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CORRECTED OBSERVATIONS.

The following observations correct those previously published.

Object	Date	UT	R. A. (2000)	Decl.	Reference	Mag.	N Obs.
1930 XP	1930 12	14.20069	03 28 39.47	+28 49 57.1	MPC 6614		690
(1653)	1962 08	03.13290	19 17 53.77	-23 16 47.6	MPC 2240	1	760

Note 1: time corrected.

* * * * *

IDENTIFICATION CHANGES.

Continuation to MPC 19356.

Object		Date	UT	R. A. (2000)	Decl.	Old desig.	Mag.	Obs.
1990 HF5	*	1990 04	30.77705	20 17 25.42	-20 43 10.1	1990 HS2		413
1990 HF5		1990 04	30.79441	20 17 25.99	-20 43 06.6	1990 HS2		413

* * * * *

OBSERVATIONS OF COMETS.

Observations are published here for the following observatory codes:

046 Klet. Observers A. Mrkos and Z. Vavrova.
104 Pian dei Termini. 0.4-m f/5 reflector. Observers L. Tesi and P. Giagli. Measured by L. Tesi. Reduction by G. Cattani.
372 Geisei. 0.60-m reflector. Observer T. Seki. In part from Orient. Astron. Assoc. Comet Bull.
411 Oizumi. 0.16-m f/4.8 reflector + CCD. Observer T. Kobayashi.
413 Siding Spring. Uppsala Southern Schmidt and 1.0-m reflector + CCD. Observers R. H. McNaught and S. D. Ryder. Measured by McNaught.
474 Mt. John. 0.6-m reflector. Observer A. C. Gilmore. Measured by P. M. Kilmartin.
540 Linz. 0.3-m f/5.2 Schmidt-Cassegrain. Observers E. Meyer, E. Obermair and H. Raab.
589 Santa Lucia Stroncone. 0.5-m f/7.5 Ritchey-Chretien and 0.25-m f/3 Baker-Schmidt + CCD. Observer A. Vagnozzi.
596 Colleverde di Guidonia. 0.31-m f/2.8 Baker-Schmidt + CCD. Observer V. S. Casulli.
657 Victoria. 0.25-m astrograph and 0.5-m reflector + CCD. Observers J. B. Tatum and D. D. Balam.

658 Dominion Astrophysical Observatory, Victoria. 1.85-m reflector + CCD. Observer G. C. L. Aikman. Measured by D. D. Balam. Long. and Parallax 236.5830, 0.66363, +0.74560 (see MPC 19348).
675 Palomar. 0.46-m Schmidt and 1.2-m Schmidt. Observers J. Alu, C. Brewer, E. Helin, K. Lawrence, D. H. Levy, P. Rose, C. S. Shoemaker and E. M. Shoemaker. Measurers T. M. King, K. Lawrence, P. Rose, C. S. Shoemaker and B. A. Skiff.
691 Steward Observatory, Kitt Peak. 0.9-m SPACEWATCH telescope. Observers T. Gehrels, D. Rabinowitz and J. V. Scotti. Measured by Scotti.
695 Kitt Peak. 2.1-m reflector. Observer B. E. A. Mueller.
801 Oak Ridge Observatory. 1.5-m reflector + CCD. Observers R. E. McCrosky and C.-Y. Shao.
894 Otomo. 0.25-m f/3.4 reflector. Observer S. Otomo.

Object	Date	UT	R. A. (2000)	Decl.	Mag.	N Obs.
		Periodic Comet Grigg-Skjellerup				
/1987 X	1992	01 09.12963	05 27 55.68	-05 32 23.4	20.3 N	695
/1987 X	1992	01 09.13891	05 27 54.99	-05 32 23.9	19.9 N	695
/1987 X	1992	01 09.14787	05 27 54.34	-05 32 24.6	19.9 N	695
/1987 X	1992	01 09.17796	05 27 52.10	-05 32 26.5	19.9 N	695
/1987 X	1992	01 09.18630	05 27 51.48	-05 32 27.2	19.8 N	695
/1987 X	1992	01 09.19554	05 27 50.79	-05 32 27.7	20.0 N	695
/1987 X	1992	01 09.25620	05 27 46.28	-05 32 31.7		695
/1987 X	1992	01 09.26587	05 27 45.55	-05 32 32.6	19.9 N	695
/1987 X	1992	01 09.28281	05 27 44.30	-05 32 33.4	19.9 N	695
/1987 X	1992	01 09.29078	05 27 43.71	-05 32 34.0	19.9 N	695
/1987 X	1992	01 09.29912	05 27 43.10	-05 32 34.6	19.8 N	695
/1987 X	1992	01 09.30942	05 27 42.36	-05 32 35.0	19.8 N	695
		Periodic Comet Tempel 2				
/1988 XIV	1992	01 29.34161	10 30 20.43	+17 20 43.8	21.1 T	691
/1988 XIV	1992	01 29.35075	10 30 20.14	+17 20 46.1		691
/1988 XIV	1992	01 30.39844	10 29 43.51	+17 26 18.4		691
/1988 XIV	1992	01 30.42325	10 29 42.72	+17 26 24.8	21.0 T	691
		Periodic Comet Schwassmann-Wachmann 1				
/1989 XV	1991	10 08.45975	03 46 13.47	+30 39 42.9		658
/1989 XV	1991	10 08.46444	03 46 13.39	+30 39 43.0		658
/1989 XV	1991	11 27.82961	03 23 04.25	+29 47 36.4	16.8 T	046
/1989 XV	1991	11 27.84373	03 23 03.78	+29 47 34.7		046
/1989 XV	1992	01 01.05089	03 10 13.88	+28 19 42.4		801
/1989 XV	1992	01 01.09466	03 10 13.33	+28 19 35.9		801
		Comet Levy (1990 XX)				
/1990 XX	1992	01 01.34189	09 30 35.08	+27 34 43.1		801
/1990 XX	1992	01 01.36140	09 30 34.07	+27 34 52.5		801
/1990 XX	1992	01 06.36237	09 26 12.09	+28 13 25.6		801
/1990 XX	1992	01 06.37690	09 26 11.30	+28 13 32.3		801
/1990 XX	1992	01 08.31734	09 24 25.13	+28 28 20.0		801
/1990 XX	1992	01 08.33733	09 24 24.03	+28 28 28.8		801
		Periodic Comet Kearns-Kwee				
/1990 XXV	1992	01 30.51808	13 26 57.87	-18 01 43.0	22.3 T	691
/1990 XXV	1992	01 30.54084	13 26 58.20	-18 01 46.7		691
/1990 XXV	1992	01 31.49774	13 27 04.75	-18 05 22.2		691
/1990 XXV	1992	01 31.51086	13 27 04.77	-18 05 25.7	22.2 T 1	691
/1990 XXV	1992	01 31.53310	13 27 04.89	-18 05 29.0		691

Comet Shoemaker-Levy (1991d)

/1991d	1992	01 01.45514	16 47 49.52	+39 29 15.0		801
/1991d	1992	01 01.45739	16 47 50.04	+39 29 15.4		801
/1991d	1992	01 02.45986	16 51 32.34	+39 32 14.4		801
/1991d	1992	01 02.46231	16 51 32.89	+39 32 14.8		801
/1991d	1992	01 04.84197	17 00 18.04	+39 38 49.3		411
/1991d	1992	01 04.84262	17 00 18.22	+39 38 49.6		411
/1991d	1992	01 04.84328	17 00 18.30	+39 38 50.0		411
/1991d	1992	01 04.84381	17 00 18.48	+39 38 50.4		411
/1991d	1992	01 04.84444	17 00 18.60	+39 38 50.0		411
/1991d	1992	01 04.84503	17 00 18.74	+39 38 50.7		411
/1991d	1992	01 04.84560	17 00 18.86	+39 38 51.0		411
/1991d	1992	01 04.84618	17 00 19.08	+39 38 50.6		411
/1991d	1992	01 05.08750	17 01 11.56	+39 39 22.6		657
/1991d	1992	01 08.46216	17 13 29.31	+39 47 42.8		801
/1991d	1992	01 08.46367	17 13 29.64	+39 47 43.1		801

Comet Helin-Lawrence (1991l)

/1991l	1992	01 15.46019	22 50 36.43	-78 42 00.2		413
/1991l	1992	01 15.46247	22 50 38.42	-78 41 51.7		413
/1991l	1992	01 15.46531	22 50 40.79	-78 41 41.0		413

Periodic Comet Faye

/1991n	1991	10 03.95833	01 44 31.42	+11 38 25.4		046
/1991n	1991	10 03.96314	01 44 31.51	+11 38 22.6		046
/1991n	1991	10 04.96701	01 44 51.40	+11 26 07.4		046
/1991n	1991	10 04.96875	01 44 51.39	+11 26 06.6		046
/1991n	1991	10 06.87986	01 45 26.46	+11 01 56.0		046
/1991n	1991	10 06.88194	01 45 26.47	+11 01 55.5		046
/1991n	1991	10 07.89167	01 45 43.33	+10 48 42.5		046
/1991n	1991	10 07.89340	01 45 43.35	+10 48 42.3		046
/1991n	1991	10 16.80762	01 47 36.78	+08 42 39.1		046
/1991n	1991	10 16.80970	01 47 36.79	+08 42 26.9		046
/1991n	1991	11 11.78542	01 53 03.96	+02 47 29.3		596
/1991n	1991	11 26.77569	02 01 29.70	+01 02 55.7		046
/1991n	1991	11 26.78333	02 01 30.00	+01 02 53.8		046
/1991n	1991	11 27.77365	02 02 15.64	+00 59 30.4		046
/1991n	1991	11 27.77677	02 02 15.82	+00 59 29.9		046
/1991n	1991	12 11.81181	02 15 47.94	+00 56 02.1		046
/1991n	1991	12 11.81944	02 15 48.36	+00 56 02.2		046
/1991n	1992	01 01.04778	02 43 23.31	+02 44 35.6		801
/1991n	1992	01 01.08992	02 43 27.13	+02 44 55.1		801
/1991n	1992	01 06.00661	02 51 18.34	+03 24 27.8		801
/1991n	1992	01 06.01476	02 51 19.11	+03 24 32.0		801
/1991n	1992	01 10.42792	02 58 40.74	+04 02 43.8		411
/1991n	1992	01 10.42887	02 58 40.88	+04 02 45.0		411
/1991n	1992	01 10.42978	02 58 40.90	+04 02 45.3		411
/1991n	1992	01 10.43069	02 58 41.02	+04 02 46.4		411
/1991n	1992	01 10.43169	02 58 41.03	+04 02 46.4		411
/1991n	1992	01 10.43264	02 58 41.17	+04 02 46.9		411
/1991n	1992	01 10.43377	02 58 41.30	+04 02 47.3		411
/1991n	1992	01 11.45278	03 00 25.50	+04 11 54.2		411
/1991n	1992	01 11.45370	03 00 25.60	+04 11 54.4		411
/1991n	1992	01 11.45463	03 00 25.71	+04 11 53.7		411
/1991n	1992	01 11.45561	03 00 25.84	+04 11 56.4		411
/1991n	1992	01 11.45654	03 00 25.93	+04 11 55.8		411
/1991n	1992	01 11.45749	03 00 26.06	+04 11 56.1		411
/1991n	1992	01 11.45847	03 00 26.13	+04 11 56.4		411
/1991n	1992	01 24.44337	03 23 40.41	+06 13 29.4		411

/1991n	1992 01 24.44492	03 23 40.60	+06 13 30.6				411
/1991n	1992 01 24.44584	03 23 40.64	+06 13 30.6				411
/1991n	1992 01 24.44685	03 23 40.78	+06 13 31.6				411
/1991n	1992 01 24.44940	03 23 41.07	+06 13 33.1				411
/1991n	1992 01 24.45033	03 23 41.14	+06 13 33.4				411
/1991n	1992 01 24.45126	03 23 41.31	+06 13 34.9				411

Periodic Comet Chernykh

/1991o	1991 12 29.08076	00 07 12.72	-04 44 29.0			2	691
/1991o	1991 12 29.08589	00 07 13.12	-04 44 25.9	17.5	T	2	691
/1991o	1991 12 29.09673	00 07 14.00	-04 44 19.8			2	691
/1991o	1992 01 27.09491	00 50 28.55	+00 25 38.9	18.1	T	3	691
/1991o	1992 01 27.10978	00 50 30.03	+00 25 50.2			3	691

Periodic Comet Levy

/1991q	1991 11 07.51892	09 38 58.83	+29 13 56.8	16.6	T	675
/1991q	1991 11 09.53576	09 40 05.47	+29 09 45.9			675
/1991q	1991 12 03.50382	09 42 08.08	+29 07 13.1	16.5	T	675
/1991q	1991 12 03.53750	09 42 07.32	+29 07 17.7			675
/1991q	1992 01 08.31109	09 08 09.76	+30 33 33.9			801
/1991q	1992 01 08.33299	09 08 07.95	+30 33 36.5			801

Periodic Comet Hartley 2

/1991t	1992 01 01.38019	10 59 04.79	-08 43 51.9			801
/1991t	1992 01 01.41500	10 59 04.35	-08 44 03.6			801
/1991t	1992 01 07.36686	10 56 44.01	-09 03 42.3			801
/1991t	1992 01 07.38779	10 56 43.30	-09 03 45.1			801
/1991t	1992 01 08.35565	10 56 12.27	-09 05 47.7			801
/1991t	1992 01 08.37685	10 56 11.51	-09 05 50.2			801

Comet Shoemaker-Levy (1991a1)

/1991a 1	1991 12 01.16458	00 58 21.35	+35 57 04.8	15.5	T	675
/1991a 1	1991 12 01.19774	00 58 17.89	+35 56 48.8			675
/1991a 1	1991 12 02.09236	00 56 46.97	+35 49 23.1			675
/1991a 1	1991 12 03.11493	00 55 04.66	+35 40 44.2			675
/1991a 1	1992 01 01.97369	00 19 58.97	+31 33 43.6			801
/1991a 1	1992 01 01.99140	00 19 58.23	+31 33 36.2			801
/1991a 1	1992 01 05.95818	00 17 24.69	+31 07 19.3			801
/1991a 1	1992 01 05.97498	00 17 24.18	+31 07 12.6			801
/1991a 1	1992 01 10.39135	00 15 04.27	+30 41 01.7			411
/1991a 1	1992 01 10.39634	00 15 04.20	+30 40 59.5			411
/1991a 1	1992 01 24.40646	00 10 53.03	+29 40 51.6			411
/1991a 1	1992 01 24.41361	00 10 53.11	+29 40 50.5			411
/1991a 1	1992 01 24.41509	00 10 53.04	+29 40 49.7			411
/1991a 1	1992 02 01.39611	00 10 22.45	+29 22 58.1			411
/1991a 1	1992 02 02.40708	00 10 23.69	+29 21 32.9			411
/1991a 1	1992 02 02.40877	00 10 23.80	+29 21 31.4			411
/1991a 1	1992 02 02.41444	00 10 23.67	+29 21 30.8			411

Periodic Comet Shoemaker-Levy 6

/1991b 1	1991 11 26.74514	00 57 40.03	+24 07 39.8			046
/1991b 1	1991 11 26.75278	00 57 41.23	+24 07 53.1			046
/1991b 1	1991 11 27.75258	01 00 05.10	+24 56 16.1			046
/1991b 1	1991 11 27.75970	01 00 05.79	+24 56 36.4			046
/1991b 1	1991 11 29.77708	01 04 55.71	+26 27 43.3	14.5	T	540
/1991b 1	1991 11 29.80556	01 04 59.48	+26 28 53.7			540
/1991b 1	1992 01 08.03382	02 38 21.10	+39 17 51.9			801
/1991b 1	1992 01 08.04110	02 38 22.11	+39 17 54.6			801

Periodic Comet Shoemaker-Levy 7

/1991d 1	1992	01	01.10440	03 41 00.55	+35 58 33.0			801
/1991d 1	1992	01	01.11961	03 41 01.36	+35 58 22.0			801
/1991d 1	1992	01	06.04139	03 45 59.60	+35 02 05.7			801
/1991d 1	1992	01	06.05189	03 46 00.24	+35 01 58.7			801

Periodic Comet Tsuchinshan 2

/1991e 1	1992	01	28.12056	03 11 58.55	+22 15 23.8	19.4	T 4	691
/1991e 1	1992	01	29.09476	03 12 56.43	+22 14 21.7			691
/1991e 1	1992	01	29.11636	03 12 57.65	+22 14 20.2			691
/1991e 1	1992	01	29.13784	03 12 58.86	+22 14 18.3	19.7	T	691

Periodic Comet Kowal 2

/1991f 1	1992	01	01.29932	08 31 28.77	-07 41 42.5			801
/1991f 1	1992	01	01.31470	08 31 28.04	-07 41 56.9			801
/1991f 1	1992	01	06.30968	08 28 20.02	-08 57 28.1			801
/1991f 1	1992	01	06.32123	08 28 19.60	-08 57 37.4			801
/1991f 1	1992	01	07.33683	08 27 37.27	-09 11 05.9			657
/1991f 1	1992	01	07.34865	08 27 36.77	-09 11 14.6			657
/1991f 1	1992	01	07.35094	08 27 36.67	-09 11 16.5			657
/1991f 1	1992	01	10.63965	08 25 09.83	-09 50 12.5			411
/1991f 1	1992	01	10.64969	08 25 09.28	-09 50 18.2			411
/1991f 1	1992	01	10.65210	08 25 09.27	-09 50 21.2			411

Comet Zanotta-Brewington (1991g1)

/1991g 1	1991	12	29.71875	21 06 19.07	+16 42 27.6			589
/1991g 1	1991	12	29.72569	21 06 20.36	+16 42 17.2			589
/1991g 1	1991	12	29.78055	21 06 33.41	+16 40 48.5			589
/1991g 1	1991	12	29.79097	21 06 35.72	+16 40 28.9			589
/1991g 1	1991	12	29.79896	21 06 37.56	+16 40 19.1			589
/1991g 1	1991	12	29.80573	21 06 39.21	+16 40 09.7			589
/1991g 1	1991	12	30.73125	21 10 15.01	+16 14 48.9			589
/1991g 1	1991	12	30.74236	21 10 17.47	+16 14 32.7			589
/1991g 1	1992	01	01.72569	21 18 12.98	+15 16 59.9			589
/1991g 1	1992	01	01.73264	21 18 14.37	+15 16 47.3			589
/1991g 1	1992	01	01.92744	21 19 02.37	+15 10 51.8			801
/1991g 1	1992	01	01.92938	21 19 02.85	+15 10 48.0			801
/1991g 1	1992	01	02.74583	21 22 23.85	+14 45 32.1			589
/1991g 1	1992	01	02.75278	21 22 25.55	+14 45 17.7			589
/1991g 1	1992	01	03.73819	21 26 32.93	+14 13 37.0			589
/1991g 1	1992	01	03.75417	21 26 36.89	+14 13 09.4			589
/1991g 1	1992	01	05.73646	21 35 07.16	+13 05 07.2			104
/1991g 1	1992	01	05.73872	21 35 08.04	+13 04 59.8			104
/1991g 1	1992	01	05.74375	21 35 09.22	+13 04 53.5			104
/1991g 1	1992	01	05.93719	21 35 59.97	+12 57 53.9			801
/1991g 1	1992	01	05.93900	21 36 00.44	+12 57 50.0			801
/1991g 1	1992	01	08.93149	21 49 25.32	+11 02 13.8			801
/1991g 1	1992	01	08.93293	21 49 25.75	+11 02 10.7			801
/1991g 1	1992	01	10.37583	21 56 07.11	+10 00 37.2			411
/1991g 1	1992	01	10.37666	21 56 07.29	+10 00 34.7			411
/1991g 1	1992	01	10.37722	21 56 07.48	+10 00 33.6			411
/1991g 1	1992	01	10.37832	21 56 07.78	+10 00 29.9			411
/1991g 1	1992	01	10.37919	21 56 07.99	+10 00 29.4			411
/1991g 1	1992	01	10.37979	21 56 08.20	+10 00 27.1			411
/1991g 1	1992	01	10.38073	21 56 08.45	+10 00 24.1			411
/1991g 1	1992	01	10.38131	21 56 08.61	+10 00 23.1			411
/1991g 1	1992	01	11.36777	22 00 47.81	+09 15 52.5			411
/1991g 1	1992	01	11.36834	22 00 47.97	+09 15 51.0			411
/1991g 1	1992	01	11.36892	22 00 48.10	+09 15 49.8			411

/1991g 1	1992	01	11.36947	22	00	48.24	+09	15	48.1			411
/1991g 1	1992	01	11.37049	22	00	48.58	+09	15	44.4			411
/1991g 1	1992	01	11.37106	22	00	48.74	+09	15	44.0			411
/1991g 1	1992	01	11.37161	22	00	48.87	+09	15	41.8			411
/1991g 1	1992	01	11.37220	22	00	49.05	+09	15	39.8			411
/1991g 1	1992	01	13.38949	22	10	31.34	+07	38	15.5			411
/1991g 1	1992	01	13.39002	22	10	31.39	+07	38	13.7			411
/1991g 1	1992	01	13.39126	22	10	31.77	+07	38	10.5			411
/1991g 1	1992	01	13.39184	22	10	31.96	+07	38	07.3			411
/1991g 1	1992	01	13.39240	22	10	31.99	+07	38	08.1			411
/1991g 1	1992	01	15.41860	22	20	30.77	+05	50	56.3	7	T	894
/1991g 1	1992	01	17.40538	22	30	29.73	+03	56	13.2			894
/1991g 1	1992	01	17.41094	22	30	31.53	+03	55	53.7			894
/1991g 1	1992	01	19.37517	22	40	32.79	+01	52	40.9			411
/1991g 1	1992	01	19.37573	22	40	32.98	+01	52	39.2			411
/1991g 1	1992	01	19.37628	22	40	33.17	+01	52	37.2			411
/1991g 1	1992	01	19.37684	22	40	33.28	+01	52	35.4			411
/1991g 1	1992	01	19.38188	22	40	34.91	+01	52	15.5			411
/1991g 1	1992	01	19.38247	22	40	35.06	+01	52	13.3			411
/1991g 1	1992	01	19.38420	22	40	35.60	+01	52	07.2			411
/1991g 1	1992	01	19.38608	22	40	36.16	+01	51	59.6			411
/1991g 1	1992	01	19.40642	22	40	42.41	+01	50	39.1			894
/1991g 1	1992	01	19.40781	22	40	42.78	+01	50	32.9			894
/1991g 1	1992	01	19.40920	22	40	43.25	+01	50	31.5			894
/1991g 1	1992	01	20.43490	22	46	00.21	+00	42	05.4	7.5	T	372
/1991g 1	1992	01	23.39392	23	01	20.86	-02	50	17.2	7.8	T	372
/1991g 1	1992	01	23.39740	23	01	21.96	-02	50	31.9			372
/1991g 1	1992	01	23.40990	23	01	25.80	-02	51	28.1			372
/1991g 1	1992	01	24.38204	23	06	29.02	-04	06	01.3			411
/1991g 1	1992	01	24.38257	23	06	29.23	-04	06	02.8			411
/1991g 1	1992	01	24.38346	23	06	29.58	-04	06	07.4			411
/1991g 1	1992	01	24.38463	23	06	29.89	-04	06	12.9			411
/1991g 1	1992	01	24.38542	23	06	30.11	-04	06	16.1			411
/1991g 1	1992	01	24.38889	23	06	31.11	-04	06	33.3	8	T	372
/1991g 1	1992	01	24.39236	23	06	32.26	-04	06	50.2			372
/1991g 1	1992	01	24.39583	23	06	33.29	-04	07	06.4			372
/1991g 1	1992	01	24.40000	23	06	34.56	-04	07	25.9			372
/1991g 1	1992	02	01.37992	23	47	22.39	-15	30	13.6			411
/1991g 1	1992	02	01.38037	23	47	22.55	-15	30	16.4			411
/1991g 1	1992	02	01.38090	23	47	22.67	-15	30	19.3			411
/1991g 1	1992	02	01.38139	23	47	22.84	-15	30	21.6			411
/1991g 1	1992	02	01.38322	23	47	23.44	-15	30	31.3			411
/1991g 1	1992	02	01.38382	23	47	23.60	-15	30	35.4			411
/1991g 1	1992	02	01.38450	23	47	23.82	-15	30	38.8			411

Comet Mueller (1991h1)

/1991h 1	1992	01	02.23370	08	49	41.85	+48	17	15.5			801
/1991h 1	1992	01	02.23774	08	49	40.68	+48	17	20.3			801
/1991h 1	1992	01	10.68939	07	55	23.80	+50	54	10.9			411
/1991h 1	1992	01	10.70314	07	55	16.89	+50	54	22.5			411
/1991h 1	1992	01	10.71052	07	55	13.07	+50	54	29.1			411
/1991h 1	1992	01	11.53951	07	48	08.45	+51	04	46.4			411
/1991h 1	1992	01	11.54298	07	48	06.62	+51	04	48.4			411
/1991h 1	1992	01	11.54781	07	48	04.03	+51	04	51.5			411
/1991h 1	1992	01	11.56263	07	47	56.26	+51	05	02.8			411
/1991h 1	1992	01	21.41405	06	00	09.77	+49	44	00.9			411
/1991h 1	1992	01	21.43102	05	59	57.07	+49	43	25.0			411
/1991h 1	1992	01	21.43225	05	59	56.21	+49	43	24.4			411
/1991h 1	1992	01	24.41215	05	23	06.27	+47	28	23.2	14	T	372

/1991h 1	1992	01	24.41806	05	23	02.04	+47	28	04.5			372
/1991h 1	1992	01	24.54762	05	21	26.72	+47	20	51.6			411
/1991h 1	1992	01	24.55262	05	21	22.98	+47	20	35.6			411
/1991h 1	1992	01	24.55432	05	21	21.69	+47	20	29.7			411
/1991h 1	1992	01	24.56663	05	21	12.88	+47	19	47.2			411
/1991h 1	1992	01	25.47626	05	10	14.30	+46	25	49.8			411
/1991h 1	1992	01	25.48701	05	10	06.71	+46	25	09.8			411
/1991h 1	1992	01	25.52290	05	09	40.46	+46	22	53.8			411
/1991h 1	1992	01	25.53074	05	09	34.92	+46	22	23.0			411
/1991h 1	1992	01	31.82396	04	01	45.25	+38	01	14.4			540
/1991h 1	1992	01	31.83507	04	01	38.70	+38	00	13.1			540
/1991h 1	1992	02	01.44019	03	56	03.33	+37	03	38.6			411
/1991h 1	1992	02	01.44183	03	56	02.51	+37	03	29.3			411
/1991h 1	1992	02	01.44775	03	55	58.97	+37	02	53.1			411
/1991h 1	1992	02	01.44984	03	55	58.12	+37	02	42.5			411
/1991h 1	1992	02	01.45254	03	55	56.53	+37	02	29.0			411
/1991h 1	1992	02	01.55159	03	55	02.05	+36	53	04.7			411
/1991h 1	1992	02	02.43037	03	47	16.44	+35	29	06.3			411
/1991h 1	1992	02	02.43206	03	47	15.53	+35	28	56.2			411
/1991h 1	1992	02	02.43373	03	47	14.71	+35	28	47.6			411
/1991h 1	1992	02	02.44925	03	47	06.66	+35	27	16.4			411
/1991h 1	1992	02	02.45024	03	47	06.07	+35	27	11.5			411

Comet Helin-Alu (1992a)

/1992a	1992	01	09.49566	08	22	35.00	+05	03	16.0	16.5	T	675
/1992a	1992	01	09.52378	08	22	33.86	+05	03	02.7			675
/1992a	1992	01	10.49375	08	21	49.05	+04	53	52.9			675
/1992a	1992	01	23.48941	08	11	05.39	+02	57	50.0	15.5	T	372
/1992a	1992	01	23.49896	08	11	04.90	+02	57	42.4			372
/1992a	1992	01	23.50903	08	11	04.34	+02	57	37.0			372
/1992a	1992	01	27.57743	08	07	34.24	+02	23	58.7	16	T	372
/1992a	1992	01	27.58889	08	07	33.61	+02	23	54.9			372
/1992a	1992	01	29.37170	08	06	01.73	+02	09	37.0	17	T	675
/1992a	1992	01	29.39497	08	06	00.56	+02	09	24.8			675
/1992a	1992	01	29.41840	08	05	59.20	+02	09	14.0			675
/1992a	1992	01	30.25417	08	05	16.63	+02	02	40.2			675
/1992a	1992	01	31.17031	08	04	30.00	+01	55	31.8			675
/1992a	1992	01	31.37674	08	04	19.02	+01	53	57.2			675
/1992a	1992	02	01.61906	08	03	16.00	+01	44	28.7			411
/1992a	1992	02	01.62028	08	03	16.02	+01	44	29.1	16	T	372
/1992a	1992	02	01.62192	08	03	15.77	+01	44	27.4			411
/1992a	1992	02	01.65667	08	03	14.01	+01	44	10.7			411
/1992a	1992	02	01.66483	08	03	13.54	+01	44	06.2			411
/1992a	1992	02	01.66832	08	03	13.46	+01	44	05.2			411
/1992a	1992	02	02.35313	08	02	39.04	+01	38	53.4			675
/1992a	1992	02	02.37240	08	02	37.99	+01	38	45.0			675

Comet Bradfield (1992b)

/1992b	1992	02	02.67413	16	22	20.97	-41	52	47.6			413
/1992b	1992	02	02.67926	16	22	23.36	-41	52	50.5			413
/1992b	1992	02	02.68400	16	22	25.73	-41	52	48.5			413
/1992b	1992	02	02.76037	16	23	03.19	-41	53	35.2			413
/1992b	1992	02	03.73512	16	31	10.49	-42	01	18.3			413
/1992b	1992	02	05.63252	16	47	31.02	-42	10	21.1		5	474
/1992b	1992	02	05.63712	16	47	33.49	-42	10	21.5			474
/1992b	1992	02	05.66067	16	47	45.94	-42	10	25.0			474
/1992b	1992	02	05.66426	16	47	47.70	-42	10	26.2			474
/1992b	1992	02	05.66819	16	47	49.95	-42	10	26.1			474

Note 1: coma diameter 5", tail 7" long in p.a. 290 . 2: primary coma diameter 25", tail extending 1′.11 in p.a. 62 , second tail or trail extending 2′.27 in p.a. 250 ; secondary separated by 67".0 in p.a. 67 , coma diameter 17", tail extending 0′.55 in p.a. 68 . 3: secondary separated by 73".5 in p.a. 65 . 4: 11" tail in p.a. 67 . 5: iamge involved with flaw.

* * * * *

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. Numerical 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
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	R. A. (2000)	Decl.	Mag.	N Obs.

033 Tautenburg
F. Borngen, Karl Schwarzschild Observatorium, O-6901 Tautenburg, Federal Republic of Germany
L. D. Schmadel, Astronomisches Rechen-Institut, W-6900 Heidelberg, Federal Republic of Germany
Observers F. Borngen, L. D. Schmadel
1.3-m Schmidt telescope
PPM

1967 GM1	1991 11 11.00243	06 39 19.98	+23 16 41.4	18.7	033
1967 GM1	1991 11 11.04861	06 39 19.46	+23 16 48.7		033
1967 GM1	1991 12 10.92222	06 22 34.21	+24 55 32.7		033
1967 GM1	1991 12 10.98056	06 22 31.05	+24 55 45.4	18.1	033
1967 GM1	1991 12 12.00347	06 21 38.15	+24 59 18.9		033
1967 GM1	1992 01 02.98264	06 01 06.79	+26 08 10.9	17.8	033
1967 GM1	1992 01 03.02292	06 01 04.58	+26 08 17.2		033
1977 QD2	1991 10 02.87778	00 11 08.67	+04 59 34.0		033
1977 QD2	1991 10 02.95625	00 11 03.91	+04 59 28.5		033
1977 QD2	1991 10 03.91458	00 10 08.97	+04 58 23.2		033
1977 QD2	1991 10 08.86736	00 05 36.81	+04 52 40.6		033
1977 QD2	1991 10 08.91458	00 05 34.20	+04 52 37.8		033
1977 QD2	1991 10 09.87569	00 04 44.63	+04 51 33.5	16.8	033
1988 XV2	1991 10 03.85764	00 13 52.59	+09 46 36.8		033
1988 XV2	1991 10 03.94167	00 13 47.71	+09 46 08.4		033
1988 XV2	1991 10 04.88333	00 12 55.42	+09 40 56.3		033
1988 XV2	1991 10 07.86111	00 10 12.27	+09 23 46.9	17.8	033
1988 XV2	1991 10 07.90625	00 10 09.79	+09 23 30.7		033
1989 CJ5	1991 08 14.99618	00 32 01.09	+04 25 40.4	17.8	033
1989 CJ5	1991 08 16.04931	00 32 14.56	+04 28 49.3		033
1989 CJ5	1991 08 19.02917	00 32 41.61	+04 36 37.2		033
1989 CJ5	1991 10 07.88333	00 05 51.05	+03 01 28.8	16.7	033
1989 CJ5	1991 10 07.92917	00 05 48.84	+03 01 18.6		033
1989 CJ5	1991 10 08.89028	00 05 06.08	+02 57 30.2		033
1991 RP2	1991 10 02.87778	00 08 49.48	+07 51 53.9		033
1991 RP2	1991 10 02.95625	00 08 46.04	+07 51 18.3		033
1991 RP2	1991 10 03.85764	00 08 08.60	+07 44 34.4		033
1991 RP2	1991 10 03.91458	00 08 06.17	+07 44 07.7		033
1991 RP2	1991 10 03.94167	00 08 05.14	+07 43 55.9		033
1991 RP2	1991 10 04.88333	00 07 26.14	+07 36 53.2		033
1991 RP2	1991 10 07.86111	00 05 25.43	+07 14 29.4	17.9	033
1991 RP2	1991 10 07.90625	00 05 23.78	+07 14 07.6		033
1991 RP2	1991 10 08.86736	00 04 45.73	+07 06 55.0		033
1991 RP2	1991 10 08.91458	00 04 43.85	+07 06 34.0		033
1991 RP2	1991 10 09.87569	00 04 06.48	+06 59 21.1	17.8	033
1991 RS2	1991 10 02.87778	00 09 09.22	+06 03 22.8		033
1991 RS2	1991 10 02.95625	00 09 05.08	+06 02 39.2		033
1991 RS2	1991 10 03.91458	00 08 15.83	+05 53 47.5		033
1991 RS2	1991 10 08.86736	00 04 09.21	+05 07 59.7		033
1991 RS2	1991 10 08.91458	00 04 06.84	+05 07 34.1		033
1991 RS2	1991 10 09.87569	00 03 21.14	+04 58 44.3	17.6	033
1991 RT2	1991 10 02.87778	00 09 22.14	+07 32 26.4		033
1991 RT2	1991 10 02.95625	00 09 18.11	+07 31 43.2		033
1991 RT2	1991 10 03.91458	00 08 31.37	+07 23 02.2		033
1991 RT2	1991 10 08.86736	00 04 43.09	+06 38 26.9		033
1991 RT2	1991 10 08.91458	00 04 40.92	+06 38 02.4		033
1991 RT2	1991 10 09.87569	00 03 59.90	+06 29 32.2	18.5	033
1991 RU2	1991 10 03.85764	00 06 55.19	+08 19 35.4		033
1991 RU2	1991 10 03.94167	00 06 50.49	+08 18 58.9		033
1991 RU2	1991 10 04.88333	00 05 58.32	+08 12 11.6		033
1991 RU2	1991 10 07.86111	00 03 16.78	+07 50 29.6	18.8	033
1991 RU2	1991 10 07.90625	00 03 14.44	+07 50 10.0		033
1991 RV2	1991 10 03.85764	00 07 33.35	+08 14 19.2		033
1991 RV2	1991 10 03.94167	00 07 29.02	+08 13 45.6		033
1991 RV2	1991 10 04.88333	00 06 41.07	+08 07 41.2		033
1991 RV2	1991 10 07.86111	00 04 14.35	+07 48 26.6	18.3	033
1991 RV2	1991 10 07.90625	00 04 12.17	+07 48 09.1		033
1991 RX2	1991 10 03.85764	00 11 36.99	+08 19 45.1		033
1991 RX2	1991 10 03.94167	00 11 32.34	+08 19 14.8		033

1991 RX2	1991 10 04.88333	00 10 41.30	+08 13 31.0			033
1991 RX2	1991 10 07.86111	00 08 02.37	+07 55 11.5	18.6		033
1991 RX2	1991 10 07.90625	00 08 00.05	+07 54 54.3			033
1991 RY2	1991 10 03.85764	00 13 36.29	+09 12 42.7			033
1991 RY2	1991 10 03.94167	00 13 31.91	+09 12 12.7			033
1991 RY2	1991 10 04.88333	00 12 44.18	+09 06 36.8			033
1991 RY2	1991 10 07.86111	00 10 16.48	+08 48 33.4	18.9		033
1991 RY2	1991 10 07.90625	00 10 14.25	+08 48 18.3			033
1991 RE3	1991 10 03.85764	00 04 20.69	+08 49 57.6			033
1991 RE3	1991 10 03.94167	00 04 16.22	+08 49 39.8			033
1991 RE3	1991 10 04.88333	00 03 28.23	+08 46 26.3			033
1991 RE3	1991 10 07.86111	00 01 02.59	+08 35 48.1	19.3		033
1991 RE3	1991 10 07.90625	00 01 00.39	+08 35 38.8			033
1991 RL3	1991 10 03.85764	00 08 32.10	+10 15 25.3			033
1991 RL3	1991 10 03.94167	00 08 26.96	+10 15 20.4			033
1991 RL3	1991 10 04.88333	00 07 31.57	+10 14 26.2			033
1991 RL3	1991 10 07.86111	00 04 41.09	+10 11 03.9	18.7		033
1991 RL3	1991 10 07.90625	00 04 38.54	+10 11 00.1			033
1991 RO3	1991 10 02.87778	00 01 59.86	+07 18 27.9			033
1991 RO3	1991 10 02.95625	00 01 55.07	+07 18 07.9			033
1991 RO3	1991 10 03.91458	00 00 59.27	+07 13 58.4			033
1991 RO3	1991 10 08.86736	23 56 22.04	+06 52 17.7			033
1991 RO3	1991 10 08.91458	23 56 19.40	+06 52 03.6			033
1991 RO3	1991 10 09.87569	23 55 28.36	+06 47 50.8	19.2		033
1991 RP3	1991 10 02.87778	00 08 17.77	+07 21 33.1			033
1991 RP3	1991 10 02.95625	00 08 14.51	+07 20 47.2			033
1991 RP3	1991 10 03.91458	00 07 37.48	+07 11 32.3			033
1991 RP3	1991 10 08.86736	00 04 38.55	+06 24 04.3			033
1991 RP3	1991 10 08.91458	00 04 36.87	+06 23 38.3			033
1991 RP3	1991 10 09.87569	00 04 05.33	+06 14 34.2	18.0		033
1991 RG4	1991 10 02.89688	00 41 39.53	+07 53 29.9			033
1991 RG4	1991 10 02.97778	00 41 35.16	+07 53 02.8			033
1991 RG4	1991 10 03.97361	00 40 44.39	+07 47 32.3			033
1991 RG4	1991 10 04.01944	00 40 41.93	+07 47 16.4			033
1991 RG4	1991 10 09.92361	00 35 46.83	+07 13 52.4	18.2		033
1991 RG4	1991 10 09.97153	00 35 44.42	+07 13 36.4			033
1991 RB10	1991 10 03.85764	00 12 17.39	+10 26 48.8			033
1991 RB10	1991 10 03.94167	00 12 12.61	+10 26 21.9			033
1991 RB10	1991 10 04.88333	00 11 20.98	+10 21 23.6			033
1991 RB10	1991 10 07.86111	00 08 41.64	+10 05 09.2	18.0		033
1991 RB10	1991 10 07.90625	00 08 39.25	+10 04 53.5			033
1991 RB13	1991 10 02.87778	00 05 07.33	+06 27 39.5			033
1991 RB13	1991 10 02.95625	00 05 03.08	+06 27 36.4			033
1991 RB13	1991 10 03.91458	00 04 12.57	+06 26 44.4			033
1991 RB13	1991 10 08.86736	00 00 02.53	+06 21 51.1			033
1991 RB13	1991 10 08.91458	00 00 00.18	+06 21 47.8			033
1991 RB13	1991 10 09.87569	23 59 14.39	+06 20 48.7	17.1		033
1991 SF1	1991 10 02.87778	00 11 46.30	+08 04 20.7			033
1991 SF1	1991 10 02.95625	00 11 42.45	+08 03 19.3			033
1991 SF1	1991 10 03.91458	00 10 59.64	+07 50 27.7			033
1991 SF1	1991 10 08.86736	00 07 29.14	+06 44 34.7			033
1991 SF1	1991 10 08.91458	00 07 27.15	+06 43 57.8			033
1991 SF1	1991 10 09.87569	00 06 49.14	+06 31 24.6	16.4		033
1991 TG3	1991 10 02.87778	00 10 30.01	+06 59 17.9			033
1991 TG3	1991 10 02.95625	00 10 25.20	+06 59 07.3			033
1991 TG3	1991 10 03.91458	00 09 27.94	+06 56 54.8			033
1991 TG3	1991 10 08.86736	00 04 41.75	+06 45 15.5			033
1991 TG3	1991 10 08.91458	00 04 39.11	+06 45 09.0			033
1991 TG3	1991 10 09.87569	00 03 45.88	+06 42 52.1	18.9		033

1991	TH3		1991	10	03.85764	00	09	26.37	+08 20 50.5	033
1991	TH3		1991	10	03.94167	00	09	22.96	+08 19 55.1	033
1991	TH3		1991	10	04.88333	00	08	46.28	+08 09 33.1	033
1991	TH3		1991	10	07.86111	00	06	53.50	+07 36 20.3 18.1	033
1991	TH3		1991	10	07.90625	00	06	51.84	+07 35 49.5	033
1991	TH3		1991	10	08.86736	00	06	16.85	+07 24 59.6	033
1991	TH3		1991	10	08.91458	00	06	15.06	+07 24 27.1	033
1991	TH3		1991	10	09.87569	00	05	40.99	+07 13 39.3 18.5	033
1991	TK3		1991	10	03.85764	00	11	33.02	+09 46 47.2	033
1991	TK3		1991	10	03.94167	00	11	27.55	+09 46 24.3	033
1991	TK3		1991	10	04.88333	00	10	27.73	+09 42 11.7	033
1991	TK3		1991	10	07.86111	00	07	22.11	+09 28 28.9 19.2	033
1991	TK3		1991	10	07.90625	00	07	19.27	+09 28 16.3	033
1991	TL3		1991	10	03.85764	00	11	19.98	+09 39 23.1	033
1991	TL3		1991	10	03.94167	00	11	16.19	+09 38 58.7	033
1991	TL3		1991	10	04.88333	00	10	33.70	+09 34 26.9	033
1991	TL3		1991	10	07.86111	00	08	21.75	+09 19 48.5 19.1	033
1991	TL3		1991	10	07.90625	00	08	19.78	+09 19 35.5	033
1991	TC6	*	1991	10	02.87778	00	01	43.13	+07 27 40.9	033
1991	TC6		1991	10	02.95625	00	01	39.04	+07 27 27.6	033
1991	TC6		1991	10	03.91458	00	00	51.38	+07 24 54.0	033
1991	TC6		1991	10	08.86736	23	56	52.70	+07 11 18.8	033
1991	TC6		1991	10	08.91458	23	56	50.46	+07 11 10.7	033
1991	TC6		1991	10	09.87569	23	56	06.06	+07 08 29.2 19.5	033
1991	TD6	*	1991	10	02.87778	00	02	35.96	+05 28 51.1	033
1991	TD6		1991	10	02.95625	00	02	31.26	+05 28 17.5	033
1991	TD6		1991	10	03.91458	00	01	36.27	+05 21 40.3	033
1991	TD6		1991	10	08.86736	23	57	02.18	+04 47 30.0	033
1991	TD6		1991	10	08.91458	23	56	59.63	+04 47 09.8	033
1991	TD6		1991	10	09.87569	23	56	09.18	+04 40 39.3 18.8	033
1991	TE6	*	1991	10	02.87778	00	02	37.42	+07 38 22.5	033
1991	TE6		1991	10	02.95625	00	02	33.26	+07 37 52.3	033
1991	TE6		1991	10	03.91458	00	01	44.53	+07 31 47.4	033
1991	TE6		1991	10	08.86736	23	57	40.84	+06 59 45.1	033
1991	TE6		1991	10	08.91458	23	57	38.58	+06 59 25.5	033
1991	TE6		1991	10	09.87569	23	56	53.47	+06 53 08.7 18.4	033
1991	TF6	*	1991	10	02.87778	00	02	43.64	+06 29 10.6	033
1991	TF6		1991	10	02.95625	00	02	40.53	+06 28 32.4	033
1991	TF6		1991	10	03.91458	00	02	03.10	+06 20 54.6	033
1991	TF6		1991	10	08.86736	23	58	55.92	+05 41 34.6	033
1991	TF6		1991	10	08.91458	23	58	54.23	+05 41 10.9	033
1991	TF6		1991	10	09.87569	23	58	19.39	+05 33 37.6 18.9	033
1991	TG6	*	1991	10	02.87778	00	03	27.70	+06 48 47.2	033
1991	TG6		1991	10	02.95625	00	03	24.13	+06 48 05.2	033
1991	TG6		1991	10	03.91458	00	02	41.52	+06 39 34.5	033
1991	TG6		1991	10	08.86736	23	59	07.79	+05 55 34.3	033
1991	TG6		1991	10	08.91458	23	59	05.78	+05 55 08.6	033
1991	TG6		1991	10	09.87569	23	58	25.95	+05 46 38.4 18.4	033
1991	TH6	*	1991	10	02.87778	00	03	53.61	+05 40 36.0	033
1991	TH6		1991	10	02.95625	00	03	49.61	+05 40 03.4	033
1991	TH6		1991	10	03.91458	00	03	03.19	+05 33 25.6	033
1991	TH6		1991	10	08.86736	23	59	15.19	+04 59 21.0	033
1991	TH6		1991	10	08.91458	23	59	13.07	+04 59 01.2	033
1991	TH6		1991	10	09.87569	23	58	31.78	+04 52 33.3 18.3	033
1991	TJ6	*	1991	10	02.87778	00	04	03.07	+05 37 37.1	033
1991	TJ6		1991	10	02.95625	00	03	58.39	+05 37 16.3	033
1991	TJ6		1991	10	03.91458	00	03	02.62	+05 32 52.5	033
1991	TJ6		1991	10	08.86736	23	58	23.43	+05 10 03.8	033
1991	TJ6		1991	10	08.91458	23	58	20.86	+05 09 49.7	033

