97 08 03.3	20 54.09	−14 12.3	18.0	−0.86	− 3.9	1.2/04.1	30291
1990 UO_2	97 08 03.5	20 54.89	+25 58.2	16.2	−1.01	+ 3.6	18.6/10.7	30470
5192 T-3	97 08 03.7	20 55.52	−32 21.4	18.0	−0.88	− 4.5	4.6/30.8	30474
1992 EN_{17}	97 08 03.7	20 55.65	−21 52.5	18.4	−1.03	− 4.6	1.7/02.7	27309
1992 AO_2	97 08 03.8	20 56.04	−20 35.8	17.2	−0.95	− 7.2	1.2/03.0	28886
1990 QB	97 08 03.9	20 56.28	−35 17.8	15.9	−1.65	+ 6.8	8.5/01.8	27325
1996 DP	97 08 03.9	20 56.64	−17 10.9	16.9	−0.92	− 4.4	0.0/04.0	30292
1993 VG_1	97 08 04.0	20 57.02	−34 39.1	15.8	−0.99	− 6.7	6.7/30.0	27558
4129 T-2	97 08 04.0	20 57.12	−27 05.7	17.0	−1.10	− 3.0	4.4/02.0	27732
1985 UO_3	97 08 04.3	20 57.93	−54 52.3	17.4	−1.42	− 0.7	13.6/25.2	27119
1994 LT	97 08 04.4	20 58.40	−53 55.6	16.9	−1.31	−16.1	17.5/18.9	24409
1997 MB_9	97 08 04.5	20 58.61	−10 11.0	17.3	−0.94	+ 2.3	2.2/05.7	30474
1164 T-3	97 08 04.5	20 58.77	+00 02.3	17.9	−0.80	− 1.8	6.0/08.6	30474
1981 EY_{19}	97 08 04.6	20 59.04	−15 43.4	17.0	−0.84	− 3.3	0.5/04.9	28314
1982 BM	97 08 04.6	20 59.08	−16 41.0	17.5	−0.90	− 2.8	0.1/04.7	28883
1996 CK_9	97 08 04.6	20 59.17	−12 24.1	15.6	−0.82	− 8.8	2.3/06.0	30457
1989 AN_5	97 08 04.7	20 59.40	−17 53.2	18.1	−0.77	− 6.1	0.3/04.5	30469
(6976)	97 08 04.7	20 59.58	−28 12.6	15.1	−0.91	− 8.8	5.3/01.4	27096
1982 SP_6	97 08 04.7	20 59.75	−29 37.6	16.7	−0.95	− 1.4	4.1/02.0	29654
1994 UC_2	97 08 04.9	21 00.45	−08 24.2	17.3	−1.02	− 3.0	3.6/06.8	28617
1993 QN	97 08 05.0	21 00.55	−19 10.7	14.2	−1.78	+16.7	1.1/05.0	22817
1996 GJ_{19}	97 08 05.0	21 00.88	−14 42.4	17.9	−0.82	− 4.0	0.8/05.6	30293
1995 BW	97 08 05.1	21 00.93	−21 47.2	16.5	−0.91	− 3.5	1.7/04.0	27568
4511 P-L	97 08 05.1	21 01.03	−11 08.1	19.8	−0.96	− 6.9	2.6/06.6	27123
1989 SZ_2	97 08 05.3	21 01.68	−02 33.2	17.3	−0.80	− 7.2	6.0/09.4	30289
1990 TG_{13}	97 08 05.3	21 01.97	−34 02.9	18.4	−1.09	− 5.4	6.0/31.8	29658
1993 TQ	97 08 05.3	21 01.98	−31 10.4	15.8	−0.93	− 5.7	6.0/01.3	30472
1985 SM_2	97 08 05.4	21 02.15	+00 54.5	16.5	−0.87	− 3.0	6.1/09.8	27324
(7067)	97 08 05.4	21 02.29	−34 38.7	16.0	−0.92	− 4.0	5.8/31.7	27440
1991 CL	97 08 05.4	21 02.42	−18 26.3	16.5	−0.83	− 7.5	0.5/05.0	28845
1992 UM_9	97 08 05.5	21 02.58	−08 36.0	16.4	−0.73	− 4.6	2.8/07.7	27310
3089 T-1	97 08 05.5	21 02.64	−13 38.0	18.5	−1.00	− 3.8	1.3/06.3	30285
1993 LZ_1	97 08 05.5	21 02.83	−09 45.3	15.8	−0.99	− 1.1	3.2/07.0	27455
1990 QO_5	97 08 05.5	21 02.88	−19 48.6	16.9	−0.95	− 4.6	1.4/04.9	30470
1989 ET_1	97 08 05.6	21 03.02	−27 36.6	16.8	−1.10	− 3.9	4.1/03.1	27103
1989 WU_4	97 08 05.7	21 03.45	−13 11.8	18.1	−0.89	− 2.8	1.3/06.6	30273
1977 EM_5	97 08 05.8	21 04.01	−04 27.6	16.7	−0.90	− 7.1	5.2/09.2	27930
1996 KO_1	97 08 05.9	21 04.40	−12 20.3	17.9	−0.92	− 5.8	1.6/07.1	27453
1994 WP_1	97 08 06.0	21 04.51	−13 02.6	19.0	−0.92	− 3.1	1.2/06.9	30276
6761 P-L	97 08 06.0	21 04.68	−07 20.1	18.1	−0.73	− 5.1	2.8/08.6	22087
(7017)	97 08 06.1	21 04.90	−18 38.1	17.5	−0.93	− 6.6	0.7/05.6	27295
1989 TA_{16}	97 08 06.2	21 05.43	−12 12.8	16.7	−0.85	− 3.5	2.0/07.4	30470
1993 YO	97 08 06.2	21 05.49	−30 41.2	18.2	−0.81	− 6.1	4.1/02.2	27456
1993 XS	97 08 06.2	21 05.50	−19 31.2	19.0	−0.77	− 3.6	0.8/05.6	30472
4161 T-1	97 08 06.2	21 05.53	+03 40.4	15.8	−0.74	− 8.7	8.5/12.9	30474
1981 EQ_5	97 08 06.3	21 05.95	−10 54.4	19.2	−0.97	− 3.3	2.0/07.7	26915
3178 T-2	97 08 06.4	21 06.14	−21 40.9	17.7	−0.87	− 3.4	1.8/05.2	27323
1990 OW_2	97 08 06.5	21 06.31	−29 07.0	16.5	−1.02	− 7.3	5.5/02.9	30470
1991 LU_1	97 08 06.6	21 06.86	−07 47.6	18.0	−0.77	− 3.6	2.9/08.9	27556
1993 SQ_2	97 08 06.8	21 07.47	+01 51.0	16.0	−0.69	− 9.9	8.0/13.1	29137
1995 BA_3	97 08 06.8	21 07.63	−18 29.6	17.7	−0.86	− 3.9	0.6/06.3	28889
1997 NH	97 08 07.0	21 08.60	−14 15.6	19.1	−0.90	− 5.5	0.8/07.7	30284
1990 ST_8	97 08 07.1	21 08.85	−24 09.5	17.5	−0.90	− 4.2	3.9/05.2	21974
1991 FN	97 08 07.1	21 08.94	−51 32.4	16.2	−1.90	+ 4.4	16.3/01.5	26420
(6968)	97 08 07.2	21 09.03	−19 40.6	16.8	−1.05	− 4.6	1.3/06.4	27095
1982 DW_3	97 08 07.2	21 09.07	−16 57.1	16.8	−1.00	− 6.1	0.2/07.1	29654
1984 QM	97 08 07.3	21 09.42	−17 16.9	15.2	−0.97	− 0.7	0.5/07.1	27305
(6911)	97 08 07.4	21 09.81	+29 09.3	14.7	−0.91	− 4.6	21.9/25.6	26892
2127 T-2	97 08 07.6	21 10.82	−16 53.2	18.4	−0.94	− 3.2	0.2/07.5	22088
1993 SG_1	97 08 07.7	21 11.27	+02 25.6	15.3	−0.60	−11.3	9.0/14.6	30471
(6992)	97 08 07.8	21 11.34	−18 43.7	14.9	−0.76	− 7.2	0.9/07.1	27100
1993 VV_4	97 08 07.9	21 11.62	−27 43.4	17.4	−0.83	− 5.0	3.6/04.7	27447
1996 JS_5	97 08 07.9	21 11.74	−12 55.7	17.8	−0.75	− 4.6	1.1/08.8	30473
1994 UP_{11}	97 08 08.0	21 12.05	−21 41.8	15.6	−1.03	− 6.0	2.5/06.6	28888
1995 DB_1	97 08 08.1	21 12.49	−31 13.2	17.1	−0.91	− 2.7	4.6/04.3	27456
1991 TX_4	97 08 08.1	21 12.75	−23 13.2	17.7	−1.13	− 3.0	2.8/06.6	29943
1989 AK_6	97 08 08.2	21 12.96	−18 56.5	18.2	−0.75	− 5.7	0.9/07.4	27443
1992 RM_7	97 08 08.3	21 13.14	−19 25.0	18.2	−0.81	− 3.8	1.0/07.4	23134
1997 MR_8	97 08 08.3	21 13.15	−17 37.4	18.0	−0.88	− 9.5	0.6/07.8	30474
1988 VR_2	97 08 08.3	21 13.28	−30 04.6	17.9	−0.88	− 5.5	3.9/04.3	23133
1996 HH_1	97 08 08.5	21 14.18	−16 40.1	17.7	−1.01	− 6.7	0.3/08.4	27318
1995 CW_1	97 08 08.7	21 14.73	+25 28.6	17.9	−0.80	− 1.9	15.0/22.0	30455
4028 P-L	97 08 08.8	21 15.12	−04 44.4	18.1	−0.87	− 4.6	4.0/11.7	22971
1993 KP	97 08 08.8	21 15.35	−10 24.3	15.8	−0.88	− 6.1	2.6/10.4	22827
(6845)	97 08 08.8	21 15.48	−23 16.4	15.5	−0.96	− 7.7	3.4/06.8	26727
(6995)	97 08 08.8	21 15.50	−24 06.0	16.7	−0.96	− 4.2	3.4/06.9	29586
1994 PZ	97 08 08.9	21 15.43	−14 13.9	15.9	−0.87	− 7.3	0.9/09.4	30291
1978 QC_3	97 08 08.9	21 15.52	−16 50.1	15.8	−0.81	− 7.7	0.3/08.7	30287
(6917)	97 08 09.1	21 16.23	−12 19.6	16.8	−0.99	− 6.3	1.5/10.0	26894
1987 SQ_{17}	97 08 09.1	21 16.58	−22 02.9	14.3	−1.03	+ 0.3	3.3/07.9	16026
(6809)	97 08 09.1	21 16.65	−23 27.9	15.9	−1.08	− 2.1	3.2/07.5	26548
(7462)	97 08 09.3	21 17.07	−18 40.2	16.8	−1.10	− 2.4	1.1/08.7	29079
1986 RP_5	97 08 09.3	21 17.24	−36 20.5	16.6	−1.01	− 1.3	6.9/04.1	26166
(7095)	97 08 09.7	21 18.66	−17 06.3	17.6	−0.78	− 4.7	0.5/09.4	27550
1989 TT	97 08 09.8	21 18.89	+02 18.2	16.8	−0.79	−10.3	7.4/15.6	30469
2241 T-3	97 08 09.8	21 19.12	−14 49.2	20.0	−0.94	− 3.4	0.3/10.1	30286
2546 P-L	97 08 09.8	21 19.17	+02 06.1	17.8	−0.81	− 7.0	6.2/15.2	27732
1988 CO_1	97 08 10.4	21 21.17	−16 49.6	17.0	−0.96	− 6.1	0.5/10.0	27727
1989 EE	97 08 10.5	21 21.64	+01 03.1	18.8	−0.68	− 7.0	3.9/15.7	21107
(7186)	97 08 10.8	21 22.71	−08 52.0	16.3	−1.03	− 1.7	2.4/12.3	27901
6742 P-L	97 08 10.9	21 23.24	−18 37.4	19.2	−1.03	− 5.6	1.3/10.1	20347
1979 MS_2	97 08 11.0	21 23.73	−10 48.4	18.3	−0.95	− 5.0	2.0/12.3	24383

1979 QT_1	97 08 11.2	21 24.28	−13 55.6	17.2	−0.97	− 5.3	10.5/32.0	30468
1981 EJ_{31}	97 08 11.2	21 24.35	−10 52.9	19.5	−0.91	− 6.5	1.7/12.5	26921
(7009)	97 08 11.3	21 24.68	−14 00.3	16.5	−0.96	− 5.0	0.6/11.6	27293
1982 TS_1	97 08 11.5	21 25.39	−01 39.9	16.7	−0.78	− 2.7	4.4/15.1	27442
1994 YA_2	97 08 11.5	21 25.45	−41 16.2	17.6	−1.31	+ 1.8	9.1/06.1	29663
1994 UJ	97 08 11.6	21 25.87	−23 05.5	16.1	−0.94	− 5.7	4.0/09.4	29663
1981 EJ_{22}	97 08 11.7	21 26.40	−05 30.8	16.7	−0.74	− 7.5	4.6/14.8	22492
1986 JC	97 08 11.8	21 26.79	−26 17.4	15.5	−0.80	− 9.0	5.7/08.2	26924
(7840)	97 08 11.8	21 26.83	+02 53.1	17.5	−0.92	− 4.4	7.9/16.7	30441
1996 JK	97 08 11.9	21 26.85	−26 42.8	15.3	−0.81	− 6.5	4.0/08.3	27457
1981 EK_{25}	97 08 11.9	21 26.90	−14 18.7	16.2	−0.91	− 2.8	11.1/32.0	30468
(7315)	97 08 11.9	21 27.23	−12 04.7	17.1	−0.88	− 5.2	1.0/12.8	28292
1994 SQ_7	97 08 12.0	21 27.51	−16 35.7	18.7	−1.02	− 5.1	0.6/11.7	24584
3033 T-2	97 08 12.0	21 27.61	−19 29.9	17.0	−0.84	− 4.4	1.6/10.9	27939
1992 SF_{11}	97 08 12.2	21 28.33	−13 35.7	18.4	−0.73	− 3.8	0.4/12.7	25331
1996 DY_1	97 08 12.3	21 28.36	−17 03.3	17.8	−1.00	− 5.9	0.8/11.7	27316
1989 WD_3	97 08 12.3	21 28.44	−07 04.6	18.2	−0.84	− 3.7	2.5/14.4	18632
2723 P-L	97 08 12.6	21 29.67	−10 16.1	18.8	−0.96	− 6.3	1.8/13.9	26414
1995 CH	97 08 12.7	21 29.89	−17 57.1	18.1	−0.83	− 9.1	1.1/11.7	30277
1993 UZ_2	97 08 12.7	21 29.90	−56 14.3	17.6	−1.26	−10.5	14.8/28.0	23126
1978 VE_{11}	97 08 12.7	21 30.07	−03 43.7	18.4	−1.00	− 4.1	4.5/15.6	30468
(6988)	97 08 12.7	21 30.12	−09 14.4	16.5	−0.90	− 4.7	2.1/14.3	27099
1981 DJ_3	97 08 12.8	21 30.59	−08 22.6	19.9	−0.85	− 2.6	2.0/14.5	26914
1981 EG_5	97 08 12.9	21 30.67	−15 00.0	15.4	−1.06	+ 1.1	0.1/12.9	25647
1978 UP_2	97 08 12.9	21 30.74	−34 47.5	15.3	−1.11	− 1.0	10.3/08.0	29939
1993 FJ_{50}	97 08 12.9	21 30.80	−16 12.5	16.3	−1.07	− 4.0	0.6/12.6	26927
1981 ES_{40}	97 08 13.0	21 31.05	−04 46.2	19.0	−0.83	− 5.6	3.3/15.8	26922
5193 T-3	97 08 13.1	21 31.53	−10 55.9	16.8	−0.75	− 8.1	1.2/14.3	22702
1987 SZ_2	97 08 13.5	21 33.04	−28 35.6	16.8	−1.12	− 2.9	6.4/09.9	28613
1995 BS_1	97 08 13.6	21 33.62	−17 00.6	15.9	−0.83	−11.0	0.9/12.8	29106
1990 QZ_8	97 08 13.8	21 33.96	−15 51.0	18.0	−0.96	− 6.1	0.5/13.4	21974
1996 HW	97 08 13.8	21 34.27	−39 09.6	16.6	−1.16	− 0.7	9.4/07.7	30473
1993 RQ_5	97 08 14.0	21 34.95	−06 50.2	17.4	−0.81	− 5.8	2.5/16.3	28317
1990 VG_6	97 08 14.2	21 35.86	−09 10.4	16.7	−0.85	− 6.8	1.7/15.8	24564
1996 CY_2	97 08 14.3	21 36.23	−17 46.6	17.0	−1.01	− 5.9	1.4/13.4	27112
1981 EC_{26}	97 08 14.4	21 36.30	−15 58.6	19.6	−0.97	− 4.4	0.6/14.0	27118
(6965)	97 08 14.5	21 36.66	−16 18.4	16.2	−0.88	− 7.1	0.8/13.9	27094
1995 DL_1	97 08 14.5	21 36.76	−39 12.0	19.0	−0.85	− 3.9	5.7/06.9	27568
1991 GZ_9	97 08 14.5	21 36.81	−06 56.5	18.7	−0.84	− 2.9	2.1/16.5	30470
1990 VB_{14}	97 08 14.6	21 37.21	−12 46.5	17.2	−0.98	− 4.1	0.6/15.0	30470
1981 EE_{38}	97 08 14.7	21 37.37	−13 44.3	18.6	−0.86	− 3.5	0.2/14.8	21967
1982 DP_1	97 08 14.9	21 38.17	−24 39.2	17.8	−1.07	− 4.6	4.0/12.1	29654
1976 SR_5	97 08 15.0	21 38.50	−27 54.0	16.9	−1.09	− 3.6	5.7/11.3	29652
(6856)	97 08 15.0	21 38.54	−12 53.0	16.0	−0.99	− 4.3	0.5/15.3	26730
(6916)	97 08 15.1	21 39.00	−08 54.3	14.7	−1.14	+ 4.2	2.2/16.0	26893
1989 AT	97 08 15.1	21 39.03	−26 58.1	16.7	−0.80	− 6.1	3.7/11.1	30469
1988 CU_1	97 08 15.2	21 39.33	−14 51.3	17.8	−0.96	− 4.2	0.3/15.0	30469
(7001)	97 08 15.3	21 39.63	−11 59.2	16.0	−0.91	− 7.9	0.8/15.9	27291
1990 RW_8	97 08 15.3	21 39.69	−04 02.7	17.0	−0.94	+ 0.3	5.2/17.6	30470
1996 HP_1	97 08 15.3	21 39.92	+00 35.0	19.5	−0.81	− 6.4	4.9/19.9	30459
1981 EN_{16}	97 08 15.4	21 40.10	−14 38.2	19.7	−1.03	− 2.2	0.2/15.3	30468
3176 T-3	97 08 15.4	21 40.17	−14 36.8	18.4	−0.78	− 3.9	0.2/15.3	30474
1992 JS_2	97 08 15.5	21 40.44	+07 16.5	16.4	−0.81	− 5.9	8.0/22.3	27729
4064 T-2	97 08 15.5	21 40.51	−05 24.6	17.4	−0.89	− 8.2	3.4/18.2	27328
1971 UD_1	97 08 15.5	21 40.66	−16 10.5	16.7	−0.97	− 5.8	1.1/14.9	29939
(7172)	97 08 15.7	21 41.44	−17 52.2	17.2	−0.94	− 5.4	1.4/14.7	27898
1995 DR_6	97 08 15.8	21 41.59	−17 11.5	17.0	−0.78	− 3.6	1.3/14.9	28087
1990 WD_2	97 08 16.0	21 42.53	−21 33.9	17.5	−0.92	− 6.6	2.8/13.7	29134
1989 CX_2	97 08 16.1	21 42.80	−02 32.8	17.0	−0.80	− 2.0	3.8/19.1	27728
(6973)	97 08 16.1	21 42.92	−13 37.9	16.9	−0.86	− 5.6	0.0/16.2	27096
1996 GH_{20}	97 08 16.1	21 42.94	−17 26.8	16.6	−0.86	− 4.9	1.4/15.1	28863
(6921)	97 08 16.1	21 42.94	−22 20.7	15.2	−0.95	− 6.7	3.9/13.6	26895
1989 VS_1	97 08 16.1	21 43.02	−16 25.7	16.6	−0.89	− 6.0	1.0/15.4	30273
(7126)	97 08 16.2	21 43.02	−11 37.2	16.8	−0.81	− 4.3	0.8/16.8	27702
1980 TV_2	97 08 16.2	21 43.29	−22 57.6	16.5	−1.14	− 2.5	4.4/13.9	24406
1981 EJ_{40}	97 08 16.3	21 43.64	−43 45.5	17.7	−1.78	+ 5.4	11.4/10.4	22823
4050 T-3	97 08 16.4	21 43.94	−14 50.4	17.5	−0.88	− 6.7	0.4/16.1	19332
1983 PX	97 08 16.5	21 44.10	+01 01.0	15.7	−0.64	− 7.4	6.6/21.6	27726
1978 RE_3	97 08 16.6	21 44.55	−12 25.9	17.1	−0.94	− 3.8	0.5/16.9	22967
1996 CN_7	97 08 16.6	21 44.70	−17 26.7	16.7	−0.96	− 3.7	1.7/15.6	30457
(6969)	97 08 16.7	21 45.10	−12 24.5	15.7	−0.94	− 9.0	0.5/17.1	30433
1979 MY_5	97 08 17.0	21 46.24	+02 17.6	16.5	−0.91	− 1.2	5.9/21.1	30287
(6953)	97 08 17.1	21 46.46	−12 44.3	15.4	−0.75	− 4.7	0.2/17.3	27091
1981 DS	97 08 17.1	21 46.54	+00 54.1	17.7	−0.66	− 3.1	3.7/21.4	24733
3312 T-3	97 08 17.2	21 47.08	−12 50.2	18.6	−0.83	− 6.2	0.3/17.4	27928
1986 QO_3	97 08 17.3	21 47.08	−20 30.4	16.0	−0.97	− 5.1	3.3/15.3	28840
9062 P-L	97 08 17.3	21 47.09	−08 36.9	16.5	−0.87	− 4.2	2.0/18.6	27321
1994 TC_3	97 08 17.3	21 47.40	−11 07.3	15.9	−0.87	− 4.8	1.2/18.0	30472
(7185)	97 08 17.4	21 47.81	−18 50.9	15.3	−0.96	− 8.0	2.5/15.8	27901
9076 P-L	97 08 17.5	21 47.97	+05 48.6	15.5	−0.77	− 7.8	7.7/23.9	30474
1993 SB_{15}	97 08 17.5	21 47.98	−19 51.6	16.5	−0.83	− 9.2	2.3/15.4	30452
1981 EV_{45}	97 08 17.6	21 48.22	−10 54.6	18.7	−0.83	− 3.3	0.9/18.3	20811
1993 TW_{33}	97 08 17.7	21 48.94	−19 32.1	16.9	−0.84	− 5.7	2.3/15.9	27557
1978 PO_3	97 08 17.7	21 48.97	−14 52.2	16.1	−0.91	− 4.3	0.7/17.3	30468
1981 EJ_{37}	97 08 17.8	21 49.38	−14 28.7	19.3	−1.04	− 2.2	0.5/17.6	26922
4327 T-3	97 08 17.9	21 49.70	−28 40.8	18.3	−0.98	− 4.1	5.4/13.6	22702
(6966)	97 08 18.0	21 50.05	−13 30.9	17.1	−1.08	− 3.8	0.2/18.0	27094
1994 YC	97 08 18.1	21 50.45	−11 42.4	18.1	−0.89	− 3.3	0.4/18.6	30455
(7829)	97 08 18.2	21 50.60	+19 53.7	16.1	−1.23	+ 2.3	15.3/25.7	30439
1989 GH_4	97 08 18.4	21 51.32	−17 12.4	17.0	−1.04	− 2.7	1.8/17.4	28613
1989 AS_1	97 08 18.4	21 51.44	−18 14.8	16.5	−1.03	− 5.1	2.0/17.0	28315
2777 P-L	97 08 18.5	21 51.77	−11 35.1	16.2	−0.89	− 6.6	0.6/19.0	29668
1990 QC_6	97 08 18.5	21 51.85	−14 02.1	16.7	−0.98	− 5.4	0.5/18.3	27307
(6889)	97 08 18.6	21 51.92	−23 01.5	15.1	−0.81	− 6.5	5.3/15.4	26887
1992 EW_7	97 08 18.6	21 52.03	−10 32.3	15.5	−0.87	− 4.6	1.1/19.3	27729
1993 HH_1	97 08 18.6	21 52.11	−12 08.0	16.4	−1.00	− 5.0	0.3/18.9	29944
1996 FP_3	97 08 18.6	21 52.11	−16 41.6	19.0	−0.98	− 7.8	1.6/17.5	30458
1979 SU_2	97 08 18.6	21 52.13	−02 21.7	16.0	−0.91	− 4.4	4.6/21.6	21965
1981 EK_{11}	97 08 18.6	21 52.31	+04 29.4	16.9	−0.87	− 5.6	7.8/23.9	27303
(7455)	97 08 18.7	21 52.33	−11 39.4	16.7	−0.80	− 5.0	0.4/19.1	29078
1991 XZ	97 08 18.7	21 52.58	−13 29.2	16.7	−1.03	− 3.8	0.2/18.6	27935
(7807)	97 08 18.8	21 52.65	+03 30.7	17.3	−0.69	− 6.0	5.0/24.3	30433

1991 CU	97 08 18.8	21 52.66	−14 30.0	15.1	−0.79	− 9.5	0.6/18.3	29613
1083 T-3	97 08 18.8	21 52.81	−11 45.2	18.6	−0.97	− 2.5	0.4/19.1	25337
1985 QP_5	97 08 18.8	21 53.11	−28 24.3	16.4	−1.16	+ 1.7	6.5/15.6	28315
1995 BW_1	97 08 18.9	21 53.15	−16 23.2	18.9	−0.87	− 7.2	1.1/17.8	30455
1981 RF_7	97 08 19.1	21 54.06	−20 17.6	16.2	−0.95	− 0.2	3.2/17.3	30468
9515 P-L	97 08 19.2	21 54.13	−19 16.5	17.1	−0.92	− 4.6	2.5/17.3	28892
1993 TU_{38}	97 08 19.2	21 54.27	−19 20.1	17.4	−0.83	− 5.5	2.2/17.2	29662
1993 OG_{13}	97 08 19.2	21 54.37	−11 30.1	17.2	−0.98	− 4.4	0.5/19.6	25082