1991 TJ6		1991	10	09.87569	23	57	28.93	+05 05 27.5	19.3	033
1991 TK6	*	1991	10	02.87778	00	04	11.36	+05 15 28.0		033
1991 TK6		1991	10	02.95625	00	04	07.88	+05 14 55.2		033
1991 TK6		1991	10	03.91458	00	03	27.36	+05 08 19.0		033
1991 TK6		1991	10	08.86736	00	00	03.14	+04 34 10.9		033
1991 TK6		1991	10	08.91458	00	00	01.27	+04 33 50.1		033
1991 TK6		1991	10	09.87569	23	59	23.18	+04 27 16.7	18.7	033
1991 TL6	*	1991	10	02.87778	00	05	32.30	+05 52 04.4		033
1991 TL6		1991	10	02.95625	00	05	28.57	+05 51 39.4		033
1991 TL6		1991	10	03.91458	00	04	44.46	+05 46 29.4		033
1991 TL6		1991	10	08.86736	00	01	04.84	+05 19 56.9		033
1991 TL6		1991	10	08.91458	00	01	02.76	+05 19 42.1		033
1991 TL6		1991	10	09.87569	00	00	22.29	+05 14 37.1	18.3	033
1991 TM6	*	1991	10	02.87778	00	05	49.31	+07 14 43.2		033
1991 TM6		1991	10	02.95625	00	05	45.58	+07 14 12.2		033
1991 TM6		1991	10	03.91458	00	05	01.83	+07 07 56.2		033
1991 TM6		1991	10	08.86736	00	01	24.60	+06 34 54.9		033
1991 TM6		1991	10	08.91458	00	01	22.44	+06 34 35.9		033
1991 TM6		1991	10	09.87569	00	00	42.66	+06 28 08.5	18.5	033
1991 TN6	*	1991	10	02.87778	00	09	05.92	+05 46 26.2		033
1991 TN6		1991	10	02.95625	00	09	02.60	+05 46 13.5		033
1991 TN6		1991	10	03.91458	00	08	22.90	+05 43 41.2		033
1991 TN6		1991	10	08.86736	00	05	02.36	+05 30 23.9		033
1991 TN6		1991	10	08.91458	00	05	00.55	+05 30 17.4		033
1991 TN6		1991	10	09.87569	00	04	22.84	+05 27 42.4	18.7	033
1991 TO6	*	1991	10	02.87778	00	10	53.54	+05 11 47.2		033
1991 TO6		1991	10	02.95625	00	10	49.01	+05 11 48.9		033
1991 TO6		1991	10	03.91458	00	09	55.36	+05 12 12.6		033
1991 TO6		1991	10	08.86736	00	05	23.97	+05 14 04.3		033
1991 TO6		1991	10	08.91458	00	05	21.41	+05 14 05.1		033
1991 TO6		1991	10	09.87569	00	04	30.41	+05 14 25.7	18.6	033
1991 TP6	*	1991	10	02.87778	00	11	24.18	+05 14 05.4		033
1991 TP6		1991	10	02.95625	00	11	20.34	+05 13 47.3		033
1991 TP6		1991	10	03.91458	00	10	35.25	+05 10 10.3		033
1991 TP6		1991	10	08.86736	00	06	47.89	+04 51 27.7		033
1991 TP6		1991	10	08.91458	00	06	45.63	+04 51 17.9		033
1991 TP6		1991	10	09.87569	00	06	03.16	+04 47 42.2	18.6	033
1991 TQ6	*	1991	10	02.87778	00	12	47.68	+07 46 03.2		033
1991 TQ6		1991	10	02.95625	00	12	43.41	+07 45 38.8		033
1991 TQ6		1991	10	03.91458	00	11	56.67	+07 40 32.1		033
1991 TQ6		1991	10	08.86736	00	07	59.67	+07 13 48.0		033
1991 TQ6		1991	10	08.91458	00	07	57.50	+07 13 31.8		033
1991 TQ6		1991	10	09.87569	00	07	12.92	+07 08 20.1	19.0	033
1991 TR6	*	1991	10	02.87778	00	13	27.09	+05 37 47.7		033
1991 TR6		1991	10	02.95625	00	13	22.15	+05 37 16.8		033
1991 TR6		1991	10	03.91458	00	12	24.45	+05 31 08.5		033
1991 TR6		1991	10	08.86736	00	07	36.56	+04 59 40.7		033
1991 TR6		1991	10	08.91458	00	07	33.77	+04 59 24.5		033
1991 TR6		1991	10	09.87569	00	06	40.58	+04 53 24.1	19.1	033
1991 TS6	*	1991	10	02.89688	00	36	35.67	+09 01 55.0		033
1991 TS6		1991	10	02.97778	00	36	31.77	+09 01 13.7		033
1991 TS6		1991	10	03.97361	00	35	45.57	+08 52 25.0		033
1991 TS6		1991	10	04.01944	00	35	43.33	+08 52 00.0		033
1991 TS6		1991	10	09.92361	00	31	11.26	+07 58 55.3	19.0	033
1991 TS6		1991	10	09.97153	00	31	08.93	+07 58 29.6		033
1991 TT6	*	1991	10	02.89688	00	38	30.01	+08 03 06.3		033
1991 TT6		1991	10	02.97778	00	38	25.62	+08 02 33.3		033
1991 TT6		1991	10	03.97361	00	37	34.16	+07 55 49.9		033
1991 TT6		1991	10	04.01944	00	37	31.77	+07 55 32.5		033

1991	TT6		1991	10	09.92361	00	32	28.83	+07 15 03.3	19.1	033
1991	TT6		1991	10	09.97153	00	32	26.35	+07 14 43.9		033
1991	TU6	*	1991	10	02.89688	00	39	36.55	+08 00 18.8		033
1991	TU6		1991	10	02.97778	00	39	32.07	+07 59 51.0		033
1991	TU6		1991	10	03.97361	00	38	38.51	+07 54 02.4		033
1991	TU6		1991	10	04.01944	00	38	35.94	+07 53 45.8		033
1991	TU6		1991	10	09.92361	00	33	25.88	+07 18 46.4	19.0	033
1991	TU6		1991	10	09.97153	00	33	23.33	+07 18 30.0		033
1991	TV6	*	1991	10	02.89688	00	40	03.79	+07 26 52.2		033
1991	TV6		1991	10	02.97778	00	39	58.61	+07 26 49.1		033
1991	TV6		1991	10	03.97361	00	38	57.90	+07 25 59.4		033
1991	TV6		1991	10	04.01944	00	38	54.94	+07 25 56.6		033
1991	TV6		1991	10	09.92361	00	32	57.72	+07 19 48.1	19.2	033
1991	TV6		1991	10	09.97153	00	32	54.70	+07 19 44.9		033
1991	TW6	*	1991	10	02.89688	00	40	25.34	+07 44 06.5		033
1991	TW6		1991	10	02.97778	00	40	20.10	+07 43 50.1		033
1991	TW6		1991	10	03.97361	00	39	17.40	+07 40 30.6		033
1991	TW6		1991	10	04.01944	00	39	14.42	+07 40 21.8		033
1991	TW6		1991	10	09.92361	00	33	11.73	+07 20 06.4	18.8	033
1991	TW6		1991	10	09.97153	00	33	08.80	+07 19 56.3		033
1991	TY6	*	1991	10	02.89688	00	41	48.77	+09 53 59.3		033
1991	TY6		1991	10	02.97778	00	41	44.41	+09 53 22.4		033
1991	TY6		1991	10	03.97361	00	40	53.04	+09 45 44.6		033
1991	TY6		1991	10	04.01944	00	40	50.51	+09 45 21.2		033
1991	TY6		1991	10	09.92361	00	35	45.03	+08 57 47.2	18.9	033
1991	TY6		1991	10	09.97153	00	35	42.41	+08 57 23.7		033
1991	TZ6	*	1991	10	02.97778	00	31	03.26	+07 52 15.3		033
1991	TZ6		1991	10	03.97361	00	30	20.56	+07 46 56.4		033
1991	TZ6		1991	10	04.01944	00	30	18.48	+07 46 40.7		033
1991	TZ6		1991	10	09.92361	00	26	08.56	+07 14 39.9	19.3	033
1991	TZ6		1991	10	09.97153	00	26	06.57	+07 14 23.6		033
1991	TA7	*	1991	10	02.97778	00	31	11.71	+08 13 58.1		033
1991	TA7		1991	10	03.97361	00	30	28.20	+08 08 37.4		033
1991	TA7		1991	10	04.01944	00	30	26.27	+08 08 21.1		033
1991	TA7		1991	10	09.92361	00	26	10.78	+07 35 52.9	19.6	033
1991	TA7		1991	10	09.97153	00	26	08.68	+07 35 37.3		033
1991	TB7	*	1991	10	02.97778	00	38	28.56	+08 49 34.5		033
1991	TB7		1991	10	03.97361	00	37	35.49	+08 44 25.3		033
1991	TB7		1991	10	04.01944	00	37	32.94	+08 44 09.8		033
1991	TB7		1991	10	09.92361	00	32	23.94	+08 12 55.8	18.8	033
1991	TB7		1991	10	09.97153	00	32	21.35	+08 12 41.0		033
1991	TC7	*	1991	10	02.97778	00	40	48.79	+07 19 39.4		033
1991	TC7		1991	10	03.97361	00	39	47.30	+07 16 39.4		033
1991	TC7		1991	10	04.01944	00	39	44.37	+07 16 30.1		033
1991	TC7		1991	10	09.92361	00	33	40.09	+06 57 46.0	19.3	033
1991	TC7		1991	10	09.97153	00	33	37.08	+06 57 37.0		033
1991	TD7	*	1991	10	03.85764	00	02	12.94	+09 15 55.9		033
1991	TD7		1991	10	03.94167	00	02	08.56	+09 15 14.4		033
1991	TD7		1991	10	04.88333	00	01	21.40	+09 07 43.6		033
1991	TD7		1991	10	07.86111	23	58	58.38	+08 43 45.7	18.6	033
1991	TD7		1991	10	07.90625	23	58	56.22	+08 43 25.2		033
1991	TE7	*	1991	10	03.85764	00	05	59.42	+08 04 15.6		033
1991	TE7		1991	10	03.94167	00	05	54.12	+08 03 55.8		033
1991	TE7		1991	10	04.88333	00	04	55.88	+08 00 10.9		033
1991	TE7		1991	10	07.86111	00	01	55.60	+07 48 00.3	19.1	033
1991	TE7		1991	10	07.90625	00	01	52.90	+07 47 49.7		033
1991	TF7	*	1991	10	03.85764	00	06	24.78	+09 49 22.6		033
1991	TF7		1991	10	03.94167	00	06	20.84	+09 48 42.2		033
1991	TF7		1991	10	04.88333	00	05	36.67	+09 41 13.0		033

1991 TF7		1991 10 07.86111	00	03	19.61	+09	17	19.8	18.4	033
1991 TF7		1991 10 07.90625	00	03	17.55	+09	16	58.6		033
1991 TG7	*	1991 10 03.85764	00	07	54.42	+09	54	56.6		033
1991 TG7		1991 10 03.94167	00	07	50.29	+09	54	24.2		033
1991 TG7		1991 10 04.88333	00	07	04.37	+09	48	16.2		033
1991 TG7		1991 10 07.86111	00	04	42.82	+09	28	34.2	19.5	033
1991 TG7		1991 10 07.90625	00	04	40.73	+09	28	15.9		033
1991 TH7	*	1991 10 03.85764	00	10	17.00	+10	18	05.1		033
1991 TH7		1991 10 03.94167	00	10	12.21	+10	17	46.3		033
1991 TH7		1991 10 04.88333	00	09	20.63	+10	14	12.6		033
1991 TH7		1991 10 07.86111	00	06	42.05	+10	02	21.0	19.2	033
1991 TH7		1991 10 07.90625	00	06	39.56	+10	02	10.3		033
1991 TJ7	*	1991 10 03.85764	00	14	07.60	+07	59	22.4		033
1991 TJ7		1991 10 03.94167	00	14	03.20	+07	59	51.9		033
1991 TJ7		1991 10 04.88333	00	13	13.69	+08	03	39.0		033
1991 TJ7		1991 10 07.86111	00	10	43.06	+08	15	27.2	19.0	033
1991 TJ7		1991 10 07.90625	00	10	40.94	+08	15	39.0		033
1991 TK7	*	1991 10 04.88333	00	06	30.07	+08	54	43.1		033
1991 TK7		1991 10 07.86111	00	04	57.11	+08	35	22.5	19.9	033
1991 TK7		1991 10 07.90625	00	04	55.59	+08	35	04.0		033
1991 TL7	*	1991 10 08.86736	23	56	13.02	+07	23	58.6		033
1991 TL7		1991 10 08.91458	23	56	10.69	+07	23	39.3		033
1991 TL7		1991 10 09.87569	23	55	25.30	+07	16	59.1	18.6	033
6114 P-L		1991 10 03.85764	00	12	51.28	+08	16	36.3		033
6114 P-L		1991 10 03.94167	00	12	46.60	+08	16	23.0		033
6114 P-L		1991 10 04.88333	00	11	54.53	+08	13	47.5		033
6114 P-L		1991 10 07.86111	00	09	11.98	+08	05	23.5	19.0	033
6114 P-L		1991 10 07.90625	00	09	09.57	+08	05	15.7		033
(2331)		1991 10 02.87778	00	09	51.47	+07	20	46.9		033
(2331)		1991 10 02.95625	00	09	46.92	+07	20	15.1		033
(2331)		1991 10 03.91458	00	08	53.31	+07	13	46.6		033
(2331)		1991 10 08.86736	00	04	21.41	+06	39	45.3		033
(2331)		1991 10 08.91458	00	04	18.82	+06	39	25.5		033
(2331)		1991 10 09.87569	00	03	27.60	+06	32	46.0	16.7	033
(4029)		1991 10 02.87778	00	05	40.61	+05	12	15.3		033
(4029)		1991 10 02.95625	00	05	36.64	+05	11	39.9		033
(4029)		1991 10 03.91458	00	04	49.98	+05	04	36.0		033
(4029)		1991 10 08.86736	00	00	56.25	+04	28	20.3		033
(4029)		1991 10 08.91458	00	00	54.07	+04	27	59.6		033
(4029)		1991 10 09.87569	00	00	10.76	+04	21	04.8	17.7	033

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Observers A. Mrkos, Z. Vavrova
0.6-m Maksutov reflector

1978 UV		1991 10 06.89722	01	37	02.01	+04	00	02.4		046
1978 UV		1991 10 06.91146	01	37	01.19	+04	00	01.2		046
1978 UV		1991 10 07.98299	01	36	07.42	+03	58	42.5		046
1978 UV		1991 10 07.99716	01	36	06.73	+03	58	41.4		046
1979 QX3		1991 10 07.94774	01	55	13.72	+26	08	19.3	16.3	046
1979 QX3		1991 10 07.96192	01	55	13.07	+26	08	18.1		046
1980 UC		1991 10 03.85428	00	53	39.66	+00	57	38.8		046
1980 UC		1991 10 03.87002	00	53	38.84	+00	57	34.7		046
1980 UC		1991 10 04.89954	00	52	52.62	+00	52	35.3	17.0	046
1980 UC		1991 10 04.91354	00	52	52.08	+00	52	31.4		046
1981 QH2		1991 10 06.89722	01	36	13.18	+02	55	21.9		046
1981 QH2		1991 10 06.91146	01	36	12.48	+02	55	13.5		046
1982 BQ2		1991 10 07.98299	01	35	42.47	+03	00	08.7		046
1982 BQ2		1991 10 07.99716	01	35	41.80	+03	00	02.2		046

1984 DE		1991 11 27.82961	03 21 40.96	+30 09 17.5					046
1984 DE		1991 11 27.84373	03 21 40.18	+30 09 12.8					046
1984 UC1		1991 10 03.81875	00 52 36.65	+09 47 01.5					046
1984 UC1		1991 10 03.83287	00 52 36.06	+09 47 00.9					046
1986 RD1		1991 10 07.94774	01 57 11.33	+25 54 37.2					046
1986 RD1		1991 10 07.96192	01 57 10.61	+25 54 37.4					046
1987 HE1		1991 10 03.92830	01 05 08.43	+01 05 39.9					046
1987 HE1		1991 10 03.94253	01 05 07.71	+01 05 28.6					046
1987 HE1		1991 10 04.93750	01 04 10.51	+00 57 06.7					046
1987 HE1		1991 10 04.95162	01 04 09.47	+00 56 59.8					046
1987 VC1		1991 10 03.89167	01 59 19.79	+10 59 10.0					046
1987 VC1		1991 10 03.90307	01 59 19.31	+10 59 09.2					046
1989 BS1		1991 10 06.85000	01 38 01.23	+13 55 58.3					046
1989 BS1		1991 10 06.86424	01 38 00.64	+13 55 56.2					046
1990 FS		1991 10 03.92830	01 03 55.24	-00 38 16.5					046
1990 FS		1991 10 03.94253	01 03 54.99	-00 38 23.5					046
1990 FS		1991 10 04.93750	01 02 58.74	-00 47 15.6					046
1990 FS		1991 10 04.95162	01 02 58.17	-00 47 21.4					046
1991 RR4		1991 10 03.81875	00 49 23.84	+10 06 27.7				16.7	046
1991 RR4		1991 10 03.83287	00 49 22.86	+10 06 26.4					046
1991 RR4		1991 10 04.85625	00 48 23.16	+10 03 18.7					046
1991 RR4		1991 10 04.87049	00 48 22.32	+10 03 15.6					046
1991 RB5		1991 10 04.85625	00 52 47.52	+11 01 45.0					046
1991 RB5		1991 10 04.87049	00 52 46.67	+11 01 44.3					046
1991 TP1		1991 10 03.81875	00 53 47.95	+11 30 37.7				16.2	046
1991 TP1		1991 10 03.83287	00 53 46.95	+11 30 27.6					046
1991 TP1		1991 10 04.85625	00 52 51.12	+11 21 42.0					046
1991 TP1		1991 10 04.87049	00 52 50.27	+11 21 34.6					046
1991 TS5		1991 10 03.81875	00 56 19.42	+07 48 57.9				16.6	046
1991 TS5		1991 10 03.83287	00 56 18.66	+07 48 54.5					046
1991 TS5		1991 10 04.85625	00 55 23.51	+07 46 12.6					046
1991 TS5		1991 10 04.87049	00 55 22.68	+07 46 10.6					046
1991 TX5	*	1991 10 03.92830	01 00 28.06	+01 29 38.5				16.8	046
1991 TX5		1991 10 03.94253	01 00 27.31	+01 29 33.9					046
1991 TX5		1991 10 04.93750	00 59 30.33	+01 26 54.5					046
1991 TX5		1991 10 04.95162	00 59 29.54	+01 26 52.0					046
1991 TY5	*	1991 10 03.92830	01 04 58.87	-00 25 42.2				16.9	046
1991 TY5		1991 10 03.94253	01 04 58.18	-00 25 53.7					046
1991 TY5		1991 10 04.93750	01 04 15.70	-00 36 06.0					046
1991 TY5		1991 10 04.95162	01 04 15.05	-00 36 17.7					046
1991 TZ5	*	1991 10 06.89722	01 37 27.36	+01 57 34.8				16.5	046
1991 TZ5		1991 10 06.91146	01 37 26.64	+01 57 29.9					046
1991 TZ5		1991 10 07.98299	01 36 31.07	+01 51 11.4					046
1991 TZ5		1991 10 07.99716	01 36 30.30	+01 51 04.4					046
1991 TA6	*	1991 10 06.89722	01 38 09.94	+02 25 28.4				16.8	046
1991 TA6		1991 10 06.91146	01 38 09.31	+02 25 21.8					046
1991 TA6		1991 10 07.98299	01 37 11.25	+02 16 35.9					046
1991 TA6		1991 10 07.99716	01 37 10.45	+02 16 31.2					046
1991 TB6	*	1991 10 06.89722	01 42 08.76	+00 31 48.0				16.7	046
1991 TB6		1991 10 06.91146	01 42 07.68	+00 31 48.3					046
1991 TB6		1991 10 07.98299	01 40 56.07	+00 34 08.5					046
1991 TB6		1991 10 07.99716	01 40 55.10	+00 34 09.8					046
(86)		1991 10 06.89722	01 44 42.82	+02 57 14.5					046
(86)		1991 10 06.91146	01 44 42.15	+02 57 11.6					046
(86)		1991 10 07.98299	01 43 56.09	+02 53 01.2					046
(86)		1991 10 07.99716	01 43 55.45	+02 52 57.5					046
(393)		1991 10 06.85000	01 44 27.89	+15 56 11.5					046
(393)		1991 10 06.86424	01 44 27.22	+15 56 03.2					046
(393)		1991 10 07.86319	01 43 39.69	+15 44 01.5					046

(393)	1991	10	07.87731	01	43	38.99	+15 43 51.5	046
(740)	1991	11	27.86612	03	40	42.71	+05 47 56.4	046
(740)	1991	11	27.88237	03	40	42.10	+05 47 56.0	046
(830)	1991	10	03.81875	00	52	32.27	+08 52 31.4	046
(830)	1991	10	03.83287	00	52	31.60	+08 52 28.0	046
(830)	1991	10	04.85625	00	51	44.63	+08 48 44.0	046
(830)	1991	10	04.87049	00	51	43.88	+08 48 42.0	046
(915)	1991	12	11.86042	03	08	54.49	+26 53 04.9	046
(915)	1991	12	11.87500	03	08	53.92	+26 53 02.8	046
(1035)	1991	10	07.94774	01	54	36.28	+24 48 54.7	046
(1035)	1991	10	07.96192	01	54	35.42	+24 48 56.3	046
(1073)	1991	10	03.89167	01	57	01.49	+11 13 21.2	046
(1073)	1991	10	03.90307	01	57	01.01	+11 13 18.0	046
(1145)	1991	10	06.85000	01	35	09.24	+16 09 01.4	046
(1145)	1991	10	06.86424	01	35	08.47	+16 08 58.7	046
(1228)	1991	10	03.81775	00	57	27.42	+11 09 00.9	046
(1228)	1991	10	03.83287	00	57	26.76	+11 08 55.9	046
(1228)	1991	10	04.85625	00	56	35.37	+11 04 20.9	046
(1228)	1991	10	04.87049	00	56	34.56	+11 04 15.9	046
(1286)	1991	10	03.81875	00	48	27.52	+07 34 46.9	17.0 046
(1286)	1991	10	03.83287	00	48	26.88	+07 34 39.3	046
(1450)	1991	10	03.92830	01	02	02.59	-01 17 50.4	046
(1450)	1991	10	03.94253	01	02	01.79	-01 17 54.3	046
(1450)	1991	10	04.93750	01	01	08.76	-01 22 41.6	046
(1450)	1991	10	04.95162	01	01	07.98	-01 22 44.9	046
(1538)	1991	10	07.94774	01	55	55.06	+25 25 50.0	046
(1538)	1991	10	07.96192	01	55	54.09	+25 25 52.4	046
(1715)	1991	10	06.89722	01	40	48.50	+04 12 50.3	046
(1715)	1991	10	06.91146	01	40	47.66	+04 12 50.2	046
(1715)	1991	10	07.98299	01	39	40.56	+04 10 07.4	046
(1715)	1991	10	07.99716	01	39	39.59	+04 10 06.1	046
(1964)	1991	10	04.85625	00	45	20.50	+08 32 30.3	046
(1964)	1991	10	04.87049	00	45	19.83	+08 32 24.6	046
(2130)	1991	10	03.81875	00	50	40.96	+10 11 40.5	046
(2130)	1991	10	03.83287	00	50	40.11	+10 11 38.5	046
(2130)	1991	10	04.85625	00	49	33.62	+10 09 14.5	046
(2130)	1991	10	04.87049	00	49	32.64	+10 09 12.7	046
(2162)	1991	10	06.89722	01	41	54.41	+04 27 20.4	046
(2162)	1991	10	06.91146	01	41	53.67	+04 27 14.1	046
(2162)	1991	10	07.98299	01	40	59.34	+04 20 13.4	046
(2404)	1991	10	03.85428	00	57	48.83	+01 59 54.7	046
(2404)	1991	10	03.87002	00	57	48.31	+01 59 52.6	046
(2404)	1991	10	04.89954	00	57	02.41	+01 54 55.9	046
(2404)	1991	10	04.91354	00	57	01.67	+01 54 50.5	046
(2417)	1991	11	26.80657	03	44	02.83	+17 39 31.6	046
(2417)	1991	11	26.82069	03	44	02.15	+17 39 29.7	046
(2417)	1991	11	27.79303	03	43	11.63	+17 37 54.8	046
(2417)	1991	11	27.80715	03	43	10.76	+17 37 54.7	046
(2424)	1991	10	03.89167	01	54	37.39	+09 16 33.3	046
(2424)	1991	10	03.90307	01	54	36.72	+09 16 31.8	046
(2424)	1991	10	07.91204	01	50	47.99	+09 11 36.0	046
(2424)	1991	10	07.92616	01	50	47.23	+09 11 35.4	046
(2571)	1991	11	26.80657	03	35	21.93	+18 34 11.6	046
(2571)	1991	11	26.82069	03	35	20.99	+18 34 10.4	046
(2571)	1991	11	27.79303	03	34	18.37	+18 32 46.9	046
(2571)	1991	11	27.80715	03	34	17.27	+18 32 46.6	046
(3099)	1991	10	03.92830	01	02	56.36	-00 55 59.0	046
(3099)	1991	10	03.94253	01	02	55.90	-00 56 00.6	046
(3099)	1991	10	04.93750	01	02	03.94	-00 58 20.0	046

(3099)	1991 10 04.95162	01 02 03.35	-00 58 23.8			046
(3479)	1991 11 27.86612	03 34 38.76	+07 23 08.6			046
(3479)	1991 11 27.88237	03 34 38.31	+07 23 06.7			046
(3485)	1991 10 06.85000	01 35 23.28	+12 58 47.2			046
(3485)	1991 10 06.86424	01 35 22.48	+12 58 43.3			046
(3485)	1991 10 07.86319	01 34 26.02	+12 53 58.6			046
(3485)	1991 10 07.87731	01 34 25.12	+12 53 54.6			046
(3625)	1991 10 06.85000	01 33 54.31	+12 50 52.5			046
(3625)	1991 10 06.86424	01 33 53.69	+12 50 46.0			046
(3625)	1991 10 07.86319	01 33 09.89	+12 45 04.6			046
(3625)	1991 10 07.87731	01 33 09.31	+12 45 00.2			046
(3866)	1991 10 03.81875	00 49 17.45	+08 31 53.2			046
(3866)	1991 10 03.83287	00 49 16.87	+08 31 48.9			046
(3866)	1991 10 04.85625	00 48 32.55	+08 25 37.9			046
(3866)	1991 10 04.87049	00 48 31.71	+08 25 32.1			046
(4199)	1991 10 06.89722	01 40 22.64	+00 40 21.5			046
(4199)	1991 10 06.91146	01 40 21.91	+00 40 19.1			046
(4199)	1991 10 07.98299	01 39 23.25	+00 36 30.9			046
(4199)	1991 10 07.99716	01 39 22.51	+00 36 28.7			046
(4531)	1991 10 07.86319	01 36 21.41	+15 31 23.6	16.0		046
(4531)	1991 10 07.87731	01 36 19.82	+15 31 34.2			046
(4998)	1991 10 03.81875	00 54 24.73	+11 57 07.8			046
(4998)	1991 10 03.83287	00 54 23.90	+11 57 06.7			046
(4998)	1991 10 04.85625	00 53 30.91	+11 55 00.8			046
(4998)	1991 10 04.87049	00 53 30.17	+11 54 58.2			046
(5015)	1991 10 03.85428	00 46 01.99	-00 21 08.1			046
(5015)	1991 10 03.87002	00 46 01.09	-00 21 19.3			046
(5015)	1991 10 04.89954	00 45 05.02	-00 29 21.0			046
(5015)	1991 10 04.91354	00 45 04.39	-00 29 26.7			046

049 Kvistaberg
C.-I. Lagerkvist, Astronomiska Observatoriet, Box 515,
S-75120 Uppsala, Sweden
Observer T. Oja
Measurer A. Erikson
AGK3

1986 RH12	1990 10 10.83399	23 34 19.90	+07 35 12.2	15.5		049
1986 RH12	1990 10 10.84818	23 34 19.55	+07 34 56.8			049
1986 RH12	1990 10 11.83126	23 33 58.98	+07 20 29.3	15.5		049
1986 RH12	1990 10 11.84580	23 33 58.65	+07 20 16.7			049
1992 AD	1992 01 31.89074	08 04 37.89	+20 50 48.8			049
(4603)	1990 10 11.79871	23 19 12.63	+04 07 54.2	16.5		049
(4603)	1990 10 11.81325	23 19 12.02	+04 07 53.1			049
(4725)	1989 09 11.04267	01 39 06.99	+08 10 35.3	16.0		049
(4725)	1989 09 11.06206	01 39 06.61	+08 10 27.5			049

056 Skalnate Pleso
J. Svoren, Astronomical Institute, Slovak Academy of Sciences,
C-05960 Tatranska Lomnica, Czechoslovakia
Observers P. Schalling, J. Klobusnik, E. M. Pittich, J. Svoren,
P. Rychtarcik
0.3-m f/5 astrograph

(3)	1980 04 15.80382	07 44 32.58	+13 52 42.4			056
(3)	1980 04 15.83090	07 44 34.65	+13 52 46.3			056
(3)	1980 04 16.79340	07 45 47.28	+13 55 17.8			056
(3)	1980 04 16.81632	07 45 49.05	+13 55 21.0			056
(6)	1978 02 06.98021	11 05 04.84	+12 11 50.9			056
(6)	1978 02 07.00174	11 05 04.06	+12 12 03.3			056
(6)	1978 02 12.91458	11 00 47.82	+13 13 26.3			056

(6)	1978 02 12.94236	11 00 46.48	+13 13 41.8			056
(6)	1979 06 03.92188	16 05 42.33	+01 56 17.9			056
(6)	1979 06 04.00521	16 05 37.65	+01 56 18.1			056
(7)	1978 02 06.99688	10 03 55.29	+02 48 55.4			056
(7)	1978 02 12.90833	09 57 52.42	+03 13 11.7			056
(7)	1978 02 12.93889	09 57 50.23	+03 13 24.3			056
(7)	1980 09 12.92465	23 50 01.77	+10 59 31.4		R	056
(7)	1980 09 16.90139	23 46 45.22	+10 42 50.8			056
(11)	1979 03 19.78194	04 33 26.11	+19 25 07.7			056
(11)	1979 03 19.84236	04 33 30.85	+19 25 22.9			056
(11)	1980 02 09.98194	11 37 28.95	+06 47 50.2			056
(11)	1980 04 15.81215	10 50 30.75	+12 47 38.5			056
(11)	1980 04 15.84271	10 50 30.13	+12 47 40.6			056
(11)	1980 04 16.80035	10 50 14.56	+12 48 40.0			056
(11)	1980 04 16.82882	10 50 14.06	+12 48 42.0			056
(18)	1979 03 19.79375	06 20 23.31	+17 21 15.8			056
(18)	1980 02 25.12361	14 07 01.99	-03 03 53.9			056
(18)	1980 03 22.94722	13 57 43.10	+00 03 50.2			056
(18)	1980 04 15.82257	13 37 57.63	+03 14 51.5			056
(18)	1980 04 15.84896	13 37 56.07	+03 15 01.2			056
(18)	1980 04 16.81007	13 37 03.37	+03 21 47.9			056
(18)	1980 04 16.83299	13 37 02.08	+03 21 57.1		R	056
(25)	1980 08 17.94931	00 23 42.01	+30 09 44.5		M	056
(25)	1980 09 05.95000	00 19 03.99	+28 12 06.5			056
(25)	1980 09 06.00278	00 19 02.30	+28 11 31.5			056
(25)	1980 09 13.01806	00 14 59.20	+26 41 24.6			056
(39)	1980 01 19.96354	09 10 54.53	+09 05 59.7			056
(39)	1980 04 15.80729	08 40 01.68	+16 09 46.4			056
(39)	1980 04 15.83438	08 40 02.50	+16 09 47.6			056
(39)	1980 04 16.79687	08 40 32.69	+16 10 43.1			056
(39)	1980 04 16.82118	08 40 33.46	+16 10 44.5			056
(40)	1978 02 06.93368	04 18 55.88	+21 04 04.8			056
(40)	1978 02 12.91909	04 23 24.15	+21 25 10.9			056
(51)	1980 09 16.99896	04 50 17.67	+12 51 56.1			056
(51)	1980 09 17.02465	04 50 18.78	+12 51 49.9			056
(51)	1980 09 17.03646	04 50 19.37	+12 51 46.9			056
(51)	1980 09 17.07257	04 50 20.97	+12 51 37.7			056
(148)	1980 04 15.85903	16 26 26.27	+12 34 33.4			056
(148)	1980 04 16.84132	16 26 02.97	+12 42 37.8			056
(148)	1980 04 16.85938	16 26 02.58	+12 42 46.3			056
(148)	1980 05 12.88715	16 09 45.53	+15 28 02.2		S	056
(148)	1980 05 12.91146	16 09 44.31	+15 28 07.7		S	056
(198)	1980 11 11.85660	03 24 46.94	+29 26 41.5		S	056
(198)	1980 11 11.89410	03 24 44.55	+29 26 19.6		S	056
(389)	1978 02 06.96007	07 34 17.12	+17 19 30.0			056
(389)	1978 02 06.98576	07 34 15.93	+17 19 28.1			056
(389)	1978 02 12.93021	07 29 59.41	+17 16 30.3			056
(389)	1980 09 16.89306	23 15 38.39	+08 19 09.0		R	056
(389)	1980 11 02.77014	22 52 56.09	+04 27 52.7			056
(480)	1979 08 31.95833	20 21 53.01	+13 19 23.1			056
(480)	1979 10 26.78819	20 31 30.10	+06 11 05.6			056
(480)	1979 10 26.84375	20 31 32.76	+06 10 51.8			056
(480)	1979 10 27.80903	20 32 20.54	+06 05 39.0			056
(480)	1980 12 03.97778	04 28 42.76	+14 13 07.1			056
(480)	1980 12 12.98264	04 20 17.09	+12 41 35.5			056
(480)	1980 12 13.04583	04 20 13.57	+12 41 01.9		b	056
(532)	1980 11 02.83542	02 38 25.78	-08 08 11.7			056
(704)	1980 11 14.07569	04 56 10.48	+37 15 04.8		R	056
(704)	1980 12 30.97882	04 14 22.65	+31 27 30.5			056

104 San Marcello Pistoiese
L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028
San Marcello Pistoiese (PT), Italy
Observers L. Tesi, P. Gigli
Measurers L. Tesi, G. Cattani
AGK3, SAOC

(1346)		1991 12 12.84722	02 01 09.78	-07 07 17.0			104
(1346)		1991 12 12.85625	02 01 09.82	-07 07 15.5			104
(2083)		1991 12 28.92569	05 06 32.79	+16 52 34.4			104
(2083)		1991 12 28.93600	05 06 32.02	+16 52 22.4			104
(2083)		1991 12 29.90486	05 05 26.90	+16 36 10.9			104
(2083)		1991 12 29.91319	05 05 26.31	+16 36 02.3			104
(2083)		1991 12 30.88542	05 04 23.16	+16 20 00.9			104
(2083)		1991 12 30.89308	05 04 22.66	+16 19 53.8			104

364 JCPM Kagoshima Station
M. Takeishi, Odori 4, Hamatonbetsu Esashigun, Hokkaido 098-57, Japan
Observer M. Mukai
Measurer M. Takeishi
0.25-m f/4.2 Wright-Schmidt telescope

1982 TT2		1991 10 13.57083	02 23 30.55	+21 46 14.4	16		364
1982 TT2		1991 10 13.58819	02 23 29.45	+21 46 18.9	16		364
1990 VH4		1992 01 26.58472	09 30 13.90	+19 08 56.4	17		364
1990 VH4		1992 01 26.60208	09 30 12.97	+19 09 03.8			364
1990 VH4		1992 01 27.57847	09 29 24.62	+19 13 26.6	17		364
1990 VH4		1992 01 27.59583	09 29 23.77	+19 13 31.3			364
1991 UV2		1991 11 01.62153	03 53 55.70	+15 26 27.7	16.5		364
1991 UV2		1991 11 01.63889	03 53 54.83	+15 26 33.2	16.5		364
1991 WB		1992 01 07.45451	05 15 22.64	+39 49 15.7	16.5		364
1991 WB		1992 01 07.46840	05 15 21.33	+39 49 28.1	16.5		364
1991 WB		1992 01 12.49479	05 08 59.57	+40 52 24.1	17		364
1991 WB		1992 01 12.50868	05 08 58.55	+40 52 34.6	17		364
1992 AC		1992 01 24.52049	09 32 39.44	+21 51 18.1			364
1992 AC		1992 01 24.52882	09 32 40.60	+21 51 51.5			364
1992 AC		1992 01 26.50590	09 37 10.21	+23 57 27.7			364
1992 AC		1992 01 26.51146	09 37 11.03	+23 57 50.3			364
1992 AC		1992 01 27.48785	09 39 27.08	+25 00 54.9			364
1992 AC		1992 01 27.49340	09 39 27.84	+25 01 17.1			364
1992 BR	*	1992 01 26.61771	10 07 39.14	+09 51 34.0	17		364
1992 BR		1992 01 26.63160	10 07 38.47	+09 51 35.9			364
1992 BR		1992 01 27.61285	10 06 53.37	+09 51 43.2	17		364
1992 BR		1992 01 27.62674	10 06 52.72	+09 51 42.1			364
1992 BY	*	1992 01 28.57118	10 23 36.44	+08 16 07.3	16.5		364
1992 BY		1992 01 28.58507	10 23 35.86	+08 16 10.9			364
1992 BY		1992 02 01.56632	10 21 42.33	+08 49 49.1			364
1992 BY		1992 02 01.58021	10 21 41.84	+08 49 55.0			364
(452)		1992 01 26.58472	09 31 15.45	+18 08 46.6	16		364
(452)		1992 01 26.60208	09 31 14.65	+18 08 52.4			364
(452)		1992 01 27.57847	09 30 27.28	+18 13 49.3	16		364
(452)		1992 01 27.59583	09 30 26.38	+18 13 55.3			364
(759)		1992 01 28.57118	10 21 22.37	+05 49 26.4	16.5		364
(759)		1992 01 28.58507	10 21 21.97	+05 49 27.8			364
(759)		1992 02 01.59479	10 17 53.34	+05 47 01.9	16		364
(759)		1992 02 01.60868	10 17 52.53	+05 47 01.5			364
(1135)		1992 01 26.58472	09 28 50.73	+19 13 51.9			364
(1135)		1992 01 26.60208	09 28 49.75	+19 13 55.4			364
(1135)		1992 01 27.57847	09 27 56.02	+19 17 21.6			364
(1135)		1992 01 27.59583	09 27 55.03	+19 17 26.1			364
(1560)		1992 01 27.51771	09 35 44.13	+09 39 03.6	16.5		364

(1560)	1992 01 27.53160	09 35 43.17	+09 39 04.8				364
(1678)	1992 01 28.50660	09 49 00.17	+22 38 10.5	16			364
(1678)	1992 01 28.52049	09 48 59.65	+22 38 13.9				364
(1912)	1992 01 27.57847	09 33 53.08	+18 44 01.2	16.5			364
(1912)	1992 01 27.59583	09 33 52.16	+18 44 05.7				364
(2086)	1992 01 07.50451	07 33 47.53	+16 32 16.5	16			364
(2086)	1992 01 07.52188	07 33 46.50	+16 32 24.7	16			364
(3324)	1992 01 28.57118	10 23 36.97	+07 34 47.6	16.5			364
(3324)	1992 01 28.58507	10 23 36.27	+07 34 49.7				364
(3324)	1992 02 01.56632	10 20 26.81	+07 33 45.0				364
(3324)	1992 02 01.58021	10 20 26.11	+07 33 46.4				364
(4687)	1992 01 27.51771	09 34 11.75	+09 45 12.2	17			364
(4687)	1992 01 27.53160	09 34 11.11	+09 45 19.7				364

366 Miyasaka Observatory
S. Miyasaka, 3-8-501, 4 Chome, Nagayama, Tama, Tokyo 206, Japan
Observer S. Miyasaka
0.25-m reflector
PPM

1931 UD	1991 12 13.80708	07 38 37.94	+39 32 15.5				366
1931 UD	1991 12 30.71160	07 19 27.94	+39 56 17.9				366
1931 UD	1991 12 30.73520	07 19 26.01	+39 56 15.2			F	366
1984 FS	1991 12 14.70636	05 55 06.39	+03 19 40.9				366
1984 FS	1991 12 14.73084	05 55 05.07	+03 19 44.4				366
1984 FS	1991 12 28.64570	05 41 56.07	+04 06 42.8				366
1984 FS	1991 12 28.66737	05 41 54.96	+04 06 46.4				366
1984 FS	1991 12 30.62224	05 40 08.37	+04 16 47.2				366
1984 FS	1991 12 30.64329	05 40 07.23	+04 16 53.9				366
5119 T-3	1992 01 02.57552	05 41 40.04	-22 44 15.0				366
5119 T-3	1992 01 02.59661	05 41 39.21	-22 44 03.5				366
5119 T-3	1992 01 03.57807	05 40 58.30	-22 37 07.8				366
(139)	1991 12 13.80708	07 36 20.25	+38 42 01.4				366
(139)	1991 12 13.83007	07 36 19.19	+38 42 08.0				366
(139)	1991 12 30.71160	07 20 28.97	+39 48 56.3				366
(139)	1991 12 30.73520	07 20 27.34	+39 49 00.0				366

367 Yatsuka
S. Miyasaka, 3-8-501, 4 Chome, Nagayama, Tama, Tokyo 206, Japan
Observer H. Abe
Measurer S. Miyasaka
0.26-m reflector

1931 UD	1992 01 11.59583	07 04 03.06	+39 36 08.3				367
1931 UD	1992 01 11.60625	07 04 02.43	+39 36 03.9				367
1931 UD	1992 01 11.61667	07 04 01.41	+39 36 03.3				367
(139)	1992 01 11.59583	07 06 20.77	+40 03 31.8				367
(139)	1992 01 11.60625	07 06 20.00	+40 03 32.1				367
(139)	1992 01 11.61667	07 06 19.27	+40 03 31.5				367

372 Geisei
T. Seki, Kamimachi 2-9-35, Kochi, Japan
0.60-m reflector

1979 SS	1992 01 12.67813	09 43 28.38	+17 47 18.5	18			372
1979 SS	1992 01 14.70486	09 41 53.13	+17 52 49.5	18			372
1980 PV1	1992 01 12.62466	07 14 39.79	+22 05 47.8				372
1980 PV1	1992 01 12.63576	07 14 39.11	+22 05 47.2				372
1982 WE	1991 12 30.70625	10 40 32.94	+29 38 03.5	18			372
1982 WE	1991 12 30.71771	10 40 33.08	+29 38 08.4				372
1982 WE	1992 01 12.72708	10 41 06.13	+31 29 49.1	18		d	372
1982 WE	1992 01 12.73958	10 41 06.04	+31 29 56.0			d	372

1987 OM		1992	01	12.62466	07	13	14.40	+22	17	30.5	16.5		372
1987 OM		1992	01	12.63576	07	13	13.42	+22	17	35.2			372
1987 OM		1992	01	14.73118	07	10	46.48	+22	28	42.0	16.5		372
1987 OM		1992	01	14.75347	07	10	44.73	+22	28	49.9			372
1987 YK		1991	12	04.71285	06	41	12.39	+26	05	38.0	18		372
1987 YK		1991	12	09.68021	06	36	41.68	+26	22	22.6	17.5		372
1987 YK		1991	12	09.69062	06	36	41.07	+26	22	26.9			372
1987 YK		1991	12	30.64271	06	13	49.43	+27	18	58.0	17		372
1987 YK		1991	12	30.65347	06	13	48.68	+27	19	00.4			372
1988 BN		1991	12	09.70417	07	33	05.17	+59	09	50.5	17		372
1988 BN		1991	12	09.71459	07	33	04.43	+59	09	53.9			372
1988 BN		1991	12	29.69173	06	56	19.67	+58	48	57.0	17		372
1988 BN		1991	12	29.70313	06	56	17.94	+58	48	54.7			372
1988 BN		1992	01	02.52951	06	48	12.40	+58	23	44.4	17		372
1990 VH4		1992	01	12.67813	09	40	06.38	+18	08	56.7	16.5		372
1990 VH4		1992	01	14.70486	09	38	53.12	+18	17	08.2	16.5		372
1990 VH4		1992	01	15.80035	09	38	11.42	+18	21	37.0	16		372
1991 XU		1992	01	12.62466	07	11	33.38	+22	27	45.5	15.5		372
1991 XU		1992	01	12.63576	07	11	32.54	+22	27	43.2			372
1991 XU		1992	01	14.73118	07	09	11.15	+22	20	31.3	15		372
1991 XU		1992	01	14.75347	07	09	09.77	+22	20	25.8			372
1991 YE		1992	01	12.62466	07	12	36.89	+22	42	02.8	16.5		372
1991 YE		1992	01	12.63576	07	12	36.30	+22	42	05.5			372
1991 YE		1992	01	14.73118	07	10	30.90	+22	51	04.4	17		372
1991 YE		1992	01	14.75347	07	10	29.37	+22	51	09.9			372
1992 AC		1992	01	15.72813	09	14	06.59	+13	28	20.1	13.5		372
1992 AC		1992	01	15.73229	09	14	07.17	+13	28	33.3			372
1992 AC		1992	01	15.73645	09	14	07.61	+13	28	45.5			372
1992 AC		1992	01	15.73958	09	14	07.93	+13	28	55.2			372
1992 AC		1992	01	15.74653	09	14	08.59	+13	29	15.4			372
1992 AD		1992	01	23.52118	08	07	13.88	+20	31	32.2	16.5		372
1992 AD		1992	01	27.54583	08	05	58.29	+20	40	54.3	16.5	d	372
1992 AP1	*	1992	01	12.62466	07	13	58.96	+21	58	16.2	17		372
1992 AP1		1992	01	12.63576	07	13	58.12	+21	58	17.7			372
1992 AP1		1992	01	14.73118	07	12	06.80	+22	01	00.8	17		372
1992 AP1		1992	01	14.75347	07	12	05.39	+22	01	04.8			372
1992 AQ1	*	1992	01	12.67813	09	42	01.51	+17	46	40.7	17		372
1992 AQ1		1992	01	14.70486	09	40	57.22	+18	02	27.4	17		372
1992 AQ1		1992	01	15.80035	09	40	19.58	+18	11	09.2	17		372
3241 T-3		1992	01	12.70208	09	49	00.08	+17	11	44.8	18.5		372
3241 T-3		1992	01	12.71458	09	48	59.58	+17	11	49.1			372
3241 T-3		1992	01	15.77465	09	46	35.83	+17	26	38.6	18.5		372
3241 T-3		1992	01	15.78507	09	46	35.27	+17	26	41.8			372
(1135)		1992	01	14.70486	09	38	37.89	+18	32	56.1	15		372
(1135)		1992	01	15.80035	09	37	49.99	+18	36	30.8	15		372
(1684)		1992	01	12.62466	07	10	56.59	+22	37	03.5	16.5		372
(1684)		1992	01	12.63576	07	10	55.94	+22	37	05.0			372
(1684)		1992	01	14.73118	07	09	06.65	+22	41	48.6	16		372
(1684)		1992	01	14.75347	07	09	05.53	+22	41	51.0			372
(1912)		1992	01	09.76250	09	45	54.80	+17	23	28.8	17		372
(1912)		1992	01	09.77604	09	45	54.43	+17	23	31.6			372
(1912)		1992	01	12.67813	09	44	21.19	+17	35	23.8	16.5		372
(1912)		1992	01	14.70486	09	43	09.82	+17	44	05.5			372
(1912)		1992	01	15.80035	09	42	28.98	+17	48	53.6	16.5		372
(3219)		1992	01	12.62466	07	10	48.99	+22	51	16.4	17		372
(3219)		1992	01	12.63576	07	10	48.46	+22	51	15.6			372
(3219)		1992	01	14.73118	07	08	50.99	+22	50	44.5	17		372
(3219)		1992	01	14.75347	07	08	49.82	+22	50	43.9			372
(3326)		1992	01	12.70208	09	49	39.86	+17	21	33.2	16.5		372

(3326)		1992 01 12.71458	09 49 39.47	+17 21 36.7				372
(3326)		1992 01 15.77465	09 47 34.85	+17 33 07.1		16.5		372
(3326)		1992 01 15.78507	09 47 34.36	+17 33 11.1				372

376 Uenohara
N. Kawasato, 3-51, Hana-Koganei, Kodaira, Tokyo 187, Japan
GSC

1990 UY		1992 02 01.58021	08 36 57.41	+08 19 20.0				376
1990 UY		1992 02 01.58958	08 36 57.00	+08 19 23.2				376
1991 YD	*	1991 12 28.64132	07 45 14.57	+30 37 15.3		17		376
1991 YD		1991 12 28.66285	07 45 13.28	+30 37 18.8				376
1991 YD		1991 12 30.52882	07 43 24.98	+30 41 36.5				376
1991 YD		1991 12 30.55799	07 43 23.25	+30 41 40.8				376
1991 YD		1992 01 10.50799	07 31 29.93	+30 57 50.0				376
1991 YD		1992 01 10.52674	07 31 28.66	+30 57 51.1				376
1991 YD		1992 01 24.49271	07 16 18.49	+30 49 11.2				376
1991 YD		1992 01 24.51493	07 16 17.09	+30 49 08.5				376
1991 YD		1992 02 01.66736	07 09 16.83	+30 28 57.0				376
1991 YD		1992 02 07.65660	07 05 34.42	+30 08 23.2				376
1991 YD		1992 02 07.66840	07 05 34.01	+30 08 20.4				376
1992 AG1	*	1992 01 10.70660	08 22 54.14	+31 45 31.6		16.5		376
1992 AG1		1992 01 10.73368	08 22 52.75	+31 45 40.0				376
1992 AG1		1992 01 14.62951	08 19 28.42	+32 04 01.1				376
1992 AG1		1992 01 24.45868	08 10 28.76	+32 43 27.8				376
1992 AG1		1992 01 24.47951	08 10 27.45	+32 43 31.7				376
1992 AH1	*	1992 01 10.70660	08 25 25.45	+32 02 40.4		17		376
1992 AH1		1992 01 10.73368	08 25 23.84	+32 02 41.6				376
1992 AH1		1992 01 14.59688	08 21 23.63	+32 01 45.7				376
1992 AH1		1992 01 14.61840	08 21 22.03	+32 01 44.2				376
1992 AH1		1992 01 14.62951	08 21 21.26	+32 01 44.2				376
1992 AH1		1992 01 28.65104	08 05 48.09	+31 33 19.5				376
1992 AH1		1992 01 28.67257	08 05 46.46	+31 33 14.7				376
(243)		1992 01 28.46910	05 02 10.85	+23 59 54.4				376
(243)		1992 01 28.61354	05 02 09.74	+23 59 45.1				376

385 Nihondaira Observatory Oohira station
T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan
0.25-m f/3.4 hyperboloid astrocamera
GSC

1990 VF2		1992 02 02.53472	09 25 37.86	+09 56 06.3		17		385
1990 VF2		1992 02 02.55417	09 25 36.87	+09 56 11.1				385
1991 VN3		1991 12 12.56736	04 02 23.65	+24 37 59.4		16.5		385
1991 VN3		1991 12 12.57500	04 02 23.17	+24 38 02.1				385
1991 VN3		1991 12 13.54306	04 01 42.19	+24 42 08.0		16.5		385
1991 VN3		1991 12 13.55208	04 01 41.83	+24 42 11.0				385
1991 VN3		1991 12 28.56528	03 55 21.24	+25 40 40.2		17		385
1991 VN3		1991 12 28.57431	03 55 21.15	+25 40 44.0				385
1991 VN3		1991 12 29.45712	03 55 16.01	+25 43 57.3		17		385
1991 YB		1991 12 28.59306	06 51 28.25	+24 45 07.3		16		385
1991 YB		1991 12 28.61111	06 51 27.05	+24 45 05.2				385
1991 YC		1991 12 30.56632	07 54 17.60	+20 10 54.7		16.3		385
1991 YC		1991 12 30.57431	07 54 17.24	+20 11 03.2				385
1991 YD		1991 12 30.53611	07 43 24.50	+30 41 36.7		16.5		385
1991 YD		1991 12 30.55139	07 43 23.64	+30 41 42.2				385
1991 YD		1991 12 31.69332	07 42 14.17	+30 44 07.5		16.5		385
1991 YD		1991 12 31.70069	07 42 13.62	+30 44 08.9				385
1991 YG	*	1991 12 30.64722	06 57 42.70	+16 29 33.7		16		385
1991 YG		1991 12 30.66250	06 57 41.48	+16 29 34.2				385
1991 YG		1991 12 31.65903	06 56 37.76	+16 27 53.5		16.5		385

1991 YG		1991 12 31.66667	06 56 37.28	+16 27 52.3				385
1992 AF		1992 01 02.63345	08 08 57.3	+07 48 29	16.5		G	385
1992 AF		1992 01 02.64826	08 08 56.9	+07 48 26			G	385
1992 AF		1992 01 24.52332	07 51 10.03	+07 44 44.2	16			385
1992 AF		1992 01 24.53542	07 51 09.28	+07 44 45.9				385
1992 AB1		1992 01 24.47569	07 52 17.76	+12 51 33.1	16.5			385
1992 AB1		1992 01 24.49236	07 52 16.79	+12 51 31.8				385
1992 AB1		1992 01 25.53958	07 51 10.37	+12 52 45.8	17			385
1992 AB1		1992 02 02.48889	07 43 19.07	+13 03 59.5	17			385
1992 AS1		1992 02 02.52500	09 12 43.88	+10 11 12.8	16			385
1992 AS1		1992 02 02.54444	09 12 42.66	+10 11 24.0				385
1992 BG	*	1992 01 24.47569	07 50 03.95	+12 50 42.9	16.5			385
1992 BG		1992 01 24.49236	07 50 02.74	+12 50 51.0				385
1992 BG		1992 01 25.52431	07 48 59.00	+12 59 03.7	16.5			385
1992 BG		1992 01 25.53958	07 48 57.85	+12 59 10.0				385
1992 BG		1992 02 02.48125	07 41 08.34	+14 04 16.2	17			385
1992 BG		1992 02 02.48889	07 41 07.79	+14 04 20.3				385
1992 BH	*	1992 01 24.47569	07 55 40.64	+10 35 26.7	17			385
1992 BH		1992 01 24.49236	07 55 40.05	+10 35 35.2				385
1992 BH		1992 01 25.53194	07 54 49.03	+10 45 04.6	16.8			385
1992 BH		1992 01 25.53958	07 54 48.66	+10 45 09.9				385
1992 BH		1992 02 02.50833	07 48 34.93	+12 00 01.3	16			385
1992 BH		1992 02 02.51597	07 48 34.67	+12 00 04.5				385

391 Sendai Observatory, Ayashi Station
M. Koishikawa, Sendai Municipal Observatory, 1-1 Sakuragaoka-koen, Sendai 980, Japan

1992 AC		1992 01 10.59062	09 04 17.66	+09 29 56.3	12			391
1992 AC		1992 01 10.60104	09 04 18.77	+09 30 23.5				391
1992 AC		1992 01 10.66215	09 04 25.02	+09 32 58.0				391
1992 AC		1992 01 10.67257	09 04 26.08	+09 33 24.0				391
1992 AC		1992 01 10.68924	09 04 27.85	+09 34 06.2				391
1992 AC		1992 01 11.68854	09 06 19.93	+10 17 07.5	12			391
1992 AC		1992 01 11.69896	09 06 20.91	+10 17 34.5				391
1992 AC		1992 01 12.60000	09 08 04.29	+10 57 50.5	12			391
1992 AC		1992 01 12.60208	09 08 04.51	+10 57 54.1				391
1992 AC		1992 01 12.60972	09 08 05.27	+10 58 15.8				391
1992 AC		1992 01 23.54861	09 30 29.25	+20 50 49.7				391
1992 AC		1992 01 23.55555	09 30 30.02	+20 51 16.4				391
1992 AC		1992 01 23.56250	09 30 30.91	+20 51 41.6				391
1992 AC		1992 01 24.54444	09 32 42.29	+21 52 48.0				391
1992 AC		1992 01 24.55139	09 32 43.15	+21 53 14.0				391
1992 AC		1992 01 24.55833	09 32 44.02	+21 53 41.0				391
1992 AC		1992 01 24.61215	09 32 50.73	+21 57 06.4				391
1992 AC		1992 01 24.61944	09 32 51.60	+21 57 32.4				391
1992 AC		1992 01 24.62639	09 32 52.46	+21 57 58.8				391
1992 AC		1992 01 26.55139	09 37 15.92	+24 00 27.2				391
1992 AC		1992 01 28.58056	09 42 00.44	+26 12 13.6				391
1992 AC		1992 01 28.58993	09 42 01.62	+26 12 50.5				391
1992 AC		1992 01 29.57708	09 44 23.12	+27 17 31.9				391
1992 AC		1992 01 29.58542	09 44 24.18	+27 18 05.2				391
1992 AC		1992 01 29.59375	09 44 25.31	+27 18 38.9				391
1992 AC		1992 01 29.61944	09 44 28.70	+27 20 20.1				391
1992 AC		1992 01 29.62639	09 44 29.61	+27 20 47.6				391

399 Kushiro
H. Kaneda, Taiyo MS 2-H, 2 chome 2-15, kawazoe 8 jo, Minami-ku, Sapporo 005, Japan
Observer S. Ueda

Measurer H. Kaneda
0.25-m f/3.5 reflector
GSC

1988 BO5		1992 01 24.40347	06 40 30.38	+26 18 43.7	17	399
1988 BO5		1992 01 24.42049	06 40 29.71	+26 18 43.2		399
1988 BO5		1992 01 24.54757	06 40 24.00	+26 18 39.5		399
1990 UE		1992 01 28.60602	09 47 15.15	+19 07 36.7	17	399
1990 UE		1992 01 28.62118	09 47 14.28	+19 07 41.3		399
1990 UE		1992 01 29.59381	09 46 17.15	+19 13 04.5	16.5	399
1990 UE		1992 01 29.60926	09 46 16.16	+19 13 10.6		399
1990 XH		1992 01 28.56887	09 29 09.98	+07 19 39.9	16.5	399
1990 XH		1992 01 28.58438	09 29 09.22	+07 19 45.2		399
1990 XH		1992 01 29.55694	09 28 28.32	+07 24 56.4	16	399
1990 XH		1992 01 29.57199	09 28 27.56	+07 25 00.1		399
1990 XH		1992 02 02.55208	09 25 36.01	+07 47 00.8	17	399
1990 XH		1992 02 02.56736	09 25 35.15	+07 47 07.0		399
1991 RD16		1991 09 07.62633	00 14 56.37	-01 56 35.2	16.5	399
1991 RD16		1991 09 07.64178	00 14 55.79	-01 56 43.3		399
1991 RK16		1991 09 07.62633	00 22 04.92	-02 39 22.3	16.5	399
1991 RK16		1991 09 07.64178	00 22 04.25	-02 39 27.8		399
1991 UB4	*	1991 10 31.65463	02 37 30.28	+12 18 29.6	16.5	399
1991 UB4		1991 10 31.67025	02 37 29.44	+12 18 24.0		399
1991 UB4		1991 11 04.53542	02 34 02.27	+11 57 16.2	16.5	399
1991 UB4		1991 11 04.55035	02 34 01.38	+11 57 10.3		399
1991 UB4		1991 11 09.56383	02 29 33.56	+11 30 14.6	17	399
1991 UB4		1991 11 09.58160	02 29 32.55	+11 30 10.3		399
1991 UC4	*	1991 10 31.51733	02 24 58.18	+18 24 29.4	17	399
1991 UC4		1991 10 31.53299	02 24 57.47	+18 24 18.2		399
1991 UC4		1991 11 04.46528	02 22 18.37	+17 45 15.7	17	399
1991 UC4		1991 11 04.48021	02 22 17.69	+17 45 05.5		399
1991 UC4		1991 11 09.52778	02 18 59.96	+16 53 36.9	17	399
1991 UC4		1991 11 09.54277	02 18 59.38	+16 53 25.7		399
1991 UD4		1991 10 29.51846	02 31 38.54	+15 11 22.4	17	399
1991 UD4		1991 10 29.53171	02 31 37.61	+15 11 18.5		399
1991 UD4	*	1991 10 31.55208	02 29 26.94	+15 03 21.4	17	399
1991 UD4		1991 10 31.56713	02 29 26.16	+15 03 18.8		399
1991 UD4		1991 11 09.52778	02 20 05.23	+14 27 57.0	17	399
1991 UD4		1991 11 09.54277	02 20 04.40	+14 27 55.0		399
1991 VH4	*	1991 11 09.60307	04 07 55.13	+14 26 45.1	17	399
1991 VH4		1991 11 09.62049	04 07 54.10	+14 26 42.7		399
1991 VH4		1991 11 11.56806	04 06 16.53	+14 24 02.3	17	399
1991 VH4		1991 11 11.58333	04 06 15.63	+14 24 00.0		399
1991 VH4		1991 11 13.56250	04 04 34.28	+14 21 22.7	17	399
1991 VH4		1991 11 13.57743	04 04 33.34	+14 21 23.8		399
1991 VH4		1991 12 05.59931	03 45 09.87	+14 02 45.6	17.5	399
1991 VH4		1991 12 05.61424	03 45 09.26	+14 02 44.4		399
1991 VH4		1991 12 07.50417	03 43 38.83	+14 02 33.0	17	399
1991 VO4		1991 11 09.60307	04 07 52.33	+13 14 17.8	17	399
1991 VO4		1991 11 09.62049	04 07 51.43	+13 14 05.2		399
1991 VX4	*	1991 11 04.50139	02 43 37.30	+21 35 45.7	17	399
1991 VX4		1991 11 04.51632	02 43 36.14	+21 35 47.6		399
1991 VX4		1991 11 05.49931	02 42 33.54	+21 39 32.1	17	399
1991 VX4		1991 11 05.51528	02 42 32.60	+21 39 35.5		399
1991 VC5		1991 11 09.56383	02 37 08.18	+13 06 41.8	16.5	399
1991 VC5		1991 11 09.58160	02 37 07.10	+13 06 42.4		399
1991 VH5	*	1991 11 11.56806	04 05 36.62	+15 54 02.8	17.5	399
1991 VH5		1991 11 11.58333	04 05 35.48	+15 53 57.2		399
1991 VH5		1991 11 13.56250	04 03 29.82	+15 44 03.5	17.5	399
1991 VH5		1991 11 13.57743	04 03 28.92	+15 43 59.1		399

1991 VD7	*	1991	11	04.57014	02	42	31.65	+05 16 50.9	17	399
1991 VD7		1991	11	04.58507	02	42	30.65	+05 16 51.4		399
1991 VD7		1991	11	11.53021	02	35	11.46	+05 09 09.3	17.5	399
1991 VD7		1991	11	11.54583	02	35	10.65	+05 09 11.1		399
1991 WC		1991	12	04.58542	05	11	05.61	+21 30 52.2	16	399
1991 WC		1991	12	04.59653	05	11	04.81	+21 30 53.5		399
1991 WC		1991	12	05.49363	05	10	01.80	+21 31 50.1	16	399
1991 WC		1991	12	05.50833	05	10	00.63	+21 31 51.4		399
1991 XF	*	1991	12	04.54653	04	12	14.86	+21 08 35.0	17	399
1991 XF		1991	12	04.56146	04	12	13.85	+21 08 37.9		399
1991 XF		1991	12	05.55278	04	11	10.94	+21 11 52.5	17	399
1991 XF		1991	12	05.56777	04	11	09.86	+21 11 56.9		399
1991 XF		1991	12	14.65069	04	02	19.92	+21 41 37.9	17	399
1991 XF		1991	12	14.66979	04	02	19.09	+21 41 41.0		399
1991 XG	*	1991	12	04.54653	04	15	02.65	+20 08 32.4	17	399
1991 XG		1991	12	04.56146	04	15	01.70	+20 08 27.4		399
1991 XG		1991	12	05.55278	04	14	00.57	+20 03 03.3	17	399
1991 XG		1991	12	05.56777	04	13	59.64	+20 02 58.3		399
1991 XG		1991	12	14.65069	04	05	27.30	+19 15 53.1	17	399
1991 XG		1991	12	14.66979	04	05	26.28	+19 15 47.4		399
1991 XJ	*	1991	12	04.54653	04	05	08.68	+19 17 55.0	17	399
1991 XJ		1991	12	04.56146	04	05	07.70	+19 17 47.1		399
1991 XJ		1991	12	05.55278	04	04	09.85	+19 11 58.1	17	399
1991 XJ		1991	12	05.56777	04	04	09.11	+19 11 52.5		399
1991 XK	*	1991	12	04.54653	04	10	06.64	+19 55 27.0	17	399
1991 XK		1991	12	04.56146	04	10	05.69	+19 55 23.1		399
1991 XK		1991	12	05.55278	04	09	00.38	+19 50 02.6	17	399
1991 XK		1991	12	05.56777	04	08	59.31	+19 49 57.9		399
1991 XL	*	1991	12	04.54653	04	11	16.70	+19 27 01.2	17	399
1991 XL		1991	12	04.56146	04	11	15.61	+19 27 00.9		399
1991 XL		1991	12	05.55278	04	10	09.21	+19 26 27.4	17	399
1991 XL		1991	12	05.56777	04	10	08.37	+19 26 27.5		399
1991 XM	*	1991	12	04.54653	04	14	05.72	+19 45 01.1	17	399
1991 XM		1991	12	04.56146	04	14	04.98	+19 44 53.7		399
1991 XM		1991	12	05.55278	04	13	09.93	+19 37 53.1	17	399
1991 XM		1991	12	05.56777	04	13	09.16	+19 37 47.4		399
1991 XM		1991	12	14.65069	04	05	20.44	+18 35 49.2	17	399
1991 XM		1991	12	14.66979	04	05	19.58	+18 35 40.0		399
1991 XO	*	1991	12	04.54653	04	13	14.60	+20 02 47.8	17	399
1991 XO		1991	12	04.56146	04	13	13.63	+20 02 46.2		399
1991 XO		1991	12	05.55278	04	12	22.51	+20 00 10.2	17.5	399
1991 XO		1991	12	05.56777	04	12	21.59	+20 00 07.9		399
1991 XP	*	1991	12	05.42917	03	14	39.51	+17 30 48.3	17	399
1991 XP		1991	12	05.44375	03	14	38.88	+17 30 45.4		399
1991 XP		1991	12	07.47083	03	13	10.51	+17 17 47.9	17	399
1991 XP		1991	12	07.48576	03	13	09.80	+17 17 42.5		399
1991 XP		1991	12	09.52361	03	11	49.08	+17 05 24.1	17	399
1991 XP		1991	12	09.53854	03	11	48.31	+17 05 17.3		399
1991 XQ	*	1991	12	05.42917	03	21	50.28	+17 29 39.6	16.5	399
1991 XQ		1991	12	05.44375	03	21	49.48	+17 29 35.7		399
1991 XQ		1991	12	07.47083	03	20	19.32	+17 20 45.0	17	399
1991 XQ		1991	12	07.48576	03	20	18.61	+17 20 40.0		399
1991 XQ		1991	12	09.52361	03	18	55.40	+17 12 20.1	17	399
1991 XQ		1991	12	09.53854	03	18	54.71	+17 12 15.6		399
1991 XS		1991	11	11.60417	03	56	50.65	+20 20 43.3	17.5	399
1991 XS		1991	11	11.61910	03	56	50.00	+20 20 38.0		399
1991 XS		1991	11	13.52922	03	55	16.77	+20 09 21.9	17.5	399
1991 XS		1991	11	13.54421	03	55	15.97	+20 09 15.1		399
1991 XS	*	1991	12	05.64028	03	36	50.13	+17 52 48.0	17.5	399

1991 XS		1991 12 05.65521	03 36 49.14	+17 52 40.1				399
1991 XS		1991 12 07.54063	03 35 25.00	+17 41 34.0		17		399
1991 XS		1991 12 07.55764	03 35 24.27	+17 41 29.5				399
1991 XS		1991 12 14.61476	03 30 40.59	+17 02 11.1		17.5		399
1991 XS		1991 12 14.63021	03 30 39.89	+17 02 07.5				399
1991 XT	*	1991 12 09.59931	08 03 14.63	+27 24 48.9		16.5		399
1991 XT		1991 12 09.62083	08 03 14.19	+27 24 52.4				399
1991 XT		1991 12 14.69861	08 00 54.45	+27 34 47.9		16.5		399
1991 XT		1991 12 14.72049	08 00 53.71	+27 34 51.5				399
1991 XT		1991 12 30.58681	07 49 48.47	+28 06 29.5		15.5		399
1991 XT		1991 12 30.60174	07 49 47.59	+28 06 31.9				399
1991 XT		1992 01 02.54097	07 47 14.07	+28 11 37.7		16		399
1991 XT		1992 01 02.55590	07 47 13.41	+28 11 39.5				399
1991 XT		1992 01 14.70903	07 35 47.55	+28 26 57.1		15.5		399
1991 XT		1992 01 14.72465	07 35 46.58	+28 26 58.8				399
1991 XV	*	1991 12 04.47292	02 19 35.83	+19 53 36.5		17		399
1991 XV		1991 12 04.49410	02 19 34.93	+19 53 33.3				399
1991 XV		1991 12 07.62986	02 17 37.36	+19 41 05.0		17		399
1991 XV		1991 12 07.65116	02 17 36.42	+19 41 01.9				399
1991 YD		1991 12 30.58681	07 43 21.18	+30 41 44.8		17		399
1991 YD		1991 12 30.60174	07 43 20.47	+30 41 46.1				399
1991 YH	*	1991 12 30.66950	09 28 13.03	+26 55 20.0		16.5		399
1991 YH		1991 12 30.69340	09 28 12.45	+26 55 29.0				399
1991 YH		1992 01 02.67153	09 26 54.42	+27 12 40.1		16.5		399
1991 YH		1992 01 02.69271	09 26 53.81	+27 12 47.2				399
1991 YH		1992 01 28.49514	09 03 46.27	+29 37 49.0		16		399
1991 YH		1992 01 28.51007	09 03 45.04	+29 37 54.3				399
1991 YH		1992 01 29.48056	09 02 37.10	+29 41 53.5		16.5		399
1991 YH		1992 01 29.49549	09 02 36.19	+29 41 58.1				399
1991 YZ	*	1991 12 30.58681	07 51 48.03	+28 12 36.6		17		399
1991 YZ		1991 12 30.60174	07 51 47.00	+28 12 37.5				399
1991 YZ		1992 01 02.54097	07 49 04.72	+28 13 39.8		17		399
1991 YZ		1992 01 02.55590	07 49 03.72	+28 13 40.8				399
1991 YZ		1992 01 14.70903	07 37 01.55	+28 11 31.0		16.5		399
1991 YZ		1992 01 14.72465	07 37 00.71	+28 11 27.9				399
1991 YA1	*	1991 12 30.62257	08 05 54.51	+29 50 21.3		17		399
1991 YA1		1991 12 30.64352	08 05 53.37	+29 50 26.8				399
1991 YA1		1992 01 02.57847	08 03 26.57	+29 58 59.1		16.5		399
1991 YA1		1992 01 02.59479	08 03 25.51	+29 59 03.2				399
1991 YA1		1992 01 24.44028	07 40 47.70	+30 27 32.7		17		399
1991 YA1		1992 01 24.45660	07 40 46.58	+30 27 32.0				399
1991 YA1		1992 01 25.42569	07 39 46.63	+30 26 51.5		16.5		399
1991 YA1		1992 01 25.44028	07 39 45.61	+30 26 50.5				399
1992 AD		1992 01 14.74688	08 09 59.02	+20 10 56.2		17		399
1992 AD		1992 01 14.76285	08 09 58.75	+20 10 58.1				399
1992 AD		1992 01 24.47986	08 06 55.81	+20 33 47.8		17		399
1992 AD		1992 01 24.49479	08 06 55.53	+20 33 50.0				399
1992 AD		1992 01 25.48174	08 06 36.85	+20 36 07.8		17		399
1992 AD		1992 01 25.49688	08 06 36.56	+20 36 09.9				399
1992 AH	*	1992 01 02.61632	08 46 33.35	+12 19 04.2		17		399
1992 AH		1992 01 02.63160	08 46 32.70	+12 19 06.6				399
1992 AH		1992 01 04.63264	08 45 12.66	+12 27 53.2		17		399
1992 AH		1992 01 04.64757	08 45 11.78	+12 27 57.7				399
1992 AJ	*	1992 01 02.61632	08 48 39.11	+10 11 25.8		17		399
1992 AJ		1992 01 02.63160	08 48 38.55	+10 11 29.9				399
1992 AJ		1992 01 04.63264	08 47 33.33	+10 21 32.5		16.5		399
1992 AJ		1992 01 04.64757	08 47 32.79	+10 21 39.5				399
1992 AJ		1992 01 24.51389	08 33 55.09	+12 26 26.0		16		399
1992 AJ		1992 01 24.52917	08 33 54.47	+12 26 32.3				399

1992 AJ		1992	01	28.45972	08	30	53.18	+12 54 59.5	16.5	399
1992 AJ		1992	01	28.47465	08	30	52.41	+12 55 06.5		399
1992 AW	*	1992	01	02.54097	07	48	13.37	+28 31 48.4	17.5	399
1992 AW		1992	01	02.55590	07	48	12.15	+28 31 49.3		399
1992 AW		1992	01	14.70903	07	32	43.92	+28 46 03.6	17	399
1992 AW		1992	01	14.72465	07	32	42.68	+28 46 04.7		399
1992 AX	*	1992	01	04.56319	08	29	18.65	+17 28 57.3	16.5	399
1992 AX		1992	01	04.57847	08	29	17.63	+17 29 08.8		399
1992 AX		1992	01	14.74688	08	18	08.00	+19 37 13.6	16	399
1992 AX		1992	01	14.76285	08	18	06.77	+19 37 28.5		399
1992 AX		1992	01	24.47986	08	04	47.60	+21 54 59.9	16	399
1992 AX		1992	01	24.49479	08	04	46.20	+21 55 13.5		399
1992 AX		1992	01	25.48171	08	03	20.50	+22 09 23.5	16	399
1992 AX		1992	01	25.49688	08	03	18.97	+22 09 40.6		399
1992 AX		1992	02	02.51539	07	51	41.87	+24 03 03.7	16.5	399
1992 AX		1992	02	02.53021	07	51	40.43	+24 03 14.7		399
1992 AJ1		1992	01	24.51389	08	33	49.05	+14 04 40.8	16.5	399
1992 AJ1		1992	01	24.52917	08	33	48.11	+14 04 41.6		399
1992 AR1	*	1992	01	14.74688	08	17	43.95	+17 53 32.0	16.5	399
1992 AR1		1992	01	14.76285	08	17	42.88	+17 53 32.5		399
1992 AR1		1992	01	24.47986	08	07	44.94	+17 47 47.1	16	399
1992 AR1		1992	01	24.49479	08	07	44.01	+17 47 45.2		399
1992 AR1		1992	01	25.48171	08	06	42.57	+17 47 15.0	16.5	399
1992 AR1		1992	01	25.49688	08	06	41.72	+17 47 13.4		399
1992 BJ	*	1992	01	24.47986	08	08	44.41	+19 52 08.5	17	399
1992 BJ		1992	01	24.49479	08	08	43.31	+19 52 12.1		399
1992 BJ		1992	01	25.48171	08	07	43.62	+19 57 19.1	17	399
1992 BJ		1992	01	25.49688	08	07	42.42	+19 57 23.5		399
1992 BM	*	1992	01	28.53056	09	18	03.98	+22 43 22.2	17	399
1992 BM		1992	01	28.54549	09	18	02.95	+22 43 27.2		399
1992 BM		1992	01	29.51736	09	16	53.75	+22 45 32.4	17	399
1992 BM		1992	01	29.53229	09	16	52.77	+22 45 33.4		399
1992 BN	*	1992	01	28.60602	09	46	08.75	+18 19 40.5	17	399
1992 BN		1992	01	28.62118	09	46	08.03	+18 19 47.7		399
1992 BN		1992	01	29.59381	09	45	25.47	+18 26 31.9	17	399
1992 BN		1992	01	29.60926	09	45	24.73	+18 26 37.7		399
1992 BO	*	1992	01	28.60602	09	53	31.43	+20 42 38.1	17	399
1992 BO		1992	01	28.62118	09	53	30.24	+20 42 43.7		399
1992 BO		1992	01	29.59381	09	52	34.09	+20 47 38.7	17	399
1992 BO		1992	01	29.60926	09	52	33.18	+20 47 45.6		399
1992 BP	*	1992	01	28.64097	10	51	39.08	+11 03 40.8	17	399
1992 BP		1992	01	28.66285	10	51	38.27	+11 03 40.9		399
1992 BP		1992	01	29.65145	10	50	59.68	+11 03 50.7	17	399
1992 BP		1992	01	29.67257	10	50	59.00	+11 03 50.9		399
1992 BQ	*	1992	01	28.68686	10	59	14.18	+10 13 38.2	17	399
1992 BQ		1992	01	28.70903	10	59	13.47	+10 13 40.7		399
1992 BQ		1992	01	29.65145	10	58	42.02	+10 15 09.6	17	399
1992 BQ		1992	01	29.67257	10	58	41.32	+10 15 14.3		399
1992 BS	*	1992	01	28.49514	09	08	59.26	+30 11 54.7	17	399
1992 BS		1992	01	28.51007	09	08	58.24	+30 12 02.4		399
1992 BS		1992	01	29.48056	09	07	51.90	+30 16 23.0	17	399
1992 BS		1992	01	29.49549	09	07	50.68	+30 16 27.5		399
1992 BT	*	1992	01	28.53053	09	09	36.73	+23 42 34.8	17	399
1992 BT		1992	01	28.54549	09	09	35.89	+23 42 34.8		399
1992 BT		1992	01	29.51736	09	08	39.46	+23 42 38.1	17	399
1992 BT		1992	01	29.53229	09	08	38.45	+23 42 38.8		399
1992 BU	*	1992	01	28.60602	09	46	55.14	+18 23 56.1	17	399
1992 BU		1992	01	28.62118	09	46	54.33	+18 23 57.9		399
1992 BU		1992	01	29.59381	09	46	00.15	+18 25 13.4	17.5	399

1992 BU		1992 01 29.60926	09 45 59.35	+18 25 13.5				399
1992 BX	*	1992 01 28.56887	09 22 20.45	+05 26 35.8		16.5		399
1992 BX		1992 01 28.58438	09 22 19.48	+05 26 33.8				399
1992 BX		1992 02 02.55208	09 16 57.19	+05 13 29.4		16.5		399
1992 BX		1992 02 02.56736	09 16 56.32	+05 13 29.6				399
1992 BZ	*	1992 01 28.60602	09 53 38.75	+18 02 46.1		17		399
1992 BZ		1992 01 28.62118	09 53 37.80	+18 02 53.5				399
1992 BZ		1992 01 29.59381	09 52 48.83	+18 08 46.1		17		399
1992 BZ		1992 01 29.60926	09 52 47.98	+18 08 52.4				399
1992 BD1	*	1992 01 28.60602	09 46 47.46	+20 09 30.9		17		399
1992 BD1		1992 01 28.62118	09 46 46.76	+20 09 32.4				399
1992 BD1		1992 01 29.59381	09 45 47.59	+20 11 40.1		17		399
1992 BD1		1992 01 29.60926	09 45 46.50	+20 11 43.3				399

400 Kitami
K. Watanabe, 3-8 Mason Hashimoto B-203, atsubetsu cyuo 3 jo 4 chome, Atsubetsu-ku, Sapporo 004, Japan
Observers K. Endate, T. Fujii
Measurers K. Watanabe, H. Kaneda
0.20-m f/4.0 reflector
GSC

1985 CZ1		1992 01 06.62118	08 46 19.36	+19 20 35.9		16.0		400
1985 CZ1		1992 01 06.64201	08 46 18.33	+19 20 35.1				400
1990 UE		1989 04 12.58160	12 33 24.26	-01 12 49.5		16		400
1990 UE		1989 04 12.59896	12 33 23.16	-01 12 45.2				400
1991 UO2		1991 12 02.49062	02 53 02.50	+08 20 50.4		16.5		400
1991 UO2		1991 12 02.50729	02 53 01.86	+08 20 50.1				400
1991 UT3		1991 12 02.52222	03 08 07.48	+11 30 32.5		16.5		400
1991 UT3		1991 12 02.54063	03 08 06.59	+11 30 32.9				400
1991 VF4		1991 11 26.45590	02 44 41.26	+07 59 24.2		16.0		400
1991 VF4		1991 11 26.47604	02 44 40.37	+07 59 27.4				400
1991 VF4		1991 11 30.49861	02 41 39.77	+08 07 08.8		16.5		400
1991 VF4		1991 11 30.51632	02 41 39.06	+08 07 06.6				400
1991 YF	*	1991 12 26.47257	07 37 03.97	+24 47 58.0		16.0		400
1991 YF		1991 12 26.49340	07 37 02.66	+24 47 53.7				400
1991 YF		1991 12 27.47257	07 36 02.01	+24 45 43.1		16.0		400
1991 YF		1991 12 27.49167	07 36 00.70	+24 45 41.8				400
1991 YF		1992 01 24.50451	07 03 28.00	+23 17 10.8		16.0		400
1991 YF		1992 01 24.52257	07 03 26.88	+23 17 06.8				400
1992 AX		1992 01 06.58229	08 27 24.08	+17 52 32.7		16.0		400
1992 AX		1992 01 06.60313	08 27 22.73	+17 52 46.0				400
1992 AR1		1992 01 06.58229	08 25 18.42	+18 00 02.7		16.5		400
1992 AR1		1992 01 06.60313	08 25 17.23	+18 00 01.1				400
1992 AT1	*	1992 01 06.58229	08 20 41.17	+19 14 19.2		16.5		400
1992 AT1		1992 01 06.60313	08 20 39.80	+19 14 25.9				400
1992 AT1		1992 01 24.53785	08 01 37.41	+20 58 04.8		16.0		400
1992 AT1		1992 01 24.55451	08 01 36.56	+20 58 09.3				400
1992 AT1		1992 02 05.50104	07 49 37.80	+21 58 27.8		16.5		400
1992 AT1		1992 02 05.51840	07 49 36.84	+21 58 31.6				400
1992 BE1	*	1992 01 29.58924	10 15 18.03	+17 52 03.4		16.5		400
1992 BE1		1992 01 29.60938	10 15 17.03	+17 52 09.7				400
1992 BE1		1992 02 05.53299	10 09 16.17	+18 39 47.5		16.5		400
1992 BE1		1992 02 05.54896	10 09 15.33	+18 39 51.9				400

402 Dynic Astronomical Observatory
A. Sugie, Dynic Astronomical Observatory, Taga 270, Taga-Cho, Inukami-Gun, Shiga-Ken, 522-03, Japan
0.25-m f/3.4 Schmidt
PPM

1988 BK2		1991 11 30.60972	03	53	42.89	+26	07	17.2	17.0	402
1988 BK2		1991 11 30.62361	03	53	41.85	+26	07	23.2		402
1991 VN3		1991 11 30.63542	04	12	37.29	+23	41	59.2	17.0	402
1991 VN3		1991 11 30.64931	04	12	36.46	+23	42	04.2		402
1991 VG4	*	1991 11 05.65417	04	25	19.82	+27	08	30.2	17.5	402
1991 VG4		1991 11 05.66806	04	25	19.08	+27	08	25.9		402
1991 VG4		1991 11 09.61319	04	22	24.07	+26	39	24.5		402
1991 VG4		1991 11 09.62917	04	22	23.22	+26	39	17.7		402
1991 VG4		1991 11 30.60972	04	02	48.10	+23	25	17.9	17.0	402
1991 VG4		1991 11 30.62361	04	02	47.14	+23	25	09.7		402
1991 VJ4	*	1991 11 09.64028	04	33	03.57	+25	38	15.1	17.0	402
1991 VJ4		1991 11 09.65417	04	33	02.77	+25	38	18.7		402
1991 VJ4		1991 11 15.66597	04	26	24.94	+25	48	05.6		402
1991 VJ4		1991 11 15.68264	04	26	23.59	+25	48	08.2		402
1991 VK4	*	1991 11 09.64028	04	39	22.64	+27	43	15.6	16.5	402
1991 VK4		1991 11 09.65417	04	39	21.81	+27	43	14.6		402
1991 VK4		1991 11 12.55139	04	36	44.73	+27	38	43.7		402
1991 VK4		1991 11 12.56997	04	36	43.61	+27	38	40.8		402
1991 VK4		1991 11 15.66597	04	33	41.28	+27	32	31.1		402
1991 VK4		1991 11 15.68264	04	33	40.18	+27	32	29.7		402
1991 VK4		1991 11 30.63542	04	17	06.98	+26	43	47.0	16.5	402
1991 VK4		1991 11 30.64931	04	17	06.05	+26	43	43.6		402
1991 VL4	*	1991 11 09.64028	04	46	48.11	+25	56	46.4	17.5	402
1991 VL4		1991 11 09.65417	04	46	47.58	+25	56	46.0		402
1991 VL4		1991 11 15.66597	04	43	07.49	+26	10	35.6		402
1991 VL4		1991 11 15.68264	04	43	06.43	+26	10	32.2		402
1991 VM4	*	1991 11 09.64028	04	48	58.23	+25	35	30.6	17.5	402
1991 VM4		1991 11 09.65417	04	48	57.70	+25	35	32.6		402
1991 VM4		1991 11 15.66597	04	44	23.34	+25	44	27.8		402
1991 VM4		1991 11 15.68264	04	44	22.47	+25	44	28.8		402
1991 VV4	*	1991 11 09.64028	04	47	33.25	+26	10	36.9	17.5	402
1991 VV4		1991 11 09.65417	04	47	32.50	+26	10	38.1		402
1991 VV4		1991 11 15.66597	04	42	17.39	+26	16	50.2		402
1991 VV4		1991 11 15.68264	04	42	16.24	+26	16	49.4		402
1991 VA5	*	1991 11 04.60764	03	59	49.87	+08	08	07.1	17.0	402
1991 VA5		1991 11 04.62708	03	59	48.86	+08	08	09.8		402
1991 VA5		1991 11 05.62639	03	58	51.83	+08	10	28.0		402
1991 VA5		1991 11 05.64097	03	58	50.82	+08	10	29.1		402
1991 VA5		1991 11 30.65972	03	30	46.84	+09	51	17.5	17.0	402
1991 VA5		1991 11 30.67361	03	30	46.00	+09	51	24.4		402
1991 VB5	*	1991 11 04.60764	04	04	02.44	+04	52	36.6	17.0	402
1991 VB5		1991 11 04.62708	04	04	01.50	+04	52	25.7		402
1991 VB5		1991 11 05.62639	04	03	17.07	+04	41	32.3		402
1991 VB5		1991 11 05.64097	04	03	16.31	+04	41	23.1		402
1991 VB5		1991 11 30.58333	03	42	07.80	+01	06	32.4	17.0	402
1991 VB5		1991 11 30.59722	03	42	06.92	+01	06	27.3		402
1992 AD		1992 01 26.55278	08	06	16.94	+20	38	38.2	18.0	402
1992 AD		1992 01 26.57778	08	06	16.32	+20	38	40.1		402
1992 AJ		1992 01 10.73056	08	43	50.68	+10	55	25.7	16.5	402
1992 AJ		1992 01 10.74531	08	43	50.19	+10	55	31.6		402
1992 AJ		1992 01 11.62778	08	43	15.41	+11	00	48.0		402
1992 AJ		1992 01 11.64167	08	43	14.80	+11	00	53.4		402
1992 AC1	*	1992 01 10.60972	08	22	27.97	+09	43	05.5	16.5	402
1992 AC1		1992 01 10.62257	08	22	27.20	+09	43	00.1		402
1992 AC1		1992 01 11.60417	08	21	25.82	+09	38	17.5		402
1992 AC1		1992 01 11.61742	08	21	24.94	+09	38	14.2		402
1992 AC1		1992 01 26.52639	08	05	22.53	+08	46	01.8	16.5	402
1992 AC1		1992 01 26.54097	08	05	21.52	+08	46	01.7		402
1992 AD1	*	1992 01 10.60972	08	23	24.61	+09	17	44.8	16.0	402

1992 AD1		1992 01 10.62257	08 23 23.89	+09 17 42.5				402
1992 AD1		1992 01 11.60417	08 22 27.94	+09 14 37.2				402
1992 AD1		1992 01 11.61742	08 22 27.18	+09 14 34.1				402
1992 AD1		1992 01 26.52639	08 07 13.25	+08 41 08.7	16.0			402
1992 AD1		1992 01 26.54097	08 07 12.36	+08 41 09.1				402
1992 AJ1	*	1992 01 10.73056	08 46 58.42	+13 47 15.0	17.5			402
1992 AJ1		1992 01 10.74531	08 46 57.55	+13 47 13.4				402
1992 AJ1		1992 01 11.62778	08 46 12.37	+13 47 55.6				402
1992 AJ1		1992 01 11.64167	08 46 11.51	+13 47 56.5				402

403 Kani
T. Furuta, Mitsuike 17-2, Kakiya-Cho, Tokai, Aichi-Ken 477, Japan
Observers Y. Mizuno, T. Furuta
Measurer T. Furuta
0.25-m f/4.2 Wright-Schmidt camera
AGK3

1991 WC		1991 12 02.59410	05 13 25.1	+21 28 38	16.0			403
1991 WC		1991 12 04.66042	05 11 00.21	+21 30 57.3				403
1991 YF		1991 12 30.59306	07 32 39.51	+24 38 27.1	15.5		E	403
1991 YF		1991 12 30.60382	07 32 38.65	+24 38 24.8			E	403
1991 YF		1992 01 02.57865	07 29 15.39	+24 30 54.0			G	403
1991 YF		1992 01 02.59063	07 29 14.34	+24 30 50.2			G	403

411 Oizumi
T. Kobayashi, 1717-2 Shimo-Koizumi, Oizumi-machi, Ora-gun,
Gunma-ken, 370-05 Japan
0.16-m f/4.8 reflector + CCD
GSC

1992 AC		1992 01 24.59370	09 32 48.40	+21 55 56.2				411
1992 AC		1992 01 24.59464	09 32 48.54	+21 56 00.3				411
1992 AC		1992 01 24.59746	09 32 48.91	+21 56 10.9				411
1992 AC		1992 01 24.59841	09 32 49.05	+21 56 14.6				411
1992 AC		1992 01 24.59933	09 32 49.12	+21 56 18.1				411
1992 AC		1992 01 24.60027	09 32 49.27	+21 56 21.1				411
1992 AC		1992 01 25.54351	09 34 57.61	+22 55 56.4				411
1992 AC		1992 01 25.54453	09 34 57.75	+22 56 00.3				411
1992 AC		1992 01 25.54546	09 34 57.84	+22 56 03.8				411
1992 AC		1992 01 25.54792	09 34 58.16	+22 56 13.6				411
1992 AC		1992 01 25.54884	09 34 58.26	+22 56 16.9				411
1992 AC		1992 01 25.54976	09 34 58.40	+22 56 20.4				411

413 Siding Spring
R. H. McNaught, Siding Spring Observatory, Coonabarabran, N.S.W. 2357,
Australia
Observers J. A. Dawe, R. H. McNaught, K. S. Russell, S. D. Ryder,
D. I. Steel, S. B. Tritton
Measurer R. H. McNaught
1.2-m U.K. Schmidt, Uppsala Southern Schmidt, 1.0-m reflector + CCD

1983 NL		1979 05 28.64965	17 56 28.19	+00 37 59.8				413
1983 NL		1983 06 14.78177	20 56 12.05	-02 32 15.7				413
1990 SG4		1986 03 16.46684	10 51 30.17	-02 29 08.0			F	413
1990 SG4		1986 03 16.52934	10 51 26.03	-02 28 44.9			F	413
1991 TY		1991 12 21.57347	01 53 13.28	-23 28 34.7				413
1991 TY		1991 12 21.57634	01 53 13.41	-23 28 29.7				413
1991 TD1		1991 12 21.61192	02 49 53.69	-17 32 19.3				413
1991 TD1		1991 12 21.61622	02 49 53.78	-17 32 18.3				413
1991 UG1		1991 12 20.51883	01 09 09.70	-11 25 03.8				413
1991 UG1		1991 12 20.52060	01 09 09.73	-11 25 01.0				413
1991 UG1		1992 01 13.50381	01 32 27.24	-00 42 51.3				413

1991 UG1		1992 01 13.50571	01 32 27.37	-00 42 48.5				413
1991 UG1		1992 01 14.47370	01 33 34.76	-00 19 36.0				413
1991 UG1		1992 01 14.47779	01 33 35.05	-00 19 30.0				413
1991 VH		1992 01 14.48716	03 11 37.17	-11 33 06.2				413
1991 VH		1992 01 14.48911	03 11 37.42	-11 33 00.2				413
1991 VH		1992 01 15.51041	03 13 52.23	-10 40 40.4				413
1991 VH		1992 01 15.51422	03 13 52.72	-10 40 28.7				413
1991 VL		1982 08 20.49568	21 13 36.74	-12 19 02.1				413
1991 VL		1982 08 20.56513	21 13 28.42	-12 19 28.9				413
1991 WE	*	1991 11 28.55691	03 46 04.21	-18 41 39.7	17.5	V		413
1991 WE		1991 11 28.59858	03 46 01.13	-18 40 59.4				413
1991 WE		1991 11 29.46958	03 45 03.43	-18 27 21.7				413
1991 XB		1992 01 13.53479	05 03 47.58	-01 45 52.8				413
1991 XB		1992 01 13.53738	05 03 47.82	-01 45 54.4				413
1991 XB		1992 01 13.54023	05 03 48.09	-01 45 56.2				413
1991 XB		1992 01 14.50172	05 05 24.82	-01 54 48.0				413
1991 XB		1992 01 14.50409	05 05 25.05	-01 54 49.3				413
1991 XB		1992 01 15.55353	05 07 10.01	-02 03 38.0				413
1991 XB		1992 01 15.55877	05 07 10.54	-02 03 40.4				413
1992 AA		1991 12 08.49986	04 21 59.48	+02 12 36.0	15.0	V		413
1992 AA		1991 12 08.55194	04 21 58.63	+02 13 51.4				413
1992 AD		1992 01 18.59456	08 08 46.89	+20 20 00.7				413
1992 AD		1992 01 18.60329	08 08 46.72	+20 20 02.0				413
1992 AD		1992 01 18.61150	08 08 46.57	+20 20 03.0				413
1992 BB	*	1992 01 25.45292	05 38 40.95	-59 31 29.6	18	V		413
1992 BB		1992 01 25.49458	05 38 39.23	-59 31 05.2				413
1992 BB		1992 01 29.44822	05 37 08.10	-58 45 34.4				413
(2102)		1992 01 15.47061	02 03 32.38	-23 17 20.4				413
(2102)		1992 01 15.47230	02 03 32.23	-23 17 10.0				413
(4055)		1992 01 15.63801	08 20 18.59	-07 44 16.4				413
(4055)		1992 01 15.64079	08 20 18.38	-07 44 15.2				413
(4953)		1992 01 15.45025	00 12 03.00	-10 38 01.3				413
(4953)		1992 01 15.45418	00 12 03.19	-10 37 54.1				413

474 Mount John
A. C. Gilmore, P.O. Box 57, Lake Tekapo, New Zealand
Observer A. C. Gilmore
Measurer P. M. Kilmartin
0.6-m f/14 Cassegrain reflector
AGK3, SAOC, CPZ, field plates from Carter Observatory

1992 BB		1992 02 05.42534	05 36 55.93	-57 02 17.2				474
1992 BB		1992 02 05.45477	05 36 56.33	-57 01 46.2				474

494 Stakenbridge
B. Manning, Moonrakers, Stakenbridge, Churchill, Kidderminster, Worcs. DY10 3LS, England

(10)		1992 01 22.81066	02 51 20.71	+19 25 17.5	11.2	V		494
(10)		1992 01 22.84903	02 51 21.41	+19 25 18.1	11.2	V		494
(241)		1992 01 22.81066	02 52 15.11	+19 25 46.2	12.2	V		494
(241)		1992 01 22.84903	02 52 16.33	+19 25 46.9	12.2	V		494

511 Haute Provence
E. W. Elst, Royal Observatory, B-1180 Brussels, Belgium
Observer E. W. Elst
Measurers E. W. Elst, J. P. Olivier
0.6-m Schmidt

1981 EY17		1991 12 30.96424	06 36 04.33	+19 17 54.3	17.5			511
1981 EY17		1991 12 30.98854	06 36 02.65	+19 17 56.9				511
1981 EY17		1992 01 04.95174	06 30 51.97	+19 25 54.6				511