1993 US	97 08 19.3	21 54.89	−11 31.7	16.8	−0.82	− 5.3	0.4/19.7	29318
2116 T-2	97 08 19.3	21 54.93	−13 21.0	18.1	−0.99	− 5.2	0.2/19.2	30474
1989 SY_{13}	97 08 19.6	21 55.65	−02 04.1	18.1	−0.92	− 1.7	3.4/22.3	29134
1981 EE_{28}	97 08 19.6	21 56.00	−16 19.1	17.5	−0.84	− 4.0	1.3/18.6	30468
1996 JL	97 08 19.6	21 56.03	+01 12.5	16.8	−0.77	− 5.8	5.2/24.0	27319
(6808)	97 08 19.7	21 55.99	−24 43.1	16.2	−1.12	− 2.6	5.1/16.7	26548
1994 YN_1	97 08 19.7	21 56.18	−19 54.9	16.6	−0.91	− 5.7	3.3/17.5	27122
1981 EJ_{47}	97 08 19.7	21 56.25	−08 36.1	19.9	−0.87	− 7.6	1.5/21.0	26923
1997 OJ_1	97 08 19.8	21 56.46	−16 28.0	18.6	−0.80	− 4.9	1.3/18.7	30465
1994 SB	97 08 20.0	21 57.41	−06 38.8	15.9	−1.06	− 3.1	2.3/21.6	30472
1994 VT	97 08 20.1	21 57.90	−12 55.7	17.8	−0.97	− 4.4	0.2/20.1	28888
1991 GX_7	97 08 20.2	21 57.82	−22 09.5	17.1	−0.97	− 2.0	3.5/17.6	22814
1994 YX_1	97 08 20.2	21 57.87	−16 09.1	17.3	−0.87	− 3.7	1.3/19.2	30472
1992 RX_6	97 08 20.2	21 58.19	−23 07.7	17.1	−0.89	− 1.9	3.5/17.4	29660
1992 EV_{15}	97 08 20.3	21 58.21	−11 19.5	17.8	−0.95	− 5.9	0.4/20.6	27729
9072 P-L	97 08 20.4	21 58.66	−03 23.2	18.3	−0.79	− 5.3	3.0/23.2	27321
1996 JU	97 08 20.4	21 58.83	−04 17.7	17.7	−0.87	−12.7	2.6/23.3	28077
1996 JJ_1	97 08 20.4	21 58.89	−05 04.5	17.6	−0.72	− 6.9	2.4/22.9	27562
(6857)	97 08 20.6	21 59.51	−05 32.2	15.9	−1.11	− 0.7	3.0/22.2	26730
1993 OY_2	97 08 20.7	22 00.00	−28 57.2	16.9	−1.28	+ 6.3	7.9/18.1	26903
1996 DD	97 08 20.8	22 00.34	−16 40.2	16.8	−1.03	− 5.2	1.9/19.6	30278
1981 EW_{11}	97 08 20.8	22 00.35	−09 43.8	20.3	−0.94	− 5.0	0.9/21.6	26917
1993 HL_6	97 08 20.9	22 00.80	+00 30.3	16.5	−0.97	− 6.9	5.0/24.9	28888
1994 WU_1	97 08 21.0	22 00.86	−00 12.7	16.3	−0.71	−13.8	5.0/25.7	30472
1993 OA_7	97 08 21.1	22 01.16	−15 38.2	17.1	−0.93	− 6.2	1.3/20.1	27730
(7274)	97 08 21.1	22 01.53	−29 05.0	17.0	−1.15	− 1.9	6.7/16.9	28283
1996 GM_{20}	97 08 21.2	22 01.58	−13 25.2	17.5	−0.78	− 4.2	0.4/20.8	28863
1986 QO_2	97 08 21.3	22 02.23	−13 31.4	15.6	−0.74	− 4.8	0.5/20.9	27324
(7837)	97 08 21.3	22 02.23	−35 58.9	15.8	−1.01	− 2.4	11.1/13.5	30440
1987 UU_4	97 08 21.3	22 02.26	−23 34.5	17.3	−1.05	− 4.8	4.3/18.1	27566
1990 EN_4	97 08 21.4	22 02.29	−14 07.3	18.1	−0.85	− 2.2	0.7/20.8	25440
1993 KQ_2	97 08 21.5	22 02.66	−23 49.8	17.5	−0.95	−14.8	4.4/17.2	30471
1995 DK_1	97 08 21.5	22 02.69	−16 38.0	16.0	−0.70	− 6.4	1.2/20.0	30472
1995 BH_1	97 08 21.5	22 02.86	−10 54.7	17.2	−0.93	− 3.9	0.5/21.8	30472
1981 UZ_9	97 08 21.5	22 03.06	−25 24.0	16.4	−1.16	− 5.1	5.9/17.7	30468
1986 QJ_2	97 08 21.6	22 03.35	−16 37.9	16.7	−0.82	− 2.8	1.6/20.4	25225
1976 YR_1	97 08 21.6	22 03.38	−21 00.7	17.5	−0.98	− 6.0	3.3/18.9	27725
(7439)	97 08 21.7	22 03.57	−19 16.3	17.5	−0.89	− 4.9	2.5/19.6	28835
1981 EQ_{43}	97 08 21.8	22 03.76	−10 25.2	19.9	−0.93	− 5.6	0.6/22.2	24406
1991 VW_3	97 08 21.9	22 04.13	−09 05.0	14.8	−0.83	− 4.5	1.5/22.7	29943
1981 EC_{12}	97 08 21.9	22 04.16	−03 24.0	18.9	−0.94	− 4.3	3.1/24.3	26917
1978 QY_1	97 08 21.9	22 04.27	−08 57.3	16.6	−0.86	− 7.2	1.2/22.8	30468
2678 P-L	97 08 21.9	22 04.48	−13 43.0	19.5	−0.92	− 5.7	0.7/21.4	27328
1265 T-2	97 08 22.0	22 04.64	−09 51.5	18.7	−0.88	− 5.1	0.6/22.6	22695
1989 TF_{14}	97 08 22.0	22 04.69	−17 42.0	16.5	−0.89	− 5.0	2.3/20.3	29611
(7013)	97 08 22.2	22 05.40	−12 41.8	16.3	−0.85	− 4.2	0.4/22.0	27294
1987 DF_6	97 08 22.3	22 05.84	−12 06.4	16.3	−1.00	− 0.8	0.1/22.3	18286
1991 OK_1	97 08 22.4	22 06.14	−05 19.0	16.4	−0.80	− 2.0	1.9/24.2	20930
(7099)	97 08 22.4	22 06.35	−14 39.4	16.9	−0.76	− 4.4	0.9/21.6	27551
1975 UF	97 08 22.5	22 06.67	−13 43.6	16.5	−0.75	− 4.9	0.7/21.9	29652
1993 UL	97 08 22.6	22 06.71	+05 56.7	16.6	−0.67	− 9.4	7.3/29.3	29318
4668 P-L	97 08 22.7	22 07.08	−23 44.8	17.5	−1.04	− 3.3	4.9/19.3	28892
1991 RK_7	97 08 22.7	22 07.09	−06 06.1	16.6	−1.04	− 3.9	2.5/24.2	30470
2016 P-L	97 08 22.7	22 07.26	−02 39.8	16.4	−0.74	− 6.5	3.5/25.7	28891
(7015)	97 08 22.7	22 07.34	−12 55.1	17.8	−0.93	− 7.0	0.5/22.3	27294
(7036)	97 08 22.8	22 07.55	+00 06.3	16.6	−0.77	− 3.2	3.3/26.3	27300
1981 ED_{18}	97 08 22.9	22 08.15	−08 32.3	17.4	−0.79	− 5.0	1.0/23.9	26918
1993 QX_4	97 08 23.0	22 08.18	−07 03.6	16.0	−0.79	−10.3	1.5/24.6	30452
1992 EZ_6	97 08 23.0	22 08.24	−19 05.1	16.6	−0.74	−11.4	3.3/20.2	30450
1991 NE_7	97 08 23.0	22 08.27	−03 55.2	16.5	−0.76	− 3.3	2.5/25.3	28316
3181 T-2	97 08 23.0	22 08.55	−15 57.4	18.3	−0.81	− 5.0	1.5/21.7	30294
1988 EC	97 08 23.1	22 08.95	−21 24.4	15.2	−1.78	+10.9	5.6/22.2	27324
1994 VJ_7	97 08 23.2	22 09.05	−09 33.4	15.6	−0.94	− 3.8	0.9/23.7	30472
1985 UY	97 08 23.2	22 09.08	−04 36.1	16.6	−0.65	− 6.0	1.9/25.5	30446
1987 SO_5	97 08 23.2	22 09.18	−17 15.6	16.4	−0.85	− 2.2	1.8/21.6	22698
1990 QX_1	97 08 23.2	22 09.20	−13 07.5	17.2	−0.99	− 5.4	0.7/22.8	30470
1996 HJ_{20}	97 08 23.2	22 09.33	−14 05.0	17.7	−0.83	− 4.8	1.0/22.5	27720
1990 VD_4	97 08 23.2	22 09.34	−10 04.9	16.0	−0.89	− 6.1	0.6/23.7	27567
3777 T-3	97 08 23.3	22 09.60	−13 12.7	17.9	−0.92	− 5.2	0.8/22.8	25337
1989 SE	97 08 23.3	22 09.62	−22 47.4	16.0	−0.95	+ 1.2	6.0/20.5	29657
1993 VL_3	97 08 23.4	22 09.64	−15 57.9	17.0	−0.80	− 4.9	1.5/22.0	27447
1991 GB_1	97 08 23.4	22 10.00	−50 27.4	16.5	−1.85	+ 6.0	18.9/15.5	26757
3178 T-3	97 08 23.5	22 10.22	−12 27.8	18.5	−0.80	− 4.4	0.4/23.2	25337
3111 T-2	97 08 23.6	22 10.65	−01 31.6	18.3	−0.80	− 8.5	3.2/27.0	17978
1979 QC_1	97 08 23.8	22 11.11	−09 13.7	15.9	−1.17	+ 2.3	0.9/24.2	30468
(6957)	97 08 23.8	22 11.54	−09 25.1	16.6	−0.88	− 5.3	0.6/24.4	27092
1989 UG_3	97 08 23.9	22 11.61	−18 58.5	16.6	−0.89	− 5.9	3.0/21.5	30289
1996 GR_{20}	97 08 23.9	22 11.89	−15 42.8	17.6	−0.77	− 4.4	1.4/22.6	28890
(7005)	97 08 24.0	22 11.87	−04 59.9	16.8	−0.83	− 8.0	2.5/26.0	27292
1996 GE_{20}	97 08 24.2	22 12.84	−19 08.1	16.8	−0.86	− 4.8	3.0/21.8	27560
1996 CJ_1	97 08 24.2	22 12.89	−17 48.5	18.7	−1.02	− 5.3	2.5/22.3	27123
1996 HW_{20}	97 08 24.2	22 12.99	−11 21.5	16.9	−0.72	− 5.0	0.1/24.2	27938
1981 ES_{10}	97 08 24.3	22 13.06	−05 27.4	19.5	−0.96	− 4.4	2.2/25.9	22270
1994 XB_5	97 08 24.4	22 13.32	+02 45.2	20.1	−0.87	− 5.4	4.5/28.6	25084
1981 EG_{22}	97 08 24.4	22 13.33	−16 52.7	18.7	−1.08	− 1.6	2.2/23.0	26919
1981 EU_{25}	97 08 24.4	22 13.48	−07 22.0	16.6	−0.75	− 8.6	1.7/25.7	26919
(7029)	97 08 24.4	22 13.54	−07 36.6	15.9	−0.67	− 6.8	1.0/25.6	27298
1991 FG	97 08 24.4	22 13.61	+04 15.8	18.8	−0.75	− 5.7	3.9/29.5	27934
(6915)	97 08 24.6	22 14.10	−26 40.7	16.4	−0.89	− 6.6	5.4/19.5	26893
1980 PF	97 08 24.6	22 14.42	−04 21.0	15.5	−1.06	+ 1.6	3.4/26.1	30468
(6964)	97 08 24.6	22 14.43	−03 27.3	15.6	−0.81	− 7.6	3.4/27.0	27094
(6939)	97 08 24.6	22 14.47	−33 42.3	17.5	−1.07	− 1.6	8.2/18.4	27088
1984 SB_1	97 08 24.7	22 14.48	−16 11.2	15.6	−1.03	+ 0.9	2.8/23.5	30468
2193 T-3	97 08 25.0	22 15.95	−13 50.3	18.1	−0.95	− 4.1	1.1/24.2	24910

1992 CJ_3	97 08 25.1	22 15.91	−07 50.6	17.4	−0.95	− 7.5	1.2/26.0	27567
1993 GN_1	97 08 25.1	22 16.20	−03 28.8	18.0	−1.00	− 5.3	2.8/27.3	28887
5137 T-2	97 08 25.2	22 16.28	+09 29.1	19.4	−0.82	− 7.0	6.8/01.3	20833
(7344)	97 08 25.3	22 16.90	−01 58.3	16.9	−0.78	− 9.1	2.8/28.4	28574
1981 EA_{43}	97 08 25.3	22 16.94	−10 34.0	18.0	−0.97	− 4.5	0.0/25.4	30446
1988 BJ	97 08 25.4	22 17.01	+11 29.8	17.4	−1.57	+ 6.0	10.6/29.0	22079
4735 P-L	97 08 25.6	22 17.79	−15 57.8	18.1	−1.04	− 5.4	2.4/24.1	29948