1981 EY17		1992 01 04.98924	06	30	49.53	+19	25	57.4		511
1987 DC6		1991 12 30.07049	06	55	26.55	+13	44	12.5		511
1987 DC6		1991 12 30.10938	06	55	24.52	+13	44	17.8		511
1987 DC6		1992 01 02.02118	06	52	55.53	+13	51	25.9	17.0	511
1987 DC6		1992 01 02.05521	06	52	53.73	+13	51	31.6		511
1990 OE2		1991 12 30.07049	07	04	46.47	+16	20	21.4		511
1990 OE2		1991 12 30.10938	07	04	44.05	+16	20	35.8		511
1990 OE2		1992 01 02.02118	07	01	44.50	+16	39	52.4	17.2	511
1990 OE2		1992 01 02.05521	07	01	42.43	+16	40	05.7		511
1991 YJ		1991 12 29.86771	05	52	32.93	+28	46	42.5	17.5	511
1991 YJ		1991 12 29.89549	05	52	31.17	+28	46	39.0		511
1991 YJ		1992 01 01.86771	05	49	21.61	+28	38	50.2		511
1991 YK		1991 12 29.86771	05	59	27.43	+29	19	06.9	17.5	511
1991 YK		1991 12 29.89549	05	59	25.32	+29	19	05.8		511
1991 YK		1992 01 01.86771	05	55	46.84	+29	11	18.1		511
1991 YL	*	1991 12 29.86771	06	00	35.95	+28	45	12.6	17.0	511
1991 YL		1991 12 29.89549	06	00	33.97	+28	45	12.4		511
1991 YL		1992 01 01.86771	05	57	09.74	+28	45	04.5		511
1991 YM	*	1991 12 29.86771	06	02	56.21	+30	22	44.5	18.5	511
1991 YM		1991 12 29.89549	06	02	54.38	+30	22	51.6		511
1991 YM		1992 01 01.86771	05	59	52.43	+30	34	42.7		511
1991 YN	*	1991 12 30.01910	07	02	39.66	+19	19	47.9	18.0	511
1991 YN		1991 12 30.04549	07	02	37.84	+19	19	52.7		511
1991 YN		1991 12 31.03785	07	01	31.90	+19	22	26.6		511
1991 YN		1991 12 31.07118	07	01	29.61	+19	22	31.4		511
1991 YO	*	1991 12 30.01910	07	03	51.62	+21	52	13.4	18.5	511
1991 YO		1991 12 30.04549	07	03	50.17	+21	52	24.2		511
1991 YO		1991 12 31.03785	07	02	46.72	+21	59	21.9		511
1991 YO		1991 12 31.07118	07	02	44.49	+21	59	36.2		511
1991 YP	*	1991 12 30.01910	07	04	23.90	+21	30	00.7	18.3	511
1991 YP		1991 12 30.04549	07	04	22.28	+21	30	12.5		511
1991 YP		1991 12 31.03785	07	03	25.23	+21	36	49.8		511
1991 YP		1991 12 31.07118	07	03	23.34	+21	37	03.2		511
1991 YQ	*	1991 12 30.01910	07	05	29.12	+18	45	39.0	17.3	511
1991 YQ		1991 12 30.04549	07	05	27.73	+18	45	47.0		511
1991 YQ		1991 12 31.03785	07	04	32.25	+18	50	19.4		511
1991 YQ		1991 12 31.07118	07	04	30.42	+18	50	27.9		511
1991 YR	*	1991 12 30.07049	07	01	41.65	+16	54	53.0		511
1991 YR		1991 12 30.10938	07	01	39.36	+16	54	57.3		511
1991 YR		1992 01 02.02118	06	58	50.56	+17	03	29.1	17.7	511
1991 YR		1992 01 02.05521	06	58	48.46	+17	03	33.9		511
1991 YS	*	1991 12 30.07049	07	01	59.93	+15	27	34.8		511
1991 YS		1991 12 30.10938	07	01	57.54	+15	27	37.4		511
1991 YS		1992 01 02.02118	06	59	00.39	+15	31	41.2	17.3	511
1991 YS		1992 01 02.05521	06	58	58.33	+15	31	44.7		511
1991 YT	*	1991 12 30.07049	07	06	36.29	+16	54	56.3		511
1991 YT		1991 12 30.10938	07	06	33.66	+16	54	45.2		511
1991 YT		1992 01 02.02118	07	03	28.47	+16	43	12.9	17.6	511
1991 YT		1992 01 02.05521	07	03	26.29	+16	43	04.7		511
1991 YU	*	1991 12 30.07049	07	09	06.31	+15	58	51.6		511
1991 YU		1991 12 30.10938	07	09	04.10	+15	59	00.6		511
1991 YU		1992 01 02.02118	07	06	25.72	+16	10	11.4	17.3	511
1991 YU		1992 01 02.05521	07	06	23.74	+16	10	18.6		511
1991 YV	*	1991 12 30.96424	06	28	49.97	+18	16	21.8	17.0	511
1991 YV		1991 12 30.98854	06	28	48.32	+18	16	34.6		511
1991 YV		1992 01 04.95174	06	23	40.81	+18	55	16.4		511
1991 YV		1992 01 04.98924	06	23	38.30	+18	55	35.3		511
1991 YW	*	1991 12 30.96424	06	33	43.42	+17	58	27.0	18.0	511
1991 YW		1991 12 30.98854	06	33	41.75	+17	58	34.0		511

1991 YW		1992 01 04.95174	06 28 26.92	+18 17 52.0				511
1991 YW		1992 01 04.98924	06 28 24.28	+18 17 59.1				511
1991 YX	*	1991 12 31.10174	07 21 19.07	+16 32 21.9		18.0		511
1991 YX		1991 12 31.13160	07 21 16.95	+16 32 30.8				511
1991 YX		1992 01 02.08160	07 19 11.09	+16 42 43.0				511
1991 YX		1992 01 02.11076	07 19 09.06	+16 42 52.4				511
1991 YY	*	1991 12 31.10174	07 30 50.29	+14 46 00.1		18.0		511
1991 YY		1991 12 31.13160	07 30 48.44	+14 46 01.5				511
1991 YY		1992 01 02.08160	07 28 48.54	+14 47 52.5				511
1991 YY		1992 01 02.11076	07 28 46.69	+14 47 56.0				511
3137 T-2		1991 12 31.10174	07 31 18.69	+15 07 55.9		17.5		511
3137 T-2		1991 12 31.13160	07 31 17.13	+15 08 02.1				511
3137 T-2		1992 01 02.08160	07 29 43.33	+15 12 14.0				511
3137 T-2		1992 01 02.11076	07 29 41.96	+15 12 17.5				511
(222)		1991 12 30.87674	06 00 14.31	+24 03 13.7		16.7		511
(222)		1991 12 30.90312	06 00 12.91	+24 03 14.5				511
(222)		1992 01 04.88715	05 56 01.20	+24 04 53.5				511
(222)		1992 01 04.91701	05 55 59.72	+24 04 53.9				511
(437)		1991 12 30.01910	06 57 32.18	+19 15 22.6		16.5		511
(437)		1991 12 30.04549	06 57 30.41	+19 15 21.1				511
(437)		1991 12 31.03785	06 56 22.53	+19 14 37.5				511
(437)		1991 12 31.07118	06 56 20.23	+19 14 37.6				511
(583)		1991 12 30.96424	06 31 02.38	+18 58 19.2		16.5		511
(583)		1991 12 30.98854	06 31 00.99	+18 58 15.8				511
(583)		1992 01 04.95174	06 26 30.21	+18 48 41.6				511
(583)		1992 01 04.98924	06 26 28.01	+18 48 38.3				511
(656)		1991 12 30.87674	05 59 08.22	+22 40 37.8		16.8		511
(656)		1991 12 30.90312	05 59 06.87	+22 40 38.2				511
(656)		1992 01 04.88715	05 54 45.83	+22 40 35.6				511
(656)		1992 01 04.91701	05 54 44.39	+22 40 35.8				511
(783)		1991 12 31.10174	07 25 47.78	+13 40 56.3		17.0		511
(783)		1991 12 31.13160	07 25 45.96	+13 41 03.0				511
(783)		1992 01 02.08160	07 23 47.35	+13 48 11.9				511
(783)		1992 01 02.11076	07 23 45.49	+13 48 18.7				511
(851)		1991 12 30.01910	07 09 20.89	+19 37 33.6		16.0		511
(851)		1991 12 30.04549	07 09 19.13	+19 37 38.4				511
(851)		1991 12 31.03785	07 08 13.86	+19 40 24.6				511
(851)		1991 12 31.07118	07 08 11.62	+19 40 30.6				511
(884)		1991 12 29.86771	05 54 40.16	+29 03 07.9		18.0		511
(884)		1991 12 29.89549	05 54 39.20	+29 03 04.7				511
(962)		1991 12 30.01910	07 00 22.69	+19 58 43.5		16.8		511
(962)		1991 12 30.04549	07 00 21.18	+19 58 46.7				511
(962)		1991 12 31.03785	06 59 25.77	+20 00 37.2				511
(962)		1991 12 31.07118	06 59 23.81	+20 00 42.3				511
(1027)		1991 12 30.87674	05 54 31.23	+25 05 18.0		16.8		511
(1027)		1991 12 30.90312	05 54 29.74	+25 05 20.5				511
(1027)		1992 01 04.88715	05 50 06.83	+25 04 44.9				511
(1027)		1992 01 04.91701	05 50 05.29	+25 04 43.3				511
(1105)		1991 12 30.96424	06 36 19.01	+17 58 10.0		16.8		511
(1105)		1991 12 30.98854	06 36 17.60	+17 58 16.0				511
(1105)		1992 01 04.95174	06 31 51.09	+18 16 18.3				511
(1105)		1992 01 04.98924	06 31 49.10	+18 16 25.2				511
(1119)		1991 12 29.86771	06 04 13.34	+30 14 22.0		17.0		511
(1119)		1991 12 29.89549	06 04 11.57	+30 14 24.7				511
(1119)		1992 01 01.86771	06 01 00.77	+30 18 19.3				511
(1396)		1992 01 01.86771	06 03 52.64	+30 34 26.5		17.0		511
(1748)		1991 12 30.01910	07 06 15.71	+20 56 35.2		18.0		511
(1748)		1991 12 30.04549	07 06 14.39	+20 56 37.6				511
(1748)		1991 12 31.03785	07 05 32.86	+20 58 05.1				511

(1748)	1991 12 31.07118	07 05 31.48	+20 58 07.6		511
(1836)	1991 12 30.87674	05 57 10.29	+23 38 33.0	17.6	511
(1836)	1991 12 30.90312	05 57 08.83	+23 38 30.5		511
(1836)	1992 01 04.88715	05 52 33.78	+23 30 14.7		511
(1836)	1992 01 04.91701	05 52 32.22	+23 30 12.5		511
(1858)	1991 12 30.01910	07 10 46.38	+21 58 14.1	17.8	511
(1858)	1991 12 30.04549	07 10 44.80	+21 58 18.6		511
(1858)	1991 12 31.03785	07 09 46.47	+21 59 23.8		511
(1858)	1991 12 31.07118	07 09 44.55	+21 59 25.5		511
(2051)	1991 12 30.01910	06 55 29.27	+20 55 43.2	17.0	511
(2051)	1991 12 30.04549	06 55 27.66	+20 55 45.4		511
(2186)	1991 12 30.87674	06 00 32.88	+24 17 09.7	17.0	511
(2186)	1991 12 30.90312	06 00 31.32	+24 17 09.1		511
(2186)	1992 01 04.88715	05 55 42.52	+24 11 09.9		511
(2186)	1992 01 04.91701	05 55 41.03	+24 11 07.8		511
(2252)	1991 12 29.86771	06 05 50.27	+30 17 31.0	17.0	511
(2252)	1991 12 29.89549	06 05 48.51	+30 17 30.4		511
(2252)	1992 01 01.86771	06 02 36.56	+30 15 36.0		511
(2320)	1992 01 04.95174	06 35 33.82	+17 36 18.1		511
(2320)	1992 01 04.98924	06 35 31.82	+17 36 28.1		511
(2585)	1991 12 31.10174	07 23 09.88	+16 23 43.5	17.0	511
(2585)	1991 12 31.13160	07 23 07.83	+16 23 52.3		511
(2585)	1992 01 02.08160	07 21 02.45	+16 33 19.7		511
(2585)	1992 01 02.11076	07 21 00.45	+16 33 28.1		511
(2712)	1991 12 30.01910	07 10 14.12	+21 02 15.6	17.6	511
(2712)	1991 12 30.04549	07 10 12.18	+21 02 20.6		511
(2712)	1991 12 31.03785	07 09 03.63	+21 04 19.7		511
(2712)	1991 12 31.07118	07 09 01.22	+21 04 23.2		511
(2804)	1991 12 30.01910	06 55 31.69	+20 27 04.5	17.2	511
(2804)	1991 12 30.04549	06 55 30.27	+20 27 10.6		511
(3037)	1991 12 31.03785	06 57 23.26	+18 40 17.1	16.0	511
(3037)	1991 12 31.07118	06 57 21.09	+18 40 41.1		511
(3311)	1991 12 30.87674	05 58 55.53	+22 08 55.1	18.0	511
(3311)	1991 12 30.90312	05 58 53.98	+22 08 56.8		511
(3311)	1992 01 04.88715	05 54 14.60	+22 09 51.6		511
(3311)	1992 01 04.91701	05 54 13.08	+22 09 51.8		511
(3457)	1991 12 30.87674	06 00 49.30	+22 43 00.2	17.6	511
(3457)	1991 12 30.90312	06 00 47.78	+22 43 02.3		511
(3457)	1992 01 04.88715	05 56 13.92	+22 47 51.5		511
(3457)	1992 01 04.91701	05 56 12.29	+22 47 51.8		511
(3739)	1991 12 30.01910	06 58 24.22	+21 10 11.5	18.0	511
(3739)	1991 12 30.04549	06 58 22.36	+21 10 15.6		511
(3739)	1991 12 31.03785	06 57 12.90	+21 13 29.1		511
(3739)	1991 12 31.07118	06 57 10.58	+21 13 36.8		511
(3760)	1991 12 30.96424	06 33 47.29	+18 28 09.9	17.2	511
(3760)	1991 12 30.98854	06 33 45.72	+18 28 17.0		511
(3760)	1992 01 04.95174	06 28 24.71	+18 53 09.1		511
(3760)	1992 01 04.98924	06 28 22.14	+18 53 20.6		511
(3786)	1991 12 30.96424	06 27 47.59	+17 18 39.2	17.0	511
(3786)	1991 12 30.98854	06 27 46.02	+17 18 33.6		511
(3786)	1992 01 04.95174	06 22 29.48	+17 00 08.1		511
(3786)	1992 01 04.98924	06 22 27.10	+16 59 59.7		511
(4066)	1991 12 30.07049	07 07 04.36	+16 48 24.0		511
(4066)	1991 12 30.10938	07 07 01.84	+16 48 21.4		511
(4066)	1992 01 02.02118	07 03 36.61	+16 48 58.7	17.6	511
(4066)	1992 01 02.05521	07 03 34.14	+16 49 00.2		511
(4262)	1992 01 04.95174	06 33 46.60	+17 33 15.7		511
(4262)	1992 01 04.98924	06 33 44.00	+17 33 25.1		511
(4566)	1991 12 30.07049	06 57 56.89	+14 36 59.8		511

(4566)	1991 12 30.10938	06 57 54.40	+14 36 56.0			511
(4566)	1992 01 02.02118	06 54 59.65	+14 31 02.4	17.1		511
(4566)	1992 01 02.05521	06 54 57.58	+14 30 58.3			511
(4619)	1991 12 30.01910	07 04 30.21	+21 51 50.6	18.0		511
(4619)	1991 12 30.04549	07 04 28.35	+21 51 52.4			511
(4619)	1991 12 31.03785	07 03 28.77	+21 52 40.2			511
(4619)	1991 12 31.07118	07 03 26.82	+21 52 41.2			511
(4672)	1991 12 30.87674	05 57 29.25	+23 22 08.2	17.5		511
(4672)	1991 12 30.90312	05 57 27.79	+23 22 14.1			511
(4672)	1992 01 04.88715	05 53 07.98	+23 39 00.2			511
(4672)	1992 01 04.91701	05 53 06.42	+23 39 04.7			511

553 Chorzow
I. Wlodarczyk, Planetarium and Astronomical Observatory,
PL-41501 Chorzow 1 s.p.10, Poland
Observers S. Janta, T. Firszt, M. Szczepanski
Measurers B. Osiejuk, T. Piwek, A. Pajka
0.2-m f/5 astrograph

(7)	1991 09 03.91522	22 55 38.20	+04 50 40.4			553
(7)	1991 09 03.93281	22 55 37.21	+04 50 37.6			553
(7)	1991 09 03.95307	22 55 36.05	+04 50 33.7			553
(7)	1991 09 03.97135	22 55 34.98	+04 50 28.6			553
(7)	1991 09 10.89784	22 49 18.38	+04 19 13.5			553
(7)	1991 09 10.91398	22 49 17.49	+04 19 09.9			553
(7)	1991 09 10.93742	22 49 16.08	+04 19 03.2			553
(7)	1991 09 12.85366	22 47 32.92	+04 08 56.1			553
(7)	1991 09 12.87582	22 47 31.69	+04 08 50.5			553
(7)	1991 09 12.89928	22 47 30.42	+04 08 42.0			553
(7)	1991 09 13.85363	22 46 39.62	+04 03 28.9			553
(7)	1991 09 13.87933	22 46 38.14	+04 03 20.6			553
(7)	1991 09 13.90363	22 46 36.83	+04 03 12.7			553
(7)	1991 09 27.84074	22 35 47.09	+02 38 21.7			553
(7)	1991 09 27.86227	22 35 46.28	+02 38 13.3			553
(7)	1991 10 04.80912	22 32 06.92	+01 55 17.0			553
(7)	1991 10 04.82995	22 32 06.36	+01 55 09.3			553
(7)	1991 10 04.85079	22 32 05.74	+01 55 00.8			553
(7)	1991 10 04.85495	22 32 05.70	+01 55 00.1			553
(7)	1991 10 04.87579	22 32 05.07	+01 54 52.4			553
(7)	1991 10 04.89697	22 32 04.55	+01 54 44.5			553
(7)	1991 10 06.86810	22 31 19.16	+01 43 09.0			553
(7)	1991 10 06.89032	22 31 18.75	+01 43 01.0			553
(7)	1991 10 06.91116	22 31 18.27	+01 42 53.3			553
(7)	1991 10 07.85862	22 30 59.45	+01 37 27.3			553
(7)	1991 10 07.88223	22 30 59.03	+01 37 19.1			553
(7)	1991 10 07.89433	22 30 58.77	+01 37 15.1			553
(7)	1991 10 08.82050	22 30 42.33	+01 32 02.3			553
(7)	1991 10 08.84549	22 30 41.88	+01 31 53.7			553
(7)	1991 10 08.87917	22 30 41.17	+01 31 42.3			553
(324)	1991 09 13.85363	23 01 21.59	+03 33 24.0			553
(324)	1991 09 13.87933	23 01 19.93	+03 33 33.7			553
(324)	1991 09 13.90363	23 01 18.43	+03 33 42.1			553

565 Bassano Bresciano
U. Quadri, Osservatorio di Bassano Bresciano, Via S. Michele 4,
I-25020 Bassano Bresciano (Brescia), Italy
Observers U. Quadri, L. Strabla
0.3-0.4-m f/3.3 Schmidt

1991 XU	1991 12 31.89561	07 24 47.32	+23 04 52.1	16.0		565
1991 XU	1991 12 31.91352	07 24 46.10	+23 04 49.5			565

1991 XU		1992 01 25.81354	06 57 39.89	+21 40 09.7	16.3		565
1991 XU		1992 01 25.82869	06 57 38.96	+21 40 05.4			565
1991 XU		1992 01 25.84921	06 57 37.75	+21 40 02.2			565
1991 XU		1992 01 27.81182	06 55 49.88	+21 32 37.5	16.3		565
1991 XU		1992 01 27.83028	06 55 48.85	+21 32 31.9			565
1991 YE	*	1991 12 30.87450	07 25 08.92	+21 45 32.0	17.0		565
1991 YE		1991 12 30.89608	07 25 07.71	+21 45 36.5			565
1991 YE		1991 12 31.89561	07 24 12.07	+21 50 02.8	17.0		565
1991 YE		1991 12 31.91352	07 24 10.97	+21 50 06.5			565
1991 YE		1992 01 25.82869	07 00 15.81	+23 34 52.2	17.5		565
1991 YE		1992 01 25.84921	07 00 14.58	+23 34 57.3			565
1991 YE		1992 01 27.81182	06 58 39.43	+23 41 52.8	17.5		565
1991 YE		1992 01 27.83028	06 58 38.58	+23 41 55.6			565
(779)		1991 12 30.87450	07 21 05.03	+21 37 39.0	13.5		565
(779)		1991 12 30.89608	07 21 03.68	+21 37 35.7			565
(1699)		1991 12 30.87450	07 19 15.69	+21 35 14.4	17.0		565
(1699)		1991 12 30.89608	07 19 14.14	+21 35 17.4			565

568 Mauna Kea Observatory
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Honolulu, HI 96822, U.S.A.
Observers D. J. Tholen, W. F. Golisch
IRTF encoders
PPM

1992 AC		1992 01 22.57569	09 28 18.80	+19 51 27.9	13.3	V	568
1992 AC		1992 01 23.50278	09 30 21.68	+20 48 12.4	13.2	V	568
1992 AD		1992 01 23.56181	08 07 13.02	+20 31 39.0	16.6	V	568

573 Eldagsen
W. Bonk, Nordstrasse 33, W-3257 Springe 3, Federal Republic of Germany
AGK3

(127)		1991 11 10.74516	02 18 02.57	+16 07 35.1			573
(127)		1991 11 10.75442	02 18 01.96	+16 07 33.8			573
(127)		1991 12 09.71744	01 58 25.90	+15 33 51.3			573
(127)		1991 12 09.72173	01 58 25.83	+15 33 51.2			573
(350)		1991 12 27.77070	04 32 50.30	+13 16 34.5			573
(350)		1991 12 27.78134	04 32 49.71	+13 16 40.6			573
(388)		1991 12 27.73470	05 23 00.23	+32 32 41.8			573
(388)		1991 12 27.73829	05 23 00.07	+32 32 39.8			573
(598)		1991 12 27.75241	04 44 16.09	+18 28 38.1			573
(598)		1991 12 27.75594	04 44 15.94	+18 28 39.5			573
(702)		1991 11 10.72670	02 16 40.18	+41 45 51.5			573
(702)		1991 11 10.73590	02 16 39.58	+41 45 48.3			573

589 Santa Lucia Stroncone
A. Vagnozzi, Santa Lucia 68, I-05039 Stroncone (Terni), Italy
Observer A. Vagnozzi
0.5-m f/7.5 Ritchey-Chretien, 0.25-m f/3 Baker-Schmidt + CCD
GSC

1982 BW		1991 12 27.89722	03 57 08.03	+21 43 29.3			589
1982 BW		1991 12 27.92778	03 57 06.92	+21 43 32.5			589
1982 BW		1991 12 28.89098	03 56 34.22	+21 45 07.3			589
1982 BW		1991 12 28.92222	03 56 33.07	+21 45 11.3			589
1982 BW		1991 12 29.86805	03 56 02.31	+21 46 46.9			589
1982 BW		1991 12 29.90139	03 56 01.09	+21 46 50.3			589
1984 FS		1991 12 28.93958	05 41 39.91	+04 08 08.9			589
1984 FS		1991 12 28.95347	05 41 39.44	+04 08 15.3			589
1989 GF		1991 12 30.84236	06 12 47.55	+26 12 49.6			589
1989 GF		1991 12 30.85625	06 12 46.98	+26 12 54.4			589

1989 GF	1991 12 30.87917	06 12 45.08	+26 12 56.5				589
1989 GF	1991 12 30.89306	06 12 44.56	+26 13 01.7				589
1991 YE	1992 01 01.95556	07 23 11.68	+21 54 43.5	17.0			589
1991 YE	1992 01 01.96944	07 23 10.98	+21 54 49.5				589
1991 YE	1992 01 02.03542	07 23 07.03	+21 55 04.5				589
1991 YE	1992 01 02.04931	07 23 06.22	+21 55 11.2				589
1991 YE	1992 01 02.83958	07 22 21.07	+21 58 40.7				589
1991 YE	1992 01 02.85417	07 22 20.53	+21 58 43.9				589
1991 YE	1992 01 02.87222	07 22 19.15	+21 58 49.3				589
1991 YE	1992 01 02.88611	07 22 18.61	+21 58 53.6				589
(107)	1991 10 01.85764	23 06 55.00	-05 06 26.2				589
(107)	1991 10 01.91389	23 06 53.18	-05 06 41.2				589
(107)	1991 10 02.84653	23 06 24.49	-05 11 46.6				589
(107)	1991 10 02.85347	23 06 24.34	-05 11 43.0				589
(107)	1991 10 02.86042	23 06 24.14	-05 11 48.8				589
(107)	1991 10 02.92014	23 06 22.27	-05 12 04.9				589
(107)	1991 10 02.92361	23 06 22.11	-05 12 05.1				589
(107)	1991 10 02.93403	23 06 21.97	-05 12 05.6				589
(107)	1991 10 03.87639	23 05 53.54	-05 17 16.7				589
(107)	1991 10 03.89028	23 05 53.08	-05 17 18.6				589
(107)	1991 10 03.92222	23 05 52.13	-05 17 30.1				589
(107)	1991 10 04.85138	23 05 24.94	-05 22 23.3				589
(107)	1991 10 04.92987	23 05 22.61	-05 22 46.1				589
(107)	1991 10 05.89444	23 04 54.99	-05 27 48.3				589
(107)	1991 10 05.90903	23 04 54.80	-05 27 52.0				589
(107)	1991 10 05.93264	23 04 53.94	-05 28 00.6				589
(107)	1991 10 05.94687	23 04 53.71	-05 28 03.5				589
(107)	1991 10 05.95278	23 04 53.28	-05 28 07.9				589
(107)	1991 10 05.97153	23 04 52.85	-05 28 09.8				589
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(779)	1992 01 01.76736	07 19 03.34	+21 33 59.4				589
(779)	1992 01 01.78819	07 19 02.06	+21 33 56.3				589
(779)	1992 01 01.84236	07 18 58.32	+21 33 49.3				589
(779)	1992 01 01.86319	07 18 57.14	+21 33 48.7				589
(1173)	1992 01 01.96250	07 23 19.24	+21 28 37.6				589
(1173)	1992 01 02.04236	07 23 16.58	+21 28 39.7				589
(1684)	1992 01 01.76736	07 20 24.36	+22 11 19.9				589
(1684)	1992 01 01.78819	07 20 23.44	+22 11 25.8				589
(1684)	1992 01 01.84236	07 20 20.49	+22 11 31.4				589
(1684)	1992 01 01.86319	07 20 19.85	+22 11 35.9				589
(1684)	1992 01 01.92500	07 20 16.39	+22 11 44.0				589
(1684)	1992 01 01.95556	07 20 14.58	+22 11 49.3				589
(1684)	1992 01 01.96944	07 20 14.17	+22 11 52.9				589
(1684)	1992 01 02.03542	07 20 10.48	+22 11 58.0				589
(1684)	1992 01 02.04931	07 20 09.94	+22 12 03.9				589
(2996)	1991 09 16.84028	23 14 08.03	-03 15 58.8				589
(2996)	1991 09 16.85278	23 14 07.60	-03 15 59.7				589
(2996)	1991 09 16.86528	23 14 07.15	-03 16 00.4				589
(2996)	1991 09 17.83056	23 13 19.14	-03 19 50.2				589
(2996)	1991 09 17.84722	23 13 18.33	-03 19 55.1				589
(4988)	1991 10 01.86458	23 05 22.57	-05 08 41.1				589
(4988)	1991 10 02.86458	23 04 53.69	-05 13 48.1				589
(4988)	1991 10 02.92014	23 04 51.71	-05 14 09.0				589
(4988)	1991 10 02.92361	23 04 51.62	-05 14 09.4				589
(4988)	1991 10 02.92418	23 04 51.39	-05 14 10.4				589
(4988)	1991 10 02.93403	23 04 51.28	-05 14 10.9				589
(4988)	1991 10 03.88333	23 04 25.24	-05 18 58.8				589
(4988)	1991 10 03.92222	23 04 24.20	-05 19 10.6				589
(4988)	1991 10 04.85139	23 04 00.36	-05 23 40.1				589

(4988)	1991 10 04.92986	23 03 58.28	-05 24 04.0	589
(4988)	1991 10 05.89444	23 03 35.14	-05 28 31.9	589
(4988)	1991 10 05.90903	23 03 34.91	-05 28 35.8	589
(4988)	1991 10 05.93264	23 03 34.15	-05 28 42.3	589
(4988)	1991 10 05.94687	23 03 33.92	-05 28 45.3	589
(4988)	1991 10 05.95278	23 03 33.52	-05 28 48.4	589
(4988)	1991 10 05.97153	23 03 33.28	-05 28 51.7	589
(4988)	1991 10 05.98055	23 03 32.86	-05 28 56.2	589
(4988)	1991 10 26.77708	23 02 38.97	-06 14 55.4	589
(4988)	1991 11 01.77292	23 05 04.47	-06 09 38.5	589
(4988)	1991 11 01.78681	23 05 04.76	-06 09 36.6	589
(4988)	1991 11 01.85903	23 05 07.04	-06 09 25.6	589

596 Colleverde di Guidonia
S. V. Casulli, Via M. Rosa 1, I-00010 Colleverde di Guidonia (RM), Italy
0.31-m f/2.8 Baker-Schmidt CCD camera
GSC

1977 SG3	1991 12 03.89465	05 37 09.14	+26 47 15.4	596
1977 SG3	1991 12 03.91076	05 37 07.81	+26 47 24.6	596
1977 SG3	1991 12 03.91917	05 37 07.54	+26 47 26.2	596
1982 BW	1991 12 01.80417	04 18 43.20	+21 04 58.1	596
1982 BW	1991 12 01.83840	04 18 41.16	+21 05 00.5	596
1984 SR2	1991 12 12.81917	05 42 46.26	+30 59 50.3	596
1984 SR2	1991 12 12.84799	05 42 44.08	+30 59 44.2	596
1984 SR2	1991 12 12.87417	05 42 42.06	+30 59 41.2	596
1990 OA1	1991 11 11.92535	05 20 28.12	+28 31 58.4	596
1990 OA1	1991 11 11.94062	05 20 27.71	+28 31 57.8	596
1990 OA1	1991 11 12.87757	05 19 44.94	+28 28 21.8	596
1990 OA1	1991 11 12.91597	05 19 43.38	+28 28 09.7	596
1990 OD4	1991 11 30.87847	05 30 47.60	+07 14 44.4	596
1990 OD4	1991 11 30.90993	05 30 45.97	+07 14 37.1	596
1990 OD4	1991 11 30.92382	05 30 45.20	+07 14 33.6	596
(28)	1991 12 08.75687	03 09 32.43	+02 49 44.2	596
(28)	1991 12 08.79493	03 09 30.88	+02 49 48.3	596
(28)	1991 12 08.81187	03 09 30.06	+02 49 49.9	596
(2719)	1991 10 13.81465	01 31 15.32	+08 16 21.6	596
(2810)	1991 12 07.84153	05 14 22.10	+02 46 56.4	596
(2810)	1991 12 07.87118	05 14 20.51	+02 46 48.6	596
(2810)	1991 12 07.89347	05 14 19.14	+02 46 40.9	596
(4039)	1991 11 12.80417	01 49 55.70	+19 05 22.8	596
(4039)	1991 11 12.81875	01 49 55.00	+19 05 16.9	596
(4163)	1991 12 03.82646	03 55 04.93	+04 55 20.5	596
(4163)	1991 12 03.84417	03 55 03.97	+04 55 20.4	596
(4163)	1991 12 03.85681	03 55 03.42	+04 55 21.3	596
(4163)	1991 12 03.86264	03 55 03.06	+04 55 21.1	596
(4369)	1991 12 05.82931	05 33 27.27	+37 13 33.4	596
(4369)	1991 12 05.85458	05 33 25.40	+37 13 25.3	596
(4369)	1991 12 05.86757	05 33 24.40	+37 13 21.4	596
(4569)	1991 12 07.75167	03 06 02.02	+06 00 50.0	596
(4569)	1991 12 07.81003	03 05 59.53	+06 00 29.2	596
(4628)	1991 12 12.91507	06 54 21.63	+23 34 03.0	596
(4628)	1991 12 12.93861	06 54 20.38	+23 33 57.8	596

597 Springe
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(91)	1991 11 09.91640	01 16 44.17	+09 24 54.9	597
(91)	1991 11 09.92512	01 16 43.83	+09 24 53.7	597
(209)	1991 11 10.82193	03 00 25.50	+25 02 47.2	597
(209)	1991 11 10.83359	03 00 24.94	+25 02 45.4	597

(237)	1991 11 27.88987	02 50 17.21	+07 44 45.1	597
(237)	1991 11 27.89856	02 50 16.80	+07 44 45.5	597
(350)	1991 12 10.83509	04 48 58.72	+10 47 56.2	597
(350)	1991 12 10.84927	04 48 57.76	+10 48 02.1	597
(388)	1991 12 11.88559	05 38 39.82	+32 47 49.0	597
(388)	1991 12 11.89309	05 38 39.31	+32 47 48.8	597
(481)	1991 11 10.85084	01 20 24.47	-02 00 29.1	597
(481)	1991 11 10.85810	01 20 24.14	-02 00 27.5	597
(501)	1991 11 10.80784	04 39 15.53	+50 09 44.2	597
(501)	1991 11 10.81247	04 39 15.23	+50 09 45.4	597
(598)	1991 12 10.85841	05 00 10.78	+16 50 27.6	597
(598)	1991 12 10.86985	05 00 10.01	+16 50 31.7	597
(702)	1991 11 27.86977	02 03 39.57	+39 25 45.3	597
(702)	1991 11 27.87726	02 03 39.27	+39 25 40.8	597
(1177)	1991 11 10.77801	02 16 38.59	+25 13 09.0	597
(1177)	1991 11 10.78681	02 16 38.18	+25 13 04.3	597
(1280)	1991 12 12.96753	04 19 09.69	+27 42 09.0	597
(1280)	1991 12 12.98194	04 19 09.08	+27 42 05.6	597
(1407)	1991 11 05.82369	01 49 45.58	+20 49 54.0	597
(1407)	1991 11 05.83330	01 49 45.19	+20 49 50.2	597
(1554)	1991 11 09.89907	01 25 41.53	+10 24 30.6	597
(1554)	1991 11 09.90347	01 25 41.43	+10 24 27.0	597
(1607)	1991 12 10.83032	04 42 27.90	+10 11 38.1	597
(1607)	1991 12 10.84927	04 42 26.69	+10 11 41.6	597
(1626)	1991 11 09.87494	22 22 58.01	+34 59 00.5	597
(1626)	1991 11 09.88354	22 22 58.48	+34 58 53.5	597
(2083)	1991 12 12.91146	05 28 06.05	+21 42 04.4	597
(2083)	1991 12 12.92897	05 28 04.48	+21 41 44.9	597
(2345)	1991 12 10.80249	04 33 50.77	+32 55 46.7	597
(2345)	1991 12 10.82049	04 33 49.61	+32 55 42.3	597
(4628)	1991 12 12.94403	06 54 19.99	+23 33 58.9	597
(4628)	1991 12 12.94853	06 54 19.71	+23 33 58.1	597

657 Victoria, Climenhaga Observatory
J. B. Tatum, Dept. of Physics, University of Victoria, P.O. Box 1700, Victoria, BC V8W 2Y2, Canada
Observers J. B. Tatum, D. D. Balam
0.5-m reflector + CCD

1984 SM	1991 09 17.39729	00 43 31.90	+16 39 53.4	657
1984 SM	1991 09 17.45146	00 43 29.12	+16 39 41.8	657
1992 AA	1992 01 26.29656	05 16 15.16	+30 03 22.5	657
1992 AA	1992 01 26.29861	05 16 15.43	+30 03 25.0	657
1992 AC	1992 01 26.46841	09 37 02.44	+23 55 01.1	657
1992 AC	1992 01 26.46968	09 37 02.60	+23 55 06.1	657
1992 AD	1992 01 26.38333	08 06 19.99	+20 38 13.1	657
1992 AD	1992 01 26.42485	08 06 19.18	+20 38 18.8	657
1992 AE	1992 01 26.24286	03 02 43.67	+16 39 12.5	657
1992 AE	1992 01 26.24645	03 02 44.13	+16 39 15.1	657
1992 AE	1992 01 26.24840	03 02 44.63	+16 39 17.9	657
1992 BF	1992 02 04.37817	09 37 27.08	+14 06 23.0	657
1992 BF	1992 02 04.38067	09 37 26.15	+14 06 20.4	657
1992 BF	1992 02 04.38281	09 37 25.15	+14 06 18.8	657
(7)	1991 10 14.22639	22 29 42.15	+01 03 44.1	657
(7)	1991 10 14.29236	22 29 41.70	+01 03 24.3	657
(55)	1991 10 03.29676	00 55 26.35	+06 24 58.0	657
(55)	1991 10 03.33826	00 55 23.97	+06 24 53.6	657
(424)	1991 07 06.29514	17 01 43.74	-19 47 01.6	657
(644)	1991 10 05.37031	05 08 28.13	+21 44 05.3	657
(830)	1991 10 03.29660	00 52 56.03	+08 54 24.5	657

(830)	1991 10 03.33826	00 52 54.02	+08 54 14.1			657
(983)	1992 01 06.10208	03 22 21.21	+20 11 30.7			657
(983)	1992 01 06.18333	03 22 20.31	+20 11 12.0			657
(1257)	1991 09 17.35806	23 38 20.50	+02 01 56.9			657
(1628)	1991 08 15.39618	00 28 10.20	+06 19 39.4			657
(1628)	1991 08 15.43785	00 28 09.72	+06 19 27.1			657
(1686)	1991 09 03.28854	22 55 54.58	-07 17 06.5			657
(1686)	1991 09 03.32674	22 55 52.78	-07 17 18.1			657
(2413)	1991 08 15.36771	21 32 42.20	-07 30 00.9			657
(4710)	1992 01 06.10208	03 22 44.57	+21 19 46.9			657
(4710)	1992 01 06.18333	03 22 44.74	+21 19 32.5			657
(4945)	1991 08 15.31146	21 58 58.24	-03 15 01.2			657
(4945)	1991 08 15.37604	21 58 56.07	-03 15 23.0			657
(4995)	1991 09 03.26354	21 30 53.26	-07 39 27.8			657
(4995)	1991 09 03.30243	21 30 49.82	-07 39 10.2			657

658 Dominion Astrophysical Observatory, Victoria
D. D. Balam, Dept. of Physics, University of Victoria, P.O. Box 1700, Victoria, BC V8W 2Y2, Canada
Observer G. C. L. Aikman
Measurer D. D. Balam
1.85-m reflector + CCD
GSC

1991 EE	1991 10 08.29025	23 39 12.88	-16 28 47.1			658
1991 EE	1991 10 08.29804	23 39 13.56	-16 28 44.6			658
1991 EE	1991 10 08.31193	23 39 14.75	-16 28 40.4			658
1991 RC	1991 10 08.21619	21 24 27.91	-16 56 03.1			658
1991 RC	1991 10 08.23698	21 24 27.03	-16 56 13.7			658
(4997)	1991 10 08.39122	01 26 53.56	+23 17 18.0			658
(4997)	1991 10 08.40814	01 26 51.73	+23 17 34.4			658
(4997)	1991 10 08.41422	01 26 50.99	+23 17 40.8			658

675 Palomar
E. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A. (2)
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Observers J. Alu (2, S), T. Gehrels (4, L), E. Helin (2, S), H. E. Holt (9, S), T. M. King (9, S), K. Lawrence (2, S), D. H. Levy (3, S), C. M. Olmstead (9, S), P. Rose (2, S), C. S. Shoemaker (3, S), E. M. Shoemaker (3, S)
Measurers J. Alu (2), K. Lawrence (2), T. M. King (3), C. M. Olmstead (9), P. Rose (2), C. S. Shoemaker (3), B. A. Skiff (9), C. J. van Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4)
1.2-m (L) and 0.46-m (S) Schmidt telescopes

1931 TS1	1991 12 03.30885	04 04 59.88	+23 26 10.3	17.0	9	675
1931 TS1	1991 12 03.34131	04 04 58.02	+23 26 04.4		9	675
1969 TL1	1991 12 06.24322	03 38 59.20	+18 42 00.2		9	675
1969 TL1	1991 12 06.37344	03 38 53.20	+18 41 48.5	16.2	9	675
1973 SW1	1990 02 20.43299	11 33 22.37	+12 58 19.6	18.1	3	675
1973 SW1	1990 02 20.48993	11 33 20.70	+12 58 29.7		3	675
1973 SW1	1990 03 30.29792	11 13 36.12	+14 20 35.7	18.2	3	675
1973 SW1	1990 03 30.33108	11 13 35.03	+14 20 39.1		3	675
1973 SW1	1991 03 12.40677	13 39 23.75	-07 49 24.7	18.4	3	675
1973 SW1	1991 03 12.44028	13 39 22.92	-07 49 22.9		3	675

1973	SW1	1991	05	17.20747	13	08	20.07	-06	06	36.0	18.4	3	675
1973	SW1	1991	05	17.23802	13	08	19.39	-06	06	36.3		3	675
1974	SB5	1991	12	06.24322	03	56	34.82	+21	06	36.3		9	675
1974	SB5	1991	12	06.37344	03	56	28.19	+21	06	20.1		9	675
1975	VK2	1991	12	06.24322	03	47	33.17	+18	20	55.5		9	675
1975	VK2	1991	12	06.37344	03	47	26.72	+18	20	42.8	17.2	9	675
1979	QT8	1988	03	22.23594	10	27	08.58	+09	12	49.0	19.0	9	675
1979	QT8	1988	03	22.26736	10	27	07.38	+09	12	54.2		9	675
1980	FY	1991	12	01.31197	03	57	22.95	+23	48	14.4	17.5	9	675
1980	FY	1991	12	01.34427	03	57	20.65	+23	48	07.8		9	675
1980	FY	1991	12	03.30885	03	55	03.89	+23	40	29.9		9	675
1980	FY	1991	12	03.34131	03	55	01.63	+23	40	21.8		9	675
1980	FY	1991	12	06.24322	03	51	46.08	+23	28	52.5		9	675
1980	FY	1991	12	06.37344	03	51	37.05	+23	28	19.1		9	675
1980	TO5	1991	12	02.29462	05	06	40.99	+15	41	41.7	17.5	3	675
1980	TO5	1991	12	06.39809	05	03	04.49	+15	23	17.4		3	675
1980	TO5	1991	12	06.43038	05	03	02.69	+15	23	07.1		3	675
1980	TW5	1991	11	07.28073	01	56	18.62	+16	52	23.3		3	675
1980	TW5	1991	11	10.27066	01	54	08.74	+16	37	10.8	17.8	3	675
1980	TW5	1991	11	10.30573	01	54	07.24	+16	36	59.0		3	675
1981	SD4	1991	12	06.24322	03	36	38.02	+21	41	22.2		9	675
1981	SD4	1991	12	06.37344	03	36	31.42	+21	40	50.4	17.5	9	675
1982	UQ10	1991	12	03.30885	04	10	57.21	+25	42	20.2	16.8	9	675
1982	UQ10	1991	12	03.34131	04	10	55.18	+25	42	18.3		9	675
1983	XE	1991	12	06.24322	03	59	56.42	+18	33	11.8		9	675
1983	XE	1991	12	06.37344	03	59	49.39	+18	32	19.5		9	675
1984	DN	1992	01	10.31545	07	08	35.96	+12	41	52.2	16.0	2	675
1984	DN	1992	01	10.34427	07	08	34.04	+12	42	00.3		2	675
1984	DN	1992	01	11.35440	07	07	35.09	+12	47	17.3		2	675
1984	UT3	1991	11	09.49583	05	42	29.65	+33	21	48.1	17.0	3	675
1984	UT3	1991	11	09.52934	05	42	28.41	+33	21	50.7		3	675
1984	UT3	1991	11	11.44531	05	41	22.22	+33	26	04.2		3	675
1984	WA1	1991	12	04.20538	03	05	16.86	+25	05	06.6	17.0	3	675
1984	WA1	1991	12	04.23854	03	05	13.88	+25	05	40.0		3	675
1984	WA1	1991	12	06.21563	03	02	24.91	+25	38	05.8		3	675
1984	WA1	1991	12	06.25087	03	02	22.00	+25	38	35.5		3	675
1985	CZ1	1990	09	17.16302	21	41	53.07	-08	20	46.6	17.0	9	675
1985	CZ1	1990	09	17.19462	21	41	51.71	-08	20	51.2		9	675
1985	FD	1991	11	07.26823	01	36	58.79	-11	05	32.8	17.7	3	675
1985	FD	1991	11	09.26597	01	35	28.22	-11	03	10.9		3	675
1985	FD	1991	11	09.32413	01	35	25.60	-11	03	05.1		3	675
1985	GU1	1991	12	01.35642	04	06	09.84	+39	21	35.1	17.5	3	675
1985	GU1	1991	12	03.32135	04	03	48.48	+39	18	57.4		3	675
1985	GU1	1991	12	03.35313	04	03	46.25	+39	18	54.1		3	675
1985	GU1	1992	01	01.10122	03	37	31.22	+37	42	44.4	18.1	3	675
1985	GU1	1992	01	01.13490	03	37	29.96	+37	42	34.3		3	675
1985	VF2	1991	11	07.39288	04	28	52.50	+36	08	06.7	16.7	3	675
1985	VF2	1991	11	07.43056	04	28	50.70	+36	07	59.9		3	675
1985	VF2	1991	11	09.42326	04	27	16.87	+35	59	32.0		3	675
1985	VF2	1991	12	01.31771	04	07	08.88	+33	39	04.1		3	675
1985	VF2	1991	12	01.35000	04	07	06.94	+33	38	49.8		3	675
1985	VF2	1991	12	03.31476	04	05	16.27	+33	22	25.7	16.4	3	675
1986	CE2	1991	12	01.25329	03	27	52.54	+28	10	05.5	17.0	9	675
1986	CE2	1991	12	01.28854	03	27	50.02	+28	10	00.2		9	675
1986	RR2	1988	03	22.23594	10	22	24.58	+10	08	58.9	19.0	9	675
1986	RR2	1988	03	22.26736	10	22	23.25	+10	09	11.5		9	675
1987	OC	1991	12	07.19983	02	12	55.83	+37	56	44.0	16.5	2	675
1987	OC	1991	12	07.22413	02	12	55.51	+37	56	17.1		2	675
1987	SD4	1991	12	01.31197	03	43	47.05	+29	18	28.1	17.5	9	675

1987	SD4	1991	12	01.34427	03	43	44.83	+29	18	07.9		9	675
1987	SD4	1991	12	03.30885	03	41	40.07	+29	04	39.0		9	675
1987	SD4	1991	12	03.34131	03	41	37.95	+29	04	21.8		9	675
1988	AF	1992	01	10.26024	06	24	08.55	+28	54	05.9	15.5	2	675
1988	AF	1992	01	10.29132	06	24	06.59	+28	53	52.0		2	675
1988	AF	1992	01	11.31308	06	23	02.29	+28	46	33.3		2	675
1988	AF1	1991	12	06.24322	03	39	28.36	+21	13	13.5		9	675
1988	AF1	1991	12	06.37344	03	39	22.13	+21	13	16.8		9	675
1988	BK2	1991	11	07.33958	04	21	30.92	+23	53	28.0	17.0	3	675
1988	BK2	1991	11	07.37292	04	21	28.94	+23	53	41.9		3	675
1988	BK2	1991	11	09.40851	04	19	22.13	+24	06	52.4		3	675
1988	RA1	1991	12	02.43924	07	17	30.14	+33	46	48.9	18.3	3	675
1988	RA1	1991	12	02.47813	07	17	29.15	+33	46	50.1		3	675
1988	RA1	1991	12	06.50938	07	15	40.02	+33	50	29.6		3	675
1988	RA1	1991	12	06.53715	07	15	39.20	+33	50	30.9		3	675
1988	TZ1	1991	12	02.43194	07	41	56.59	+26	44	11.5	18.5	3	675
1988	TZ1	1991	12	02.46927	07	41	55.96	+26	44	04.5		3	675
1988	TZ1	1991	12	06.50208	07	40	22.66	+26	42	24.3		3	675
1988	VP4	1989	01	09.19323	23	59	20.17	+10	13	21.6	17.6	3	675
1988	VP4	1989	01	10.13819	00	00	49.74	+10	01	10.6		3	675
1988	VS4	1991	12	06.41701	04	56	09.42	+11	20	11.6		3	675
1989	BL	1990	01	26.49653	11	57	03.83	+11	10	48.6	17.8	3	675
1989	BL	1990	01	26.54826	11	57	03.39	+11	10	57.6		3	675
1989	BL	1990	01	28.52170	11	56	44.91	+11	16	35.9		3	675
1989	BL	1990	01	28.55469	11	56	44.51	+11	16	41.9		3	675
1989	BL	1990	02	21.43438	11	49	22.65	+12	38	33.5	17.6	3	675
1989	BL	1990	02	21.47240	11	49	21.71	+12	38	43.3		3	675
1989	BL	1990	03	27.24792	11	32	42.46	+14	26	15.8	17.6	3	675
1989	BL	1990	03	27.28594	11	32	41.07	+14	26	17.5		3	675
1989	BW	1990	02	21.44323	12	16	41.33	+20	59	54.5	17.5	3	675
1989	BW	1990	02	22.45851	12	16	16.67	+21	04	08.8		3	675
1989	BW	1990	02	22.49410	12	16	15.77	+21	04	17.9		3	675
1989	CZ	1991	11	01.37257	02	45	55.76	+18	45	07.7	15.5	2	675
1989	CZ	1991	11	01.39635	02	45	54.32	+18	45	04.8		2	675
1989	CZ	1991	11	03.37483	02	43	50.35	+18	41	47.3		2	675
1989	CZ	1991	11	03.40920	02	43	48.10	+18	41	42.5		2	675
1989	CK2	1990	02	21.44323	12	05	08.83	+24	05	26.7	17.9	3	675
1989	CK2	1990	02	22.49410	12	04	43.29	+24	11	05.3		3	675
1989	CK2	1990	03	27.29392	11	48	38.59	+26	23	40.8		3	675
1989	CK2	1990	03	27.34653	11	48	36.91	+26	23	45.3		3	675
1989	EO11	1991	05	13.26684	13	37	37.82	+17	40	00.0	18.1	3	675
1989	EO11	1991	05	15.19375	13	36	54.85	+17	40	40.2		3	675
1989	GO	1992	01	09.23733	05	08	04.57	+25	02	06.4	17.0	2	675
1989	GO	1992	01	10.21372	05	07	19.61	+25	01	58.9		2	675
1989	GO	1992	01	10.23663	05	07	18.43	+25	01	58.9		2	675
1989	SC7	1991	11	07.47153	05	10	58.67	+19	38	54.3	17.9	3	675
1989	SC7	1991	11	07.50608	05	10	57.81	+19	38	49.4		3	675
1989	SC7	1991	11	09.52222	05	10	08.95	+19	33	57.0		3	675
1989	SC7	1991	12	02.29462	04	58	45.98	+18	36	48.7	17.6	3	675
1989	SC7	1991	12	06.39809	04	56	28.48	+18	26	34.6		3	675
1989	SC7	1991	12	06.43038	04	56	27.30	+18	26	27.8		3	675
1989	SC7	1992	01	01.17552	04	43	08.42	+17	29	13.6	17.9	3	675
1989	SC7	1992	01	01.21406	04	43	07.46	+17	29	10.4		3	675
1989	SC7	1992	01	04.23542	04	41	51.42	+17	23	42.5		3	675
1990	BG	1992	01	09.53142	14	47	47.90	+19	52	01.5	16	2	675
1990	BG	1992	01	09.55920	14	48	00.96	+19	52	03.3		2	675
1990	DJ	1991	12	08.20729	02	35	20.41	-22	05	20.8	16.5	2	675
1990	DJ	1991	12	08.23681	02	35	19.32	-22	05	06.4		2	675
1990	KK	1991	12	07.50955	06	48	50.25	+28	53	24.9	15.5	2	675

1990 KK		1991	12	07.52674	06	48	49.05	+28	53	46.3		2 675
1990 OX		1991	11	02.32639	02	43	46.67	+12	28	23.7	16.5	2 675
1990 OX		1991	11	02.34826	02	43	45.49	+12	28	17.5		2 675
1990 OX		1991	11	04.39479	02	42	03.25	+12	16	07.0		2 675
1990 OX		1991	11	04.41701	02	42	02.10	+12	16	00.0		2 675
1990 OA1		1991	12	07.32118	04	55	50.66	+26	24	02.1	15.5	2 675
1990 OA1		1991	12	07.34392	04	55	49.24	+26	23	53.8		2 675
1990 SW3		1992	01	10.54670	08	58	45.94	+26	17	23.2	16.5	2 675
1990 SW3		1992	01	10.56389	08	58	45.09	+26	17	31.5		2 675
1990 VU1		1991	12	02.39670	06	17	19.45	+32	23	19.2	17.6	3 675
1990 VU1		1991	12	06.44427	06	14	58.31	+32	35	07.3		3 675
1991 PH16		1991	09	17.34861	23	38	16.10	+02	38	45.1	17.0	9 675
1991 PH16		1991	09	17.38229	23	38	13.88	+02	38	41.8		9 675
1991 RV		1991	09	14.39288	00	07	10.72	-04	28	50.2	17.2	9 675
1991 RV		1991	09	14.44635	00	07	08.42	-04	29	12.5		9 675
1991 RV		1991	09	16.38663	00	05	51.12	-04	42	48.8	17.0	9 675
1991 RV		1991	09	16.42674	00	05	49.33	-04	43	04.6		9 675
1991 RX		1991	09	15.41753	00	26	35.45	-01	33	27.6	17.5	9 675
1991 RX		1991	09	15.46424	00	26	32.18	-01	33	30.1		9 675
1991 RX		1991	09	17.36064	00	24	25.58	-01	35	31.0	17.5	9 675
1991 RX		1991	09	17.39479	00	24	23.19	-01	35	33.1		9 675
1991 RH1		1991	09	13.31910	23	21	41.18	-06	14	35.0	17.8	9 675
1991 RH1		1991	09	13.35712	23	21	38.77	-06	14	35.6		9 675
1991 RX1		1991	09	13.31910	23	33	44.63	-04	37	38.1	17.2	9 675
1991 RX1		1991	09	13.35712	23	33	42.05	-04	37	44.0		9 675
1991 RX1		1991	09	16.37674	23	30	24.85	-04	45	04.7	17.0	9 675
1991 RX1		1991	09	16.41684	23	30	22.13	-04	45	10.4		9 675
1991 RZ1		1991	10	10.16024	22	21	06.02	-01	49	26.8	17.0	2 675
1991 RZ1		1991	10	10.18559	22	21	05.99	-01	49	49.5		2 675
1991 RF2		1991	09	14.38368	23	46	59.78	+06	04	37.4	17.2	9 675
1991 RF2		1991	09	14.43767	23	46	57.08	+06	04	30.9		9 675
1991 RF2		1991	09	17.34861	23	44	33.72	+05	58	14.1	17.5	9 675
1991 RF2		1991	09	17.38229	23	44	32.05	+05	58	09.6		9 675
1991 RG2		1991	09	14.38368	23	46	51.13	+06	43	31.3	18.0	9 675
1991 RG2		1991	09	14.43767	23	46	47.87	+06	43	28.8		9 675
1991 RG2		1991	09	17.34861	23	44	02.20	+06	40	34.1	17.8	9 675
1991 RG2		1991	09	17.38229	23	44	00.23	+06	40	31.1		9 675
1991 RW12	*	1991	09	10.37515	00	10	59.02	+02	33	19.6	17.8	9 675
1991 RW12		1991	09	10.42622	00	10	56.36	+02	32	59.0		9 675
1991 RW12		1991	09	11.32257	00	10	15.00	+02	26	52.0		9 675
1991 RW12		1991	09	11.37431	00	10	12.32	+02	26	28.2	17.5	9 675
1991 RW12		1991	09	15.36128	00	06	59.56	+01	58	18.2		9 675
1991 RW12		1991	09	15.39861	00	06	57.68	+01	58	01.1	17.0	9 675
1991 RX12	*	1991	09	10.37515	00	11	44.71	+03	15	37.7	18.0	9 675
1991 RX12		1991	09	10.42622	00	11	42.46	+03	15	19.5		9 675
1991 RX12		1991	09	13.39444	00	09	40.87	+02	56	45.4	17.2	9 675
1991 RX12		1991	09	13.43212	00	09	39.14	+02	56	30.9		9 675
1991 RX12		1991	09	15.36128	00	08	16.17	+02	43	49.4	17.5	9 675
1991 RX12		1991	09	15.37153	00	08	15.68	+02	43	44.6		9 675
1991 RX12		1991	09	15.39861	00	08	14.51	+02	43	34.4		9 675
1991 RX12		1991	09	15.40851	00	08	14.01	+02	43	30.8		9 675
1991 RY12	*	1991	09	10.37515	00	13	16.80	+03	03	51.1	17.2	9 675
1991 RY12		1991	09	10.42622	00	13	13.54	+03	03	46.9		9 675
1991 RY12		1991	09	13.39444	00	10	18.42	+02	58	58.5	16.8	9 675
1991 RY12		1991	09	13.43212	00	10	15.96	+02	58	54.0		9 675
1991 RY12		1991	09	15.36128	00	08	18.40	+02	55	10.7	17.0	9 675
1991 RY12		1991	09	15.37153	00	08	17.66	+02	55	07.0		9 675
1991 RY12		1991	09	15.39861	00	08	16.01	+02	55	05.6		9 675
1991 RY12		1991	09	15.40851	00	08	15.35	+02	55	04.8		9 675

1991	RZ12	*	1991	09	10.37515	00	14	18.73	+02	12	45.5		9	675
1991	RZ12		1991	09	10.42622	00	14	16.18	+02	12	29.8		9	675
1991	RZ12		1991	09	11.32257	00	13	38.00	+02	07	47.3		9	675
1991	RZ12		1991	09	11.37431	00	13	35.38	+02	07	28.6		9	675
1991	RZ12		1991	09	15.36128	00	10	30.97	+01	45	11.9	17.5	9	675
1991	RZ12		1991	09	15.39861	00	10	29.06	+01	44	58.7		9	675
1991	RA13	*	1991	09	10.37515	00	20	51.78	+03	58	20.8	19.0	9	675
1991	RA13		1991	09	10.42622	00	20	49.30	+03	58	04.0		9	675
1991	RA13		1991	09	13.39444	00	18	34.32	+03	42	15.4	18.0	9	675
1991	RA13		1991	09	13.43212	00	18	32.47	+03	42	02.7		9	675
1991	RB13	*	1991	09	10.37515	00	24	40.82	+06	26	11.1		9	675
1991	RB13		1991	09	10.42622	00	24	38.46	+06	26	16.5		9	675
1991	RB13		1991	09	13.39444	00	22	21.06	+06	29	46.0	17.0	9	675
1991	RB13		1991	09	13.43212	00	22	19.13	+06	29	48.4		9	675
1991	RB13		1991	09	15.37153	00	20	44.34	+06	31	24.9		9	675
1991	RB13		1991	09	15.40851	00	20	42.42	+06	31	27.1		9	675
1991	RC13	*	1991	09	10.37515	00	31	57.21	-00	36	24.2	17.5	9	675
1991	RC13		1991	09	10.42622	00	31	54.26	-00	36	25.1		9	675
1991	RC13		1991	09	15.41753	00	27	23.37	-00	36	42.9	17.0	9	675
1991	RC13		1991	09	15.46424	00	27	20.47	-00	36	42.9		9	675
1991	RC13		1991	09	17.36064	00	25	31.76	-00	37	03.8		9	675
1991	RC13		1991	09	17.39479	00	25	29.72	-00	37	05.0	16.8	9	675
1991	RD13	*	1991	09	13.39444	00	00	30.69	+04	51	19.6	18.5	9	675
1991	RD13		1991	09	13.43212	00	00	28.98	+04	51	14.0		9	675
1991	RD13		1991	09	15.37153	23	59	07.24	+04	46	10.2		9	675
1991	RD13		1991	09	15.40851	23	59	05.59	+04	46	04.9		9	675
1991	RE13	*	1991	09	13.39444	00	00	43.74	+06	34	57.7	16.2	9	675
1991	RE13		1991	09	13.43212	00	00	41.30	+06	35	03.8		9	675
1991	RE13		1991	09	15.37153	23	58	40.09	+06	39	55.6	16.2	9	675
1991	RE13		1991	09	15.40851	23	58	37.66	+06	40	00.3		9	675
1991	RF13	*	1991	09	13.39444	00	01	45.55	+05	26	02.8	17.2	9	675
1991	RF13		1991	09	13.43212	00	01	43.40	+05	25	48.1		9	675
1991	RF13		1991	09	15.37153	23	59	56.71	+05	12	41.3	17.0	9	675
1991	RF13		1991	09	15.40851	23	59	54.55	+05	12	25.9		9	675
1991	RG13	*	1991	09	13.39444	00	02	52.02	+10	28	40.4	17.5	9	675
1991	RG13		1991	09	13.43212	00	02	49.59	+10	28	35.7		9	675
1991	RG13		1991	09	15.37153	00	00	48.87	+10	24	41.8	18.5	9	675
1991	RG13		1991	09	15.40851	00	00	46.36	+10	24	37.4		9	675
1991	RH13	*	1991	09	13.39444	00	03	20.67	+09	56	30.4	18.0	9	675
1991	RH13		1991	09	13.43212	00	03	18.64	+09	56	24.2	18.5	9	675
1991	RH13		1991	09	15.37153	00	01	40.94	+09	51	58.0	18.2	9	675
1991	RH13		1991	09	15.40851	00	01	38.86	+09	51	51.9		9	675
1991	RJ13	*	1991	09	13.39444	00	04	38.52	+05	44	25.7	17.5	9	675
1991	RJ13		1991	09	13.43212	00	04	36.23	+05	44	18.5		9	675
1991	RJ13		1991	09	15.37153	00	02	46.32	+05	37	50.1	17.2	9	675
1991	RJ13		1991	09	15.40851	00	02	44.10	+05	37	42.2		9	675
1991	RK13	*	1991	09	13.39444	00	04	49.17	+06	31	37.2	17.2	9	675
1991	RK13		1991	09	13.43212	00	04	46.97	+06	31	31.4		9	675
1991	RK13		1991	09	15.37153	00	02	54.98	+06	26	08.9	17.8	9	675
1991	RK13		1991	09	15.40851	00	02	52.66	+06	26	01.7		9	675
1991	RL13	*	1991	09	13.39444	00	05	19.35	+05	31	29.0	17.8	9	675
1991	RL13		1991	09	13.43212	00	05	17.29	+05	31	20.3		9	675
1991	RL13		1991	09	15.37153	00	03	34.95	+05	23	14.2	17.5	9	675
1991	RL13		1991	09	15.40851	00	03	32.87	+05	23	04.4		9	675
1991	RM13	*	1991	09	13.39444	00	06	32.78	+06	49	25.6	17.8	9	675
1991	RM13		1991	09	13.43212	00	06	30.92	+06	49	18.0		9	675
1991	RM13		1991	09	15.37153	00	04	57.60	+06	42	12.9	18.0	9	675
1991	RM13		1991	09	15.40851	00	04	55.65	+06	42	03.1		9	675
1991	RN13	*	1991	09	13.39444	00	06	46.20	+10	37	41.4	17.2	9	675

1991 RN13		1991	09	13.43212	00	06	44.12	+10	37	31.9		9 675
1991 RN13		1991	09	15.37153	00	05	02.34	+10	29	13.9	17.5	9 675
1991 RN13		1991	09	15.40851	00	05	00.22	+10	29	04.5		9 675
1991 RO13	*	1991	09	13.39444	00	07	50.60	+10	45	56.8	17.5	9 675
1991 RO13		1991	09	13.43212	00	07	48.50	+10	45	48.1	17.0	9 675
1991 RO13		1991	09	15.37153	00	06	04.19	+10	38	51.5	17.2	9 675
1991 RO13		1991	09	15.40851	00	06	02.12	+10	38	44.9		9 675
1991 RP13	*	1991	09	13.39444	00	07	52.64	+08	55	21.8	17.2	9 675
1991 RP13		1991	09	13.43212	00	07	50.48	+08	55	14.0	17.5	9 675
1991 RP13		1991	09	15.37153	00	06	04.13	+08	48	10.0		9 675
1991 RP13		1991	09	15.40851	00	06	02.02	+08	48	00.2	17.5	9 675
1991 RQ13	*	1991	09	13.39444	00	08	00.79	+06	55	32.8	18.2	9 675
1991 RQ13		1991	09	13.43212	00	07	58.67	+06	55	30.2		9 675
1991 RQ13		1991	09	15.37153	00	06	13.07	+06	53	13.4	18.2	9 675
1991 RQ13		1991	09	15.40851	00	06	10.87	+06	53	10.0		9 675
1991 RR13	*	1991	09	13.39444	00	08	18.71	+06	37	32.1	17.5	9 675
1991 RR13		1991	09	13.43212	00	08	16.60	+06	37	23.2		9 675
1991 RR13		1991	09	15.37153	00	06	30.27	+06	28	53.4	17.5	9 675
1991 RR13		1991	09	15.40851	00	06	28.11	+06	28	43.1		9 675
1991 RS13	*	1991	09	13.39444	00	08	26.32	+09	26	43.8	17.2	9 675
1991 RS13		1991	09	13.43212	00	08	24.09	+09	26	34.6		9 675
1991 RS13		1991	09	15.37153	00	06	33.37	+09	18	18.5	17.0	9 675
1991 RS13		1991	09	15.40851	00	06	31.07	+09	18	09.0		9 675
1991 RT13	*	1991	09	13.39444	00	08	30.18	+05	28	44.4	17.2	9 675
1991 RT13		1991	09	13.43212	00	08	28.08	+05	28	26.6		9 675
1991 RT13		1991	09	15.37153	00	06	46.08	+05	12	48.9	17.0	9 675
1991 RT13		1991	09	15.40851	00	06	44.00	+05	12	31.2		9 675
1991 RU13	*	1991	09	13.39444	00	08	40.22	+05	01	56.8	17.8	9 675
1991 RU13		1991	09	13.43212	00	08	38.38	+05	01	52.2		9 675
1991 RU13		1991	09	15.37153	00	07	04.74	+04	57	33.8	17.5	9 675
1991 RU13		1991	09	15.40851	00	07	02.83	+04	57	30.6		9 675
1991 RV13	*	1991	09	13.39444	00	09	01.77	+08	24	00.8	17.2	9 675
1991 RV13		1991	09	13.43212	00	08	59.99	+08	23	45.5		9 675
1991 RV13		1991	09	15.37153	00	07	32.87	+08	10	02.3	16.8	9 675
1991 RV13		1991	09	15.40851	00	07	31.06	+08	09	46.2		9 675
1991 RW13	*	1991	09	13.39444	00	09	16.83	+10	06	00.7	17.5	9 675
1991 RW13		1991	09	13.43212	00	09	14.61	+10	05	47.7		9 675
1991 RW13		1991	09	15.37153	00	07	24.13	+09	54	49.6	18.2	9 675
1991 RW13		1991	09	15.40851	00	07	22.02	+09	54	37.4		9 675
1991 RX13	*	1991	09	13.39444	00	10	09.64	+09	57	51.5	18.5	9 675
1991 RX13		1991	09	13.43212	00	10	07.92	+09	57	47.3		9 675
1991 RX13		1991	09	15.37153	00	08	41.13	+09	53	07.7	18.2	9 675
1991 RX13		1991	09	15.40851	00	08	39.44	+09	53	03.7		9 675
1991 RY13	*	1991	09	13.39444	00	10	24.54	+03	57	47.2	18.5	9 675
1991 RY13		1991	09	13.43212	00	10	22.29	+03	57	46.0	17.8	9 675
1991 RY13		1991	09	15.37153	00	08	33.31	+03	56	23.2		9 675
1991 RY13		1991	09	15.40851	00	08	31.02	+03	56	21.6		9 675
1991 RZ13	*	1991	09	13.39444	00	10	28.95	+10	21	05.1	18.2	9 675
1991 RZ13		1991	09	13.43212	00	10	26.89	+10	20	59.1		9 675
1991 RZ13		1991	09	15.37153	00	08	44.70	+10	15	28.1	18.0	9 675
1991 RZ13		1991	09	15.40851	00	08	42.54	+10	15	21.9		9 675
1991 RA14	*	1991	09	13.39444	00	10	29.45	+05	43	20.1	18.2	9 675
1991 RA14		1991	09	13.43212	00	10	27.87	+05	43	17.3	17.8	9 675
1991 RA14		1991	09	15.37153	00	09	09.20	+05	40	58.4		9 675
1991 RA14		1991	09	15.40851	00	09	07.62	+05	40	54.9	17.8	9 675
1991 RB14	*	1991	09	13.39444	00	13	25.66	+10	11	10.4	17.5	9 675
1991 RB14		1991	09	13.43212	00	13	23.63	+10	10	53.8		9 675
1991 RB14		1991	09	15.37153	00	11	44.87	+09	56	00.4		9 675
1991 RB14		1991	09	15.40851	00	11	42.86	+09	55	43.9		9 675

1991 RC14	*	1991	09	13.39444	00	15	14.08	+06	42	30.1	17.2	9 675
1991 RC14		1991	09	13.43212	00	15	13.05	+06	41	54.3	17.8	9 675
1991 RC14		1991	09	15.37153	00	14	25.87	+06	10	41.5	17.2	9 675
1991 RC14		1991	09	15.40851	00	14	24.83	+06	10	05.7		9 675
1991 RD14	*	1991	09	13.39444	00	16	24.93	+09	11	12.5	17.0	9 675
1991 RD14		1991	09	13.43212	00	16	23.03	+09	11	04.8		9 675
1991 RD14		1991	09	15.37153	00	14	48.94	+09	04	11.5	16.8	9 675
1991 RD14		1991	09	15.40851	00	14	47.00	+09	04	03.5		9 675
1991 RE14	*	1991	09	13.39444	00	16	57.20	+06	29	58.8	17.2	9 675
1991 RE14		1991	09	13.43212	00	16	54.87	+06	30	00.0		9 675
1991 RE14		1991	09	15.37153	00	14	58.25	+06	30	38.9	17.0	9 675
1991 RE14		1991	09	15.40851	00	14	55.90	+06	30	38.9		9 675
1991 RF14	*	1991	09	13.39444	00	22	49.80	+07	31	21.5	17.0	9 675
1991 RF14		1991	09	13.43212	00	22	47.86	+07	31	02.7		9 675
1991 RF14		1991	09	15.37153	00	21	17.38	+07	13	45.5		9 675
1991 RF14		1991	09	15.40851	00	21	15.59	+07	13	26.3		9 675
1991 RG14	*	1991	09	13.39444	23	52	51.09	+05	43	24.9	17.2	9 675
1991 RG14		1991	09	13.43212	23	52	48.37	+05	43	33.7		9 675
1991 RG14		1991	09	14.38368	23	51	47.11	+05	46	44.0	17.5	9 675
1991 RG14		1991	09	14.43767	23	51	43.45	+05	46	54.8		9 675
1991 RG14		1991	09	15.37153	23	50	42.41	+05	49	56.2		9 675
1991 RG14		1991	09	15.40851	23	50	39.91	+05	50	03.3		9 675
1991 RG14		1991	09	17.34861	23	48	32.01	+05	55	59.7	17.2	9 675
1991 RG14		1991	09	17.38229	23	48	29.70	+05	56	05.3		9 675
1991 RH14	*	1991	09	13.39444	23	52	55.86	+05	26	16.1	18.2	9 675
1991 RH14		1991	09	13.43212	23	52	53.48	+05	26	09.8		9 675
1991 RH14		1991	09	14.38368	23	51	57.39	+05	23	36.7	18.0	9 675
1991 RH14		1991	09	14.43767	23	51	53.95	+05	23	27.6	18.2	9 675
1991 RH14		1991	09	15.37153	23	50	58.40	+05	20	51.6		9 675
1991 RH14		1991	09	15.40851	23	50	56.08	+05	20	44.5		9 675
1991 RH14		1991	09	17.34861	23	48	59.38	+05	14	59.4	17.5	9 675
1991 RH14		1991	09	17.38229	23	48	57.28	+05	14	53.2		9 675
1991 RJ14	*	1991	09	13.39444	23	54	16.29	+08	51	14.3	17.8	9 675
1991 RJ14		1991	09	13.43212	23	54	14.06	+08	51	07.7		9 675
1991 RJ14		1991	09	15.37153	23	52	25.63	+08	44	48.2		9 675
1991 RJ14		1991	09	15.40851	23	52	23.45	+08	44	40.3		9 675
1991 RK14	*	1991	09	13.39444	23	56	00.66	+08	17	05.2	18.2	9 675
1991 RK14		1991	09	13.43212	23	55	58.96	+08	16	43.7		9 675
1991 RK14		1991	09	15.37153	23	54	39.81	+07	58	22.8	18.2	9 675
1991 RK14		1991	09	15.40851	23	54	38.16	+07	58	01.2		9 675
1991 RL14	*	1991	09	13.39444	23	58	23.23	+10	03	01.8	18.2	9 675
1991 RL14		1991	09	13.43212	23	58	21.51	+10	02	46.2		9 675
1991 RL14		1991	09	15.37153	23	56	57.27	+09	49	21.0	17.8	9 675
1991 RL14		1991	09	15.40851	23	56	55.67	+09	49	04.0		9 675
1991 RM14	*	1991	09	13.39444	23	59	53.47	+10	14	22.3	17.5	9 675
1991 RM14		1991	09	13.43212	23	59	51.59	+10	14	17.6		9 675
1991 RM14		1991	09	15.37153	23	58	18.51	+10	10	28.2	17.5	9 675
1991 RM14		1991	09	15.40851	23	58	16.64	+10	10	23.2		9 675
1991 RN14		1991	09	11.32257	00	02	27.83	+00	44	04.3		9 675
1991 RN14		1991	09	11.37431	00	02	25.89	+00	43	40.1	17.2	9 675
1991 RN14	*	1991	09	15.36128	00	00	01.20	+00	16	11.9	17.8	9 675
1991 RN14		1991	09	15.39861	23	59	59.81	+00	15	55.2		9 675
1991 RO14		1991	09	11.32257	00	03	38.80	+00	30	25.8		9 675
1991 RO14		1991	09	11.37431	00	03	36.14	+00	29	57.2	18.0	9 675
1991 RO14	*	1991	09	15.36128	00	00	26.76	-00	05	49.5	18.0	9 675
1991 RO14		1991	09	15.39861	00	00	24.94	-00	06	09.6		9 675
1991 RP14		1991	09	11.32257	00	05	19.46	+01	25	55.8		9 675
1991 RP14		1991	09	11.37431	00	05	15.91	+01	25	49.4	17.8	9 675
1991 RP14	*	1991	09	15.36128	00	01	03.72	+01	18	22.6		9 675

1991	RP14		1991	09	15.39861	00	01	01.29	+01	18	18.0	16.2	9	675
1991	RQ14		1991	09	11.32257	00	04	25.71	-02	36	24.0		9	675
1991	RQ14		1991	09	11.37431	00	04	23.32	-02	36	38.8	18.5	9	675
1991	RQ14		1991	09	14.39288	00	02	15.11	-02	49	54.8	18.0	9	675
1991	RQ14		1991	09	14.44635	00	02	12.69	-02	50	07.6	17.2	9	675
1991	RQ14	*	1991	09	15.36128	00	01	33.15	-02	54	10.7	17.5	9	675
1991	RQ14		1991	09	15.39861	00	01	31.48	-02	54	20.5		9	675
1991	RQ14		1991	09	16.38663	00	00	48.18	-02	58	43.7	17.2	9	675
1991	RQ14		1991	09	16.42674	00	00	46.38	-02	58	54.3		9	675
1991	RR14		1991	09	11.32257	00	06	25.40	-03	39	41.3		9	675
1991	RR14		1991	09	11.37431	00	06	23.03	-03	39	56.8	18.5	9	675
1991	RR14		1991	09	14.39288	00	04	11.44	-03	54	17.0	17.5	9	675
1991	RR14		1991	09	14.44635	00	04	08.95	-03	54	32.8		9	675
1991	RR14	*	1991	09	15.36128	00	03	28.46	-03	58	53.3	17.8	9	675
1991	RR14		1991	09	15.39861	00	03	26.83	-03	59	03.2		9	675
1991	RR14		1991	09	16.38663	00	02	42.73	-04	03	46.3	17.5	9	675
1991	RR14		1991	09	16.42674	00	02	40.85	-04	03	57.6		9	675
1991	RS14		1991	09	13.39444	00	05	27.91	+03	52	33.3	18.0	9	675
1991	RS14		1991	09	13.43212	00	05	25.96	+03	52	23.9		9	675
1991	RS14	*	1991	09	15.36128	00	03	52.00	+03	43	56.2		9	675
1991	RS14		1991	09	15.37153	00	03	51.33	+03	43	52.8		9	675
1991	RS14		1991	09	15.39861	00	03	50.04	+03	43	44.0	18.4	9	675
1991	RS14		1991	09	15.40851	00	03	49.47	+03	43	43.7		9	675
1991	RT14		1991	09	11.32257	00	07	08.02	-02	02	17.6		9	675
1991	RT14		1991	09	11.37431	00	07	05.75	-02	02	53.0	18.0	9	675
1991	RT14		1991	09	14.39288	00	05	07.12	-02	35	38.1	17.5	9	675
1991	RT14		1991	09	14.44635	00	05	04.83	-02	36	12.4		9	675
1991	RT14	*	1991	09	15.36128	00	04	27.99	-02	46	12.5	17.2	9	675
1991	RT14		1991	09	15.39861	00	04	26.45	-02	46	37.1		9	675
1991	RT14		1991	09	16.38663	00	03	46.08	-02	57	28.5	17.0	9	675
1991	RT14		1991	09	16.42674	00	03	44.32	-02	57	55.0		9	675
1991	RU14		1991	09	13.39444	00	06	56.60	+03	49	36.5	17.8	9	675
1991	RU14		1991	09	13.43212	00	06	55.08	+03	49	19.3		9	675
1991	RU14	*	1991	09	15.36128	00	05	39.30	+03	34	37.8		9	675
1991	RU14		1991	09	15.37153	00	05	38.90	+03	34	32.3		9	675
1991	RU14		1991	09	15.39861	00	05	37.82	+03	34	18.6	17.8	9	675
1991	RU14		1991	09	15.40851	00	05	37.33	+03	34	15.6		9	675
1991	RV14		1991	09	11.32257	00	08	59.37	+02	40	57.6		9	675
1991	RV14		1991	09	11.37431	00	08	56.84	+02	40	36.9		9	675
1991	RV14	*	1991	09	15.36128	00	06	02.11	+02	15	18.9	17.8	9	675
1991	RV14		1991	09	15.39861	00	06	00.32	+02	15	04.1		9	675
1991	RW14		1991	09	13.39444	00	07	40.33	+03	18	15.0	17.2	9	675
1991	RW14		1991	09	13.43212	00	07	38.45	+03	18	01.9		9	675
1991	RW14	*	1991	09	15.36128	00	06	05.61	+03	06	53.6	17.5	9	675
1991	RW14		1991	09	15.37153	00	06	05.03	+03	06	48.4		9	675
1991	RW14		1991	09	15.39861	00	06	03.78	+03	06	39.3		9	675
1991	RW14		1991	09	15.40851	00	06	03.18	+03	06	37.0		9	675
1991	RX14		1991	09	11.32257	00	11	41.66	-00	26	41.5		9	675
1991	RX14		1991	09	11.37431	00	11	39.30	-00	27	00.6	17.8	9	675
1991	RX14	*	1991	09	15.36128	00	08	49.84	-00	50	06.6	17.2	9	675
1991	RX14		1991	09	15.39861	00	08	48.09	-00	50	19.2		9	675
1991	RY14		1991	09	11.32257	00	13	19.09	-00	15	53.7		9	675
1991	RY14		1991	09	11.37431	00	13	15.76	-00	15	58.2	18.5	9	675
1991	RY14	*	1991	09	15.36128	00	09	19.61	-00	22	04.4	18.2	9	675
1991	RY14		1991	09	15.39861	00	09	17.24	-00	22	07.9		9	675
1991	RZ14		1991	09	11.32257	23	46	22.48	-00	30	28.9		9	675
1991	RZ14		1991	09	11.37431	23	46	20.02	-00	30	45.9	17.8	9	675
1991	RZ14		1991	09	13.31910	23	44	52.34	-00	41	11.0	17.8	9	675
1991	RZ14		1991	09	13.35712	23	44	50.46	-00	41	23.0		9	675

1991 RZ14	*	1991	09	15.36128	23	43	19.08	-00	52	13.3	17.5	9	675
1991 RZ14		1991	09	15.39861	23	43	17.39	-00	52	25.8		9	675
1991 RZ14		1991	09	16.37674	23	42	32.45	-00	57	48.7	17.2	9	675
1991 RZ14		1991	09	16.41684	23	42	30.57	-00	58	02.0		9	675
1991 RA15		1991	09	11.32257	23	48	22.14	-01	19	35.1		9	675
1991 RA15		1991	09	11.37431	23	48	19.65	-01	19	51.0	18.2	9	675
1991 RA15		1991	09	13.31910	23	46	54.08	-01	29	09.3	18.0	9	675
1991 RA15		1991	09	13.35712	23	46	52.23	-01	29	20.3		9	675
1991 RA15	*	1991	09	15.36128	23	45	23.37	-01	39	00.1	17.8	9	675
1991 RA15		1991	09	15.39861	23	45	21.67	-01	39	10.8		9	675
1991 RA15		1991	09	16.37674	23	44	38.07	-01	43	56.4	17.5	9	675
1991 RA15		1991	09	16.41684	23	44	36.26	-01	44	07.3		9	675
1991 RB15		1991	09	11.32257	23	51	33.61	+00	54	41.3		9	675
1991 RB15		1991	09	11.37431	23	51	30.83	+00	54	30.9	17.8	9	675
1991 RB15	*	1991	09	15.36128	23	48	10.49	+00	41	04.8	18.0	9	675
1991 RB15		1991	09	15.39861	23	48	08.57	+00	40	56.3		9	675
1991 RC15		1991	09	11.32257	23	53	36.63	-00	43	20.3		9	675
1991 RC15		1991	09	11.37431	23	53	34.21	-00	43	36.2	18.5	9	675
1991 RC15	*	1991	09	15.36128	23	50	41.00	-01	03	56.3	18.0	9	675
1991 RC15		1991	09	15.39861	23	50	39.33	-01	04	08.5		9	675
1991 RD15		1991	09	11.32257	23	55	10.48	-00	31	08.5		9	675
1991 RD15		1991	09	11.37431	23	55	07.98	-00	31	32.2	18.5	9	675
1991 RD15	*	1991	09	15.36128	23	52	10.72	-01	00	53.3	18.5	9	675
1991 RD15		1991	09	15.39861	23	52	09.06	-01	01	10.8		9	675
1991 RE15		1991	09	11.32257	23	57	16.06	+03	11	49.9		9	675
1991 RE15		1991	09	11.37431	23	57	12.46	+03	11	54.7	16.2	9	675
1991 RE15		1991	09	14.38368	23	53	56.85	+03	16	00.2	16.5	9	675
1991 RE15		1991	09	14.43767	23	53	53.16	+03	16	03.7		9	675
1991 RE15	*	1991	09	15.36128	23	52	52.71	+03	17	04.8	16.8	9	675
1991 RE15		1991	09	15.39861	23	52	50.20	+03	17	06.6		9	675
1991 RE15		1991	09	17.34861	23	50	41.36	+03	18	57.3	16.2	9	675
1991 RE15		1991	09	17.38229	23	50	38.99	+03	18	58.3		9	675
1991 RF15		1991	09	11.32257	23	56	22.15	+01	03	11.4		9	675
1991 RF15		1991	09	11.37431	23	56	19.69	+01	02	55.4	18.0	9	675
1991 RF15	*	1991	09	15.36128	23	53	20.45	+00	41	54.9	17.8	9	675
1991 RF15		1991	09	15.39861	23	53	18.82	+00	41	41.9		9	675
1991 RG15		1991	09	11.32257	23	56	42.36	+02	09	23.8		9	675
1991 RG15		1991	09	11.37431	23	56	39.70	+02	09	12.7	18.0	9	675
1991 RG15	*	1991	09	15.36128	23	53	35.15	+01	55	02.6	18.0	9	675
1991 RG15		1991	09	15.39861	23	53	33.32	+01	54	53.2		9	675
1991 RH15		1991	09	11.32257	23	57	03.36	+02	45	45.1		9	675
1991 RH15		1991	09	11.37431	23	57	00.55	+02	45	17.6	17.5	9	675
1991 RH15	*	1991	09	15.36128	23	53	37.75	+02	11	00.0	17.8	9	675
1991 RH15		1991	09	15.39861	23	53	35.83	+02	10	38.6		9	675
1991 RJ15		1991	09	11.32257	23	57	57.51	+00	11	14.9		9	675
1991 RJ15		1991	09	11.37431	23	57	54.71	+00	11	05.8	18.5	9	675
1991 RJ15	*	1991	09	15.36128	23	54	27.10	+00	00	12.9		9	675
1991 RJ15		1991	09	15.39861	23	54	25.08	+00	00	05.9	18.2	9	675
1991 RK15		1991	09	11.32257	23	59	16.86	-02	10	35.0		9	675
1991 RK15		1991	09	11.37431	23	59	13.66	-02	10	41.2	17.0	9	675
1991 RK15		1991	09	14.39288	23	56	19.81	-02	16	05.7	16.5	9	675
1991 RK15		1991	09	14.44635	23	56	16.51	-02	16	11.2		9	675
1991 RK15	*	1991	09	15.36128	23	55	23.02	-02	17	50.5	16.8	9	675
1991 RK15		1991	09	15.39861	23	55	20.75	-02	17	55.3		9	675
1991 RK15		1991	09	16.38663	23	54	22.26	-02	19	45.4	16.8	9	675
1991 RK15		1991	09	16.42674	23	54	19.80	-02	19	48.8		9	675
1991 RL15		1991	09	11.32257	23	59	57.91	-02	10	59.2		9	675
1991 RL15		1991	09	11.37431	23	59	54.28	-02	10	49.5	18.5	9	675
1991 RL15		1991	09	14.39288	23	56	30.23	-02	00	47.4	17.5	9	675

1991 RL15		1991 09 14.44635	23 56 26.47	-02 00 34.7		9	675
1991 RL15	*	1991 09 15.36128	23 55 23.79	-01 57 31.4	17.8	9	675
1991 RL15		1991 09 15.39861	23 55 21.21	-01 57 24.6		9	675
1991 RL15		1991 09 16.38663	23 54 12.91	-01 54 09.4	17.5	9	675
1991 RL15		1991 09 16.42674	23 54 10.07	-01 53 59.2		9	675
1991 RM15		1991 09 11.32257	23 59 16.99	+03 14 21.6		9	675
1991 RM15		1991 09 11.37431	23 59 14.07	+03 14 09.0	17.2	9	675
1991 RM15	*	1991 09 15.36128	23 55 45.66	+02 57 34.9	17.5	9	675
1991 RM15		1991 09 15.39861	23 55 43.68	+02 57 23.9		9	675
1991 RM15		1991 09 17.34861	23 53 59.55	+02 48 44.6		9	675
1991 RM15		1991 09 17.38229	23 53 57.61	+02 48 34.4		9	675
1991 RN15		1991 09 11.32257	23 59 45.45	-03 16 18.1		9	675
1991 RN15		1991 09 11.37431	23 59 42.48	-03 16 24.7	17.5	9	675
1991 RN15		1991 09 14.39288	23 57 03.07	-03 22 01.9	17.5	9	675
1991 RN15		1991 09 14.44635	23 56 59.94	-03 22 07.8		9	675
1991 RN15	*	1991 09 15.36128	23 56 10.61	-03 23 50.5	17.8	9	675
1991 RN15		1991 09 15.39861	23 56 08.52	-03 23 54.7		9	675
1991 RN15		1991 09 16.38663	23 55 14.26	-03 25 47.9	17.5	9	675
1991 RN15		1991 09 16.42674	23 55 11.87	-03 25 50.8		9	675
1991 RO15		1991 09 11.32257	23 59 25.63	+01 48 58.0		9	675
1991 RO15		1991 09 11.37431	23 59 23.05	+01 48 54.4	17.2	9	675
1991 RO15	*	1991 09 15.36128	23 56 17.51	+01 44 02.5	16.8	9	675
1991 RO15		1991 09 15.39861	23 56 15.70	+01 43 58.6		9	675
1991 RP15		1991 09 11.32257	23 59 56.74	-01 57 42.2		9	675
1991 RP15		1991 09 11.37431	23 59 54.35	-01 57 57.5	17.5	9	675
1991 RP15		1991 09 14.39288	23 57 42.27	-02 11 42.6	17.8	9	675
1991 RP15		1991 09 14.44635	23 57 39.76	-02 11 56.5		9	675
1991 RP15	*	1991 09 15.36128	23 56 59.05	-02 16 09.1	17.8	9	675
1991 RP15		1991 09 15.39861	23 56 57.38	-02 16 19.8		9	675
1991 RP15		1991 09 16.38663	23 56 12.86	-02 20 55.1	17.5	9	675
1991 RP15		1991 09 16.42674	23 56 10.96	-02 21 05.2		9	675
1991 RQ15		1991 09 11.32257	23 59 56.55	+01 34 56.3		9	675
1991 RQ15		1991 09 11.37431	23 59 54.20	+01 34 41.7	18.5	9	675
1991 RQ15	*	1991 09 15.36128	23 57 07.97	+01 13 14.1		9	675
1991 RQ15		1991 09 15.39861	23 57 06.32	+01 13 00.8	17.5	9	675
1991 RR15		1991 09 11.32257	00 00 14.21	-00 44 51.8		9	675
1991 RR15		1991 09 11.37431	00 00 11.80	-00 45 10.0	18.5	9	675
1991 RR15	*	1991 09 15.36128	23 57 17.15	-01 07 27.2	17.8	9	675
1991 RR15		1991 09 15.39861	23 57 15.48	-01 07 40.5		9	675
1991 RS15		1991 09 11.32257	00 01 03.81	-03 43 51.5		9	675
1991 RS15		1991 09 11.37431	00 01 00.67	-03 43 55.4	18.5	9	675
1991 RS15	*	1991 09 15.36128	23 57 20.49	-03 48 08.5	18.4	9	675
1991 RS15		1991 09 15.39861	23 57 18.40	-03 48 10.9		9	675
1991 RT15		1991 09 11.32257	00 00 04.00	+02 07 04.6		9	675
1991 RT15		1991 09 11.37431	00 00 01.79	+02 06 31.8	17.5	9	675
1991 RT15	*	1991 09 15.36128	23 57 29.96	+01 25 40.5	17.0	9	675
1991 RT15		1991 09 15.39861	23 57 28.43	+01 25 15.7		9	675
1991 RU15		1991 09 11.32257	00 01 47.30	+02 12 51.2		9	675
1991 RU15		1991 09 11.37431	00 01 43.99	+02 12 43.8	18.5	9	675
1991 RU15	*	1991 09 15.36128	23 57 51.54	+02 01 46.6	17.0	9	675
1991 RU15		1991 09 15.39861	23 57 49.28	+02 01 37.4		9	675
1991 RV15		1991 09 11.32257	00 01 14.18	+02 26 05.5		9	675
1991 RV15		1991 09 11.37431	00 01 11.51	+02 25 59.6	18.5	9	675
1991 RV15	*	1991 09 15.36128	23 58 01.07	+02 17 57.5	17.8	9	675
1991 RV15		1991 09 15.39861	23 57 59.17	+02 17 49.6		9	675
1991 RW15		1991 09 11.32257	00 02 27.20	-00 17 46.5		9	675
1991 RW15		1991 09 11.37431	00 02 23.47	-00 17 42.4	18.5	9	675
1991 RW15	*	1991 09 15.36128	23 58 03.19	-00 12 44.5	18.0	9	675
1991 RW15		1991 09 15.39861	23 58 00.77	-00 12 41.4		9	675

1991	RX15		1991	09	11.32257	00	00	51.31	+01	00	31.2		9	675
1991	RX15		1991	09	11.37431	00	00	49.05	+01	00	09.3	18.5	9	675
1991	RX15	*	1991	09	15.36128	23	58	09.66	+00	32	31.8	17.8	9	675
1991	RX15		1991	09	15.39861	23	58	08.14	+00	32	15.2		9	675
1991	RY15		1991	09	11.32257	00	02	48.80	-03	19	52.7		9	675
1991	RY15		1991	09	11.37431	00	02	46.38	-03	20	12.5	18.5	9	675
1991	RY15		1991	09	14.39288	00	00	33.27	-03	37	56.1	17.5	9	675
1991	RY15		1991	09	14.44635	00	00	30.73	-03	38	15.2		9	675
1991	RY15	*	1991	09	15.36128	23	59	49.77	-03	43	38.3	17.0	9	675
1991	RY15		1991	09	15.39861	23	59	48.08	-03	43	50.5		9	675
1991	RY15		1991	09	16.38663	23	59	03.27	-03	49	40.8	17.0	9	675
1991	RY15		1991	09	16.42674	23	59	01.45	-03	49	54.8		9	675
1991	RZ15		1991	09	11.32257	00	08	15.54	-02	09	49.4		9	675
1991	RZ15		1991	09	11.37431	00	08	13.13	-02	10	04.1	17.8	9	675
1991	RZ15		1991	09	14.39288	00	06	02.14	-02	23	25.0	17.8	9	675
1991	RZ15		1991	09	14.44635	00	05	59.71	-02	23	37.6		9	675
1991	RZ15		1991	09	15.36128	00	05	19.36	-02	27	41.2	17.8	9	675
1991	RZ15	*	1991	09	15.39861	00	05	17.64	-02	27	51.0		9	675
1991	RZ15		1991	09	16.38663	00	04	33.60	-02	32	14.7	17.8	9	675
1991	RZ15		1991	09	16.42674	00	04	31.83	-02	32	26.3		9	675
1991	RA16		1991	09	14.39288	00	10	37.97	-05	41	36.1	17.8	9	675
1991	RA16		1991	09	14.44635	00	10	35.34	-05	41	56.8		9	675
1991	RA16	*	1991	09	15.41753	00	09	50.11	-05	48	13.7		9	675
1991	RA16		1991	09	15.46424	00	09	47.79	-05	48	31.5		9	675
1991	RA16		1991	09	16.38663	00	09	04.38	-05	54	29.0	17.5	9	675
1991	RA16		1991	09	16.42674	00	09	02.46	-05	54	44.1		9	675
1991	RA16		1991	09	17.36064	00	08	18.10	-06	00	45.4	17.8	9	675
1991	RA16		1991	09	17.39479	00	08	16.43	-06	00	58.1		9	675
1991	RB16		1991	09	14.39288	00	10	47.04	-04	30	56.2	17.0	9	675
1991	RB16		1991	09	14.44635	00	10	43.92	-04	31	08.3		9	675
1991	RB16	*	1991	09	15.41753	00	09	50.85	-04	34	51.1		9	675
1991	RB16		1991	09	15.46424	00	09	48.03	-04	35	00.3		9	675
1991	RB16		1991	09	16.38663	00	08	57.23	-04	38	30.3	17.2	9	675
1991	RB16		1991	09	16.42674	00	08	54.86	-04	38	39.3		9	675
1991	RB16		1991	09	17.36064	00	08	02.81	-04	42	09.6		9	675
1991	RB16		1991	09	17.39479	00	08	00.75	-04	42	16.5		9	675
1991	RC16	*	1991	09	15.41753	00	09	53.84	-06	21	03.7	17.8	9	675
1991	RC16		1991	09	15.46424	00	09	51.55	-06	21	22.4		9	675
1991	RC16		1991	09	17.36064	00	08	24.48	-06	34	23.1	17.8	9	675
1991	RC16		1991	09	17.39479	00	08	22.75	-06	34	35.4		9	675
1991	RD16		1991	09	11.32257	00	12	59.34	-02	31	03.6		9	675
1991	RD16		1991	09	11.37431	00	12	57.08	-02	31	33.4	18.5	9	675
1991	RD16		1991	09	14.39288	00	11	08.49	-03	00	51.0	17.8	9	675
1991	RD16		1991	09	14.44635	00	11	06.22	-03	01	21.3		9	675
1991	RD16	*	1991	09	15.41753	00	10	29.33	-03	10	52.7		9	675
1991	RD16		1991	09	15.46424	00	10	27.33	-03	11	18.7		9	675
1991	RD16		1991	09	16.38663	00	09	51.81	-03	20	25.0	17.5	9	675
1991	RD16		1991	09	16.42674	00	09	50.09	-03	20	49.1		9	675
1991	RD16		1991	09	17.36064	00	09	13.28	-03	30	02.9		9	675
1991	RD16		1991	09	17.39479	00	09	11.63	-03	30	22.2		9	675
1991	RE16		1991	09	14.39288	00	11	15.10	-06	08	22.8	17.0	9	675
1991	RE16		1991	09	14.44635	00	11	12.85	-06	08	47.8		9	675
1991	RE16	*	1991	09	15.41753	00	10	33.70	-06	16	19.8	17.2	9	675
1991	RE16		1991	09	15.46424	00	10	31.65	-06	16	40.3		9	675
1991	RE16		1991	09	16.38663	00	09	54.05	-06	23	47.8	17.0	9	675
1991	RE16		1991	09	16.42674	00	09	52.38	-06	24	06.3		9	675
1991	RE16		1991	09	17.36064	00	09	14.11	-06	31	18.1	17.2	9	675
1991	RE16		1991	09	17.39479	00	09	12.62	-06	31	33.5		9	675
1991	RF16		1991	09	14.39288	00	12	35.78	-05	54	17.1	17.5	9	675