1992 BM	97 08 25.6	22 18.17	−13 55.3	16.8	−1.10	− 2.9	1.4/24.8	28615
1975 SK	97 08 25.7	22 18.13	−14 33.4	16.7	−0.77	− 4.5	1.3/24.5	29652
1992 CD_1	97 08 25.7	22 18.40	−07 39.6	16.9	−0.92	− 6.2	1.0/26.7	30470
1990 TK_{15}	97 08 26.0	22 19.17	−12 42.2	15.1	−1.04	− 1.6	1.0/25.4	30448
1981 ED_{11}	97 08 26.0	22 19.27	−07 52.2	18.6	−1.04	− 0.8	1.2/27.0	22270
1992 SS_{26}	97 08 26.0	22 19.29	−17 27.2	14.7	−0.91	− 0.5	2.4/24.2	29300
1992 OM_7	97 08 26.0	22 19.35	−06 45.7	16.5	−0.84	− 3.8	1.3/27.1	30471
1992 FV_1	97 08 26.0	22 19.39	−24 41.3	16.3	−0.97	− 3.6	5.0/22.0	29660
1991 EB	97 08 26.2	22 19.90	−05 46.3	16.9	−0.86	− 4.7	1.5/27.6	25440
1981 VK	97 08 26.2	22 20.02	−11 24.3	15.6	−0.76	− 4.1	0.4/25.9	27931
1992 EH_4	97 08 26.3	22 20.60	−13 09.1	17.8	−0.93	− 6.3	1.0/25.5	27935
4302 T-1	97 08 26.4	22 20.76	−19 22.8	18.2	−0.92	− 4.5	3.1/23.7	29668
1990 EZ_5	97 08 26.4	22 21.02	−10 04.0	17.5	−0.77	− 4.4	0.1/26.6	30470
1994 WM_1	97 08 26.5	22 21.05	−37 33.0	17.3	−1.07	− 4.3	9.6/17.4	27559
1144 T-3	97 08 26.6	22 21.41	−11 10.2	17.3	−0.86	− 2.0	0.3/26.4	22088
(7018)	97 08 26.6	22 21.57	−14 25.2	16.2	−0.92	− 7.5	1.7/25.3	27295
1987 RN_6	97 08 26.6	22 21.72	−19 28.3	16.5	−0.79	− 4.9	3.0/23.7	30288
(6925)	97 08 26.6	22 21.79	+08 49.5	16.0	−0.72	− 7.5	6.6/02.7	26895
1981 EG_{15}	97 08 26.6	22 21.80	−05 51.7	17.6	−0.99	− 5.6	2.1/28.0	27725
1993 TL_{32}	97 08 26.7	22 21.96	−13 10.1	17.0	−0.83	− 5.7	1.1/25.8	27730
2078 T-3	97 08 26.7	22 22.05	−12 38.0	16.5	−0.97	− 2.7	0.9/26.1	30474
1989 ST_3	97 08 26.8	22 22.13	−11 44.0	18.9	−0.85	− 6.0	0.5/26.3	30447
1992 CF_1	97 08 26.8	22 22.28	−15 04.1	16.0	−1.01	− 2.0	2.1/25.6	29135
1996 BS_8	97 08 26.8	22 22.48	−18 55.3	17.4	−1.01	− 3.2	4.5/24.4	26928
1990 TX	97 08 27.1	22 23.50	−20 30.0	15.3	−0.83	− 6.1	5.3/23.6	29658
1989 TX_2	97 08 27.2	22 23.75	+02 28.9	17.2	−0.77	− 9.2	4.2/31.7	28884
(7100)	97 08 27.4	22 24.39	−08 21.3	17.2	−0.79	− 5.0	0.6/27.9	27552
1991 YY	97 08 27.4	22 24.42	−04 29.4	17.4	−0.97	− 6.7	2.3/29.1	27308
1982 EE	97 08 27.5	22 24.70	−20 22.2	16.4	−0.83	− 6.7	3.4/24.0	30468
(7031)	97 08 27.5	22 24.74	−15 06.9	17.0	−1.05	− 3.7	2.0/26.1	27299
1981 XM_2	97 08 27.5	22 25.01	+08 41.9	16.6	−0.88	− 3.3	6.7/02.2	25225
1977 EA_6	97 08 27.8	22 26.11	−06 10.8	17.2	−0.97	− 3.6	1.5/28.9	22823
1988 RF_{13}	97 08 27.9	22 26.36	−37 43.5	17.4	−1.12	+ 1.3	11.0/20.5	28613
6065 P-L	97 08 28.0	22 26.64	−11 47.5	16.5	−0.94	− 2.4	0.9/27.5	28620
1990 SW_4	97 08 28.0	22 26.86	−10 18.9	16.1	−0.86	− 8.0	0.3/27.9	27728
(7353)	97 08 28.0	22 26.93	+00 29.2	14.3	−1.10	+ 3.6	4.7/30.2	28576
1978 RR_8	97 08 28.4	22 28.21	−06 49.0	17.4	−0.85	− 8.2	0.9/29.4	27930
3081 P-L	97 08 28.5	22 28.31	+06 42.8	16.1	−0.72	− 5.2	5.8/03.0	25652
1996 HO	97 08 28.5	22 28.46	−17 05.3	18.3	−0.89	− 8.6	2.9/26.0	30458
1992 BM_2	97 08 28.5	22 28.57	−03 03.2	16.4	−0.93	− 6.6	2.7/30.6	28316
1993 YD	97 08 28.5	22 28.67	−27 24.9	16.3	−0.75	− 5.8	5.1/22.4	27568
1989 SJ_2	97 08 28.6	22 28.71	−02 35.8	16.6	−0.72	−12.1	2.7/31.3	30289
9002 P-L	97 08 28.7	22 29.06	+06 08.2	17.8	−0.79	− 8.3	5.2/03.3	28620
1991 BE	97 08 28.7	22 29.27	+24 19.6	17.2	−1.05	+ 0.5	10.2/07.7	30470
1993 SS_4	97 08 28.7	22 29.36	−10 48.0	18.2	−0.91	− 4.3	0.6/28.4	30471
2312 T-1	97 08 28.7	22 29.46	−13 14.9	17.3	−0.82	− 4.3	1.3/27.6	25085
1981 EO_{12}	97 08 28.9	22 29.82	−00 03.0	20.2	−0.89	− 6.5	3.5/31.9	26917
1992 OV_6	97 08 28.9	22 30.02	−07 43.7	17.3	−0.79	− 5.0	0.5/29.5	27455
1992 GD_3	97 08 28.9	22 30.13	+02 18.5	17.6	−0.81	− 7.0	4.4/01.9	27309
4258 T-2	97 08 29.0	22 30.55	−12 12.3	18.4	−0.86	− 6.1	1.1/28.2	27323
1987 VR	97 08 29.1	22 30.64	+02 18.8	16.8	−0.71	− 5.6	3.5/02.0	30469
1994 QA	97 08 29.1	22 30.95	−50 19.3	18.2	−1.32	− 2.4	13.8/15.7	25083
1991 XK	97 08 29.2	22 31.05	−00 35.5	17.1	−0.96	− 5.9	3.3/01.0	27325
1991 VP_2	97 08 29.2	22 31.08	−09 55.8	17.3	−1.01	− 6.0	0.3/29.1	27325
1981 EL_{25}	97 08 29.2	22 31.09	−03 31.7	19.1	−0.87	− 7.5	2.2/31.1	27565
1996 HY_{17}	97 08 29.3	22 31.39	−09 55.1	16.8	−0.72	− 5.5	0.2/29.1	30084
1988 RQ_2	97 08 29.4	22 31.67	−01 09.6	16.5	−0.90	− 2.1	2.6/31.7	29133
1990 XF	97 08 29.4	22 31.80	+03 33.9	16.4	−0.91	− 3.0	3.9/02.2	25080
1982 FJ_3	97 08 29.4	22 31.98	−10 39.1	17.7	−1.00	− 5.0	0.6/29.1	27553
1989 GQ_1	97 08 29.4	22 32.01	−04 29.6	16.6	−0.83	− 4.9	2.3/31.0	16235
1995 EC	97 08 29.5	22 32.16	−12 02.8	17.3	−0.74	− 4.2	0.8/28.7	30472
1991 CC_3	97 08 29.6	22 32.42	−06 15.5	17.3	−0.80	− 6.2	1.0/30.6	28885
1979 MK_6	97 08 29.6	22 32.67	−08 37.5	17.5	−0.81	− 6.0	0.2/29.9	18804
1995 FY_2	97 08 29.7	22 32.71	−17 54.0	18.4	−0.93	− 2.6	2.9/27.2	30277
1977 RD_2	97 08 29.7	22 32.78	−14 39.5	16.2	−0.82	− 4.3	2.0/28.0	27323
1994 XY	97 08 29.7	22 32.80	−23 03.6	16.0	−0.90	− 7.2	6.4/25.0	30472
1992 EM_6	97 08 29.7	22 32.90	−15 20.0	19.2	−0.95	− 5.4	2.1/27.9	27308
1990 RH_2	97 08 29.9	22 33.56	−10 56.9	17.1	−1.05	− 1.6	0.8/29.4	25649
1991 OL_1	97 08 29.9	22 33.69	−12 20.3	15.8	−0.72	− 5.2	1.2/28.9	30470
1991 DY	97 08 29.9	22 33.70	−03 12.1	17.2	−0.79	− 6.5	1.8/31.9	27455
1986 AA_2	97 08 30.0	22 33.85	−15 11.2	16.7	−0.82	− 6.3	2.1/28.0	27324
(6943)	97 08 30.2	22 34.63	−01 42.9	16.8	−0.98	− 6.4	2.9/01.5	27089
1978 TU_8	97 08 30.2	22 34.86	−06 41.0	16.1	−0.78	− 5.0	0.8/31.0	27930
1344 T-2	97 08 30.2	22 34.88	−10 09.9	17.9	−0.78	− 5.3	0.4/29.9	30474
3241 T-3	97 08 30.3	22 34.91	−13 45.3	15.7	−0.92	− 4.3	2.4/28.9	24585
1995 DA	97 08 30.3	22 34.98	−22 55.7	17.1	−0.92	− 3.9	5.0/26.0	29138
1990 SW	97 08 30.3	22 35.16	+03 33.9	15.9	−0.82	− 8.9	5.3/03.8	30470
1992 JC_1	97 08 30.3	22 35.20	−24 11.6	18.6	−0.98	− 4.9	6.0/25.5	27455
1989 AB_3	97 08 30.4	22 35.54	−20 48.7	16.1	−0.76	− 6.8	3.7/26.3	29656
1996 DN_2	97 08 30.6	22 36.08	−15 05.0	17.2	−0.99	− 5.1	2.3/28.8	29630
1996 CY_7	97 08 30.7	22 36.32	−12 52.1	18.8	−0.95	− 6.1	1.5/29.4	27112
1996 CG_8	97 08 30.7	22 36.59	−10 10.3	18.4	−0.95	− 7.3	0.5/30.3	27328
1996 BD_1	97 08 30.8	22 36.76	+16 27.9	15.7	−1.27	+ 1.1	9.3/06.5	29666
1978 VH_{10}	97 08 30.9	22 37.39	−13 43.5	18.2	−0.79	− 5.0	1.7/29.4	30287
(7620)	97 08 30.9	22 37.49	−07 53.6	18.2	−0.93	− 5.1	0.3/31.2	29605
1981 EL_{36}	97 08 31.0	22 37.43	−04 31.3	18.3	−0.92	− 4.8	1.8/01.3	22697
1994 XP_4	97 08 31.0	22 37.43	−09 18.4	19.1	−0.88	− 4.2	0.2/30.8	24915
2159 T-2	97 08 31.0	22 37.84	−10 11.5	18.2	−0.88	− 5.2	0.6/30.6	27322
1981 EB_{24}	97 08 31.3	22 38.63	−12 49.0	18.4	−0.85	− 3.7	1.4/30.0	27726
1993 QR_4	97 08 31.3	22 38.68	−12 04.7	17.0	−0.91	− 4.2	1.2/30.3	29662
1981 UT_7	97 08 31.4	22 39.29	−09 36.9	15.4	−0.72	− 5.1	0.4/31.1	29654
1984 YL_1	97 08 31.6	22 39.85	−19 51.5	17.6	−1.03	− 5.6	4.3/28.1	28084
2127 T-1	97 08 31.7	22 39.95	−11 03.5	16.2	−0.93	− 6.4	1.3/30.9	21122
(7732)	97 08 31.8	22 40.46	−07 03.0	16.4	−0.79	− 4.5	0.5/01.3	30253
1995 BZ_1	97 08 31.8	22 40.65	−17 34.0	17.5	−0.93	− 6.6	3.9/28.9	28087

(6962)	97 08 31.8	22 40.75	+04 48.8	16.5	−0.94	− 2.3	6.4/04.7	27093
1981 EO_{22}	97 09 01.0	22 41.20	−06 59.9	19.5	−0.93	− 5.4	0.5/01.4	27118
1990 UH_{1}	97 09 01.0	22 41.26	−26 48.9	16.1	−0.91	− 8.3	8.3/25.1	27120
1992 SQ_{24}	97 09 01.0	22 41.38	+02 36.5	17.5	−0.71	− 6.3	3.2/04.9	25428
1990 QB_{9}	97 09 01.0	22 41.45	−11 20.2	17.6	−0.79	−10.7	1.4/31.0	23859
1981 DC_{3}	97 09 01.1	22 41.43	+01 04.2	19.5	−0.93	− 4.9	3.6/04.0	26914