1991	RF16		1991	09	14.44635	00	12	33.01	-05	54	31.7		9	675
1991	RF16	*	1991	09	15.41753	00	11	45.97	-05	59	09.7	18.0	9	675
1991	RF16		1991	09	15.46424	00	11	43.51	-05	59	22.4		9	675
1991	RF16		1991	09	16.38663	00	10	58.24	-06	03	44.3	17.5	9	675
1991	RF16		1991	09	16.42674	00	10	56.20	-06	03	55.7		9	675
1991	RF16		1991	09	17.36064	00	10	09.94	-06	08	18.5	18.0	9	675
1991	RF16		1991	09	17.39479	00	10	08.12	-06	08	27.8		9	675
1991	RG16	*	1991	09	15.41753	00	13	00.95	-06	42	34.8	18.0	9	675
1991	RG16		1991	09	15.46424	00	12	58.09	-06	42	46.0		9	675
1991	RG16		1991	09	16.38663	00	12	04.70	-06	46	22.6	17.5	9	675
1991	RG16		1991	09	16.42674	00	12	02.25	-06	46	31.0		9	675
1991	RG16		1991	09	17.36064	00	11	07.77	-06	50	07.1		9	675
1991	RG16		1991	09	17.39479	00	11	05.62	-06	50	14.0		9	675
1991	RH16		1991	09	11.32257	00	16	23.63	-00	57	26.5		9	675
1991	RH16		1991	09	11.37431	00	16	21.37	-00	57	53.5		9	675
1991	RH16	*	1991	09	15.41753	00	13	28.80	-01	31	55.7	17.5	9	675
1991	RH16		1991	09	15.46424	00	13	26.52	-01	32	17.1		9	675
1991	RH16		1991	09	17.36064	00	12	01.44	-01	48	36.2	17.5	9	675
1991	RH16		1991	09	17.39479	00	11	59.51	-01	48	48.7		9	675
1991	RJ16		1991	09	14.39288	00	14	33.05	-05	32	00.0	16.8	9	675
1991	RJ16		1991	09	14.44635	00	14	29.57	-05	32	03.4		9	675
1991	RJ16	*	1991	09	15.41753	00	13	30.44	-05	33	13.1	16.8	9	675
1991	RJ16		1991	09	15.46424	00	13	27.38	-05	33	15.7		9	675
1991	RJ16		1991	09	16.38663	00	12	30.51	-05	34	17.3	16.8	9	675
1991	RJ16		1991	09	16.42674	00	12	28.01	-05	34	20.6		9	675
1991	RJ16		1991	09	17.36064	00	11	29.93	-05	35	21.6	16.8	9	675
1991	RJ16		1991	09	17.39479	00	11	27.68	-05	35	23.2		9	675
1991	RK16	*	1991	09	15.41753	00	16	14.45	-03	16	09.9	17.2	9	675
1991	RK16		1991	09	15.46424	00	16	12.05	-03	16	22.8		9	675
1991	RK16		1991	09	17.36064	00	14	39.44	-03	25	32.9	17.2	9	675
1991	RK16		1991	09	17.39479	00	14	37.64	-03	25	41.6		9	675
1991	RL16	*	1991	09	15.41753	00	16	39.71	-06	23	31.8	17.5	9	675
1991	RL16		1991	09	15.46424	00	16	36.89	-06	23	52.0		9	675
1991	RL16		1991	09	17.36064	00	14	49.27	-06	38	01.2	17.5	9	675
1991	RL16		1991	09	17.39479	00	14	47.25	-06	38	15.9		9	675
1991	RM16	*	1991	09	15.41753	00	17	34.80	-08	12	24.1	18.0	9	675
1991	RM16		1991	09	15.46424	00	17	32.39	-08	12	52.8		9	675
1991	RM16		1991	09	17.36064	00	16	04.84	-08	32	20.9	18.0	9	675
1991	RM16		1991	09	17.39479	00	16	03.10	-08	32	40.2		9	675
1991	RN16	*	1991	09	15.41753	00	20	37.99	-06	18	45.0	17.5	9	675
1991	RN16		1991	09	15.46424	00	20	35.60	-06	19	01.8		9	675
1991	RN16		1991	09	17.36064	00	19	03.17	-06	30	55.5	17.5	9	675
1991	RN16		1991	09	17.39479	00	19	01.40	-06	31	08.1		9	675
1991	RO16	*	1991	09	15.41753	00	21	04.99	-05	19	43.4	18.2	9	675
1991	RO16		1991	09	15.46424	00	21	02.82	-05	19	53.2		9	675
1991	RO16		1991	09	17.36064	00	19	38.78	-05	27	43.9	18.2	9	675
1991	RO16		1991	09	17.39479	00	19	37.26	-05	27	59.3		9	675
1991	RP16	*	1991	09	15.41753	00	22	06.23	-08	41	29.9	17.8	9	675
1991	RP16		1991	09	15.46424	00	22	04.35	-08	41	51.3		9	675
1991	RP16		1991	09	17.36064	00	20	51.29	-08	56	20.6	17.8	9	675
1991	RP16		1991	09	17.39479	00	20	49.86	-08	56	34.6		9	675
1991	RQ16	*	1991	09	15.41753	00	22	35.52	-05	07	16.6	18.2	9	675
1991	RQ16		1991	09	15.46424	00	22	33.16	-05	07	28.1		9	675
1991	RQ16		1991	09	17.36064	00	21	02.79	-05	16	54.5	18.2	9	675
1991	RQ16		1991	09	17.39479	00	21	01.02	-05	17	04.0		9	675
1991	RR16	*	1991	09	15.41753	00	24	22.71	-02	26	32.4	18.2	9	675
1991	RR16		1991	09	15.46424	00	24	20.64	-02	26	39.7		9	675
1991	RR16		1991	09	17.36064	00	22	58.73	-02	31	59.0	18.2	9	675
1991	RR16		1991	09	17.39479	00	22	57.25	-02	32	04.8		9	675

1991 RS16	*	1991	09	15.41753	00	26	08.68	-04	18	43.4	18.2	9	675
1991 RS16		1991	09	15.46424	00	26	06.79	-04	19	01.6		9	675
1991 RS16		1991	09	17.36064	00	24	50.43	-04	31	39.1	18.2	9	675
1991 RS16		1991	09	17.39479	00	24	48.94	-04	31	51.0		9	675
1991 RT16	*	1991	09	15.41753	00	26	08.81	-04	38	19.2	18.2	9	675
1991 RT16		1991	09	15.46424	00	26	06.30	-04	38	26.0		9	675
1991 RT16		1991	09	17.36064	00	24	28.21	-04	44	00.1	18.2	9	675
1991 RT16		1991	09	17.39479	00	24	26.32	-04	44	03.9		9	675
1991 RU16	*	1991	09	15.41753	00	26	16.54	-05	00	12.8	18.2	9	675
1991 RU16		1991	09	15.46424	00	26	13.72	-05	00	17.6		9	675
1991 RU16		1991	09	17.36064	00	24	24.97	-05	04	34.7	18.2	9	675
1991 RU16		1991	09	17.39479	00	24	22.92	-05	04	37.5		9	675
1991 RV16	*	1991	09	15.41753	00	28	22.87	-02	51	38.2	17.8	9	675
1991 RV16		1991	09	15.46424	00	28	20.05	-02	51	43.2		9	675
1991 RV16		1991	09	17.36064	00	26	29.61	-02	55	22.1	17.8	9	675
1991 RV16		1991	09	17.39479	00	26	27.49	-02	55	24.9		9	675
1991 RW16	*	1991	09	15.41753	00	28	56.32	-08	19	03.6	18.5	9	675
1991 RW16		1991	09	15.46424	00	28	54.07	-08	19	02.7		9	675
1991 RW16		1991	09	17.36064	00	27	30.73	-08	18	44.0		9	675
1991 RW16		1991	09	17.39479	00	27	29.00	-08	18	42.3		9	675
1991 RX16	*	1991	09	15.41753	00	29	03.89	-04	23	56.5	17.8	9	675
1991 RX16		1991	09	15.46424	00	29	01.49	-04	24	02.6		9	675
1991 RX16		1991	09	17.36064	00	27	29.27	-04	28	29.7	17.8	9	675
1991 RX16		1991	09	17.39479	00	27	27.53	-04	28	33.6		9	675
1991 RY16	*	1991	09	15.41753	00	30	17.38	-07	15	52.4	17.5	9	675
1991 RY16		1991	09	15.46424	00	30	15.07	-07	16	05.2		9	675
1991 RY16		1991	09	17.36064	00	28	47.02	-07	24	54.0		9	675
1991 RY16		1991	09	17.39479	00	28	45.38	-07	25	02.6		9	675
1991 RZ16	*	1991	09	15.41753	00	30	46.72	-01	44	40.5	18.0	9	675
1991 RZ16		1991	09	15.46424	00	30	44.27	-01	44	53.4		9	675
1991 RZ16		1991	09	17.36064	00	29	13.58	-01	54	46.6	18.0	9	675
1991 RZ16		1991	09	17.39479	00	29	11.81	-01	54	56.6		9	675
1991 RA17	*	1991	09	15.41753	00	31	01.08	-06	27	52.9	17.2	9	675
1991 RA17		1991	09	15.46424	00	30	58.32	-06	27	56.7		9	675
1991 RA17		1991	09	17.36064	00	29	10.63	-06	31	24.3		9	675
1991 RA17		1991	09	17.39479	00	29	08.56	-06	31	27.5		9	675
1991 RB17	*	1991	09	15.41753	00	32	59.25	-04	43	33.6	17.2	9	675
1991 RB17		1991	09	15.46424	00	32	56.80	-04	43	56.8		9	675
1991 RB17		1991	09	17.36064	00	31	21.18	-04	59	49.5	17.2	9	675
1991 RB17		1991	09	17.39479	00	31	19.31	-05	00	05.3		9	675
1991 RC17	*	1991	09	15.41753	00	35	04.69	-03	37	09.4	18.2	9	675
1991 RC17		1991	09	15.46424	00	35	02.04	-03	37	17.8		9	675
1991 RC17		1991	09	17.36064	00	33	18.34	-03	43	10.8	18.2	9	675
1991 RC17		1991	09	17.39479	00	33	16.55	-03	43	13.5		9	675
1991 RD17	*	1991	09	15.41753	00	36	05.07	-03	33	15.9	17.0	9	675
1991 RD17		1991	09	15.46424	00	36	02.58	-03	33	24.9		9	675
1991 RD17		1991	09	17.36064	00	34	28.17	-03	39	43.8	17.0	9	675
1991 RD17		1991	09	17.39479	00	34	26.35	-03	39	49.0		9	675
1991 RE17	*	1991	09	15.41753	00	36	35.63	-04	40	59.8	17.5	9	675
1991 RE17		1991	09	15.46424	00	36	31.81	-04	40	45.4		9	675
1991 RE17		1991	09	17.36064	00	34	00.30	-04	30	55.9	17.5	9	675
1991 RE17		1991	09	17.39479	00	33	57.43	-04	30	44.5		9	675
1991 RF17	*	1991	09	15.41753	00	38	47.74	-04	45	23.8	18.2	9	675
1991 RF17		1991	09	15.46424	00	38	45.27	-04	45	28.8		9	675
1991 RF17		1991	09	17.36064	00	37	05.31	-04	50	02.7	18.2	9	675
1991 RF17		1991	09	17.39479	00	37	03.51	-04	50	05.5		9	675
1991 RG17	*	1991	09	15.46424	00	35	19.24	-01	49	25.1		9	675
1991 RG17		1991	09	17.36064	00	33	54.68	-02	03	00.9	17.2	9	675
1991 RG17		1991	09	17.39479	00	33	53.02	-02	03	13.9		9	675

1991	RH17	*	1991	09	11.32257	00	01	35.37	-03	10	10.5		9	675
1991	RH17		1991	09	11.37431	00	01	31.91	-03	10	27.4	18.5	9	675
1991	RH17		1991	09	14.39288	23	58	25.16	-03	25	17.6	18.2	9	675
1991	RH17		1991	09	14.44635	23	58	21.63	-03	25	33.4		9	675
1991	RH17		1991	09	16.38663	23	56	19.50	-03	35	07.0	17.5	9	675
1991	RH17		1991	09	16.42674	23	56	16.94	-03	35	18.5		9	675
1991	RJ17	*	1991	09	11.32257	23	42	58.18	+00	25	30.5		9	675
1991	RJ17		1991	09	11.37431	23	42	54.62	+00	25	14.0		9	675
1991	RJ17		1991	09	13.31910	23	40	51.58	+00	14	53.2	17.5	9	675
1991	RJ17		1991	09	13.35712	23	40	49.02	+00	14	41.8		9	675
1991	RJ17		1991	09	16.37674	23	37	37.43	-00	01	37.1	17.5	9	675
1991	RJ17		1991	09	16.41684	23	37	34.88	-00	01	49.1		9	675
1991	RK17	*	1991	09	11.32257	23	43	47.19	-00	23	41.0		9	675
1991	RK17		1991	09	11.37431	23	43	44.29	-00	23	58.8	18.5	9	675
1991	RK17		1991	09	13.31910	23	42	05.51	-00	34	56.1	18.5	9	675
1991	RK17		1991	09	13.35712	23	42	03.38	-00	35	08.3		9	675
1991	RK17		1991	09	16.37674	23	39	27.41	-00	52	28.4	18.0	9	675
1991	RK17		1991	09	16.41684	23	39	25.29	-00	52	42.1		9	675
1991	RL17	*	1991	09	11.32257	23	44	00.51	+01	02	31.3		9	675
1991	RL17		1991	09	11.37431	23	43	57.90	+01	02	14.0		9	675
1991	RL17		1991	09	14.38368	23	41	45.65	+00	45	58.7	17.5	9	675
1991	RL17		1991	09	14.43767	23	41	43.10	+00	45	40.2		9	675
1991	RL17		1991	09	16.37674	23	40	16.67	+00	34	44.6	17.5	9	675
1991	RL17		1991	09	16.41684	23	40	14.74	+00	34	30.9		9	675
1991	RL17		1991	09	17.34861	23	39	33.39	+00	29	17.7	17.0	9	675
1991	RL17		1991	09	17.38229	23	39	31.75	+00	29	06.0		9	675
1991	RM17	*	1991	09	11.32257	23	44	10.76	+00	47	55.5		9	675
1991	RM17		1991	09	11.37431	23	44	07.26	+00	47	43.3		9	675
1991	RM17		1991	09	16.37674	23	38	53.46	+00	27	40.1	17.8	9	675
1991	RM17		1991	09	16.41684	23	38	50.83	+00	27	30.3		9	675
1991	RN17	*	1991	09	11.32257	23	44	21.33	+00	30	07.3		9	675
1991	RN17		1991	09	11.37431	23	44	19.41	+00	29	24.3		9	675
1991	RN17		1991	09	13.31910	23	43	14.68	+00	02	30.9	16.8	9	675
1991	RN17		1991	09	13.35712	23	43	13.21	+00	01	59.0		9	675
1991	RN17		1991	09	16.37674	23	41	29.11	-00	40	38.9	16.8	9	675
1991	RN17		1991	09	16.41684	23	41	27.61	-00	41	13.3		9	675
1991	RO17	*	1991	09	11.32257	23	46	15.00	-02	43	53.6		9	675
1991	RO17		1991	09	11.37431	23	46	12.46	-02	44	08.0		9	675
1991	RO17		1991	09	13.31910	23	44	46.12	-02	53	03.7	17.8	9	675
1991	RO17		1991	09	13.35712	23	44	44.24	-02	53	12.4		9	675
1991	RO17		1991	09	16.37674	23	42	27.87	-03	07	09.3	18.0	9	675
1991	RO17		1991	09	16.41684	23	42	26.03	-03	07	20.0		9	675
1991	RP17	*	1991	09	11.32257	23	46	32.20	-00	13	37.0		9	675
1991	RP17		1991	09	11.37431	23	46	28.42	-00	13	32.6	17.0	9	675
1991	RP17		1991	09	13.31910	23	44	16.57	-00	11	02.4	17.0	9	675
1991	RP17		1991	09	13.35712	23	44	13.75	-00	10	59.0		9	675
1991	RP17		1991	09	16.37674	23	40	48.61	-00	07	28.5	17.2	9	675
1991	RP17		1991	09	16.41684	23	40	45.82	-00	07	27.0		9	675
1991	RQ17	*	1991	09	11.32257	23	48	13.94	+00	29	10.8		9	675
1991	RQ17		1991	09	11.37431	23	48	10.15	+00	29	24.2	18.0	9	675
1991	RQ17		1991	09	14.38368	23	44	41.48	+00	41	48.3	17.5	9	675
1991	RQ17		1991	09	14.43767	23	44	37.60	+00	42	01.4		9	675
1991	RQ17		1991	09	17.34861	23	41	10.79	+00	53	45.1	18.0	9	675
1991	RQ17		1991	09	17.38229	23	41	08.33	+00	53	54.8		9	675
1991	RR17	*	1991	09	11.32257	23	59	01.86	-04	39	56.9		9	675
1991	RR17		1991	09	11.37431	23	58	58.72	-04	40	01.1		9	675
1991	RR17		1991	09	14.39288	23	56	10.19	-04	42	58.6	17.0	9	675
1991	RR17		1991	09	14.44635	23	56	07.03	-04	43	01.4		9	675
1991	RR17		1991	09	16.38663	23	54	16.89	-04	44	52.4	16.8	9	675

1991	RR17		1991	09	16.42674	23	54	14.45	-04	44	53.2			9	675
1991	RS17	*	1991	09	13.31910	23	16	11.25	-01	40	47.1	17.8		9	675
1991	RS17		1991	09	13.35712	23	16	09.16	-01	40	58.8			9	675
1991	RS17		1991	09	15.34132	23	14	33.35	-01	52	08.8	18.2		9	675
1991	RS17		1991	09	15.38056	23	14	31.32	-01	52	22.2			9	675
1991	RS17		1991	09	17.25139	23	13	02.89	-02	02	55.7			9	675
1991	RS17		1991	09	17.29097	23	13	00.79	-02	03	09.0	18.2		9	675
1991	RT17	*	1991	09	13.31910	23	16	44.44	-01	59	35.4	17.0		9	675
1991	RT17		1991	09	13.35712	23	16	42.63	-01	59	45.2			9	675
1991	RT17		1991	09	15.34132	23	15	13.85	-02	09	22.3	17.2		9	675
1991	RT17		1991	09	15.38056	23	15	12.08	-02	09	34.5			9	675
1991	RT17		1991	09	17.25139	23	13	49.52	-02	18	38.0			9	675
1991	RT17		1991	09	17.29097	23	13	47.69	-02	18	49.5	17.2		9	675
1991	RU17	*	1991	09	13.31910	23	18	18.90	-02	02	57.5	16.8		9	675
1991	RU17		1991	09	13.35712	23	18	16.66	-02	03	15.1			9	675
1991	RU17		1991	09	15.34132	23	16	29.64	-02	18	45.2	17.0		9	675
1991	RU17		1991	09	15.38056	23	16	27.47	-02	19	04.2			9	675
1991	RU17		1991	09	16.37674	23	15	34.07	-02	26	50.8	17.0		9	675
1991	RU17		1991	09	16.41684	23	15	31.88	-02	27	09.0			9	675
1991	RU17		1991	09	17.25139	23	14	47.84	-02	33	39.6			9	675
1991	RU17		1991	09	17.29097	23	14	45.60	-02	33	59.5	17.0		9	675
1991	RV17	*	1991	09	13.31910	23	20	51.32	-02	19	34.6	16.8		9	675
1991	RV17		1991	09	13.35712	23	20	49.25	-02	19	41.9			9	675
1991	RV17		1991	09	15.34132	23	19	10.87	-02	26	35.1	17.2		9	675
1991	RV17		1991	09	15.38056	23	19	08.83	-02	26	42.9			9	675
1991	RV17		1991	09	16.37674	23	18	19.83	-02	30	11.2	17.0		9	675
1991	RV17		1991	09	16.41684	23	18	17.78	-02	30	19.4			9	675
1991	RV17		1991	09	17.25139	23	17	37.65	-02	33	12.8			9	675
1991	RV17		1991	09	17.29097	23	17	35.56	-02	33	21.2	17.2		9	675
1991	RW17	*	1991	09	13.31910	23	21	08.62	-01	19	34.0	17.2		9	675
1991	RW17		1991	09	13.35712	23	21	06.42	-01	19	52.1			9	675
1991	RW17		1991	09	15.34132	23	19	21.82	-01	35	17.1	18.0		9	675
1991	RW17		1991	09	15.38056	23	19	19.73	-01	35	35.5			9	675
1991	RW17		1991	09	16.37674	23	18	27.56	-01	43	21.2	17.8		9	675
1991	RW17		1991	09	16.41684	23	18	25.41	-01	43	39.4			9	675
1991	RW17		1991	09	17.25139	23	17	42.49	-01	50	10.0			9	675
1991	RW17		1991	09	17.29097	23	17	40.28	-01	50	28.1	18.0		9	675
1991	RX17	*	1991	09	13.31910	23	24	04.28	-02	39	20.2	16.8		9	675
1991	RX17		1991	09	13.35712	23	24	02.29	-02	39	40.3			9	675
1991	RX17		1991	09	16.37674	23	21	37.78	-03	06	13.0	16.8		9	675
1991	RX17		1991	09	16.41684	23	21	35.80	-03	06	34.3			9	675
1991	RY17	*	1991	09	13.31910	23	27	49.83	-06	47	06.3	17.0		9	675
1991	RY17		1991	09	13.35712	23	27	47.13	-06	47	05.2			9	675
1991	RY17		1991	09	16.37674	23	24	27.22	-06	47	37.5	17.0		9	675
1991	RY17		1991	09	16.41684	23	24	24.50	-06	47	37.7			9	675
1991	RZ17	*	1991	09	13.31910	23	28	03.60	-01	32	10.4	17.5		9	675
1991	RZ17		1991	09	13.35712	23	28	01.88	-01	32	37.5			9	675
1991	RZ17		1991	09	16.37674	23	25	48.63	-02	07	19.9	18.0		9	675
1991	RZ17		1991	09	16.41684	23	25	46.74	-02	07	48.3			9	675
1991	RA18	*	1991	09	13.31910	23	28	57.96	+00	41	39.5	18.2		9	675
1991	RA18		1991	09	13.35712	23	28	56.06	+00	41	25.2			9	675
1991	RA18		1991	09	15.34132	23	27	22.78	+00	28	57.3			9	675
1991	RA18		1991	09	15.38056	23	27	20.96	+00	28	43.7	17.8		9	675
1991	RA18		1991	09	16.37674	23	26	34.18	+00	22	23.2	17.8		9	675
1991	RA18		1991	09	16.41684	23	26	32.18	+00	22	07.7			9	675
1991	RB18	*	1991	09	13.31910	23	29	23.40	+00	11	19.2	18.0		9	675
1991	RB18		1991	09	13.35712	23	29	21.22	+00	11	16.3			9	675
1991	RB18		1991	09	16.37674	23	26	37.49	+00	04	04.0	18.2		9	675
1991	RB18		1991	09	16.41684	23	26	35.21	+00	03	57.1			9	675

1991 RC18	*	1991	09	13.31910	23	29	42.05	-04	37	16.3	18.2	9	675
1991 RC18		1991	09	13.35712	23	29	39.43	-04	37	19.3		9	675
1991 RC18		1991	09	16.37674	23	26	24.67	-04	41	49.9	18.2	9	675
1991 RC18		1991	09	16.41684	23	26	21.98	-04	41	53.0		9	675
1991 RD18	*	1991	09	13.31910	23	31	59.73	-04	39	40.2	17.8	9	675
1991 RD18		1991	09	13.35712	23	31	57.58	-04	39	57.8		9	675
1991 RD18		1991	09	16.37674	23	29	22.98	-05	02	09.7	17.8	9	675
1991 RD18		1991	09	16.41684	23	29	20.85	-05	02	27.2		9	675
1991 RE18	*	1991	09	13.31910	23	32	23.81	-06	53	56.4	17.5	9	675
1991 RE18		1991	09	13.35712	23	32	21.60	-06	54	08.8		9	675
1991 RE18		1991	09	16.37674	23	29	51.72	-07	12	25.3	17.5	9	675
1991 RE18		1991	09	16.41684	23	29	49.69	-07	12	39.3		9	675
1991 RF18	*	1991	09	13.31910	23	32	27.92	-00	24	23.5	17.8	9	675
1991 RF18		1991	09	13.35712	23	32	26.33	-00	24	55.1		9	675
1991 RF18		1991	09	16.37674	23	30	32.22	-01	06	22.4	17.8	9	675
1991 RF18		1991	09	16.41684	23	30	30.59	-01	06	55.6		9	675
1991 RG18	*	1991	09	13.31910	23	33	08.28	-02	18	37.3	18.0	9	675
1991 RG18		1991	09	13.35712	23	33	06.09	-02	18	46.8		9	675
1991 RG18		1991	09	16.37674	23	30	23.15	-02	32	03.4	17.8	9	675
1991 RG18		1991	09	16.41684	23	30	21.00	-02	32	14.3		9	675
1991 RH18	*	1991	09	13.31910	23	34	13.10	-02	37	24.6	17.8	9	675
1991 RH18		1991	09	13.35712	23	34	10.55	-02	37	26.1		9	675
1991 RH18		1991	09	16.37674	23	31	05.61	-02	40	26.1	17.8	9	675
1991 RH18		1991	09	16.41684	23	31	02.91	-02	40	28.7		9	675
1991 RJ18	*	1991	09	13.31910	23	35	17.44	+00	08	01.2	18.5	9	675
1991 RJ18		1991	09	13.35712	23	35	15.43	+00	07	52.5		9	675
1991 RJ18		1991	09	16.37674	23	32	43.67	-00	04	17.9	18.0	9	675
1991 RJ18		1991	09	16.41684	23	32	41.59	-00	04	28.0		9	675
1991 RK18	*	1991	09	13.31910	23	35	17.78	-01	23	25.6	18.0	9	675
1991 RK18		1991	09	13.35712	23	35	15.64	-01	23	33.8		9	675
1991 RK18		1991	09	16.37674	23	32	38.64	-01	33	54.0	17.8	9	675
1991 RK18		1991	09	16.41684	23	32	36.57	-01	34	02.1		9	675
1991 RL18	*	1991	09	13.31910	23	36	06.06	+00	43	11.2	17.8	9	675
1991 RL18		1991	09	13.35712	23	36	04.39	+00	42	44.3		9	675
1991 RL18		1991	09	14.38368	23	35	22.07	+00	30	06.1	17.5	9	675
1991 RL18		1991	09	14.43767	23	35	19.70	+00	29	26.9		9	675
1991 RL18		1991	09	16.37674	23	33	59.25	+00	05	07.9	17.5	9	675
1991 RL18		1991	09	16.41684	23	33	57.45	+00	04	38.8		9	675
1991 RM18	*	1991	09	13.31910	23	36	37.78	+00	53	09.7	18.0	9	675
1991 RM18		1991	09	13.35712	23	36	36.32	+00	52	47.3		9	675
1991 RM18		1991	09	14.38368	23	35	57.00	+00	43	04.8	17.8	9	675
1991 RM18		1991	09	14.43767	23	35	55.11	+00	42	34.1		9	675
1991 RM18		1991	09	16.37674	23	34	40.62	+00	23	57.0	17.8	9	675
1991 RM18		1991	09	16.41684	23	34	38.97	+00	23	33.3		9	675
1991 RN18	*	1991	09	13.31910	23	37	06.40	-03	46	21.4	17.8	9	675
1991 RN18		1991	09	13.35712	23	37	04.22	-03	46	42.5		9	675
1991 RN18		1991	09	16.37674	23	34	22.58	-04	15	39.5	18.0	9	675
1991 RN18		1991	09	16.41684	23	34	20.36	-04	15	59.9		9	675
1991 RO18	*	1991	09	13.31910	23	38	10.10	-01	39	31.5	18.0	9	675
1991 RO18		1991	09	13.35712	23	38	07.85	-01	39	44.9		9	675
1991 RO18		1991	09	16.37674	23	35	18.97	-01	57	59.9	18.0	9	675
1991 RO18		1991	09	16.41684	23	35	16.69	-01	58	13.6		9	675
1991 RP18	*	1991	09	13.31910	23	38	45.26	-00	35	41.1	17.5	9	675
1991 RP18		1991	09	13.35712	23	38	43.15	-00	35	50.3		9	675
1991 RP18		1991	09	16.37674	23	36	10.36	-00	48	39.8	17.5	9	675
1991 RP18		1991	09	16.41684	23	36	08.18	-00	48	49.6		9	675
1991 RQ18	*	1991	09	13.31910	23	38	54.76	-02	29	54.3	17.5	9	675
1991 RQ18		1991	09	13.35712	23	38	52.13	-02	29	53.7		9	675
1991 RQ18		1991	09	16.37674	23	35	37.11	-02	29	31.7	17.2	9	675

1991	RQ18		1991	09	16.41684	23	35	34.32	-02	29	30.4		9	675
1991	RR18	*	1991	09	13.31910	23	40	40.26	-04	56	32.7	17.0	9	675
1991	RR18		1991	09	13.35712	23	40	38.11	-04	56	36.3		9	675
1991	RR18		1991	09	16.37674	23	37	57.35	-05	01	15.7	17.2	9	675
1991	RR18		1991	09	16.41684	23	37	55.19	-05	01	18.6		9	675
1991	RS18	*	1991	09	13.31910	23	41	56.53	-03	58	36.1	18.0	9	675
1991	RS18		1991	09	13.35712	23	41	54.28	-03	58	46.9		9	675
1991	RS18		1991	09	16.37674	23	39	09.89	-04	12	50.6	18.0	9	675
1991	RS18		1991	09	16.41684	23	39	07.55	-04	13	01.9		9	675
1991	RT18	*	1991	09	13.31910	23	42	41.13	-01	47	44.9	18.8	9	675
1991	RT18		1991	09	13.35712	23	42	38.78	-01	47	33.8		9	675
1991	RT18		1991	09	16.37674	23	39	52.02	-01	34	43.0	18.2	9	675
1991	RT18		1991	09	16.41684	23	39	49.50	-01	34	32.7		9	675
1991	RU18	*	1991	09	13.31910	23	44	46.77	-03	33	45.0	18.5	9	675
1991	RU18		1991	09	13.35712	23	44	44.10	-03	33	51.2		9	675
1991	RU18		1991	09	16.37674	23	41	34.14	-03	42	53.4	18.2	9	675
1991	RU18		1991	09	16.41684	23	41	31.54	-03	43	00.1		9	675
1991	RV18	*	1991	09	14.38368	23	24	20.35	+04	16	27.8	17.0	9	675
1991	RV18		1991	09	14.43767	23	24	16.91	+04	16	19.3		9	675
1991	RV18		1991	09	15.34132	23	23	22.54	+04	14	04.8		9	675
1991	RV18		1991	09	15.38056	23	23	20.10	+04	13	59.7	17.5	9	675
1991	RV18		1991	09	17.25139	23	21	28.06	+04	09	05.1		9	675
1991	RV18		1991	09	17.29097	23	21	25.57	+04	08	58.5	17.5	9	675
1991	RW18	*	1991	09	14.38368	23	25	11.23	+04	35	51.9	18.2	9	675
1991	RW18		1991	09	14.43767	23	25	08.80	+04	35	36.3		9	675
1991	RW18		1991	09	17.34861	23	22	57.19	+04	22	03.2	18.0	9	675
1991	RW18		1991	09	17.38229	23	22	55.59	+04	21	52.9		9	675
1991	RX18	*	1991	09	14.38368	23	25	34.97	+02	58	13.6	18.2	9	675
1991	RX18		1991	09	14.43767	23	25	31.38	+02	58	12.3		9	675
1991	RX18		1991	09	15.34132	23	24	32.47	+02	58	13.7		9	675
1991	RX18		1991	09	15.38056	23	24	29.84	+02	58	14.5		9	675
1991	RY18	*	1991	09	14.38368	23	26	10.78	+06	14	45.2	17.5	9	675
1991	RY18		1991	09	14.43767	23	26	08.14	+06	14	26.2	17.8	9	675
1991	RY18		1991	09	17.34861	23	23	56.24	+05	56	28.7	17.2	9	675
1991	RY18		1991	09	17.38229	23	23	54.66	+05	56	16.1		9	675
1991	RZ18	*	1991	09	14.38368	23	27	53.22	+03	26	18.5	18.2	9	675
1991	RZ18		1991	09	14.43767	23	27	49.90	+03	26	17.4		9	675
1991	RZ18		1991	09	17.34861	23	24	57.79	+03	25	01.7	18.0	9	675
1991	RZ18		1991	09	17.38229	23	24	55.68	+03	25	00.1		9	675
1991	RA19	*	1991	09	14.38368	23	28	08.21	+06	24	28.3	17.2	9	675
1991	RA19		1991	09	14.43767	23	28	05.26	+06	24	17.7		9	675
1991	RA19		1991	09	17.34861	23	25	31.11	+06	15	47.4	17.2	9	675
1991	RA19		1991	09	17.38229	23	25	29.23	+06	15	39.9		9	675
1991	RB19	*	1991	09	14.38368	23	29	50.44	+03	06	26.4	17.5	9	675
1991	RB19		1991	09	14.43767	23	29	47.04	+03	06	24.9		9	675
1991	RB19		1991	09	15.34132	23	28	51.45	+03	05	58.6	18.0	9	675
1991	RB19		1991	09	15.38056	23	28	48.99	+03	05	57.3	18.0	9	675
1991	RB19		1991	09	17.25139	23	26	54.02	+03	04	55.0		9	675
1991	RB19		1991	09	17.29097	23	26	51.44	+03	04	52.2	18.0	9	675
1991	RB19		1991	09	17.34861	23	26	47.80	+03	04	51.9	17.5	9	675
1991	RB19		1991	09	17.38229	23	26	45.65	+03	04	49.8	17.5	9	675
1991	RC19	*	1991	09	14.38368	23	30	56.55	+03	19	33.7	17.2	9	675
1991	RC19		1991	09	14.43767	23	30	53.76	+03	19	24.2		9	675
1991	RC19		1991	09	15.34132	23	30	09.03	+03	16	46.7		9	675
1991	RC19		1991	09	15.38056	23	30	07.00	+03	16	39.6	17.5	9	675
1991	RC19		1991	09	17.25139	23	28	34.19	+03	11	00.7		9	675
1991	RC19		1991	09	17.29097	23	28	32.07	+03	10	53.1	17.5	9	675
1991	RC19		1991	09	17.34861	23	28	29.03	+03	10	43.5	17.2	9	675
1991	RC19		1991	09	17.38229	23	28	27.30	+03	10	36.2		9	675

1991 RD19	*	1991	09	14.38368	23	32	19.03	+04	33	38.0	17.2	9 675
1991 RD19		1991	09	14.43767	23	32	16.40	+04	33	25.3		9 675
1991 RD19		1991	09	17.34861	23	30	05.24	+04	21	35.3	17.0	9 675
1991 RD19		1991	09	17.38229	23	30	03.58	+04	21	25.8		9 675
1991 RE19	*	1991	09	14.38368	23	32	27.32	+02	34	50.6	17.5	9 675
1991 RE19		1991	09	14.43767	23	32	24.05	+02	34	44.6	17.2	9 675
1991 RE19		1991	09	15.34132	23	31	30.94	+02	32	48.2		9 675
1991 RE19		1991	09	15.38056	23	31	28.55	+02	32	42.3	17.2	9 675
1991 RE19		1991	09	17.25139	23	29	38.98	+02	28	36.3		9 675
1991 RE19		1991	09	17.29097	23	29	36.56	+02	28	30.5	17.2	9 675
1991 RE19		1991	09	17.34861	23	29	33.04	+02	28	24.2	17.0	9 675
1991 RE19		1991	09	17.38229	23	29	31.00	+02	28	19.2		9 675
1991 RF19	*	1991	09	14.38368	23	33	19.63	+03	16	05.7	18.0	9 675
1991 RF19		1991	09	14.43767	23	33	17.21	+03	15	28.1		9 675
1991 RF19		1991	09	17.34861	23	31	09.46	+02	41	29.1	17.5	9 675
1991 RF19		1991	09	17.38229	23	31	07.95	+02	41	04.8		9 675
1991 RG19	*	1991	09	14.38368	23	33	56.55	+05	53	00.7	17.8	9 675
1991 RG19		1991	09	14.43767	23	33	54.29	+05	52	33.5		9 675
1991 RG19		1991	09	17.34861	23	31	58.08	+05	27	27.6	17.5	9 675
1991 RG19		1991	09	17.38229	23	31	56.71	+05	27	09.9		9 675
1991 RH19	*	1991	09	14.38368	23	34	28.66	+06	55	10.4	17.5	9 675
1991 RH19		1991	09	14.43767	23	34	25.54	+06	54	54.1		9 675
1991 RH19		1991	09	17.34861	23	31	42.33	+06	39	14.6	17.5	9 675
1991 RH19		1991	09	17.38229	23	31	40.32	+06	39	02.9		9 675
1991 RJ19	*	1991	09	14.38368	23	34	54.74	+02	29	51.0	17.8	9 675
1991 RJ19		1991	09	14.43767	23	34	51.68	+02	29	28.2		9 675
1991 RJ19		1991	09	17.34861	23	32	09.26	+02	09	05.4	18.0	9 675
1991 RJ19		1991	09	17.38229	23	32	07.30	+02	08	49.9		9 675
1991 RK19	*	1991	09	14.38368	23	35	20.93	+01	51	15.4	17.8	9 675
1991 RK19		1991	09	14.43767	23	35	18.43	+01	50	59.8		9 675
1991 RK19		1991	09	17.34861	23	33	07.09	+01	35	59.3	17.5	9 675
1991 RK19		1991	09	17.38229	23	33	05.57	+01	35	49.1		9 675
1991 RL19	*	1991	09	14.38368	23	37	07.63	+04	55	15.8	18.2	9 675
1991 RL19		1991	09	14.43767	23	37	04.34	+04	55	08.2		9 675
1991 RL19		1991	09	17.34861	23	34	14.13	+04	48	37.0	17.8	9 675
1991 RL19		1991	09	17.38229	23	34	12.09	+04	48	31.7		9 675
1991 RM19	*	1991	09	14.38368	23	37	27.21	+06	28	42.8	18.2	9 675
1991 RM19		1991	09	14.43767	23	37	24.88	+06	28	21.8	17.8	9 675
1991 RM19		1991	09	17.34861	23	35	22.77	+06	08	24.6	17.8	9 675
1991 RM19		1991	09	17.38229	23	35	21.29	+06	08	10.0		9 675
1991 RN19	*	1991	09	14.38368	23	37	50.42	+04	29	29.2	18.2	9 675
1991 RN19		1991	09	14.43767	23	37	47.21	+04	29	23.1		9 675
1991 RN19		1991	09	17.34861	23	34	57.28	+04	23	45.6	18.0	9 675
1991 RN19		1991	09	17.38229	23	34	55.26	+04	23	41.1		9 675
1991 RO19	*	1991	09	14.38368	23	38	20.73	+04	24	44.1	17.2	9 675
1991 RO19		1991	09	14.43767	23	38	17.26	+04	24	58.9		9 675
1991 RO19		1991	09	17.34861	23	35	16.78	+04	38	17.8	17.2	9 675
1991 RO19		1991	09	17.38229	23	35	14.57	+04	38	26.1		9 675
1991 RP19	*	1991	09	14.38368	23	38	59.21	+01	53	33.1	17.8	9 675
1991 RP19		1991	09	14.43767	23	38	55.77	+01	53	28.1	18.0	9 675
1991 RP19		1991	09	17.34861	23	35	57.01	+01	48	08.2	17.8	9 675
1991 RP19		1991	09	17.38229	23	35	54.77	+01	48	03.5		9 675
1991 RQ19	*	1991	09	14.38368	23	39	08.18	+03	46	05.0	17.5	9 675
1991 RQ19		1991	09	14.43767	23	39	05.36	+03	45	55.8		9 675
1991 RQ19		1991	09	17.34861	23	36	41.80	+03	37	32.8	17.5	9 675
1991 RQ19		1991	09	17.38229	23	36	40.01	+03	37	27.1		9 675
1991 RR19	*	1991	09	14.38368	23	40	57.64	+07	44	07.1		9 675
1991 RR19		1991	09	14.43767	23	40	55.26	+07	44	00.7	18.0	9 675
1991 RR19		1991	09	17.34861	23	39	02.10	+07	37	28.8	17.8	9 675

1991	RR19		1991	09	17.38229	23	39	00.68	+07	37	22.3		9	675
1991	RS19	*	1991	09	14.38368	23	41	27.41	+03	05	04.3	17.5	9	675
1991	RS19		1991	09	14.43767	23	41	24.52	+03	05	00.2		9	675
1991	RS19		1991	09	17.34861	23	38	53.31	+03	00	31.3	17.8	9	675
1991	RS19		1991	09	17.38229	23	38	51.39	+03	00	27.7		9	675
1991	RT19	*	1991	09	14.38368	23	41	58.40	+03	25	32.2	17.5	9	675
1991	RT19		1991	09	14.43767	23	41	55.62	+03	24	59.8		9	675
1991	RT19		1991	09	17.34861	23	39	34.12	+02	56	12.9	17.2	9	675
1991	RT19		1991	09	17.38229	23	39	32.35	+02	55	52.7		9	675
1991	RU19	*	1991	09	14.38368	23	42	15.93	+03	29	51.7	17.5	9	675
1991	RU19		1991	09	14.43767	23	42	12.48	+03	29	50.9		9	675
1991	RU19		1991	09	17.34861	23	39	12.12	+03	28	36.5	17.5	9	675
1991	RU19		1991	09	17.38229	23	39	09.98	+03	28	32.9		9	675
1991	RV19	*	1991	09	14.38368	23	42	18.08	+05	57	14.3	18.2	9	675
1991	RV19		1991	09	14.43767	23	42	15.22	+05	57	06.0	18.5	9	675
1991	RV19		1991	09	17.34861	23	39	40.90	+05	49	43.1	17.8	9	675
1991	RV19		1991	09	17.38229	23	39	38.99	+05	49	36.1		9	675
1991	RW19	*	1991	09	14.38368	23	42	20.40	+02	54	50.7	17.2	9	675
1991	RW19		1991	09	14.43767	23	42	17.37	+02	54	29.7		9	675
1991	RW19		1991	09	17.34861	23	39	40.58	+02	35	35.2	17.0	9	675
1991	RW19		1991	09	17.38229	23	39	38.60	+02	35	22.7		9	675
1991	RX19	*	1991	09	14.38368	23	43	34.41	+05	07	14.0	17.2	9	675
1991	RX19		1991	09	14.43767	23	43	31.66	+05	07	04.9		9	675
1991	RX19		1991	09	17.34861	23	41	08.14	+04	58	37.6	17.2	9	675
1991	RX19		1991	09	17.38229	23	41	06.36	+04	58	30.6		9	675
1991	RY19	*	1991	09	14.38368	23	44	21.68	+07	29	59.7	18.2	9	675
1991	RY19		1991	09	14.43767	23	44	19.15	+07	29	52.5		9	675
1991	RY19		1991	09	17.34861	23	42	20.00	+07	20	28.0	18.2	9	675
1991	RY19		1991	09	17.38229	23	42	18.58	+07	20	21.6		9	675
1991	RZ19	*	1991	09	14.38368	23	44	37.06	+03	16	14.4	17.2	9	675
1991	RZ19		1991	09	14.43767	23	44	33.99	+03	16	11.5		9	675
1991	RZ19		1991	09	17.34861	23	41	52.48	+03	13	34.8	17.2	9	675
1991	RZ19		1991	09	17.38229	23	41	50.56	+03	13	32.3		9	675
1991	RA20	*	1991	09	14.38368	23	44	51.56	+07	06	32.6	17.5	9	675
1991	RA20		1991	09	14.43767	23	44	48.28	+07	06	24.9		9	675
1991	RA20		1991	09	17.34861	23	42	02.20	+06	58	16.6	17.8	9	675
1991	RA20		1991	09	17.38229	23	42	00.20	+06	58	11.0		9	675
1991	RB20	*	1991	09	14.38368	23	47	14.89	+06	53	43.9	17.2	9	675
1991	RB20		1991	09	14.43767	23	47	12.14	+06	53	18.8		9	675
1991	RB20		1991	09	17.34861	23	44	51.56	+06	29	52.6	17.2	9	675
1991	RB20		1991	09	17.38229	23	44	49.83	+06	29	35.5		9	675
1991	RC20	*	1991	09	14.38368	23	47	34.45	+02	55	21.4	17.5	9	675
1991	RC20		1991	09	14.43767	23	47	31.30	+02	54	55.9		9	675
1991	RC20		1991	09	17.34861	23	44	45.43	+02	31	19.2	17.2	9	675
1991	RC20		1991	09	17.38229	23	44	43.42	+02	31	02.6		9	675
1991	RD20	*	1991	09	14.38368	23	47	55.13	+05	26	47.9	17.8	9	675
1991	RD20		1991	09	14.43767	23	47	51.71	+05	26	28.5		9	675
1991	RD20		1991	09	17.34861	23	44	59.24	+05	08	46.4	17.8	9	675
1991	RD20		1991	09	17.38229	23	44	57.29	+05	08	33.9		9	675
1991	RE20	*	1991	09	14.38368	23	49	59.49	+02	50	58.3	18.2	9	675
1991	RE20		1991	09	14.43767	23	49	56.49	+02	50	53.1		9	675
1991	RE20		1991	09	17.34861	23	47	14.47	+02	46	04.6	17.8	9	675
1991	RE20		1991	09	17.38229	23	47	12.49	+02	46	00.8		9	675
1991	RF20	*	1991	09	14.38368	23	50	33.09	+04	59	33.7	17.8	9	675
1991	RF20		1991	09	14.43767	23	50	29.68	+04	59	29.4		9	675
1991	RF20		1991	09	17.34861	23	47	36.11	+04	55	32.3	18.2	9	675
1991	RF20		1991	09	17.38229	23	47	34.00	+04	55	28.4		9	675
1991	RG20	*	1991	09	14.38368	23	52	11.30	+03	07	57.3	18.2	9	675
1991	RG20		1991	09	14.43767	23	52	08.40	+03	07	41.1	18.5	9	675