1981 DQ_{1}	97 09 01.1	22 41.43	+02 14.8	18.6	−0.86	− 3.1	3.4/04.2	26914
(6947)	97 09 01.1	22 41.46	−02 38.8	17.7	−0.89	− 6.5	2.1/02.9	29586
(6922)	97 09 01.1	22 41.54	−12 09.9	16.7	−0.93	− 7.6	1.5/30.9	26895
1994 AC_{3}	97 09 01.2	22 41.87	−08 56.9	17.7	−0.72	− 4.2	0.2/32.0	23242
(7016)	97 09 01.2	22 42.11	−00 51.0	17.2	−0.95	− 6.1	2.6/03.6	27295
3437 T-3	97 09 01.5	22 43.00	−11 04.2	17.0	−0.91	− 4.0	1.2/31.7	29669
1994 XN_{1}	97 09 01.6	22 43.36	−15 30.7	19.3	−0.97	− 4.8	2.7/30.4	27314
4226 P-L	97 09 01.6	22 43.54	−05 13.4	18.9	−0.92	− 5.4	1.0/02.6	16439
1981 EO_{18}	97 09 01.8	22 44.37	−07 22.0	16.4	−0.96	− 4.5	0.3/02.1	24406
1981 EF_{33}	97 09 02.0	22 44.72	+01 15.0	20.7	−0.88	− 7.6	3.4/05.1	26921
1981 EQ_{46}	97 09 02.0	22 44.75	−07 18.0	17.5	−0.78	− 6.6	0.2/02.2	26923
1975 SB_{1}	97 09 02.0	22 44.86	−20 25.9	17.7	−0.81	− 2.9	3.6/29.2	25972
1993 OG_{9}	97 09 02.0	22 45.02	−18 12.5	17.3	−0.90	−10.0	4.0/29.4	24913
1995 DZ_{1}	97 09 02.0	22 45.03	−19 51.0	17.0	−0.78	− 4.5	3.9/29.2	27449
1982 FG_{3}	97 09 02.4	22 46.52	−05 38.7	15.7	−0.99	− 5.0	0.9/03.1	30468
4611 P-L	97 09 02.5	22 46.73	−19 30.3	17.7	−1.08	− 1.9	4.1/30.4	22086
1990 SN_{16}	97 09 02.6	22 46.90	−15 09.6	16.6	−0.93	− 2.7	3.8/31.4	25062
(7071)	97 09 02.7	22 47.60	−15 56.3	17.5	−0.71	− 6.3	2.2/30.9	29587
1990 UW_{3}	97 09 02.8	22 47.61	−10 30.0	18.7	−0.91	− 7.0	1.1/01.9	22431
1992 DL_{4}	97 09 03.0	22 48.44	−15 07.2	16.6	−1.06	− 0.9	3.7/01.0	20342
4820 P-L	97 09 03.1	22 48.69	−18 05.0	18.4	−0.84	− 2.6	3.2/30.9	21121
1991 BD_{1}	97 09 03.1	22 48.80	−15 08.7	17.3	−0.84	− 6.5	2.5/31.6	29658
(6895)	97 09 03.2	22 49.28	−06 04.5	16.5	−0.86	− 4.9	0.5/03.7	26888
(7053)	97 09 03.3	22 49.59	−08 57.6	16.6	−0.93	− 7.4	0.6/02.9	27436
1992 OK_{2}	97 09 03.4	22 50.02	+07 25.6	17.0	−1.00	+ 2.5	6.6/07.2	25066
1992 DA_{6}	97 09 03.4	22 50.15	−08 30.5	17.4	−0.90	− 6.1	0.4/03.1	27120
1994 BD_{4}	97 09 03.7	22 51.20	−07 57.0	17.9	−0.70	− 5.8	0.2/03.6	23343
1981 EW_{27}	97 09 03.8	22 51.18	−02 43.8	18.0	−0.78	− 7.6	1.6/05.4	26920
1996 DZ	97 09 03.8	22 51.35	−10 51.3	16.5	−0.93	− 5.8	1.3/02.7	29666
1987 SB_{3}	97 09 03.8	22 51.53	−19 04.2	16.4	−0.97	− 1.0	6.2/31.6	28883
1991 PO_{2}	97 09 03.9	22 51.80	−10 39.8	17.8	−0.74	− 4.6	1.0/02.8	30470
1993 RO_{7}	97 09 04.0	22 52.23	−10 20.8	17.7	−0.92	− 4.3	1.1/03.1	25216
1994 WD_{4}	97 09 04.3	22 53.16	−07 00.6	15.7	−0.93	− 8.2	0.0/04.4	27456
1980 FH_{1}	97 09 04.3	22 53.20	−08 40.8	17.4	−0.86	− 2.2	0.5/03.9	25225
1976 UR_{15}	97 09 04.4	22 53.64	−23 48.8	17.5	−0.95	− 3.2	6.1/30.3	30468
1988 PG_{1}	97 09 04.4	22 53.74	+05 03.5	16.0	−0.99	+ 1.5	5.3/07.5	25537
1989 TM_{1}	97 09 04.5	22 53.84	−19 23.2	16.7	−1.02	− 2.2	4.7/31.9	30448
1994 WM	97 09 04.6	22 54.11	−21 40.4	17.6	−0.93	− 4.3	4.7/31.0	29138
2144 T-2	97 09 04.6	22 54.24	−09 18.9	17.2	−0.94	− 3.3	0.9/04.0	27732
1992 WA_{4}	97 09 04.6	22 54.43	−17 46.4	16.3	−0.76	− 4.4	3.6/01.1	28616
1990 SK_{6}	97 09 04.6	22 54.47	−17 52.6	17.1	−1.03	− 3.2	4.2/01.6	27119
1981 EJ_{25}	97 09 04.8	22 54.81	−05 34.8	20.1	−0.91	− 6.6	0.5/05.2	22697
4224 T-2	97 09 04.8	22 54.89	−09 44.2	19.3	−0.77	− 8.7	1.4/03.8	22414
1996 HR_{24}	97 09 04.8	22 55.12	−14 36.1	16.5	−0.74	− 4.7	2.7/02.3	27451
(7313)	97 09 05.0	22 55.53	−02 22.2	18.2	−0.86	− 5.6	1.6/06.5	28292
2173 T-3	97 09 05.3	22 57.00	+06 17.5	16.6	−0.84	− 8.7	5.8/10.0	28320
1983 VQ_{1}	97 09 05.3	22 57.08	−60 09.4	17.5	−1.71	+ 1.0	22.0/17.0	22697
1990 RA_{7}	97 09 05.4	22 56.97	−06 16.9	17.0	−0.90	− 9.9	9.4/26.0	27444
2190 T-1	97 09 05.4	22 57.03	−13 28.9	18.0	−0.92	− 4.4	2.4/03.3	22087
1975 VB_{1}	97 09 05.4	22 57.20	−16 53.8	16.3	−0.75	− 4.8	3.4/02.0	21250
1994 YY_{1}	97 09 05.6	22 58.06	−16 37.9	17.0	−0.87	− 5.5	3.0/02.4	24753
(7028)	97 09 05.7	22 58.31	−10 26.0	16.7	−0.78	− 5.6	1.3/04.5	29587
1989 LT	97 09 05.8	22 58.50	−07 31.6	16.7	−0.95	− 5.0	0.4/05.5	29657
1217 T-1	97 09 05.9	22 58.93	−05 53.7	16.4	−0.91	− 4.4	9.4/17.0	28892
1994 UH	97 09 05.9	22 59.13	−09 37.3	16.4	−0.95	− 6.8	1.3/05.0	29663
1987 WT_{1}	97 09 05.9	22 59.16	−12 55.4	17.9	−0.71	− 4.7	1.7/03.8	29655
(7800)	97 09 06.0	22 59.12	−05 23.8	15.7	−1.02	− 3.9	0.5/06.3	30270
1989 GP_{4}	97 09 06.2	22 59.93	+01 10.4	17.2	−0.87	− 8.3	3.0/08.8	30469
6064 P-L	97 09 06.2	23 00.06	+01 44.1	16.7	−0.76	− 7.4	2.5/09.1	27724
1990 SG_{8}	97 09 06.2	23 00.07	−12 10.7	16.8	−0.96	− 6.3	2.1/04.4	27454
1981 EX_{31}	97 09 06.2	23 00.21	−04 10.3	17.0	−0.74	− 7.3	0.8/07.1	26921
1996 EH	97 09 06.3	23 00.39	+07 38.8	16.8	−0.92	− 6.3	5.2/11.1	27123
1995 DQ_{2}	97 09 06.3	23 00.46	−31 11.9	20.4	−1.24	+ 1.0	7.1/30.8	30292
1982 DC_{2}	97 09 06.6	23 01.62	−06 12.4	18.6	−0.92	− 7.7	0.0/06.7	30468
1992 EA_{4}	97 09 06.7	23 01.66	−09 56.1	18.3	−0.90	− 6.4	1.3/05.5	27913
1995 CR_{1}	97 09 06.8	23 02.07	+16 08.7	18.8	−0.87	− 9.9	7.5/15.0	25431
6299 P-L	97 09 06.8	23 02.13	+04 12.3	18.8	−0.74	− 7.8	3.1/10.5	22087
1989 SX	97 09 06.8	23 02.21	−17 14.0	15.6	−0.93	− 1.1	5.5/03.6	30469
(7050)	97 09 06.9	23 02.79	−14 50.0	16.4	−0.92	− 2.4	3.2/04.5	29076
3300 T-1	97 09 07.0	23 02.76	−04 26.5	15.9	−0.93	− 3.3	0.9/07.5	22701
1984 YY_{1}	97 09 07.0	23 02.79	−08 54.2	17.1	−0.98	− 4.2	1.3/06.2	22698
1975 LY	97 09 07.0	23 03.01	+11 10.9	16.9	−0.97	− 1.6	5.9/12.1	25060
1992 DC_{11}	97 09 07.1	23 03.16	−07 18.1	18.3	−0.93	− 7.3	0.5/06.7	30471
1981 EE_{34}	97 09 07.2	23 03.47	−04 16.7	21.0	−0.93	− 5.2	0.6/07.8	26921
2026 T-2	97 09 07.3	23 03.98	+00 54.9	18.5	−0.89	− 8.1	2.7/09.7	27927
1976 GD_{2}	97 09 07.4	23 04.25	+03 19.5	16.4	−0.90	− 9.2	3.5/11.0	29939
1992 JQ	97 09 07.4	23 04.39	+00 50.3	17.0	−0.78	− 9.7	2.3/09.9	29660
(6978)	97 09 07.5	23 04.63	−04 25.2	15.6	−0.99	− 1.9	0.6/07.9	27097
1996 GA_{18}	97 09 07.8	23 05.87	+01 48.2	18.3	−0.82	− 7.2	2.5/10.5	29140
1980 SM	97 09 07.8	23 06.00	−04 06.3	15.5	−0.99	+ 0.5	0.8/08.3	30468
1989 GF_{1}	97 09 07.9	23 05.97	−04 55.8	16.8	−1.01	− 4.6	0.3/08.2	28613
1993 HW_{1}	97 09 07.9	23 06.10	−30 23.1	15.8	−1.06	− 3.2	10.4/31.4	29662
1990 VT_{1}	97 09 08.2	23 07.28	−03 13.5	15.6	−0.83	− 6.5	1.1/09.1	28614
7639 P-L	97 09 08.2	23 07.48	−12 19.9	19.2	−0.85	− 5.5	2.0/06.1	27457
1993 SU_{2}	97 09 08.3	23 07.47	+15 28.0	15.8	−0.98	− 0.7	8.2/14.4	30471
(7207)	97 09 08.3	23 07.56	−10 42.0	17.6	−1.08	− 0.9	1.9/07.0	27906
1991 NE_{1}	97 09 08.3	23 07.77	+03 53.9	16.3	−0.78	− 2.8	2.9/11.4	28316
1996 HM_{11}	97 09 08.4	23 07.98	−02 41.1	16.9	−0.80	− 6.8	1.1/09.4	27561
1987 SK_{12}	97 09 08.4	23 08.16	−08 22.9	16.9	−0.98	− 6.1	1.1/07.6	27324
1990 OV	97 09 08.5	23 08.20	+03 12.2	16.6	−0.85	− 9.1	3.8/11.7	26925
1980 PB_{2}	97 09 08.5	23 08.39	+01 10.9	16.0	−0.67	− 7.6	2.1/11.0	29653
4100 P-L	97 09 08.6	23 08.75	−08 17.1	18.0	−1.02	− 1.5	1.0/07.9	25341
1994 TD_{2}	97 09 08.6	23 08.81	−17 45.5	15.2	−0.89	− 3.0	6.5/04.9	24763
1988 VB	97 09 08.7	23 08.89	−21 05.0	15.2	−0.90	− 1.9	6.6/03.8	25226
4658 P-L	97 09 08.7	23 08.97	−10 53.3	16.6	−0.84	− 3.4	2.2/07.1	28620
1996 CV_{8}	97 09 08.7	23 08.99	−12 47.0	16.2	−1.01	− 4.1	3.2/06.6	30473

1981 EP_{31}	97 09 08.8	23 09.50	−10 07.4	17.6	−0.91	− 2.4	2.3/07.5	26921
1990 TV_{13}	97 09 09.0	23 09.98	−17 35.6	15.1	−1.05	− 1.0	5.6/05.6	30448
1981 EU_{16}	97 09 09.0	23 10.03	−02 19.1	20.0	−1.00	− 4.3	1.1/09.9	26918
(7054)	97 09 09.1	23 10.44	−18 33.1	16.9	−1.04	− 4.8	5.5/05.0	27437