1991 RG20		1991	09	17.34861	23	49	35.08	+02	53	00.0	18.2	9 675
1991 RG20		1991	09	17.38229	23	49	33.08	+02	52	49.8		9 675
1991 RH20	*	1991	09	14.39288	00	01	19.52	-06	41	23.5	17.5	9 675
1991 RH20		1991	09	14.44635	00	01	16.53	-06	41	40.9		9 675
1991 RH20		1991	09	16.38663	23	59	32.05	-06	52	11.7	17.8	9 675
1991 RH20		1991	09	16.42674	23	59	29.74	-06	52	24.9		9 675
1991 RJ20	*	1991	09	14.39288	00	02	35.24	-04	37	18.2	17.8	9 675
1991 RJ20		1991	09	14.44635	00	02	32.83	-04	37	40.8		9 675
1991 RJ20		1991	09	16.38663	00	01	12.84	-04	51	35.8	17.5	9 675
1991 RJ20		1991	09	16.42674	00	01	11.07	-04	51	52.7		9 675
1991 RK20	*	1991	09	14.39288	00	03	31.71	-09	47	21.0	17.5	9 675
1991 RK20		1991	09	14.44635	00	03	28.59	-09	47	28.5		9 675
1991 RK20		1991	09	16.38663	00	01	34.17	-09	51	31.2	17.0	9 675
1991 RK20		1991	09	16.42674	00	01	31.57	-09	51	35.5		9 675
1991 RL20	*	1991	09	14.39288	00	04	11.64	-08	29	35.6	17.2	9 675
1991 RL20		1991	09	14.44635	00	04	08.53	-08	29	49.9		9 675
1991 RL20		1991	09	16.38663	00	02	22.17	-08	38	34.9	17.0	9 675
1991 RL20		1991	09	16.42674	00	02	19.83	-08	38	45.8		9 675
1991 RM20	*	1991	09	14.39288	00	04	17.18	-07	55	15.1	17.5	9 675
1991 RM20		1991	09	14.44635	00	04	14.25	-07	55	26.9		9 675
1991 RM20		1991	09	16.38663	00	02	34.01	-08	02	32.4	17.0	9 675
1991 RN20	*	1991	09	14.39288	00	07	49.75	-08	00	05.4	17.8	9 675
1991 RN20		1991	09	14.44635	00	07	46.03	-07	59	59.6		9 675
1991 RN20		1991	09	16.38663	00	05	35.52	-07	57	04.2	17.8	9 675
1991 RN20		1991	09	16.42674	00	05	32.66	-07	56	59.9		9 675
1991 RO20	*	1991	09	14.39288	00	08	47.27	-07	46	29.9	17.0	9 675
1991 RO20		1991	09	14.44635	00	08	44.23	-07	46	42.5		9 675
1991 RO20		1991	09	16.38663	00	06	57.98	-07	54	10.5	17.0	9 675
1991 RO20		1991	09	16.42674	00	06	55.67	-07	54	19.4		9 675
1991 RP20	*	1991	09	14.39288	00	08	49.02	-05	18	44.7	17.8	9 675
1991 RP20		1991	09	14.44635	00	08	46.14	-05	18	54.2		9 675
1991 RP20		1991	09	16.38663	00	07	08.64	-05	24	48.5	17.5	9 675
1991 RP20		1991	09	16.42674	00	07	06.43	-05	24	56.2		9 675
1991 RQ20	*	1991	09	14.39288	00	11	51.22	-07	03	56.2	17.8	9 675
1991 RQ20		1991	09	14.44635	00	11	48.62	-07	04	10.5		9 675
1991 RQ20		1991	09	16.38663	00	10	12.19	-07	12	26.9	17.5	9 675
1991 RQ20		1991	09	16.42674	00	10	10.15	-07	12	37.1		9 675
1991 RR20	*	1991	09	14.39288	00	13	18.72	-06	30	08.9	17.8	9 675
1991 RR20		1991	09	14.44635	00	13	15.30	-06	29	54.3		9 675
1991 RR20		1991	09	16.38663	00	11	14.21	-06	21	23.9	17.8	9 675
1991 RR20		1991	09	16.42674	00	11	11.61	-06	21	13.6		9 675
1991 RS20		1991	09	13.31910	23	44	13.24	-06	13	12.1	18.0	9 675
1991 RS20		1991	09	13.35712	23	44	11.26	-06	13	24.6		9 675
1991 RS20	*	1991	09	14.39288	23	43	22.39	-06	18	13.8	17.5	9 675
1991 RS20		1991	09	14.44635	23	43	19.65	-06	18	27.6		9 675
1991 RS20		1991	09	16.37674	23	41	47.91	-06	27	19.5	17.5	9 675
1991 RS20		1991	09	16.38663	23	41	47.50	-06	27	23.8	17.5	9 675
1991 RS20		1991	09	16.41684	23	41	45.96	-06	27	31.5		9 675
1991 RS20		1991	09	16.42674	23	41	45.52	-06	27	33.8		9 675
1991 RT20	*	1991	09	14.39288	23	45	23.46	-06	35	46.9	17.2	9 675
1991 RT20		1991	09	14.44635	23	45	20.12	-06	35	57.3		9 675
1991 RT20		1991	09	16.38663	23	43	25.05	-06	42	58.5	17.5	9 675
1991 RT20		1991	09	16.42674	23	43	22.58	-06	43	06.0		9 675
1991 RU20	*	1991	09	14.39288	23	48	22.08	-05	32	54.3	16.8	9 675
1991 RU20		1991	09	14.44635	23	48	18.27	-05	32	56.9		9 675
1991 RU20		1991	09	16.38663	23	46	06.15	-05	34	49.9	16.8	9 675
1991 RU20		1991	09	16.42674	23	46	03.30	-05	34	51.5		9 675
1991 RV20	*	1991	09	14.39288	23	49	29.31	-08	18	01.2	18.2	9 675
1991 RV20		1991	09	14.44635	23	49	26.37	-08	18	13.1		9 675

1991 RV20		1991	09	16.38663	23	47	45.21	-08	25	52.9	17.8	9	675
1991 RV20		1991	09	16.42674	23	47	43.15	-08	26	01.8		9	675
1991 RW20	*	1991	09	14.39288	23	50	50.13	-07	38	28.5	17.5	9	675
1991 RW20		1991	09	14.44635	23	50	47.59	-07	38	47.0		9	675
1991 RW20		1991	09	16.38663	23	49	17.71	-07	50	20.4	17.2	9	675
1991 RW20		1991	09	16.42674	23	49	15.75	-07	50	36.8		9	675
1991 RX20	*	1991	09	14.39288	23	51	59.29	-08	00	10.0	16.8	9	675
1991 RX20		1991	09	14.44635	23	51	56.31	-08	00	34.1		9	675
1991 RX20		1991	09	16.38663	23	50	13.08	-08	15	33.4	17.0	9	675
1991 RX20		1991	09	16.42674	23	50	10.88	-08	15	51.8		9	675
1991 RY20	*	1991	09	14.39288	23	52	14.05	-06	52	45.3	17.2	9	675
1991 RY20		1991	09	14.44635	23	52	11.41	-06	53	06.5		9	675
1991 RY20		1991	09	16.38663	23	50	42.55	-07	05	55.4	17.0	9	675
1991 RY20		1991	09	16.42674	23	50	40.58	-07	06	11.4		9	675
1991 RZ20	*	1991	09	14.39288	23	52	21.57	-08	09	08.5	18.0	9	675
1991 RZ20		1991	09	14.44635	23	52	18.66	-08	09	25.0		9	675
1991 RZ20		1991	09	16.38663	23	50	39.38	-08	19	36.4	17.8	9	675
1991 RZ20		1991	09	16.42674	23	50	37.27	-08	19	48.1		9	675
1991 RA21	*	1991	09	14.39288	23	52	36.03	-04	44	42.9	17.0	9	675
1991 RA21		1991	09	14.44635	23	52	33.21	-04	44	48.7		9	675
1991 RA21		1991	09	16.38663	23	50	55.45	-04	48	28.7	16.8	9	675
1991 RA21		1991	09	16.42674	23	50	53.32	-04	48	33.2		9	675
1991 RB21	*	1991	09	14.39288	23	54	39.36	-06	27	48.1	17.8	9	675
1991 RB21		1991	09	14.44635	23	54	36.20	-06	27	55.2		9	675
1991 RB21		1991	09	16.38663	23	52	45.40	-06	31	55.8	17.5	9	675
1991 RB21		1991	09	16.42674	23	52	43.05	-06	32	00.5		9	675
1991 RC21	*	1991	09	14.39288	23	54	59.46	-05	30	41.2	17.0	9	675
1991 RC21		1991	09	14.44635	23	54	56.65	-05	31	04.1		9	675
1991 RC21		1991	09	16.38663	23	53	22.43	-05	45	19.3	17.2	9	675
1991 RC21		1991	09	16.42674	23	53	20.34	-05	45	37.0		9	675
1991 RD21	*	1991	09	14.39288	23	56	12.16	-07	34	25.9	17.2	9	675
1991 RD21		1991	09	14.44635	23	56	09.28	-07	34	36.9		9	675
1991 RD21		1991	09	16.38663	23	54	28.90	-07	41	26.9	17.0	9	675
1991 RD21		1991	09	16.42674	23	54	26.75	-07	41	35.4		9	675
1991 RE21	*	1991	09	14.39288	23	56	38.40	-06	59	34.4	16.8	9	675
1991 RE21		1991	09	14.44635	23	56	35.47	-06	59	56.0		9	675
1991 RE21		1991	09	16.38663	23	54	53.93	-07	12	48.0	16.8	9	675
1991 RE21		1991	09	16.42674	23	54	51.73	-07	13	03.8		9	675
1991 RF21	*	1991	09	14.39288	23	57	45.96	-09	32	42.2	17.5	9	675
1991 RF21		1991	09	14.44635	23	57	42.93	-09	32	54.9		9	675
1991 RF21		1991	09	16.38663	23	55	58.41	-09	41	08.7	17.2	9	675
1991 RF21		1991	09	16.42674	23	55	56.05	-09	41	16.6		9	675
1991 RG21	*	1991	09	14.39288	23	58	55.75	-08	25	39.1	16.8	9	675
1991 RG21		1991	09	14.44635	23	58	52.46	-08	25	46.8		9	675
1991 RG21		1991	09	16.38663	23	56	58.67	-08	30	32.1	16.8	9	675
1991 RG21		1991	09	16.42674	23	56	56.19	-08	30	37.1		9	675
1991 RH21	*	1991	09	14.39288	23	59	31.79	-06	32	36.7	17.2	9	675
1991 RH21		1991	09	14.44635	23	59	29.35	-06	32	52.6		9	675
1991 RH21		1991	09	16.38663	23	58	03.71	-06	42	14.8	17.8	9	675
1991 RH21		1991	09	16.42674	23	58	01.84	-06	42	26.4		9	675
1991 RJ21	*	1991	09	14.39288	23	59	34.65	-09	28	39.8	16.5	9	675
1991 RJ21		1991	09	14.44635	23	59	32.35	-09	29	05.8		9	675
1991 RJ21		1991	09	16.38663	23	58	13.46	-09	45	26.1	16.8	9	675
1991 RJ21		1991	09	16.42674	23	58	11.72	-09	45	44.5		9	675
1991 RK21	*	1991	09	15.34132	23	11	03.05	-00	55	40.6	18.0	9	675
1991 RK21		1991	09	15.38056	23	11	00.79	-00	55	51.3		9	675
1991 RK21		1991	09	17.25139	23	09	17.71	-01	05	07.6		9	675
1991 RK21		1991	09	17.29097	23	09	15.31	-01	05	17.9	18.0	9	675
1991 RL21	*	1991	09	15.34132	23	16	11.75	+02	08	22.0		9	675

1991	RL21		1991	09	15.38056	23	16	09.69	+02	08	09.6		9	675
1991	RL21		1991	09	17.25139	23	14	33.41	+01	59	16.8		9	675
1991	RL21		1991	09	17.29097	23	14	31.27	+01	59	06.8		9	675
1991	RM21	*	1991	09	15.34132	23	17	28.90	+04	58	04.6	17.5	9	675
1991	RM21		1991	09	15.38056	23	17	26.76	+04	57	51.4		9	675
1991	RM21		1991	09	17.25139	23	15	45.22	+04	46	41.9		9	675
1991	RM21		1991	09	17.29097	23	15	42.84	+04	46	26.0	17.5	9	675
1991	RN21	*	1991	09	15.34132	23	19	20.10	+02	41	45.2	17.5	9	675
1991	RN21		1991	09	15.38056	23	19	17.92	+02	41	32.8		9	675
1991	RN21		1991	09	17.25139	23	17	36.56	+02	30	38.1		9	675
1991	RN21		1991	09	17.29097	23	17	34.18	+02	30	23.9	17.5	9	675
1991	RO21	*	1991	09	15.34132	23	21	36.75	+04	58	46.6		9	675
1991	RO21		1991	09	15.38056	23	21	34.73	+04	58	31.1		9	675
1991	RO21		1991	09	17.25139	23	20	00.55	+04	45	15.3		9	675
1991	RO21		1991	09	17.29097	23	19	58.60	+04	44	58.4	18.5	9	675
1991	RP21	*	1991	09	15.34132	23	22	22.11	+01	25	12.5		9	675
1991	RP21		1991	09	15.38056	23	22	19.73	+01	25	07.0	17.5	9	675
1991	RP21		1991	09	17.25139	23	20	29.76	+01	20	02.3		9	675
1991	RP21		1991	09	17.29097	23	20	27.39	+01	19	56.0	17.5	9	675
1991	ST1		1991	09	14.38368	23	42	37.75	+00	40	45.0	17.2	9	675
1991	ST1		1991	09	14.43767	23	42	35.11	+00	40	27.1		9	675
1991	ST1	*	1991	09	16.37674	23	41	02.94	+00	30	14.5	17.5	9	675
1991	ST1		1991	09	16.41684	23	41	01.03	+00	30	01.9		9	675
1991	ST1		1991	09	17.34861	23	40	16.71	+00	25	10.1	17.2	9	675
1991	ST1		1991	09	17.38229	23	40	15.13	+00	25	00.3		9	675
1991	TA1		1991	11	08.16979	00	26	24.63	+00	21	42.2	15.5	3	675
1991	TA1		1991	11	08.20174	00	26	24.72	+00	20	55.7		3	675
1991	TA1		1991	11	09.19392	00	26	33.76	-00	01	58.4		3	675
1991	TA1		1991	11	10.15694	00	26	44.65	-00	23	36.1		3	675
1991	VB		1991	11	10.27899	01	57	25.33	+25	52	14.1	17.5	3	675
1991	VB		1991	11	10.31198	01	57	26.83	+25	51	41.4		3	675
1991	VL		1991	12	31.11997	23	56	53.50	+12	45	19.2	17.2	3	675
1991	VL		1991	12	31.16007	23	56	53.96	+12	45	01.8		3	675
1991	VG1		1991	11	01.37257	02	46	14.73	+18	45	30.3	16.0	2	675
1991	VG1		1991	11	01.39635	02	46	13.32	+18	45	34.3		2	675
1991	VG1		1991	11	03.37483	02	44	15.81	+18	50	59.2		2	675
1991	VG1		1991	11	03.40920	02	44	13.59	+18	51	04.1		2	675
1991	VG1		1991	12	07.20590	02	18	59.56	+20	01	56.4	16.5	2	675
1991	VG1		1991	12	07.23021	02	18	59.20	+20	02	02.0		2	675
1991	VY1		1991	11	13.24931	02	17	40.06	+49	12	19.0	17.2	3	675
1991	VY1		1991	11	13.30712	02	17	37.26	+49	11	03.9		3	675
1991	VY1		1991	12	01.18351	02	11	37.65	+42	02	39.9		3	675
1991	VY1		1991	12	01.21719	02	11	37.63	+42	01	50.1		3	675
1991	VY1		1991	12	03.17639	02	11	47.31	+41	12	57.6		3	675
1991	VY1		1991	12	07.19983	02	12	37.06	+39	33	55.0	16.7	2	675
1991	VY1		1991	12	07.22413	02	12	37.56	+39	33	20.1		2	675
1991	VV2		1991	12	02.22309	03	24	36.84	+37	46	40.6	16.0	3	675
1991	VV2		1991	12	02.25590	03	24	34.42	+37	46	41.3		3	675
1991	VV2		1991	12	03.24757	03	23	24.27	+37	46	45.0		3	675
1991	VV2		1991	12	03.27865	03	23	21.92	+37	46	44.4		3	675
1991	VC3		1991	12	02.22899	04	05	44.09	+19	01	41.2	16.5	3	675
1991	VC3		1991	12	02.26215	04	05	40.90	+19	02	17.3		3	675
1991	VC3		1991	12	04.27604	04	02	31.35	+19	38	05.7		3	675
1991	VC3		1991	12	08.28134	03	56	23.14	+20	48	26.3	16.0	2	675
1991	VC3		1991	12	08.30972	03	56	20.46	+20	48	56.6		2	675
1991	VC3		1991	12	31.19410	03	31	14.60	+26	47	20.1	17.5	3	675
1991	VC3		1991	12	31.23889	03	31	12.95	+26	47	58.4		3	675
1991	VC3		1992	01	09.17344	03	28	01.60	+28	45	03.1	17.0	2	675
1991	VC3		1992	01	09.19913	03	28	01.36	+28	45	22.0		2	675

1991 VC3		1992 01 10.17778	03 27 55.41	+28 57 33.3			2	675
1991 VC3		1992 01 10.20208	03 27 55.34	+28 57 50.4			2	675
1991 VJ4		1991 12 03.30885	04 04 47.01	+25 54 14.1		17.0	9	675
1991 VJ4		1991 12 03.34131	04 04 44.66	+25 54 12.5			9	675
1991 VS4	*	1991 11 07.30920	01 25 50.01	+37 46 50.7		16.5	3	675
1991 VS4		1991 11 09.25938	01 25 03.39	+36 58 23.3			3	675
1991 VS4		1991 11 09.31806	01 25 01.97	+36 56 54.8			3	675
1991 VT4	*	1991 11 01.37257	02 45 36.04	+17 35 56.0		15.5	2	675
1991 VT4		1991 11 01.39635	02 45 34.78	+17 35 43.9			2	675
1991 VT4		1991 11 03.37483	02 43 50.12	+17 18 20.2			2	675
1991 VT4		1991 11 03.40920	02 43 48.20	+17 18 02.1			2	675
1991 VD5	*	1991 11 07.20990	01 09 12.39	-00 39 31.4		17.0	3	675
1991 VD5		1991 11 07.24236	01 09 11.33	-00 39 33.1			3	675
1991 VD5		1991 11 09.21580	01 08 22.54	-00 38 08.0			3	675
1991 VD5		1991 11 09.24757	01 08 21.66	-00 38 06.1			3	675
1991 VD5		1991 11 12.24184	01 07 22.88	-00 33 55.5			3	675
1991 VD5		1991 11 12.27135	01 07 22.28	-00 33 52.3			3	675
1991 VL5	*	1991 11 01.33264	02 25 51.98	+12 01 57.0		16.5	2	675
1991 VL5		1991 11 01.35851	02 25 50.71	+12 01 52.6			2	675
1991 VL5		1991 11 03.36128	02 24 07.09	+11 55 14.0			2	675
1991 VL5		1991 11 03.39549	02 24 05.40	+11 55 07.9			2	675
1991 VN5	*	1991 11 02.42101	03 26 02.37	+34 09 03.7		16.0	2	675
1991 VN5		1991 11 02.44427	03 26 01.05	+34 08 54.4			2	675
1991 VN5		1991 11 05.50243	03 23 07.88	+33 49 04.5			2	675
1991 VN5		1991 11 05.52326	03 23 06.67	+33 48 56.1			2	675
1991 VP5	*	1991 11 07.33333	04 22 51.75	+36 43 28.8		17.9	3	675
1991 VP5		1991 11 07.36597	04 22 48.67	+36 44 13.1			3	675
1991 VP5		1991 11 07.39288	04 22 46.25	+36 44 48.9		17.8	3	675
1991 VP5		1991 11 07.43056	04 22 42.68	+36 45 40.1			3	675
1991 VP5		1991 11 09.41510	04 19 37.61	+37 29 53.5			3	675
1991 VP5		1991 11 09.42326	04 19 36.82	+37 30 05.7			3	675
1991 VP5		1991 11 09.44826	04 19 34.37	+37 30 37.9			3	675
1991 VP5		1991 11 12.44965	04 14 32.11	+38 36 15.5			3	675
1991 VQ5	*	1991 11 07.33333	04 29 14.37	+40 06 33.3		18.8	3	675
1991 VQ5		1991 11 07.36597	04 29 12.49	+40 06 27.6			3	675
1991 VQ5		1991 11 09.41510	04 27 23.11	+40 02 34.7			3	675
1991 VQ5		1991 11 09.44826	04 27 21.33	+40 02 32.2			3	675
1991 VE7	*	1991 11 07.25434	01 09 41.86	+29 11 48.1		16.8	3	675
1991 VE7		1991 11 07.28750	01 09 40.62	+29 11 27.6			3	675
1991 VE7		1991 11 09.31146	01 08 35.11	+28 49 53.9			3	675
1991 XD	*	1991 12 07.40590	05 50 38.47	+37 25 52.0		15.5	2	675
1991 XD		1991 12 07.42899	05 50 36.00	+37 26 26.0			2	675
1991 XD		1991 12 08.20069	05 49 19.47	+37 44 57.6			2	675
1991 XD		1991 12 08.32292	05 49 06.47	+37 47 55.3			2	675
1991 XD		1992 01 09.22488	04 52 46.21	+46 21 02.1		16.0	2	675
1991 XD		1992 01 09.25069	04 52 44.26	+46 21 13.4			2	675
1991 XD		1992 01 11.26024	04 50 25.14	+46 35 37.8			2	675
1991 XD		1992 01 11.28611	04 50 23.15	+46 35 46.3			2	675
1991 XE	*	1991 12 07.41753	06 05 10.22	+26 42 37.4		15.5	2	675
1991 XE		1991 12 07.44063	06 05 07.83	+26 43 10.0			2	675
1991 XE		1991 12 08.12587	06 03 57.60	+26 59 20.6			2	675
1991 XE		1991 12 08.17170	06 03 52.78	+27 00 27.5			2	675
1991 XE		1991 12 08.31701	06 03 37.07	+27 03 55.6			2	675
1991 XE		1992 01 09.23125	05 05 11.20	+37 02 42.8		16.5	2	675
1991 XE		1992 01 09.25677	05 05 08.86	+37 03 01.8			2	675
1991 XN	*	1991 12 07.41753	06 12 38.24	+29 34 50.2		16.0	2	675
1991 XN		1991 12 07.44063	06 12 37.18	+29 35 07.1			2	675
1991 XN		1991 12 08.12587	06 12 09.34	+29 43 32.6			2	675
1991 XN		1991 12 08.17170	06 12 07.38	+29 44 08.0			2	675

1991 XN		1991	12	08.31701	06	12	00.48	+29	45	58.8		2 675
1991 XN		1992	01	09.26319	05	44	06.94	+34	44	13.7	16.5	2 675
1991 XN		1992	01	09.28681	05	44	05.87	+34	44	21.4		2 675
1991 XN		1992	01	11.30683	05	42	58.88	+34	54	05.2		2 675
1991 XN		1992	01	11.32506	05	42	58.17	+34	54	12.4		2 675
1991 XR	*	1991	12	03.37066	05	32	16.79	+44	09	27.5	17.4	3 675
1991 XR		1991	12	03.40399	05	32	13.78	+44	08	50.1		3 675
1991 XR		1991	12	06.37951	05	27	59.37	+43	13	01.0		3 675
1991 XR		1991	12	06.41111	05	27	56.49	+43	12	24.8		3 675
1991 XR		1991	12	31.26597	04	57	21.92	+33	14	29.7	17.0	3 675
1991 XR		1991	12	31.29861	04	57	20.27	+33	13	38.0		3 675
1991 XX	*	1991	12	02.36233	06	19	44.80	+31	33	19.8	17.5	3 675
1991 XX		1991	12	02.39670	06	19	43.80	+31	33	21.0		3 675
1991 XX		1991	12	06.44427	06	17	41.41	+31	34	56.9		3 675
1991 XX		1991	12	06.47240	06	17	40.50	+31	34	57.8		3 675
1991 XE1	*	1991	12	02.29462	05	02	29.51	+16	20	59.6	16.5	3 675
1991 XE1		1991	12	02.32937	05	02	27.19	+16	21	12.4		3 675
1991 XE1		1991	12	06.39809	04	57	56.09	+16	48	07.1		3 675
1991 XE1		1991	12	06.43038	04	57	53.99	+16	48	19.3		3 675
1992 AC		1992	01	30.39149	09	46	20.26	+28	11	08.1	11.0	2 675
1992 AC		1992	01	30.41354	09	46	22.94	+28	12	35.8		2 675
1992 AC		1992	02	01.36823	09	51	12.81	+30	21	00.4		2 675
1992 AD		1992	01	01.44306	08	13	55.56	+19	40	08.7	18.0	3 675
1992 AD		1992	01	01.47951	08	13	54.97	+19	40	11.1		3 675
1992 AD		1992	01	09.50243	08	11	35.51	+19	58	38.7	16.8	2 675
1992 AD		1992	01	10.50729	08	11	17.27	+20	01	00.9		2 675
1992 AE		1992	01	10.17188	02	25	52.89	+11	56	19.5	17	2 675
1992 AE		1992	01	10.19010	02	25	55.27	+11	56	40.3		2 675
1992 AM	*	1992	01	09.37433	07	00	55.46	+27	49	58.5	16.5	2 675
1992 AM		1992	01	09.39659	07	00	53.40	+27	50	25.0		2 675
1992 AM		1992	01	11.38602	06	58	19.34	+28	28	58.4		2 675
1992 AM		1992	01	11.41204	06	58	17.34	+28	29	25.8		2 675
1992 AN	*	1992	01	09.36725	07	04	11.88	+14	53	04.0	16.0	2 675
1992 AN		1992	01	09.38872	07	04	10.26	+14	53	19.4		2 675
1992 AN		1992	01	11.38015	07	01	47.46	+15	19	18.2		2 675
1992 AO	*	1992	01	09.40313	07	17	55.36	+09	16	22.8	16.0	2 675
1992 AO		1992	01	09.42535	07	17	53.85	+09	16	42.2		2 675
1992 AO		1992	01	10.37905	07	16	52.06	+09	30	01.0		2 675
1992 AP	*	1992	01	10.26024	06	25	38.94	+30	06	43.0	16.0	2 675
1992 AP		1992	01	10.29132	06	25	36.44	+30	05	59.7		2 675
1992 AP		1992	01	11.31308	06	24	17.24	+29	42	46.8		2 675
1992 AQ	*	1992	01	10.39728	07	31	16.93	+26	02	17.7	17.0	2 675
1992 AQ		1992	01	10.42135	07	31	15.31	+26	02	59.0		2 675
1992 AQ		1992	01	11.26713	07	30	17.14	+26	26	36.9		2 675
1992 AQ		1992	01	11.41771	07	30	06.19	+26	30	46.3		2 675
1992 AR	*	1992	01	09.32240	06	56	37.19	+26	40	28.2	16.0	2 675
1992 AR		1992	01	09.34618	06	56	35.60	+26	40	38.3		2 675
1992 AR		1992	01	11.34306	06	54	34.39	+26	56	15.8		2 675
1992 AS	*	1992	01	10.31545	06	51	19.84	+11	55	10.1	15.5	2 675
1992 AS		1992	01	10.34427	06	51	17.96	+11	55	05.3		2 675
1992 AS		1992	01	11.35440	06	50	16.26	+11	50	33.4		2 675
1992 AT	*	1992	01	09.32847	06	42	38.63	+42	02	57.4	16.5	2 675
1992 AT		1992	01	09.35243	06	42	36.68	+42	03	13.5		2 675
1992 AT		1992	01	11.37297	06	40	02.83	+42	23	17.3		2 675
1992 AT		1992	01	11.40012	06	40	00.81	+42	23	31.8		2 675
1992 AU	*	1992	01	09.27500	06	04	16.11	+23	51	22.8	17.0	2 675
1992 AU		1992	01	09.29861	06	04	14.61	+23	51	18.7		2 675
1992 AU		1992	01	10.27882	06	03	16.29	+23	49	36.6		2 675
1992 AV	*	1992	01	09.28073	06	32	37.75	+12	45	10.9	17.0	2 675

1992	AV		1992	01	09.30417	06	32	36.28	+12	45	12.2			2	675
1992	AV		1992	01	10.27274	06	31	37.60	+12	46	33.1			2	675
1992	BC	*	1992	01	29.38924	09	21	43.84	+28	36	00.5		16.5	2	675
1992	BC		1992	01	29.41250	09	21	46.63	+28	39	03.2			2	675
1992	BC		1992	01	30.36823	09	24	18.53	+30	46	43.7			2	675
1992	BC		1992	01	30.50075	09	24	37.60	+31	04	51.0			2	675
1992	BC		1992	01	31.17951	09	26	43.34	+32	40	43.1			2	675
1992	BC		1992	01	31.38299	09	27	15.64	+33	10	34.3			2	675
1992	BC		1992	01	31.50139	09	27	34.70	+33	27	42.0			2	675
1992	BC		1992	02	01.24132	09	30	05.70	+35	18	49.4			2	675
1992	BC		1992	02	01.29583	09	30	15.38	+35	27	18.1			2	675
1992	BC		1992	02	02.34635	09	34	02.55	+38	13	10.1			2	675
1992	BC		1992	02	02.36615	09	34	06.46	+38	16	22.6			2	675
1992	BC		1992	02	03.32813	09	38	05.23	+40	55	56.4			2	675
1992	BC		1992	02	03.35243	09	38	11.26	+41	00	14.8			2	675
1992	BC		1992	02	03.41441	09	38	25.09	+41	10	38.9			2	675
1992	BF	*	1992	01	30.46806	10	05	07.56	+15	17	04.7			2	675
1992	BF		1992	01	30.50764	10	04	55.19	+15	16	36.4			2	675
1992	BF		1992	01	31.49479	09	59	52.96	+15	04	19.5		16.5	2	675
1992	BF		1992	01	31.52031	09	59	44.61	+15	03	59.4			2	675
1992	BF		1992	02	02.33958	09	49	47.18	+14	38	57.8		16	2	675
1992	BF		1992	02	02.35903	09	49	40.21	+14	38	39.9			2	675
1992	BF		1992	02	03.32153	09	44	00.03	+14	23	58.9		15.5	2	675
1992	BF		1992	02	03.34583	09	43	50.63	+14	23	35.6			2	675
1992	BF		1992	02	03.42101	09	43	21.45	+14	22	24.6			2	675
1992	BV	*	1992	01	30.31094	08	20	23.51	+17	42	32.0		16.5	2	675
1992	BV		1992	01	30.33924	08	20	21.20	+17	43	08.7			2	675
1992	BV		1992	02	01.23247	08	17	59.49	+18	22	53.7			2	675
1992	BV		1992	02	01.27222	08	17	56.38	+18	23	42.9			2	675
1992	BW	*	1992	01	30.37500	08	38	51.14	+24	57	20.9		16.0	2	675
1992	BW		1992	01	30.39757	08	38	48.59	+24	57	05.7			2	675
1992	BW		1992	02	02.43194	08	33	16.97	+24	21	41.3			2	675
1992	BW		1992	02	02.45451	08	33	14.49	+24	21	25.5			2	675
1992	BA1	*	1992	01	30.33229	08	42	56.13	+34	33	33.2		16	2	675
1992	BA1		1992	01	30.36042	08	42	52.88	+34	33	06.4			2	675
1992	BA1		1992	01	31.41128	08	40	54.82	+34	15	26.2			2	675
1992	BB1	*	1992	01	29.37170	08	08	02.09	+01	38	17.0		16.5	2	675
1992	BB1		1992	01	29.39497	08	07	59.95	+01	38	00.2			2	675
1992	BB1		1992	01	29.41840	08	07	58.05	+01	37	46.1			2	675
1992	BB1		1992	01	30.25417	08	06	47.65	+01	28	20.6			2	675
1992	BB1		1992	01	31.17031	08	05	31.08	+01	18	16.7			2	675
1992	BB1		1992	01	31.37674	08	05	13.43	+01	16	03.7			2	675
1992	BB1		1992	02	02.35313	08	02	32.25	+00	55	23.4			2	675
1992	BB1		1992	02	02.37240	08	02	30.70	+00	55	11.9			2	675
1992	BC1	*	1992	01	30.32517	08	12	42.27	+11	47	20.8		16.5	2	675
1992	BC1		1992	01	30.35278	08	12	40.56	+11	47	57.5			2	675
1992	BC1		1992	01	31.31319	08	11	45.93	+12	09	10.4			2	675
1992	BC1		1992	01	31.33872	08	11	44.34	+12	09	45.2			2	675
1992	BC1		1992	02	02.38177	08	09	51.00	+12	54	25.6			2	675
1992	BC1		1992	02	02.40781	08	09	49.53	+12	55	02.1			2	675
1992	CA	*	1992	02	02.44878	09	56	44.66	+10	36	44.9		16.5	2	675
1992	CA		1992	02	03.38941	09	55	51.21	+10	57	43.6			2	675
1992	CA		1992	02	03.40747	09	55	49.99	+10	58	06.2			2	675
2103	P-L		1991	12	06.37344	03	45	22.67	+17	54	36.9			9	675
2536	P-L	*	1960	09	24.46184	00	46	33.27	+00	40	06.2		17.0	4	675
2536	P-L		1960	09	26.37988	00	44	31.14	+00	38	17.2			4	675
2536	P-L		1960	09	28.43822	00	42	17.92	+00	36	23.4			4	675
2536	P-L		1960	09	29.39514	00	41	15.80	+00	35	32.4			4	675
2536	P-L		1960	10	17.31529	00	23	03.08	+00	31	09.9			4	675

2536	P-L		1960	10	22.26809	00	19	04.90	+00	36	01.4		4	675
2536	P-L		1960	10	25.30351	00	16	59.95	+00	40	42.5		4	675
2536	P-L		1960	10	26.35766	00	16	20.48	+00	42	37.8		4	675
7075	P-L		1960	09	28.32780	00	06	08.05	+06	35	32.5		4	675
7075	P-L	*	1960	10	17.27085	23	55	19.33	+03	48	16.4	18.2	4	675
7075	P-L		1960	10	22.22293	23	53	27.98	+03	09	54.9		4	675
7075	P-L		1960	10	24.18787	23	52	52.80	+02	55	43.1		4	675
7075	P-L		1960	10	24.35836	23	52	49.73	+02	54	30.5		4	675
7075	P-L		1960	10	26.26113	23	52	21.21	+02	41	26.1		4	675
2087	T-2		1973	09	19.19948	00	36	31.42	+06	48	47.0		4	675
2087	T-2		1973	09	19.25006	00	36	28.90	+06	48	39.1		4	675
2087	T-2		1973	09	20.26458	00	35	38.87	+06	45	37.2		4	675
2087	T-2		1973	09	24.36181	00	32	10.91	+06	32	29.9		4	675
2087	T-2		1973	09	24.42847	00	32	07.35	+06	32	16.5		4	675
2087	T-2		1973	09	25.25642	00	31	24.86	+06	29	23.8		4	675
2087	T-2		1973	09	25.32031	00	31	21.30	+06	29	10.4		4	675
2087	T-2		1973	09	29.26632	00	27	54.77	+06	15	05.6		4	675
2087	T-2	*	1973	09	29.33073	00	27	51.25	+06	14	52.1	18.0	4	675
2087	T-2		1973	09	30.22257	00	27	04.56	+06	11	31.3		4	675
2087	T-2		1973	09	30.28785	00	27	01.00	+06	11	17.1		4	675
2087	T-2		1973	10	04.30208	00	23	31.15	+05	56	05.7		4	675
2087	T-2		1973	10	04.36476	00	23	27.73	+05	55	51.2		4	675
2087	T-2		1973	10	05.32917	00	22	38.08	+05	52	08.3		4	675
2087	T-2		1973	10	05.39132	00	22	34.71	+05	51	56.2		4	675
2124	T-2		1973	09	20.26458	00	38	28.70	+07	33	09.0		4	675
2124	T-2		1973	09	24.36181	00	35	08.33	+07	14	52.5		4	675
2124	T-2		1973	09	24.42847	00	35	04.81	+07	14	33.8		4	675
2124	T-2		1973	09	25.25642	00	34	23.31	+07	10	33.1		4	675
2124	T-2		1973	09	25.32031	00	34	19.88	+07	10	14.4		4	675
2124	T-2		1973	09	29.26632	00	30	55.46	+06	50	16.1		4	675
2124	T-2	*	1973	09	29.33073	00	30	51.86	+06	49	55.3	17.9	4	675
2124	T-2		1973	09	30.22257	00	30	05.30	+06	45	10.1		4	675
2124	T-2		1973	09	30.28785	00	30	01.73	+06	44	49.3		4	675
2124	T-2		1973	10	04.30208	00	26	31.05	+06	22	55.6		4	675
2124	T-2		1973	10	04.36476	00	26	27.58	+06	22	36.3		4	675
2124	T-2		1973	10	05.32917	00	25	37.51	+06	17	15.3		4	675
2124	T-2		1973	10	05.39132	00	25	34.18	+06	16	54.5		4	675
2287	T-2		1973	09	20.26458	00	50	27.27	+03	10	37.5		4	675
2287	T-2		1973	09	24.36181	00	47	31.02	+02	41	11.7		4	675
2287	T-2		1973	09	24.42847	00	47	27.92	+02	40	42.4		4	675
2287	T-2		1973	09	25.25642	00	46	51.63	+02	34	34.9		4	675
2287	T-2		1973	09	25.32031	00	46	48.69	+02	34	07.7		4	675
2287	T-2		1973	09	29.26632	00	43	49.40	+02	05	02.7		4	675
2287	T-2		1973	09	29.29219	00	43	48.19	+02	04	49.2		4	675
2287	T-2	*	1973	09	29.33073	00	43	46.25	+02	04	33.4	18.0	4	675
2287	T-2		1973	09	29.35694	00	43	45.10	+02	04	21.1		4	675
2287	T-2		1973	09	30.22257	00	43	05.20	+01	57	54.7		4	675
2287	T-2		1973	09	30.24826	00	43	04.07	+01	57	47.3		4	675
2287	T-2		1973	09	30.28785	00	43	02.11	+01	57	28.0		4	675
2287	T-2		1973	09	30.31476	00	43	00.89	+01	57	18.5		4	675
2287	T-2		1973	10	04.30208	00	39	55.80	+01	27	54.8		4	675
2287	T-2		1973	10	04.32708	00	39	54.47	+01	27	44.0		4	675
2287	T-2		1973	10	04.36476	00	39	52.70	+01	27	26.2		4	675
2287	T-2		1973	10	04.38889	00	39	51.51	+01	27	17.2		4	675
2287	T-2		1973	10	05.32917	00	39	08.09	+01	20	23.5		4	675
2287	T-2		1973	10	05.35382	00	39	06.74	+01	20	14.2		4	675
2287	T-2		1973	10	05.39132	00	39	05.16	+01	19	55.6		4	675
2287	T-2		1973	10	05.41597	00	39	03.77	+01	19	46.0		4	675
3262	T-2		1991	12	06.24322	03	45	48.22	+21	54	01.4	17.5	9	675

3262	T-2		1991	12	06.37344	03	45	39.92	+21	53	41.1		9	675
4135	T-2		1973	09	19.22500	00	39	43.33	-02	13	12.1		4	675
4135	T-2		1973	09	19.27865	00	39	40.45	-02	13	21.8		4	675
4135	T-2		1973	09	20.30278	00	38	46.98	-02	16	09.9		4	675
4135	T-2		1973	09	24.38750	00	35	08.53	-02	27	16.0		4	675
4135	T-2		1973	09	24.45434	00	35	04.81	-02	27	26.0		4	675
4135	T-2		1973	09	25.28125	00	34	19.92	-02	29	38.1		4	675
4135	T-2		1973	09	25.34601	00	34	16.33	-02	29	46.8		4	675
4135	T-2	*	1973	09	29.29219	00	30	38.82	-02	39	51.4	18.3	4	675
4135	T-2		1973	09	29.35694	00	30	35.23	-02	40	01.4		4	675
4135	T-2		1973	09	30.24826	00	29	46.04	-02	42	09.8		4	675
4135	T-2		1973	09	30.31476	00	29	42.28	-02	42	20.4		4	675
4135	T-2		1973	10	04.32708	00	26	01.08	-02	51	21.4		4	675
4135	T-2		1973	10	04.38889	00	25	57.49	-02	51	28.7		4	675
4135	T-2		1973	10	05.35382	00	25	04.96	-02	53	26.0		4	675
4135	T-2		1973	10	05.41597	00	25	01.41	-02	53	33.3		4	675
2157	T-3		1977	10	07.25868	01	06	35.69	+12	52	17.2		4	675
2157	T-3		1977	10	11.27743	01	02	55.19	+12	22	11.2		4	675
2157	T-3		1977	10	11.34375	01	02	51.30	+12	21	41.0		4	675
2157	T-3		1977	10	12.27587	01	02	00.13	+12	14	27.5		4	675
2157	T-3		1977	10	12.34271	01	01	56.24	+12	13	56.5		4	675
2157	T-3	*	1977	10	16.26233	00	58	22.98	+11	42	40.0	17.6	4	675
2157	T-3		1977	10	16.32795	00	58	19.24	+11	42	09.6		4	675
2157	T-3		1977	10	17.26458	00	57	29.12	+11	34	35.2		4	675
2157	T-3		1977	10	17.33177	00	57	25.52	+11	34	02.6		4	675
2157	T-3		1977	10	21.40868	00	53	55.01	+11	00	50.9		4	675
2157	T-3		1977	10	21.46910	00	53	51.83	+11	00	21.7		4	675
2157	T-3		1977	10	22.41528	00	53	05.13	+10	52	41.8		4	675
2157	T-3		1977	10	22.46962	00	53	02.41	+10	52	14.7		4	675
2318	T-3		1991	12	06.24322	03	30	47.93	+17	46	58.4	18.5	9	675
2318	T-3		1991	12	06.37344	03	30	41.73	+17	46	31.0		9	675
2370	T-3		1977	10	07.25868	01	21	37.72	+13	54	13.1		4	675
2370	T-3		1977	10	11.27743	01	18	28.42	+13	22	52.0		4	675
2370	T-3		1977	10	11.34375	01	18	25.17	+13	22	20.4		4	675
2370	T-3		1977	10	12.27587	01	17	41.14	+13	14	52.7		4	675
2370	T-3		1977	10	12.34271	01	17	37.89	+13	14	20.5		4	675
2370	T-3	*	1977	10	16.26233	01	14	33.46	+12	42	24.6	18.0	4	675
2370	T-3		1977	10	16.32795	01	14	30.23	+12	41	53.5		4	675
2370	T-3		1977	10	17.26458	01	13	46.72	+12	34	12.8		4	675
2370	T-3		1977	10	17.33177	01	13	43.41	+12	33	40.3		4	675
2370	T-3		1977	10	21.40868	01	10	38.10	+12	00	02.1		4	675
2370	T-3		1977	10	21.46910	01	10	35.39	+11	59	32.9		4	675
2370	T-3		1977	10	22.41528	01	09	53.76	+11	51	45.6		4	675
2370	T-3		1977	10	22.46962	01	09	51.23	+11	51	20.3		4	675
3398	T-3		1977	10	07.27031	01	19	12.77	+04	59	10.5		4	675
3398	T-3		1977	10	11.28819	01	15	34.46	+04	31	33.1		4	675
3398	T-3		1977	10	11.35642	01	15	30.45	+04	31	05.1		4	675
3398	T-3		1977	10	12.28681	01	14	39.59	+04	24	41.4		4	675
3398	T-3		1977	10	12.29826	01	14	38.82	+04	24	36.0		4	675
3398	T-3		1977	10	12.35347	01	14	35.76	+04	24	14.0		4	675
3398	T-3		1977	10	12.36441	01	14	35.00	+04	24	08.7		4	675
3398	T-3	*	1977	10	16.27309	01	10	59.84	+03	57	49.7	17.3	4	675
3398	T-3		1977	10	16.33872	01	10	56.08	+03	57	22.5		4	675
3398	T-3		1977	10	17.27552	01	10	05.08	+03	51	15.7		4	675
3398	T-3		1977	10	17.34236	01	10	01.21	+03	50	48.2		4	675
3398	T-3		1977	10	21.39792	01	06	24.70	+03	25	14.2		4	675
3398	T-3		1977	10	21.45799	01	06	21.43	+03	24	52.6		4	675
4032	T-3		1977	10	07.28125	01	24	04.75	+02	19	33.7		4	675
4032	T-3		1977	10	11.30000	01	20	15.90	+02	10	05.5		4	675

4032	T-3		1977	10	11.36771	01	20	11.73	+02	09	57.4			4	675
4032	T-3		1977	10	12.29826	01	19	18.23	+02	07	56.1			4	675
4032	T-3		1977	10	12.36441	01	19	14.15	+02	07	47.1			4	675
4032	T-3	*	1977	10	16.28368	01	15	27.75	+02	00	15.8		17.0	4	675
4032	T-3		1977	10	16.34931	01	15	23.72	+02	00	07.9			4	675
4032	T-3		1977	10	17.28628	01	14	30.36	+01	58	35.1			4	675
4032	T-3		1977	10	17.35313	01	14	26.42	+01	58	29.0			4	675
4032	T-3		1977	10	21.38698	01	10	41.07	+01	53	16.0			4	675
4032	T-3		1977	10	21.44705	01	10	37.66	+01	53	11.8			4	675
(157)			1991	12	06.24322	03	53	47.21	+22	03	02.1			9	675
(157)			1991	12	06.37344	03	53	38.12	+22	03	33.8			9	675
(158)			1992	01	09.12882	02	13	00.26	+14	14	49.1		15.0	2	675
(158)			1992	01	09.15347	02	13	00.97	+14	14	52.6			2	675
(158)			1992	01	10.17188	02	13	30.62	+14	16	51.5			2	675
(158)			1992	01	10.19010	02	13	31.14	+14	16	56.9			2	675
(416)			1991	12	03.30885	04	00	51.99	+22	46	22.7		13.2	9	675
(416)			1991	12	03.34131	04	00	50.04	+22	46	21.9			9	675
(732)			1992	01	09.31076	06	23	05.23	+06	27	47.4		15.0	2	675
(732)			1992	01	09.33420	06	23	04.04	+06	27	52.7			2	675
(790)			1991	12	01.31197	03	50	20.52	+24	57	24.7		14.0	9	675
(790)			1991	12	01.34427	03	50	18.75	+24	57	13.3			9	675
(790)			1991	12	03.30885	03	48	47.96	+24	44	27.6			9	675
(790)			1991	12	03.34131	03	48	46.55	+24	44	15.0			9	675
(797)			1991	12	06.24322	03	40	54.96	+19	01	42.7			9	675
(797)			1991	12	06.37344	03	40	47.86	+19	01	07.7			9	675
(939)			1991	12	01.31197	04	08	07.21	+25	39	44.3		15.2	9	675
(939)			1991	12	01.34427	04	08	04.76	+25	39	37.2			9	675
(939)			1991	12	03.30885	04	05	46.94	+25	32	10.0			9	675
(939)			1991	12	03.34131	04	05	44.58	+25	32	02.1			9	675
(983)			1991	12	06.24322	03	36	58.94	+22	49	52.5			9	675
(983)			1991	12	06.37344	03	36	53.05	+22	49	06.4			9	675
(1042)			1991	12	01.31197	04	05	12.35	+28	06	31.2		14.8	9	675
(1042)			1991	12	01.34427	04	05	10.25	+28	06	36.3			9	675
(1042)			1991	12	03.30885	04	03	08.42	+28	11	14.1			9	675
(1042)			1991	12	03.34131	04	03	06.36	+28	11	18.2			9	675
(1190)			1991	12	01.31197	04	03	17.43	+24	34	13.2		15.5	9	675
(1190)			1991	12	01.34427	04	03	15.26	+24	34	10.2			9	675
(1190)			1991	12	03.30885	04	01	10.30	+24	31	11.2			9	675
(1190)			1991	12	03.34131	04	01	08.15	+24	31	08.3			9	675
(1248)			1991	12	06.24322	03	42	09.24	+15	26	30.1			9	675
(1248)			1991	12	06.37344	03	42	01.97	+15	26	37.1			9	675
(1430)			1991	12	01.31197	03	47	47.88	+25	22	24.0		16.5	9	675
(1430)			1991	12	01.34427	03	47	45.81	+25	22	17.1			9	675
(1430)			1991	12	03.30885	03	45	47.39	+25	14	43.7			9	675
(1430)			1991	12	03.34131	03	45	45.39	+25	14	35.9			9	675
(1540)			1991	12	01.31197	04	07	53.15	+25	13	24.9		15.5	9	675
(1540)			1991	12	01.34427	04	07	51.02	+25	13	26.5			9	675
(1540)			1991	12	03.30885	04	05	48.36	+25	15	13.4			9	675
(1540)			1991	12	03.34131	04	05	46.26	+25	15	14.2			9	675
(1814)			1991	12	01.31197	04	02	03.99	+27	05	56.6		16.0	9	675
(1814)			1991	12	01.34427	04	02	01.58	+27	05	55.8			9	675
(1814)			1991	12	03.30885	03	59	44.99	+27	03	47.6			9	675
(1814)			1991	12	03.34131	03	59	42.64	+27	03	44.7			9	675
(2029)			1991	12	01.31197	04	08	52.70	+26	16	40.5		16.5	9	675
(2029)			1991	12	01.34427	04	08	50.37	+26	16	28.3			9	675
(2029)			1991	12	03.30885	04	06	41.22	+26	04	57.8			9	675
(2029)			1991	12	03.34131	04	06	38.94	+26	04	45.9			9	675
(2043)			1991	12	01.31197	03	51	10.13	+24	52	04.2		15.2	9	675
(2043)			1991	12	01.34427	03	51	08.36	+24	51	58.9			9	675