1996 HF_{11}	97 09 09.2	23 10.91	−09 35.5	18.3	−0.79	− 4.8	1.4/07.8	27569
1182 T-3	97 09 09.3	23 11.05	−01 11.7	18.1	−0.84	− 2.6	1.3/10.5	22702
1991 GZ_1	97 09 09.3	23 11.16	−50 44.1	17.4	−1.76	+ 3.9	19.9/26.5	27120
1995 DK	97 09 09.3	23 11.30	−06 36.5	17.3	−0.73	− 7.2	0.4/08.9	29664
1996 HX	97 09 09.5	23 12.06	−08 20.2	17.6	−0.84	− 2.3	1.2/08.6	30278
2620 P-L	97 09 09.7	23 12.54	−06 58.2	17.7	−0.87	− 5.0	0.6/09.1	27938
1995 DE_2	97 09 09.9	23 13.23	−02 20.8	16.0	−0.88	− 3.9	1.0/10.7	30093
1988 XK	97 09 10.1	23 14.15	+04 57.3	17.9	−0.75	− 5.2	2.7/13.5	22272
1981 EE_{48}	97 09 10.1	23 14.25	+00 36.7	21.0	−0.73	− 7.6	1.6/12.2	26923
1981 EZ_{21}	97 09 10.2	23 14.37	−03 21.7	18.2	−0.78	− 5.4	0.5/10.7	26919
1986 PW_4	97 09 10.2	23 14.56	−04 04.7	15.8	−0.74	− 5.2	0.3/10.5	29655
1981 EU_{24}	97 09 10.3	23 14.66	−03 03.2	17.2	−0.84	− 3.9	0.7/10.9	26919
(7194)	97 09 10.3	23 14.81	+06 19.7	14.8	−0.59	−15.2	4.7/15.2	27903
1995 FV_{14}	97 09 10.3	23 15.02	−15 06.5	17.5	−0.77	− 3.2	2.7/07.1	25539
1981 EY_{42}	97 09 10.4	23 15.32	−04 00.9	20.1	−0.91	− 6.0	9.2/31.0	21968
1996 JK_{16}	97 09 10.4	23 15.34	−10 37.1	16.5	−0.76	− 8.4	2.1/08.4	27562
(7019)	97 09 10.4	23 15.37	−22 32.3	16.9	−0.94	− 6.9	6.1/04.3	27295
1992 SJ_2	97 09 10.5	23 15.32	−04 41.1	16.6	−0.70	− 7.6	0.0/10.5	25427
1983 WJ	97 09 10.5	23 15.45	−09 57.1	16.3	−0.79	− 5.3	1.7/08.8	27931
1993 KQ	97 09 10.5	23 15.45	−20 34.2	16.8	−0.99	− 6.3	5.9/05.4	26927
1990 UC	97 09 10.5	23 15.57	−00 11.3	15.3	−0.65	−12.1	2.2/12.4	30470
1996 HJ_{15}	97 09 10.6	23 15.76	−05 42.2	17.6	−0.87	− 5.9	0.3/10.3	27731
(7811)	97 09 10.6	23 15.93	−19 52.9	16.8	−0.80	− 7.5	4.7/05.2	30434
4047 P-L	97 09 10.7	23 16.39	−04 10.4	17.5	−0.83	− 4.4	8.4/31.0	30474
1174 T-1	97 09 10.8	23 16.55	−04 07.7	17.3	−0.72	− 4.5	7.1/22.0	23986
1981 ED_{30}	97 09 10.8	23 16.55	+09 47.5	19.2	−0.67	− 3.8	3.7/15.8	26920
1981 EQ_{41}	97 09 10.9	23 16.80	−03 06.4	19.2	−0.86	− 3.3	0.6/11.4	26922
4865 P-L	97 09 10.9	23 16.85	−07 51.6	17.0	−1.03	− 5.5	1.4/09.9	23993
1995 EF	97 09 10.9	23 16.89	−12 58.4	17.9	−0.77	− 6.3	2.4/08.1	25074
1995 AO_1	97 09 11.1	23 17.68	+05 16.8	19.5	−0.76	− 6.2	2.6/14.6	27731
1992 FK_1	97 09 11.1	23 17.84	+32 08.3	18.8	−1.09	− 2.1	11.8/23.5	21580
1989 GR_4	97 09 11.1	23 17.86	−02 14.6	17.9	−0.92	− 7.7	0.9/11.9	27454
1990 QK_3	97 09 11.2	23 17.86	−08 17.1	16.5	−0.82	− 9.7	1.6/09.8	25649
1169 T-2	97 09 11.2	23 18.19	−03 55.1	18.4	−0.79	− 4.5	0.2/11.5	22701
1996 GR_{17}	97 09 11.2	23 18.22	−13 19.4	16.1	−0.99	− 2.2	4.0/08.7	28862
1992 WC_2	97 09 11.4	23 18.81	−05 04.2	16.5	−0.75	− 4.8	0.2/11.2	29661
(7440)	97 09 11.4	23 18.95	−10 40.9	17.7	−0.81	− 8.9	2.1/09.2	28836
1981 GO_1	97 09 11.5	23 19.08	−06 11.6	18.5	−0.94	− 5.1	0.6/11.0	30468
(7614)	97 09 11.5	23 19.12	−10 52.3	16.4	−0.94	− 5.6	2.5/09.5	29604
1958 TL_1	97 09 11.6	23 19.30	+12 05.8	15.5	−0.61	−10.3	5.6/18.4	27565
1981 EF_7	97 09 11.7	23 19.68	+05 46.6	18.5	−0.90	− 6.2	3.9/15.1	26916
1993 RC_2	97 09 11.8	23 20.32	−12 36.5	15.9	−1.19	+ 3.0	4.0/10.0	27936
1994 YL_1	97 09 12.0	23 20.73	−09 15.3	16.1	−0.94	− 5.2	2.2/10.4	24753
1990 KX	97 09 12.1	23 21.12	−14 19.2	15.7	−0.95	− 6.8	4.5/08.8	26925
(6946)	97 09 12.1	23 21.17	−08 18.5	15.6	−0.84	− 8.7	1.9/10.7	27090
1990 TY_7	97 09 12.1	23 21.30	−07 23.1	18.4	−0.94	− 5.0	1.1/11.1	24564
(7119)	97 09 12.1	23 21.39	+20 52.0	16.6	−0.55	− 1.8	4.7/21.3	27700
(7553)	97 09 12.2	23 21.45	−09 46.6	18.0	−0.92	− 5.6	1.9/10.4	29590
3252 T-1	97 09 12.2	23 21.65	+00 51.2	17.7	−0.91	− 6.0	2.1/13.9	22701
3813 T-3	97 09 12.3	23 21.87	−06 04.8	18.6	−0.86	− 4.4	0.9/11.7	24238
1981 EZ_9	97 09 12.3	23 22.02	+05 42.6	17.8	−0.68	−10.7	3.4/16.2	26916
1993 GD_1	97 09 12.4	23 22.37	−16 35.7	16.3	−1.00	− 4.6	5.5/08.6	24763
(7032)	97 09 12.4	23 22.58	+02 11.2	16.0	−0.94	− 6.2	2.5/14.5	27299
1994 UY_1	97 09 12.5	23 22.88	+00 09.9	16.7	−0.94	− 7.7	1.8/14.0	27731
1990 QW	97 09 12.6	23 23.16	−03 23.3	15.4	−1.06	− 0.1	0.3/12.8	30448
1993 FL_6	97 09 12.6	23 23.18	−07 54.1	16.7	−0.99	− 6.6	1.7/11.4	29944
1993 TS_{36}	97 09 12.6	23 23.22	−30 10.7	16.8	−1.02	− 3.6	10.0/03.3	30452
1994 VD_1	97 09 12.6	23 23.23	−18 18.2	17.5	−1.01	− 5.0	5.6/08.1	27568
1989 SS_1	97 09 12.8	23 23.89	−12 02.0	17.1	−0.80	− 3.2	4.0/10.3	30289
1990 DA_3	97 09 12.9	23 23.99	−08 05.9	16.7	−0.78	− 5.6	1.4/11.5	30289
1989 SN_4	97 09 12.9	23 24.37	−05 24.2	17.7	−0.82	− 6.6	0.5/12.5	30289
1979 US	97 09 13.0	23 24.45	−06 00.4	16.5	−0.86	− 3.8	0.8/12.4	30468
1982 SV	97 09 13.0	23 24.61	+10 22.3	16.5	−0.74	−19.1	6.0/19.1	8393
3230 T-2	97 09 13.0	23 24.64	−08 54.2	18.5	−0.70	− 4.8	1.4/11.3	25337
1981 DH_2	97 09 13.0	23 24.68	+13 13.9	18.8	−0.77	− 7.0	5.7/19.3	26914
1987 UP_2	97 09 13.1	23 24.82	+04 35.9	14.4	−0.77	− 5.5	4.5/16.0	25537
6071 P-L	97 09 13.2	23 25.05	+02 18.5	17.7	−0.75	− 7.2	1.8/15.4	30474
1996 JK_1	97 09 13.2	23 25.15	+13 44.5	17.5	−0.80	− 8.0	6.2/19.8	27569
1996 EK_1	97 09 13.2	23 25.29	−00 55.7	17.4	−0.94	− 7.1	1.1/14.2	27328
1981 EM_{31}	97 09 13.3	23 25.56	−04 04.3	18.2	−0.87	− 6.4	0.1/13.2	22074
1989 WS	97 09 13.5	23 26.18	+12 05.9	15.6	−0.78	− 6.5	6.6/19.1	23246
1996 HT	97 09 13.6	23 26.48	+02 33.1	16.8	−0.90	− 5.0	2.2/15.6	28890
1996 GV_{20}	97 09 13.7	23 27.12	−04 12.5	18.6	−0.96	− 6.2	0.2/13.6	28319
(7004)	97 09 13.8	23 27.58	+03 44.6	15.6	−0.79	− 8.2	3.4/16.5	27292
1986 RJ_4	97 09 13.9	23 27.94	+19 55.3	16.3	−1.69	+13.6	12.0/16.0	16024
1993 OQ_4	97 09 14.0	23 28.17	−05 38.2	18.4	−0.92	− 6.9	0.8/13.3	27106
1977 DT_2	97 09 14.1	23 28.27	−05 43.3	17.3	−0.82	− 5.0	0.8/13.4	25060
1990 UN_1	97 09 14.1	23 28.38	−03 58.8	15.7	−0.87	− 8.9	0.2/13.9	24739
1992 EP_6	97 09 14.3	23 29.04	−13 55.8	17.6	−0.95	− 5.5	4.0/10.9	27567
(7484)	97 09 14.3	23 29.13	−13 34.3	17.8	−0.88	− 7.1	3.8/10.8	29086
1982 FA	97 09 14.3	23 29.16	−06 11.9	17.8	−0.96	− 6.1	1.0/13.4	28883
1995 DO_2	97 09 14.3	23 29.28	−07 59.1	17.6	−0.80	− 5.7	1.4/12.8	30292
1995 AK	97 09 14.4	23 29.35	−11 36.1	18.0	−0.89	− 5.1	2.9/11.7	25071
1990 TW_7	97 09 14.4	23 29.37	−12 28.6	17.7	−1.03	− 3.6	4.1/11.6	30470
2198 T-1	97 09 14.4	23 29.44	−07 42.2	18.7	−0.72	− 4.6	1.2/12.9	23867
1982 UK_7	97 09 14.4	23 29.60	−13 53.3	15.0	−0.77	− 5.6	5.2/10.7	20812
1995 DW	97 09 14.6	23 30.27	−08 17.0	17.1	−0.78	− 5.0	1.7/13.0	24909
1993 RR	97 09 14.7	23 30.73	−07 08.2	17.2	−1.00	+ 1.2	2.1/13.8	23135
1989 SG_1	97 09 14.8	23 30.93	−04 21.3	17.7	−0.80	− 7.8	0.4/14.4	30469
1993 VX	97 09 15.0	23 31.56	−16 31.7	16.1	−0.83	− 5.5	4.6/10.4	29662
1992 ER_{11}	97 09 15.0	23 31.82	−06 31.3	16.3	−0.87	− 7.3	1.2/13.9	29916
1992 EC_{18}	97 09 15.0	23 31.89	+01 52.0	17.7	−0.88	− 7.1	2.1/16.8	29135
1981 EF_{22}	97 09 15.1	23 31.88	−01 21.0	19.8	−0.92	− 6.9	0.6/15.7	26919
1992 RC_7	97 09 15.1	23 32.06	−06 08.2	16.3	−0.75	− 5.8	1.1/14.1	28887
1993 SS_1	97 09 15.2	23 32.22	−06 06.6	16.5	−0.83	− 7.2	1.2/14.1	25331
1985 RQ	97 09 15.3	23 32.71	−10 16.8	16.1	−0.86	+ 2.0	4.0/13.4	29133
1994 WE_1	97 09 15.4	23 33.28	−15 42.0	17.3	−0.97	− 4.7	4.7/11.4	28087
1992 DB_9	97 09 15.7	23 34.42	−07 44.0	15.8	−1.02	− 1.7	2.1/14.4	27326

1990 SX_{10}	97 09 15.8	23 34.34	+05 29.8	15.8	−0.99	− 3.3	3.6/18.3	30470
1977 EZ	97 09 15.9	23 35.08	+07 22.7	15.8	−1.07	− 1.6	3.8/18.8	27930
1990 WS_2	97 09 16.0	23 35.27	−04 43.1	16.3	−0.89	− 7.3	0.8/15.4	29658
1978 SV_7	97 09 16.0	23 35.35	−00 29.6	15.8	−0.87	− 2.7	0.8/16.7	29652
1981 EY_{41}	97 09 16.1	23 35.51	−01 44.8	20.8	−0.91	− 6.5	0.3/16.4	26922
1996 HW_8	97 09 16.1	23 35.57	+05 48.1	16.4	−0.75	− 8.5	3.2/19.3	28863
1995 BP_2	97 09 16.1	23 35.58	+05 43.2	18.8	−0.87	−13.4	2.9/19.3	25431
(6981)	97 09 16.2	23 36.11	−15 32.4	16.5	−1.04	− 0.1	4.9/12.9	27097
1993 FB_{26}	97 09 16.4	23 36.80	−00 35.6	16.8	−1.02	− 5.7	0.8/17.1	26743
1980 FO_1	97 09 16.4	23 36.88	−01 08.6	16.1	−0.79	− 4.7	0.5/16.9	27930
1991 PW_9	97 09 16.5	23 36.95	−07 59.8	17.0	−0.67	− 7.4	1.7/14.5	29659
1989 UW_5	97 09 16.6	23 37.58	−11 03.7	16.9	−0.90	− 4.5	3.7/13.9	30289
1996 GR	97 09 16.6	23 37.63	−06 59.0	18.4	−0.94	− 6.2	1.6/15.2	28618
1981 EP_{10}	97 09 16.7	23 37.58	+05 10.2	19.6	−0.97	− 4.3	2.9/19.1	22696
1981 EU_{34}	97 09 16.7	23 37.61	−04 17.7	19.8	−0.92	− 6.2	0.7/16.1	26921
1990 QC_3	97 09 17.0	23 38.66	−03 49.8	16.4	−0.80	− 8.4	0.7/16.5	30470
1981 QG	97 09 17.0	23 38.70	−02 09.1	15.9	−0.76	− 4.3	0.1/17.1	28294
1986 RX_2	97 09 17.0	23 38.76	−01 46.6	16.0	−0.75	− 4.0	0.2/17.2	25079
1982 TK	97 09 17.2	23 39.49	−10 01.7	15.2	−0.83	− 4.4	3.7/14.7	28611
1989 CL_1	97 09 17.2	23 39.69	−05 21.9	18.1	−0.72	− 4.6	0.8/16.2	22080
1993 TO_{24}	97 09 17.3	23 39.86	−06 59.6	18.1	−0.82	− 5.5	1.5/15.7	25083
1993 FW_{24}	97 09 17.3	23 39.96	+00 21.0	15.9	−0.93	− 5.7	1.2/18.2	28588
(7850)	97 09 17.3	23 39.97	−03 15.0	17.9	−1.00	− 3.2	0.4/17.0	30444
(7421)	97 09 17.3	23 40.00	+03 49.5	16.8	−0.77	−11.7	2.0/19.7	28831
1981 EB_5	97 09 17.5	23 40.47	+07 36.1	19.2	−0.85	− 3.6	3.0/20.6	26915
1996 LX_2	97 09 17.5	23 40.81	−02 02.2	18.9	−0.85	− 8.5	0.0/17.6	27563
1992 TW	97 09 17.6	23 40.79	+02 04.9	17.4	−0.68	− 8.9	1.4/19.2	27446
1996 FJ_{18}	97 09 17.6	23 40.81	−06 48.7	16.3	−0.85	− 3.5	1.6/16.1	29114
2218 T-3	97 09 17.6	23 41.06	−03 35.5	16.9	−1.08	− 2.7	0.7/17.2	23867
1994 TM_2	97 09 17.7	23 41.52	−07 26.9	16.2	−0.96	− 7.4	2.3/16.0	29921
1986 WM_5	97 09 17.8	23 41.57	+16 41.9	15.5	−0.84	− 3.0	6.1/24.2	29655
1983 RW_3	97 09 17.8	23 41.82	−00 30.3	16.5	−1.25	+ 4.0	0.7/18.2	27119
1994 YQ_1	97 09 17.8	23 41.90	−16 18.4	15.8	−0.89	− 4.9	6.3/13.1	27917
1981 EN	97 09 18.0	23 42.33	−04 53.9	18.0	−0.86	− 8.9	1.0/17.0	30468
1978 TR_2	97 09 18.0	23 42.45	−00 15.0	15.7	−0.79	− 5.0	0.6/18.6	26187
1989 SJ_1	97 09 18.1	23 42.82	−09 55.8	17.3	−0.81	− 4.1	3.8/15.5	30289
1990 VK_5	97 09 18.1	23 42.96	−11 03.0	16.7	−0.84	− 8.1	3.7/14.9	29658
1981 EK_{29}	97 09 18.3	23 43.36	+04 32.2	19.3	−0.76	− 6.5	2.1/20.5	26920
1994 AJ_1	97 09 18.4	23 43.79	+13 15.8	17.0	−0.81	− 3.5	4.9/23.4	23791
1981 EL_{29}	97 09 18.4	23 44.06	+01 33.1	19.8	−0.86	− 8.3	1.2/19.6	26920
(7576)	97 09 18.6	23 44.50	−07 37.6	16.7	−0.75	− 7.6	1.8/16.5	29595
1987 VD	97 09 18.6	23 44.63	+11 47.4	14.9	−0.76	− 3.6	7.3/23.3	27727
1992 GB_1	97 09 18.7	23 44.91	−33 24.0	18.5	−1.19	+ 0.1	9.9/09.5	29135
6519 P-L	97 09 18.8	23 45.14	−04 37.6	17.6	−0.77	− 4.2	0.8/17.8	22274
(7585)	97 09 18.8	23 45.45	−16 22.4	16.1	−0.69	− 7.1	4.6/13.4	29597
1981 ET_{19}	97 09 18.9	23 45.62	−03 48.9	19.4	−0.91	− 6.5	0.8/18.2	21967
1983 WN	97 09 19.0	23 45.87	+20 39.1	15.9	−0.67	− 5.9	11.2/28.0	27726
1989 SV_5	97 09 19.1	23 46.42	−11 56.5	18.8	−0.90	− 5.1	3.5/15.7	30289
1995 AV_2	97 09 19.4	23 47.36	−07 36.7	17.6	−0.92	− 5.1	2.1/17.4	24915
1994 WH_2	97 09 19.4	23 47.55	−04 38.1	16.5	−0.89	− 8.6	1.3/18.3	25084
1990 ON_2	97 09 19.5	23 47.75	−01 59.2	15.7	−1.00	− 4.4	0.3/19.3	26925
1989 UJ_3	97 09 19.7	23 48.36	−02 41.6	16.0	−1.11	+ 0.6	0.6/19.4	30470
1988 FB	97 09 19.7	23 48.44	−04 42.4	16.4	−0.94	− 5.4	1.2/18.6	29941
1977 RZ_8	97 09 19.7	23 48.45	+06 41.0	16.5	−0.95	− 1.3	2.6/22.0	27725
(7546)	97 09 19.7	23 48.68	−03 43.1	18.4	−0.89	− 8.3	1.0/18.9	29588
1996 GZ_2	97 09 19.8	23 48.76	−02 39.3	18.5	−0.95	− 5.2	0.5/19.4	28595
1402 T-2	97 09 19.8	23 48.91	+00 24.4	18.2	−0.89	− 4.1	0.7/20.4	28892
1991 BV_1	97 09 20.0	23 49.61	−05 57.0	17.3	−0.79	− 7.0	1.4/18.4	30077
1981 EG_{29}	97 09 20.0	23 49.66	+01 06.2	18.7	−0.77	− 8.1	0.7/20.9	26920
1993 TY_{38}	97 09 20.0	23 49.71	−04 40.6	17.5	−0.78	− 8.8	1.3/18.8	23784
1992 HY	97 09 20.2	23 50.11	−00 49.2	17.5	−0.89	− 6.0	0.1/20.3	27455
1994 VO_1	97 09 20.2	23 50.35	+01 36.0	16.1	−0.93	− 6.5	1.2/21.0	27313
(7360)	97 09 20.2	23 50.55	+06 13.2	15.8	−1.01	− 4.8	2.7/22.5	28578
1990 DZ	97 09 20.4	23 50.86	+04 21.5	17.8	−0.81	− 3.2	1.5/22.1	25440
1986 PN_4	97 09 20.4	23 51.24	+20 51.8	15.6	−0.93	− 0.7	7.8/27.5	22698
1993 XM	97 09 20.5	23 51.57	−23 49.1	16.7	−0.75	− 5.2	5.9/12.1	25442
1981 EN_9	97 09 20.6	23 51.65	+03 18.2	20.0	−0.99	− 4.0	1.4/21.9	26916
1991 DE	97 09 20.6	23 51.70	−21 35.5	17.9	−0.88	− 4.5	5.9/13.6	24913
1990 QM_4	97 09 20.7	23 52.01	−07 11.7	16.4	−0.91	− 7.9	2.5/18.6	22600
1993 KO	97 09 20.7	23 52.19	+02 51.8	16.8	−0.92	− 8.8	1.4/22.0	27311
1978 VL_{10}	97 09 20.7	23 52.24	−01 48.0	16.8	−0.77	− 5.8	0.3/20.5	25224
1994 WG_3	97 09 21.0	23 53.30	−11 00.9	15.4	−0.74	− 5.7	5.5/17.4	28889
1988 CF_6	97 09 21.0	23 53.41	+05 40.2	16.9	−0.92	− 6.1	2.3/23.2	21568
1993 PY_5	97 09 21.1	23 53.36	+09 37.2	17.6	−0.97	− 4.7	3.6/24.4	23981
1979 MA_6	97 09 21.1	23 53.42	−07 47.4	17.3	−0.89	− 8.0	2.7/18.7	30468
1993 SY_3	97 09 21.1	23 53.43	+04 55.9	15.9	−0.77	− 8.3	2.3/23.2	28888
1991 RJ_{11}	97 09 21.1	23 53.46	−04 31.5	17.4	−0.74	− 5.0	1.2/19.8	30290
1996 GV_{18}	97 09 21.1	23 53.67	−12 29.9	16.2	−1.01	− 2.1	5.3/17.7	29140
1981 EZ_{30}	97 09 21.2	23 53.71	+01 21.5	19.5	−0.83	− 4.4	0.7/21.9	26920
1989 SU	97 09 21.2	23 53.89	+07 37.1	14.9	−0.85	− 4.4	3.8/24.0	30469
1994 CF_2	97 09 21.2	23 54.00	−03 30.6	17.7	−0.72	− 5.0	0.8/20.3	30453
1993 FB_{24}	97 09 21.2	23 54.09	+00 17.1	15.0	−1.02	− 1.4	0.5/21.5	27105
1989 GB_1	97 09 21.2	23 54.09	+05 14.0	16.6	−0.70	− 5.6	1.6/23.3	29657
(7204)	97 09 21.3	23 54.07	−01 32.5	16.8	−0.78	− 7.6	0.3/21.0	28818
1990 TQ_{12}	97 09 21.3	23 54.17	+08 45.0	16.2	−0.91	− 6.0	4.1/24.4	17965
1990 SY_8	97 09 21.5	23 55.09	−08 16.0	17.6	−0.97	− 4.0	3.5/19.2	24582
(7292)	97 09 21.6	23 55.48	−09 00.6	16.1	−1.02	− 1.8	3.7/19.3	28287
1996 KB	97 09 21.6	23 55.56	+03 16.4	17.5	−0.86	− 6.3	1.3/23.0	28303
1979 MR_5	97 09 21.7	23 55.86	+03 46.9	17.3	−0.88	− 5.8	1.9/23.2	21965
1353 T-2	97 09 21.8	23 56.22	−00 38.7	17.8	−0.89	− 5.4	0.1/21.8	28892
1991 FQ_2	97 09 21.9	23 56.22	−00 41.8	18.1	−0.86	− 4.1	0.1/21.8	29098
2110 T-3	97 09 21.9	23 56.50	+00 50.8	17.7	−0.99	− 2.6	0.4/22.3	24115
1996 CR_1	97 09 22.2	23 57.30	+02 58.3	16.2	−0.87	− 9.5	1.4/23.4	27123
(7072)	97 09 22.3	23 57.79	−00 20.2	17.2	−0.92	− 6.0	0.0/22.3	27441
1981 SC_7	97 09 22.3	23 57.84	−13 31.5	15.4	−0.97	− 0.2	6.4/18.5	30468
6581 P-L	97 09 22.3	23 57.92	+00 47.2	16.8	−0.50	− 2.6	0.2/22.7	23135
1988 FN	97 09 22.3	23 58.03	+20 28.9	18.4	−1.15	− 0.7	6.5/28.1	27932
1992 BE_2	97 09 22.4	23 58.43	+02 14.7	17.4	−0.90	− 8.9	1.0/23.3	30470
1978 SE_3	97 09 22.5	23 58.37	+02 48.6	15.9	−0.85	− 7.3	1.2/23.5	28610
(6975)	97 09 22.7	23 59.43	+05 38.4	15.2	−0.88	− 3.8	2.3/24.6	27096
1981 ED_{45}	97 09 22.8	23 59.79	+07 10.0	20.1	−0.98	− 4.1	2.7/25.1	26923
1982 YR_1	97 09 22.9	23 59.97	−01 38.1	15.4	−1.00	− 2.0	0.7/22.5	24894

1989 WU_1	97 09 23.0	00 00.32	+15 52.7	15.3	−0.61	−10.8	7.2/29.8	30289
1996 OO	97 09 23.0	00 00.42	+11 14.0	18.3	−0.58	− 4.8	2.5/27.2	30473
1993 OB	97 09 23.0	00 00.46	+50 47.4	15.1	−0.91	+ 4.6	24.7/16.0	22816
1981 EA_{21}	97 09 23.1	00 00.69	+01 02.0	18.3	−0.80	− 5.0	0.3/23.5	26919
1993 NU_1	97 09 23.3	00 01.58	−02 54.1	16.4	−0.76	− 7.4	1.5/22.3	27556
1987 SM_{12}	97 09 23.4	00 01.93	+00 56.1	16.9	−0.79	− 4.7	0.2/23.7	22078
1995 EQ_1	97 09 23.5	00 02.31	−02 37.8	17.8	−0.73	− 4.6	0.8/22.6	29664
1993 UT_6	97 09 23.6	00 02.34	−00 16.2	17.2	−0.78	− 8.8	0.2/23.4	23784
1996 EL	97 09 23.6	00 02.40	+08 07.3	17.0	−1.02	− 4.1	2.8/26.0	27114
1981 EV_{37}	97 09 23.6	00 02.41	+06 18.1	20.2	−0.86	− 8.7	2.3/25.8	26922
2647 P-L	97 09 23.6	00 02.41	−00 39.0	16.4	−0.91	− 4.8	0.4/23.3	16438
1994 VR_1	97 09 23.8	00 03.20	+03 38.6	16.2	−0.95	− 5.4	1.5/24.9	28854
1981 EU_7	97 09 23.8	00 03.31	+12 23.5	17.7	−0.93	− 4.1	5.3/27.7	24758
1992 BG	97 09 23.8	00 03.35	−08 46.5	17.0	−0.88	− 8.6	3.1/20.7	27325
1993 XF	97 09 23.9	00 03.74	−04 57.2	16.7	−0.80	− 5.7	1.9/22.2	30291
1995 AZ_3	97 09 24.1	00 04.51	+06 32.3	16.9	−0.95	− 4.2	2.3/26.1	28617
1996 EK_{15}	97 09 24.2	00 04.78	−03 06.5	16.6	−0.93	− 6.8	1.7/23.1	27115
1993 RH_2	97 09 24.2	00 04.78	−00 47.1	15.7	−1.17	+ 4.2	0.6/24.0	30471
1993 PV_6	97 09 24.3	00 04.93	+06 24.1	16.3	−0.88	− 3.3	2.7/26.1	29137
3175 T-3	97 09 24.3	00 05.07	−00 58.2	18.5	−0.79	− 4.4	0.5/23.9	21127
1978 WY_8	97 09 24.4	00 05.46	−04 41.9	17.3	−0.79	− 4.8	1.7/22.7	23336
1981 ET_9	97 09 24.5	00 05.85	+07 35.0	19.6	−0.97	− 5.2	2.6/26.7	22270
1996 DA	97 09 24.6	00 05.92	−05 26.2	17.4	−0.95	− 5.9	2.4/22.7	30473
2330 T-2	97 09 24.6	00 06.09	+00 14.3	18.1	−0.93	− 4.1	0.2/24.5	27939
1994 AP_1	97 09 24.6	00 06.15	+24 28.1	17.6	−0.91	− 1.6	6.4/02.2	27716
1991 AC_3	97 09 24.7	00 06.40	−04 48.0	17.5	−0.83	− 6.4	1.9/22.9	29135
1981 EN_{14}	97 09 24.7	00 06.54	+04 17.9	18.6	−0.92	− 6.0	1.3/25.9	26917
1991 GQ_3	97 09 25.0	00 07.54	+07 16.4	16.5	−0.76	−10.5	2.3/27.5	28614
1996 JF_9	97 09 25.0	00 07.63	−04 08.8	20.0	−0.74	− 6.6	1.5/23.3	27562
1981 EH_{35}	97 09 25.1	00 07.97	+04 57.6	19.0	−1.00	− 4.4	1.8/26.0	21967
2073 P-L	97 09 25.2	00 08.23	+03 29.4	18.2	−0.86	− 6.6	0.9/26.0	27938
1995 AW	97 09 25.4	00 08.93	+19 40.6	16.3	−0.92	− 3.9	5.8/01.6	25539
1991 PR_{12}	97 09 25.4	00 09.17	+01 34.1	16.6	−0.73	− 4.9	0.2/25.7	27935
1992 EB_{13}	97 09 25.5	00 09.43	+07 59.5	16.4	−0.95	− 4.7	3.0/27.8	29660
1990 SX_5	97 09 25.5	00 09.56	−02 57.3	17.1	−0.92	− 4.6	1.9/24.3	24564
1990 SL_2	97 09 25.6	00 09.53	−12 53.6	15.7	−0.91	− 2.5	6.8/21.4	29658
4195 T-1	97 09 25.6	00 09.58	−04 15.4	17.9	−0.79	− 5.1	1.7/23.9	30293
1984 UX_2	97 09 25.6	00 09.87	−05 03.3	14.8	−1.05	+ 1.7	2.7/24.2	30468
1981 EN_{11}	97 09 25.7	00 10.06	+06 24.2	20.6	−1.16	− 4.0	2.2/27.2	26917
1991 AQ_2	97 09 25.7	00 10.10	+01 12.9	17.4	−0.92	− 5.9	9.3/06.0	29134
1992 DC_{10}	97 09 25.7	00 10.15	+08 24.2	15.8	−0.91	− 6.3	3.1/28.2	27120
2778 P-L	97 09 25.8	00 10.47	+00 21.3	17.2	−0.89	− 6.6	0.3/25.6	28088
1990 WZ_1	97 09 26.1	00 11.72	−02 56.7	16.5	−0.82	− 8.8	1.8/24.7	26901
1993 FD_{27}	97 09 26.3	00 12.11	−00 12.1	17.8	−1.02	− 6.0	0.6/25.9	27455
1991 AL	97 09 26.3	00 12.29	−08 54.9	15.8	−0.91	− 6.6	4.0/22.9	24896
3063 P-L	97 09 26.3	00 12.30	+11 38.5	17.4	−0.72	− 4.0	2.8/29.9	27724
1990 QW_{10}	97 09 26.3	00 12.39	+01 15.9	16.5	−1.05	− 3.6	0.0/26.4	28885
1993 TH_{14}	97 09 26.6	00 13.19	−01 10.2	17.4	−0.84	− 6.4	0.8/25.8	27936
1992 FY_1	97 09 26.6	00 13.29	−10 48.0	16.7	−1.02	− 3.4	4.6/23.0	29135
4124 T-3	97 09 26.6	00 13.36	−03 17.1	19.0	−0.76	− 5.6	1.6/25.1	25540
1994 AL_{16}	97 09 26.6	00 13.46	+00 35.3	17.1	−0.69	− 7.5	0.3/26.4	23676
1996 PS_1	97 09 26.7	00 13.71	+09 36.3	17.0	−0.47	− 5.8	1.5/29.9	28890
1981 EM_{38}	97 09 26.8	00 14.25	+07 45.9	19.8	−0.84	− 4.6	2.0/28.9	22430
1986 RD_5	97 09 26.9	00 14.35	+03 13.8	15.9	−0.79	− 3.7	0.6/27.5	25225
1978 UW_7	97 09 27.1	00 15.17	+14 11.4	16.1	−0.82	−11.8	4.9/02.1	28314
1989 UN_1	97 09 27.1	00 15.23	+06 59.6	15.9	−0.68	− 8.3	2.5/29.2	22969
1983 CO_3	97 09 27.2	00 15.42	+23 18.9	18.1	−0.79	− 3.7	5.7/04.7	30468
1980 FX_3	97 09 27.2	00 15.59	+03 12.0	16.8	−0.98	− 3.6	0.6/27.7	23969
1990 VD_3	97 09 27.2	00 15.68	+07 36.1	17.1	−0.93	− 5.9	2.2/29.2	21575
1992 SU	97 09 27.4	00 16.11	−02 05.0	15.3	−0.69	−12.3	1.3/25.9	29660
1989 UK_1	97 09 27.4	00 16.31	+13 37.2	16.1	−0.80	−10.2	4.7/01.9	22812
(7069)	97 09 27.4	00 16.35	−07 02.9	16.7	−0.92	− 4.6	3.3/24.7	29587
1993 TY_{34}	97 09 27.5	00 16.48	−02 19.6	18.0	−0.92	− 3.7	1.7/26.3	27557
1996 LG_4	97 09 27.5	00 16.63	−03 41.5	15.8	−0.80	− 4.7	2.2/25.8	28863
1994 XE_1	97 09 27.6	00 16.91	−14 15.6	16.7	−0.98	− 4.0	6.7/22.5	27327
1994 YB	97 09 27.7	00 17.37	+17 44.1	17.4	−0.99	− 5.0	5.3/03.0	26760
1993 WE	97 09 27.8	00 17.55	+04 23.0	17.5	−0.82	− 5.1	0.8/28.6	30472
1989 UB_3	97 09 27.8	00 17.82	−07 03.7	16.7	−0.95	− 4.6	3.6/25.0	30470
1979 MW_3	97 09 27.9	00 17.91	+05 49.3	18.0	−0.96	− 7.4	1.6/29.2	26913
1996 HU_{24}	97 09 28.0	00 18.33	−09 57.0	17.5	−1.03	− 3.4	5.1/24.5	27721
1991 EO_1	97 09 28.0	00 18.54	−04 16.7	16.5	−0.83	− 6.0	2.4/26.0	27728
1996 FL_5	97 09 28.0	00 18.58	−03 29.3	17.3	−1.03	− 3.7	2.0/26.5	30458
1981 YG	97 09 28.3	00 19.24	+27 11.3	16.9	−0.94	− 4.2	8.3/06.9	28294
1990 UQ_3	97 09 28.4	00 19.72	+00 25.8	16.9	−0.74	−10.1	0.8/27.8	23860
1988 QU	97 09 28.4	00 19.77	−12 28.2	16.6	−0.75	− 9.4	4.9/22.9	29133
(6867)	97 09 28.4	00 19.93	+00 00.6	16.0	−0.82	−10.1	0.7/27.7	29586
3553 P-L	97 09 28.7	00 20.75	+12 15.7	17.7	−0.85	− 4.4	3.1/01.9	27732
1981 EQ_2	97 09 28.7	00 20.98	+12 58.2	18.8	−0.94	− 5.8	3.9/02.3	26915
1982 RF	97 09 28.7	00 21.09	+01 14.8	15.1	−0.73	− 7.1	0.5/28.4	28611
1981 EV_{22}	97 09 28.8	00 21.20	+00 25.8	15.9	−0.74	− 6.9	0.8/28.2	29940
1282 T-2	97 09 28.8	00 21.36	+04 09.3	17.3	−0.79	− 5.3	0.6/29.5	22087
1986 RL_5	97 09 28.9	00 21.61	+00 55.2	15.8	−0.86	− 2.0	0.5/28.5	25439
(7034)	97 09 28.9	00 21.73	+06 12.5	16.4	−0.88	− 9.2	1.5/30.3	27299
4342 T-1	97 09 29.0	00 22.10	−04 08.4	19.0	−0.91	− 4.3	2.3/27.0	25224
1988 EB_1	97 09 29.0	00 22.12	−01 39.4	18.1	−0.92	− 5.2	1.4/27.8	30469
1989 TL_{15}	97 09 29.2	00 22.84	+04 25.7	16.3	−0.88	− 5.0	0.8/29.9	23991
1977 DQ_3	97 09 29.2	00 22.89	−00 31.2	17.4	−0.76	− 4.5	1.0/28.3	23347
1995 FU_2	97 09 29.3	00 23.05	−02 44.2	19.5	−0.78	− 5.3	1.8/27.6	25442
1967 HA	97 09 29.4	00 23.24	+17 51.3	16.7	−1.04	− 1.7	5.3/03.9	27929
1994 VO_7	97 09 29.4	00 23.57	+05 15.8	16.6	−0.96	− 7.3	1.2/30.4	28617
1977 QT_2	97 09 29.5	00 23.93	+06 41.0	15.9	−0.97	− 5.3	1.9/30.9	28313
1996 DR	97 09 29.7	00 24.65	−05 28.6	16.6	−0.92	− 9.0	3.0/27.0	27457
1981 EM_{24}	97 09 29.8	00 24.93	+05 32.6	16.9	−0.84	− 4.2	1.0/30.8	22697
1991 PG_3	97 09 30.0	00 25.73	−01 30.5	18.2	−0.75	− 4.7	1.2/28.7	29942
1992 KF	97 09 30.1	00 25.98	−20 50.9	17.5	−0.98	− 1.7	8.0/23.1	25441
1991 SK	97 09 30.1	00 25.98	+01 51.8	15.9	−0.80	− 2.7	0.3/29.9	27120
1996 HL_{12}	97 09 30.1	00 26.15	+03 20.4	18.8	−0.93	− 5.8	0.2/30.4	27561
1981 EV_{17}	97 09 30.2	00 26.45	+05 13.8	19.5	−0.92	− 6.6	0.9/01.1	22697
1989 WG_7	97 09 30.3	00 26.66	+05 06.5	16.7	−0.86	− 6.0	0.8/31.0	30470
1991 PQ_{12}	97 09 30.3	00 26.77	+02 29.2	16.8	−0.73	− 5.0	0.1/30.2	29659
1992 ER_{12}	97 09 30.9	00 28.87	+03 51.6	17.7	−0.91	− 6.8	0.3/01.2	27729
1995 EP_1	97 09 30.9	00 28.97	+09 32.2	17.4	−0.89	− 2.5	1.9/02.9	25442