(2043)	1991	12	03.30885	03 49 26.99	+24 45 46.1		9	675
(2043)	1991	12	03.34131	03 49 25.31	+24 45 39.4		9	675
(2058)	1991	12	06.24322	03 40 00.23	+17 32 07.0		9	675
(2058)	1991	12	06.37344	03 39 54.22	+17 31 52.3		9	675
(2332)	1991	12	06.24322	03 49 24.13	+20 54 33.6		9	675
(2332)	1991	12	06.37344	03 49 16.94	+20 54 40.7		9	675
(2346)	1991	12	06.24322	03 55 35.10	+20 06 16.2		9	675
(2346)	1991	12	06.37344	03 55 27.46	+20 05 27.9		9	675
(2395)	1991	12	06.24322	03 45 47.22	+19 36 36.7		9	675
(2395)	1991	12	06.37344	03 45 40.89	+19 36 17.6		9	675
(2417)	1991	12	06.24322	03 36 11.50	+17 25 56.0		9	675
(2417)	1991	12	06.37344	03 36 05.25	+17 25 46.4		9	675
(2465)	1991	12	01.31197	03 57 48.03	+25 03 27.7	16.8	9	675
(2465)	1991	12	01.34427	03 57 46.02	+25 03 21.0		9	675
(2465)	1991	12	03.30885	03 55 54.46	+24 55 51.9		9	675
(2465)	1991	12	03.34131	03 55 52.67	+24 55 43.8		9	675
(2517)	1991	12	06.24322	03 59 47.38	+20 05 56.0		9	675
(2517)	1991	12	06.37344	03 59 40.78	+20 05 44.5		9	675
(2571)	1991	12	06.24322	03 26 06.13	+18 22 37.0		9	675
(2571)	1991	12	06.37344	03 25 59.12	+18 22 29.1		9	675
(2790)	1991	12	01.31197	03 39 54.21	+25 21 16.6	16.0	9	675
(2790)	1991	12	01.34427	03 39 51.92	+25 21 26.6		9	675
(2790)	1991	12	03.30885	03 37 38.88	+25 30 26.5		9	675
(2790)	1991	12	03.34131	03 37 36.60	+25 30 36.2		9	675
(2944)	1991	10	10.16024	22 18 03.66	-03 21 33.0	16.0	2	675
(2944)	1991	10	10.18559	22 18 03.62	-03 21 42.7		2	675
(2944)	1991	10	12.14497	22 18 12.16	-03 37 05.9		2	675
(2944)	1991	10	12.17101	22 18 12.18	-03 37 17.6		2	675
(3193)	1991	12	01.31197	04 06 30.67	+29 59 51.4	16.2	9	675
(3193)	1991	12	01.34427	04 06 28.15	+29 59 48.7		9	675
(3193)	1991	12	03.30885	04 04 07.79	+29 57 27.7	16.8	9	675
(3193)	1991	12	03.34131	04 04 05.40	+29 57 24.5		9	675
(3193)	1991	12	31.20052	03 41 22.86	+28 47 22.4		3	675
(3193)	1991	12	31.24479	03 41 21.64	+28 47 13.2		3	675
(3200)	1991	12	03.24757	03 07 38.87	+35 51 16.0	17.6	3	675
(3200)	1991	12	03.27865	03 07 32.00	+35 50 36.5		3	675
(3239)	1991	12	06.24322	04 00 13.95	+18 01 13.1		9	675
(3239)	1991	12	06.37344	04 00 05.20	+18 01 05.5		9	675
(3513)	1991	12	01.31197	04 05 50.21	+25 03 45.0	16.8	9	675
(3513)	1991	12	01.34427	04 05 48.05	+25 03 38.5		9	675
(3513)	1991	12	03.30885	04 03 49.18	+24 57 28.8		9	675
(3513)	1991	12	03.34131	04 03 47.01	+24 57 24.6		9	675
(3518)	1991	11	07.40747	05 19 32.13	+03 15 47.2	18.6	3	675
(3518)	1991	11	07.44392	05 19 30.90	+03 15 40.8		3	675
(3580)	1991	12	01.31197	03 58 42.32	+25 41 35.4	17.2	9	675
(3580)	1991	12	01.34427	03 58 40.24	+25 41 31.1		9	675
(3580)	1991	12	03.30885	03 56 42.47	+25 36 09.5		9	675
(3580)	1991	12	03.34131	03 56 40.53	+25 36 02.7		9	675
(3839)	1991	12	06.24322	03 51 28.84	+19 53 47.2		9	675
(3839)	1991	12	06.37344	03 51 21.26	+19 53 17.3		9	675
(3847)	1991	12	06.24322	03 39 36.89	+19 05 40.0	16.8	9	675
(3847)	1991	12	06.37344	03 39 30.69	+19 05 28.5		9	675
(4013)	1991	12	06.24322	04 01 54.12	+20 00 53.0		9	675
(4013)	1991	12	06.37344	04 01 47.43	+20 00 32.6		9	675
(4104)	1991	12	03.30885	04 12 23.03	+28 02 18.5	17.2	9	675
(4104)	1991	12	03.34131	04 12 20.68	+28 02 21.3		9	675
(4127)	1991	12	06.24322	03 47 43.79	+16 26 09.3		9	675
(4127)	1991	12	06.37344	03 47 37.25	+16 25 51.3		9	675
(4579)	1991	12	06.24322	03 50 20.94	+17 32 53.1	17.8	9	675

(4579)	1991 12 06.37344	03 50 13.19	+17 32 35.0		9	675
(4642)	1991 12 06.24322	03 30 37.70	+17 35 53.2		9	675
(4642)	1991 12 06.37344	03 30 32.16	+17 35 36.5		9	675
(4710)	1991 12 01.31197	03 44 24.25	+24 36 40.0	16.5	9	675
(4710)	1991 12 01.34427	03 44 22.01	+24 36 29.2		9	675
(4710)	1991 12 03.30885	03 42 14.92	+24 24 04.2		9	675
(4710)	1991 12 03.34131	03 42 12.79	+24 23 51.4		9	675
(5025)	1990 03 27.22344	10 38 38.01	+09 52 22.9	17.8	3	675
(5025)	1990 03 27.25625	10 38 37.05	+09 52 26.4		3	675
(5032)	1991 12 07.25729	03 17 42.67	+04 57 56.3	16.5	2	675
(5032)	1991 12 07.28733	03 17 41.56	+04 57 52.6		2	675

688 Lowell Observatory, Anderson Mesa Station
E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff AZ 86001, U.S.A.
Observer B. A. Skiff
Measurer B. A. Skiff
1.1-m f/8 Hall reflector + CCD

1989 QO	1991 06 09.20139	14 03 19.46	+21 59 38.8		I	688
1989 QO	1991 06 09.20556	14 03 19.36	+21 59 34.8			688
1991 XB	1992 01 13.26978	05 03 20.84	-01 43 37.0			688
1991 XB	1992 01 13.27509	05 03 21.40	-01 43 40.5			688
1992 AA	1992 01 13.26099	04 47 14.79	+23 12 29.0			688
1992 AA	1992 01 13.26534	04 47 15.22	+23 12 38.2			688
1992 AB	1992 01 10.21572	04 15 26.31	+20 41 53.4			688
1992 AB	1992 01 10.22008	04 15 25.87	+20 42 02.2			688
1992 AB	1992 01 13.25076	04 10 41.93	+22 24 56.6			688
1992 AB	1992 01 13.25475	04 10 41.56	+22 25 04.3			688

690 Lowell Observatory
E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A.
Observers R. L. Burnham, J. C. Duncan, K. A. Newman, C. D. Slaughter, E. C. Slipher, C. W. Tombaugh, O. Franz, R. Millis
Measurers C. M. Olmstead, B. A. Skiff, L. H. Wasserman
0.33-m photographic telescope, 0.125-m astrograph, 0.46-m astrograph

(15)	1992 01 16.55081	13 55 04.36	-24 14 22.5			690
(15)	1992 01 16.55503	13 55 04.54	-24 14 24.5			690
(54)	1959 02 01.28476	08 59 36.46	+17 39 37.4			690
(74)	1907 04 16.41523	14 12 38.90	-11 56 34.7			690
(100)	1906 08 23.31436	20 30 22.78	-19 54 05.9		I	690
(260)	1930 06 26.33819	19 03 39.11	-14 10 25.3			690
(260)	1930 06 30.32292	19 00 45.49	-14 15 37.7			690
(300)	1906 06 21.23745	17 31 45.66	-24 03 57.3		f	690
(310)	1959 02 01.28476	08 54 51.81	+12 09 48.1			690
(310)	1959 02 02.27897	08 53 57.20	+12 13 21.3			690
(325)	1930 12 13.19236	02 50 03.69	+29 14 43.3			690
(325)	1930 12 14.20069	02 49 37.74	+29 10 42.0			690
(325)	1930 12 16.19444	02 48 51.86	+29 02 50.9			690
(379)	1907 04 16.41523	14 30 37.31	-13 15 46.6		V	690
(398)	1930 11 26.21528	03 28 38.37	+30 48 35.8			690
(471)	1906 05 31.40486	18 06 10.73	-23 01 22.6			690
(471)	1906 06 01.41667	18 05 22.92	-23 04 53.0			690
(505)	1906 05 31.40486	18 06 51.59	-21 40 44.1		R	690
(505)	1906 06 01.41667	18 06 02.69	-21 42 38.8		R	690
(526)	1906 08 26.31275	22 10 43.27	-11 55 50.1		P	690
(557)	1906 06 15.22289	17 58 28.79	-25 17 27.9		O	690
(569)	1959 02 01.28476	09 21 39.72	+14 56 17.1			690
(569)	1959 02 02.27897	09 20 42.88	+14 59 58.5			690

(609)	1906 08 24.43679	01 09 47.04	+05 40 10.6					690
(617)	1930 12 13.19236	03 04 05.00	+23 12 48.5				R	690
(617)	1930 12 14.20069	03 03 36.23	+23 12 48.5				f	690
(617)	1930 12 16.19444	03 02 41.77	+23 12 49.8					690
(644)	1959 02 01.28476	09 15 56.25	+16 36 09.8					690
(644)	1959 02 02.27897	09 14 58.77	+16 40 50.2					690
(658)	1906 08 24.43679	00 58 04.42	+06 30 42.5					690
(708)	1959 02 01.28476	08 58 36.66	+21 19 03.8				E	690
(708)	1959 02 02.27897	08 57 37.15	+21 21 58.3				E	690
(768)	1930 12 13.19236	02 47 12.56	+25 03 48.4				p	690
(768)	1930 12 14.20069	02 46 39.63	+25 06 07.0				p	690
(768)	1930 12 16.19444	02 45 40.39	+25 10 41.0				p	690
(885)	1906 08 24.43679	01 13 27.48	+05 08 08.6					690
(893)	1959 02 01.28476	09 06 57.61	+11 24 28.2					690
(893)	1959 02 02.27897	09 06 11.09	+11 31 56.1					690
(895)	1906 06 21.23745	17 30 53.41	-23 46 59.5					690
(981)	1906 08 24.43679	01 12 58.07	+05 19 50.5					690
(1066)	1930 12 16.19444	03 16 59.23	+26 49 32.5					690
(1092)	1906 07 29.36823	19 49 39.38	-22 41 28.0				R	690
(1176)	1930 12 16.19444	03 23 56.36	+23 44 50.2					690
(1216)	1906 07 29.36823	19 51 13.78	-20 42 02.8					690
(1240)	1930 12 13.19236	02 54 41.92	+32 31 37.7					690
(1240)	1930 12 14.20069	02 54 12.78	+32 25 17.1				f	690
(1240)	1930 12 16.19444	02 53 20.63	+32 12 50.7					690
(1396)	1930 12 14.20069	03 23 32.26	+25 05 18.6				R	690
(1416)	1930 12 13.19236	02 44 00.10	+30 03 29.0				f	690
(1416)	1930 12 14.20069	02 43 32.41	+29 59 37.0				E	690
(1423)	1906 06 01.41667	18 07 22.82	-25 16 36.1				U	690
(1514)	1906 08 26.31275	22 17 59.28	-11 45 22.8				P	690
(1610)	1959 02 01.28476	08 58 01.43	+20 10 51.7					690
(1821)	1906 07 29.36823	19 44 06.46	-21 09 56.9				O	690
(1862)	1930 12 13.19236	02 45 33.68	+30 58 37.7				I	690
(1862)	1930 12 14.20069	02 46 51.03	+30 51 19.6		16.0			690
(1862)	1930 12 16.19444	02 49 20.83	+30 38 11.0				f	690
(1990)	1959 02 01.28476	08 52 55.59	+12 12 52.2				E	690
(2085)	1906 07 29.36823	20 04 38.03	-20 36 55.1				R	690
(3395)	1959 02 01.28476	09 35 53.81	+19 25 21.9					690
(3395)	1959 02 02.27897	09 34 59.21	+19 28 57.7					690
(3831)	1906 08 26.31275	22 18 59.48	-10 39 17.5				V	690
(4683)	1959 02 01.28476	09 08 47.60	+15 23 13.6					690
(4683)	1959 02 02.27897	09 07 57.90	+15 27 16.3					690

691 Kitt Peak, Steward Observatory
T. Gehrels, Space Sciences Building, University of Arizona,
Tucson, AZ 85721, U.S.A.
Observers T. Gehrels, D. Rabinowitz, J. V. Scotti
0.91-m SPACEWATCH telescope
GSC

1992 AD	*	1992 01 09.37595	08 11 37.72	+19 58 21.7					691
1992 AD		1992 01 09.40108	08 11 37.27	+19 58 25.1		17.0	V		691
1992 AD		1992 01 09.42475	08 11 36.81	+19 58 28.8					691
1992 AD		1992 01 10.26864	08 11 21.57	+20 00 26.7					691
1992 AD		1992 01 10.28200	08 11 21.33	+20 00 28.5					691
1992 AD		1992 01 10.28979	08 11 21.20	+20 00 29.9		17.1	V		691
1992 AD		1992 01 13.28817	08 10 26.15	+20 07 31.2		17.1	V		691
1992 AD		1992 01 13.30324	08 10 25.87	+20 07 33.3					691
1992 AD		1992 01 13.31323	08 10 25.66	+20 07 34.5					691
1992 AD		1992 01 26.13568	08 06 24.62	+20 37 38.2		16.9	V		691
1992 AD		1992 01 26.16780	08 06 23.99	+20 37 42.5					691

1992 AD		1992 01 26.19947	08 06 23.38	+20 37 47.1				691
1992 AD		1992 02 05.14081	08 03 21.79	+21 00 23.3				691
1992 AD		1992 02 05.14709	08 03 21.69	+21 00 24.4	17.2	V		691
1992 AD		1992 02 05.15609	08 03 21.52	+21 00 25.7				691
1992 AE	*	1992 01 10.10325	02 25 43.55	+11 54 58.0				691
1992 AE		1992 01 10.12436	02 25 46.50	+11 55 24.8				691
1992 AE		1992 01 10.14564	02 25 49.22	+11 55 48.9	17.3	V		691
1992 AE		1992 01 10.15406	02 25 50.35	+11 55 59.2				691
1992 AE		1992 01 13.08691	02 32 33.29	+12 53 05.5				691
1992 AE		1992 01 13.09596	02 32 34.51	+12 53 15.3				691
1992 AE		1992 01 13.10583	02 32 35.83	+12 53 26.7	17.7	V		691
1992 AE		1992 01 13.20953	02 32 49.70	+12 55 24.7				691
1992 AE		1992 01 13.25211	02 32 55.49	+12 56 13.7				691
1992 AE		1992 01 13.26105	02 32 56.55	+12 56 22.7				691
1992 AE		1992 01 13.26724	02 32 57.41	+12 56 29.6				691
1992 AE		1992 01 13.27313	02 32 58.23	+12 56 36.4				691
1992 AE		1992 01 26.09872	03 02 23.94	+16 36 59.8	18.0	V		691
1992 AE		1992 01 26.10938	03 02 25.38	+16 37 09.2				691
1992 AE		1992 01 26.12037	03 02 26.88	+16 37 19.5				691
1992 AE		1992 02 05.08412	03 25 23.38	+18 59 00.9				691
1992 AE		1992 02 05.09264	03 25 24.51	+18 59 07.1				691
1992 AE		1992 02 05.09996	03 25 25.53	+18 59 13.2	18.3	V		691
1992 BA	*	1992 01 27.20344	08 09 22.26	+10 29 38.6	20.1	V		691
1992 BA		1992 01 27.25640	08 09 16.85	+10 31 04.0				691
1992 BA		1992 01 28.17060	08 07 50.78	+10 55 33.2	19.5	V		691
1992 BA		1992 01 28.19483	08 07 48.35	+10 56 14.0				691
1992 BA		1992 01 28.21894	08 07 45.89	+10 56 53.5				691
1992 BA		1992 01 28.40077	08 07 27.41	+11 01 46.9				691
1992 BA		1992 01 28.41223	08 07 26.34	+11 02 06.4	20.0	V		691
1992 BA		1992 01 28.42292	08 07 25.18	+11 02 22.6				691
1992 BA		1992 01 29.30796	08 06 02.43	+11 26 23.8				691
1992 BA		1992 01 29.31823	08 06 01.37	+11 26 40.9	20.1	V		691
1992 BA		1992 01 29.32654	08 06 00.49	+11 26 53.8				691
1992 BA		1992 01 30.36706	08 04 22.65	+11 55 18.5				691
1992 BA		1992 01 30.38397	08 04 20.99	+11 55 46.3	20.1	V		691
1992 BA		1992 02 05.11963	07 55 49.35	+14 34 07.8	20.5	V		691
1992 BA		1992 02 05.13024	07 55 48.41	+14 34 24.9	20.2	V		691
1992 BD	*	1992 01 29.09493	03 13 11.27	+22 12 57.5	18.6	V		691
1992 BD		1992 01 29.11653	03 13 12.09	+22 13 21.5				691
1992 BD		1992 01 29.13800	03 13 12.99	+22 13 45.1				691
1992 BD		1992 01 30.09136	03 13 55.16	+22 31 24.0				691
1992 BD		1992 01 30.10099	03 13 55.57	+22 31 35.0	19.0	V		691
1992 BD		1992 01 30.11036	03 13 55.94	+22 31 44.9				691
1992 BD		1992 01 31.08885	03 14 41.29	+22 49 43.1	18.4	V		691
1992 BD		1992 01 31.11381	03 14 42.42	+22 50 10.1				691
1992 BD		1992 01 31.13274	03 14 43.27	+22 50 30.9				691
1992 BE	*	1992 01 29.16800	07 59 20.94	+24 24 49.9	19.9	V		691
1992 BE		1992 01 29.19192	07 59 20.11	+24 24 52.4				691
1992 BE		1992 01 29.21572	07 59 19.35	+24 24 53.6				691
1992 BE		1992 01 30.20510	07 58 46.95	+24 26 07.5	20.2	V		691
1992 BE		1992 01 30.23128	07 58 46.11	+24 26 09.0				691
1992 BE		1992 01 30.25804	07 58 45.23	+24 26 11.7				691
(2060)		1992 01 26.24775	08 28 30.21	+11 12 34.4				691
(2060)		1992 01 26.27206	08 28 29.79	+11 12 35.8				691
(2060)		1992 01 26.30761	08 28 29.14	+11 12 37.7				691

760 Goethe Link

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road,
Flagstaff, AZ 86001, U.S.A.

Observers H. S. Charlip, A. M. Heiser, Y. Terzian, F. R. West
Measurers C. M. Olmstead, B. A. Skiff
0.25-m refractor
PDS scanning microdensitometer
AGK3 and Perth 70 secondary nets, global solutions

1955 EG	1955 03 14.17838	09 56 09.12	+13 08 03.8			D	760
1955 EG	1955 03 14.21692	09 56 07.71	+13 08 13.1				760
1955 EG	1955 03 23.16664	09 51 16.84	+13 31 54.7				760
1955 EK	1955 03 14.21692	09 51 45.73	+13 40 09.4			D	760
1955 FP	1955 03 23.13054	09 34 09.88	+15 24 21.6				760
1955 FP	1955 03 23.16664	09 34 08.75	+15 24 36.3				760
1955 FQ	1955 03 23.13054	09 41 56.65	+12 06 22.2				760
1962 PG	1962 08 03.13290	19 24 15.90	-26 11 49.6			t	760
1962 PG	1962 08 03.17630	19 24 11.27	-26 10 58.1				760
1963 SG	1963 09 19.09028	22 46 22.18	-17 49 50.8			G	760
1963 SG	1963 09 19.13542	22 46 20.33	-17 50 06.0			G	760
1963 TP	1963 10 14.15003	23 48 21.28	+03 39 44.8				760
1963 TQ	1963 10 14.15003	23 48 30.11	-00 53 10.2				760
1983 WJ	1962 08 03.13290	19 32 24.45	-23 23 42.7				760
1984 HP1	1962 08 03.13290	19 19 35.17	-25 06 19.3			I	760
1989 AZ1	1962 08 03.13290	19 15 45.71	-23 38 06.5			I	760
1989 AZ1	1962 08 03.17630	19 15 43.48	-23 38 25.4			P	760
(97)	1955 03 14.17838	09 42 29.10	+11 53 18.2	11.0			760
(97)	1955 03 14.21692	09 42 27.99	+11 53 37.2				760
(97)	1955 03 23.13054	09 39 27.61	+12 58 29.9	11.4			760
(97)	1955 03 23.16664	09 39 27.03	+12 58 42.3				760
(105)	1963 10 14.15003	23 28 20.39	+00 11 14.1				760
(121)	1963 09 19.09028	22 26 57.10	-21 21 44.4	12.3		G	760
(121)	1963 09 19.13542	22 26 55.36	-21 21 50.1			G	760
(135)	1962 08 03.13290	19 16 24.66	-25 33 50.5				760
(135)	1962 08 03.17630	19 16 22.77	-25 33 48.3				760
(208)	1955 03 14.17838	09 45 23.88	+14 57 44.3	14.0			760
(208)	1955 03 14.21692	09 45 22.38	+14 57 49.8				760
(208)	1955 03 23.13054	09 40 55.53	+15 13 03.0	14.2			760
(208)	1955 03 23.16664	09 40 54.63	+15 13 04.4				760
(211)	1955 03 23.13054	09 38 06.89	+08 37 04.2	13.0			760
(211)	1955 03 23.16664	09 38 06.17	+08 37 11.7				760
(219)	1963 10 14.15003	23 49 34.70	+03 36 23.3				760
(294)	1955 03 14.17838	09 58 46.10	+14 51 09.0	16.0			760
(294)	1955 03 14.21692	09 58 44.65	+14 51 17.8				760
(294)	1955 03 23.13054	09 53 59.52	+15 21 26.6	16.5			760
(395)	1963 10 14.15003	23 37 37.21	+02 54 30.2				760
(417)	1963 10 14.15003	23 29 42.70	+00 01 25.2				760
(600)	1963 09 19.09028	22 26 15.26	-15 57 17.3	14.9		G	760
(600)	1963 09 19.13542	22 26 13.50	-15 57 32.3			G	760
(618)	1962 08 03.13290	19 15 06.20	-23 42 58.2				760
(618)	1962 08 03.17630	19 15 04.38	-23 43 13.3				760
(754)	1963 10 14.15003	23 48 52.80	-03 24 39.8				760
(868)	1963 09 19.09028	22 32 36.44	-16 34 25.9	14.4		G	760
(868)	1963 09 19.13542	22 32 34.49	-16 34 38.3			G	760
(1035)	1963 10 14.15003	23 49 25.39	+01 02 35.8				760
(1462)	1963 10 14.15003	23 39 35.72	-02 49 39.9				760
(1570)	1955 03 23.13054	09 38 23.44	+12 40 32.2				760
(1570)	1955 03 23.16664	09 38 22.40	+12 40 37.1				760
(1789)	1955 03 14.17838	09 51 56.64	+15 32 20.8				760
(1789)	1955 03 14.21692	09 51 54.67	+15 32 30.6				760
(1822)	1963 10 14.15003	23 38 13.87	-01 18 56.2				760
(3327)	1962 08 03.13290	19 17 10.00	-23 57 15.7				760
(3327)	1962 08 03.17630	19 17 08.17	-23 57 20.4			D	760

(3989)	1962 08 03.13290	19 14 24.75	-25 35 35.4			760
(3989)	1962 08 03.17630	19 14 22.29	-25 35 33.4			760
(4076)	1962 08 03.13290	19 06 59.41	-24 12 51.4			760
(4076)	1962 08 03.17630	19 06 57.79	-24 12 53.1		R	760
(4507)	1962 08 03.13290	19 26 53.91	-25 43 57.1		c	760
(4507)	1962 08 03.17630	19 26 51.74	-25 44 00.7			760

801 Oak Ridge
R. E. McCrosky, Harvard-Smithsonian Center for Astrophysics,
60 Garden Street, Cambridge, MA 02138, U.S.A.
Observers R. E. McCrosky, C.-Y. Shao
1.5-m reflector + CCD
GSC

1931 UD	1992 01 01.24285	07 17 29.25	+39 55 33.1			801
1931 UD	1992 01 01.25263	07 17 28.46	+39 55 32.6			801
1931 UD	1992 01 06.21887	07 10 58.76	+39 49 23.0			801
1931 UD	1992 01 06.23543	07 10 57.42	+39 49 21.1			801
1938 DM1	1992 01 01.21612	06 24 15.05	+33 16 27.9			801
1938 DM1	1992 01 01.22993	06 24 14.00	+33 16 27.9			801
1938 DM1	1992 01 08.18404	06 15 44.53	+33 12 24.2			801
1938 DM1	1992 01 08.19706	06 15 43.58	+33 12 23.3			801
1948 KF	1992 01 01.08631	03 41 26.97	+21 13 20.5			801
1948 KF	1992 01 01.11632	03 41 26.13	+21 13 21.1			801
1948 KF	1992 01 09.03179	03 38 15.07	+21 21 53.5			801
1948 KF	1992 01 09.07207	03 38 14.33	+21 21 57.1			801
1953 FK1	1992 01 02.26073	07 51 18.38	+43 23 04.3			801
1953 FK1	1992 01 02.27792	07 51 17.24	+43 23 07.6			801
1953 FK1	1992 01 08.23266	07 44 41.34	+43 38 45.6			801
1953 FK1	1992 01 08.26109	07 44 39.33	+43 38 48.8			801
1969 TL1	1992 01 02.04810	03 24 31.47	+18 12 29.2			801
1969 TL1	1992 01 02.08547	03 24 30.84	+18 12 28.9			801
1969 TL1	1992 01 08.05260	03 23 21.84	+18 12 40.7			801
1969 TL1	1992 01 08.13441	03 23 21.13	+18 12 42.3			801
1974 SD3	1988 02 19.10057	05 08 13.50	+16 58 30.7		U	801
1974 SD3	1991 07 11.11189	17 36 21.48	-17 02 53.3			801
1974 SD3	1991 07 11.13422	17 36 20.55	-17 02 51.4			801
1974 SD3	1991 07 16.09705	17 33 23.17	-16 56 15.5			801
1974 SD3	1991 07 16.15288	17 33 21.26	-16 56 12.5			801
1974 SB5	1991 11 06.28500	04 22 33.67	+21 57 02.9			801
1974 SB5	1991 11 06.30551	04 22 32.73	+21 57 01.5			801
1974 SB5	1991 11 08.25079	04 21 03.28	+21 54 48.1			801
1974 SB5	1991 11 08.26441	04 21 02.63	+21 54 47.2			801
1974 SB5	1992 01 02.05878	03 40 43.03	+20 27 13.5			801
1974 SB5	1992 01 02.10692	03 40 42.10	+20 27 11.2			801
1974 SB5	1992 01 08.09389	03 39 24.59	+20 24 17.7			801
1974 SB5	1992 01 08.17015	03 39 23.81	+20 24 16.2			801
1975 DB	1992 01 06.34269	09 19 33.87	+04 22 10.7			801
1975 DB	1992 01 06.35884	09 19 33.38	+04 22 03.9			801
1975 DB	1992 01 07.32759	09 19 04.85	+04 15 19.5			801
1975 DB	1992 01 07.34884	09 19 04.16	+04 15 10.7			801
1976 GM7	1992 01 09.04757	05 16 24.35	+08 00 18.9			801
1976 GM7	1992 01 09.06914	05 16 23.55	+08 00 21.9			801
1976 WC1	1992 01 08.27081	08 44 58.42	+30 53 33.3			801
1976 WC1	1992 01 08.29211	08 44 57.20	+30 53 45.7			801
1976 YY	1992 01 08.04705	03 05 59.84	+20 26 33.1			801
1976 YY	1992 01 08.07971	03 06 00.56	+20 26 36.3			801
1978 LG	1992 01 02.06337	03 50 43.72	+26 35 05.4			801
1978 LG	1992 01 02.09358	03 50 43.00	+26 34 55.7			801
1978 LG	1992 01 06.04970	03 49 27.59	+26 14 30.7			801

1978	LG	1992 01 06.07334	03 49 27.15	+26 14 24.0			801
1978	PT4	1991 10 10.27552	02 31 01.10	-14 56 43.0			801
1978	PT4	1991 10 10.29019	02 31 00.46	-14 56 49.6			801
1978	PT4	1992 01 06.01274	02 04 00.03	-06 10 53.4			801
1978	PT4	1992 01 06.02617	02 04 00.58	-06 10 41.7			801
1978	VR4	1992 01 02.05488	03 42 46.79	+16 07 04.5			801
1978	VR4	1992 01 02.11014	03 42 46.16	+16 06 59.5			801
1978	VR4	1992 01 09.03446	03 42 40.47	+16 00 29.1			801
1978	VR4	1992 01 09.09611	03 42 40.75	+16 00 28.1			801
1979	SD9	1992 01 07.17319	05 58 21.77	+26 38 57.4			801
1979	SD9	1992 01 07.19691	05 58 20.60	+26 38 56.4			801
1979	SP13	1992 01 06.20953	06 53 55.76	+23 50 03.8			801
1979	SP13	1992 01 06.22775	06 53 54.53	+23 50 08.0			801
1979	SP13	1992 01 08.21446	06 51 46.22	+23 57 46.0			801
1979	SP13	1992 01 08.22689	06 51 45.39	+23 57 49.1			801
1980	FY	1992 01 01.09966	03 32 43.55	+21 58 35.4			801
1980	FY	1992 01 08.09078	03 31 32.34	+21 44 40.3			801
1980	FY	1992 01 08.17300	03 31 31.96	+21 44 32.0			801
1980	UC	1991 12 31.96600	00 51 46.77	+02 27 01.8			801
1980	UC	1991 12 31.98441	00 51 47.69	+02 27 09.3			801
1980	UC	1992 01 07.99086	00 58 12.68	+03 15 50.9			801
1980	UC	1992 01 08.00536	00 58 13.51	+03 15 56.8			801
1981	EY17	1992 01 01.23343	06 34 43.85	+19 19 54.1			801
1981	EY17	1992 01 01.24863	06 34 42.86	+19 19 55.0			801
1981	EY17	1992 01 08.18964	06 27 37.14	+19 31 22.3			801
1981	EY17	1992 01 08.20490	06 27 36.21	+19 31 23.8			801
1981	EF26	1992 01 06.33324	09 04 47.98	+08 47 08.7			801
1981	EF26	1992 01 06.35672	09 04 47.23	+08 47 11.7			801
1981	EO42	1992 01 08.02687	02 26 45.90	+21 15 34.1			801
1981	EO42	1992 01 08.04976	02 26 46.72	+21 15 36.0			801
1981	EO42	1992 01 09.02883	02 27 24.75	+21 17 13.8			801
1981	EO42	1992 01 09.05039	02 27 25.57	+21 17 15.8			801
1981	TJ4	1992 01 01.96454	23 53 30.30	-02 52 29.2			801
1981	TJ4	1992 01 01.97644	23 53 30.95	-02 52 22.4			801
1981	TJ4	1992 01 05.95392	23 57 28.18	-02 13 57.8			801
1981	TJ4	1992 01 05.96674	23 57 28.96	-02 13 50.7			801
1981	WA1	1992 01 02.06616	03 55 15.25	+16 54 45.1			801
1981	WA1	1992 01 02.10397	03 55 14.36	+16 54 45.8			801
1982	BQ4	1992 01 09.07851	05 29 30.95	+24 55 34.3			801
1982	BQ4	1992 01 09.09872	05 29 30.01	+24 55 36.8			801
1982	DU	1992 01 02.34917	10 19 32.86	+26 57 15.1			801
1982	DU	1992 01 02.41215	10 19 31.96	+26 57 11.5			801
1982	DU	1992 01 07.34079	10 18 03.92	+26 53 16.6			801
1982	DU	1992 01 07.37105	10 18 03.12	+26 53 14.1			801
1982	FA	1992 01 07.14432	05 44 31.52	+24 13 04.9			801
1982	FA	1992 01 07.15566	05 44 30.77	+24 13 05.2			801
1982	FJ	1992 01 06.06647	04 11 11.04	+42 40 46.4			801
1982	FJ	1992 01 06.08764	04 11 10.22	+42 40 41.0			801
1982	FJ	1992 01 08.09753	04 10 06.25	+42 30 40.7			801
1982	FJ	1992 01 08.12023	04 10 05.52	+42 30 33.7			801
1982	WE	1992 01 01.36520	10 40 57.69	+29 51 03.7			801
1982	WE	1992 01 01.38968	10 40 57.96	+29 51 15.8			801
1982	WE	1992 01 06.38943	10 41 36.46	+30 33 00.2			801
1982	WE	1992 01 06.41175	10 41 36.47	+30 33 11.7			801
1983	RC5	1992 01 02.38657	11 10 37.46	+05 32 57.2			801
1983	RC5	1992 01 02.41623	11 10 37.93	+05 32 47.5			801
1983	RC5	1992 01 07.37958	11 11 42.02	+05 08 25.1			801
1983	RC5	1992 01 07.40904	11 11 42.22	+05 08 17.1			801
1984	DE	1992 01 02.04399	03 03 42.20	+26 57 22.6			801

1984 DE	1992 01 02.08168	03 03 42.22	+26 57 12.4			801
1984 DE	1992 01 08.04454	03 04 35.25	+26 33 23.3			801
1984 DE	1992 01 08.08230	03 04 35.74	+26 33 14.9			801
1984 DX	1992 01 07.14051	05 40 07.40	+17 40 09.2			801
1984 DX	1992 01 07.16265	05 40 06.46	+17 40 13.6			801
1984 DX	1992 01 09.08928	05 38 52.11	+17 46 20.5			801
1984 DX	1992 01 09.10700	05 38 51.47	+17 46 22.7			801
1984 FS	1992 01 09.08177	05 32 20.84	+05 15 14.1			801
1984 FS	1992 01 09.10099	05 32 19.96	+05 15 22.3			801
1984 QJ	1992 01 08.19164	06 36 33.94	+21 39 42.5			801
1984 QJ	1992 01 08.21057	06 36 32.91	+21 39 44.3			801
1984 UT3	1992 01 02.12193	04 45 41.67	+31 23 32.9			801
1984 UT3	1992 01 02.13938	04 45 40.88	+31 23 27.0			801
1984 UT3	1992 01 07.13476	04 42 37.15	+30 55 09.6			801
1984 UT3	1992 01 07.15330	04 42 36.63	+30 55 02.4			801
1984 WM1	1992 01 07.14868	05 50 06.57	+32 28 11.1			801
1984 WM1	1992 01 07.16666	05 50 05.42	+32 28 06.4			801
1985 DY1	1992 01 02.11611	04 39 27.27	+22 12 38.2			801
1985 DY1	1992 01 06.09208	04 36 59.28	+22 09 47.3			801
1985 DY1	1992 01 06.11995	04 36 58.26	+22 09 45.9			801
1985 FU1	1992 01 02.35319	10 31 34.76	+09 19 15.7			801
1985 FU1	1992 01 02.40303	10 31 35.39	+09 19 18.0			801
1985 FB2	1992 01 01.22442	06 30 49.96	+06 53 02.7			801
1985 FB2	1992 01 01.23640	06 30 49.19	+06 53 06.2			801
1985 FB2	1992 01 08.19330	06 23 43.80	+07 32 10.9			801
1985 FB2	1992 01 08.20661	06 23 42.84	+07 32 16.5			801
1985 GW	1992 01 06.08036	04 25 56.66	+17 33 00.7			801
1985 GW	1992 01 06.09953	04 25 56.02	+17 33 05.1			801
1985 GW	1992 01 09.03936	04 24 30.37	+17 44 34.1			801
1985 GW	1992 01 09.06440	04 24 29.65	+17 44 40.2			801
1985 RS	1992 01 01.34752	10 03 53.07	+25 53 54.5			801
1985 RS	1992 01 01.37704	10 03 52.61	+25 53 58.2			801
1985 RS	1992 01 06.36880	10 02 17.66	+26 09 46.0			801
1985 RS	1992 01 06.39681	10 02 16.96	+26 09 51.6			801
1985 RV4	1992 01 09.02600	02 21 27.73	+14 22 41.4			801
1985 RV4	1992 01 09.05346	02 21 28.46	+14 22 44.8			801
1985 UB5	1992 01 01.30317	08 34 59.03	+03 11 38.7			801
1985 UB5	1992 01 01.32532	08 34 58.23	+03 11 39.2			801
1985 UB5	1992 01 07.29249	08 30 56.89	+03 13 28.8			801
1985 UB5	1992 01 07.30975	08 30 56.13	+03 13 29.5			801
1985 VD	1992 01 01.17830	05 24 09.16	+17 57 12.6			801
1985 VD	1992 01 01.19302	05 24 08.56	+17 57 13.6			801
1985 VD	1992 01 06.16421	05 20 31.74	+18 03 00.0			801
1985 VD	1992 01 06.18074	05 20 31.04	+18 03 01.6			801
1985 VD1	1992 01 02.14215	05 10 11.51	+30 32 14.8			801
1985 VD1	1992 01 02.16315	05 10 10.48	+30 32 13.0			801
1985 VD1	1992 01 08.11067	05 05 57.08	+30 21 15.1			801
1985 VD1	1992 01 08.13787	05 05 55.99	+30 21 13.0			801
1986 RU5	1992 01 02.07236	04 25 49.60	+03 38 43.5			801
1986 RU5	1992 01 02.09885	04 25 48.65	+03 38 44.3			801
1986 RU5	1992 01 06.07598	04 23 40.86	+03 42 21.7			801
1986 RU5	1992 01 06.09723	04 23 40.21	+03 42 23.5			801
1986 RH12	1992 01 07.33633	09 27 59.67	-05 15 22.1			801
1986 RH12	1992 01 07.35144	09 27 59.13	-05 15 22.8			801
1986 RF13	1992 01 01.97056	00 01 10.73	-03 10 45.7			801
1986 RF13	1992 01 01.98191	00 01 11.46	-03 10 41.4			801
1986 TM1	1992 01 07.34522	10 34 02.01	-07 58 17.0			801
1986 TM1	1992 01 07.37479	10 34 01.76	-07 58 25.2			801
1986 TU6	1992 01 08.00872	01 36 55.68	+19 26 21.9			801

1986	TU6	1992	01	08.03024	01	36	56.30	+19	26	20.8	801
1986	TU6	1992	01	08.97598	01	37	27.87	+19	25	34.7	801
1986	TU6	1992	01	09.00020	01	37	28.65	+19	25	33.9	801
1986	TB12	1992	01	02.20988	06	27	32.60	+28	54	54.8	801
1986	TB12	1992	01	02.22850	06	27	31.38	+28	54	53.6	801
1986	TB12	1992	01	08.18624	06	21	29.21	+28	47	15.1	801
1986	TB12	1992	01	08.20124	06	21	28.30	+28	47	13.5	801
1986	UV	1992	01	07.14233	05	40	50.48	+30	02	23.3	801
1986	UV	1992	01	07.16054	05	40	49.51	+30	02	21.1	801
1987	DJ	1992	01	06.36560	09	38	02.48	+25	21	18.4	801
1987	DJ	1992	01	06.38161	09	38	02.00	+25	21	24.7	801
1987	DC6	1992	01	08.19546	06	47	38.93	+14	08	45.3	801
1987	DC6	1992	01	08.21255	06	47	38.03	+14	08	48.2	801
1987	DE6	1992	01	01.25586	07	24	25.28	+26	02	30.7	801
1987	DE6	1992	01	01.27495	07	24	24.27	+26	02	31.4	801
1987	DE6	1992	01	06.22576	07	19	42.53	+26	04	24.9	801
1987	DE6	1992	01	06.24105	07	19	41.63	+26	04	25.2	801
1987	DS6	1992	01	02.25047	07	37	06.52	+08	48	37.7	801
1987	DS6	1992	01	02.26700	07	37	05.74	+08	48	39.3	801
1987	DS6	1992	01	07.22571	07	33	08.57	+08	59	01.2	801
1987	DS6	1992	01	07.25358	07	33	07.17	+08	59	05.0	801
1987	SV	1992	01	02.02782	02	59	42.61	+22	28	31.4	801
1987	SV	1992	01	02.07885	02	59	43.13	+22	28	24.5	801
1987	SV	1992	01	08.03756	03	01	32.46	+22	17	29.9	801
1987	SV	1992	01	08.07701	03	01	33.34	+22	17	26.4	801
1987	SW1	1992	01	07.18117	06	07	01.27	+06	58	27.1	801
1987	SW1	1992	01	07.20193	06	07	00.14	+06	58	26.8	801
1987	SE4	1992	01	08.10035	04	12	14.96	+19	00	50.1	801
1987	SE4	1992	01	08.16090	04	12	13.89	+19	00	41.0	801
1987	UX1	1992	01	02.28793	08	45	33.22	+12	23	45.6	801
1987	UX1	1992	01	02.30483	08	45	32.32	+12	23	46.0	801
1987	UX1	1992	01	07.29941	08	41	07.42	+12	26	49.1	801
1987	UX1	1992	01	07.31770	08	41	06.35	+12	26	50.3	801
1987	UQ3	1992	01	02.20622	06	14	53.20	+26	01	44.7	801
1987	UQ3	1992	01	02.22552	06	14	51.82	+26	01	48.0	801
1987	UQ3	1992	01	07.18383	06	09	16.19	+26	15	01.6	801
1987	UQ3	1992	01	07.20432	06	09	14.82	+26	15	04.6	801
1987	WF	1992	01	02.36788	11	13	00.64	+16	28	03.4	801
1987	WF	1992	01	02.39613	11	13	01.46	+16	28	05.5	801
1987	WF	1992	01	06.40813	11	14	48.77	+16	34	24.9	801
1987	WF	1992	01	06.43977	11	14	49.44	+16	34	28.4	801
1988	AF	1992	01	01.23953	06	34	21.64	+29	54	29.8	801
1988	AF	1992	01	01.25069	06	34	20.75	+29	54	25.2	801
1988	AF	1992	01	08.18795	06	26	22.67	+29	08	41.1	801
1988	AF	1992	01	08.19929	06	26	21.90	+29	08	36.4	801
1988	AF1	1992	01	02.05193	03	31	38.11	+21	47	27.9	801
1988	AF1	1992	01	02.09029	03	31	38.53	+21	47	34.4	I 801
1988	AF1	1992	01	08.08616	03	33	48.83	+22	03	10.0	801
1988	AF1	1992	01	08.11775	03	33	49.69	+22	03	15.3	801
1988	BB	1991	12	31.95237	00	35	40.43	+12	19	14.2	r 801
1988	BB	1992	01	05.96350	00	40	00.11	+12	32	04.0	801
1988	BB	1992	01	05.97819	00	40	00.89	+12	32	06.6	801
1988	BY3	1992	01	02.31304	09	14	08.53	+08	10	27.8	801
1988	BY3	1992	01	02.34329	09	14	07.78	+08	10	31.2	801
1988	CV3	1992	01	07.23022	07	33	15.02	+01	41	35.1	801
1988	CV3	1992	01	07.27006	07	33	12.93	+01	41	39.4	801
1988	CV3	1992	01	08.22300	07	32	22.40	+01	43	43.7	801
1988	CV3	1992	01	08.25462	07	32	20.66	+01	43	46.9	801
1988	CN4	1992	01	02.33829	09	32	40.92	+05	11	16.9	801

1988	CN4	1992	01	02.37300	09	32	40.37	+05	11	12.3	801
1988	CN4	1992	01	07.33300	09	31	07.81	+05	02	11.4	801
1988	CN4	1992	01	07.36069	09	31	07.09	+05	02	09.1	801
1988	CF5	1992	01	01.26483	08	00	41.81	+06	49	29.9	801
1988	CF5	1992	01	01.28183	08	00	40.75	+06	49	29.5	801
1988	CF5	1992	01	06.29713	07	56	05.12	+07	00	31.9	801
1988	CF5	1992	01	06.31800	07	56	03.90	+07	00	35.3	801
1988	ED	1992	01	02.31056	09	02	03.48	+31	32	34.5	801
1988	ED	1992	01	02.33148	09	02	02.47	+31	32	36.2	801
1988	ED	1992	01	08.30735	08	56	47.98	+31	40	32.3	801
1988	ED	1992	01	08.32887	08	56	46.69	+31	40	33.7	801
1988	EM1	1992	01	01.30510	08	39	43.57	+00	45	58.3	801
1988	EM1	1992	01	01.32743	08	39	42.98	+00	45	59.0	801
1988	EM1	1992	01	07.29593	08	36	35.13	+00	52	50.1	801
1988	EM1	1992	01	07.32042	08	36	34.20	+00	52	52.7	801
1988	GH	1992	01	01.13328	04	27	48.09	+33	24	16.8	801
1988	GH	1992	01	06.07833	04	24	37.51	+33	13	13.3	801
1988	GH	1992	01	06.11554	04	24	36.16	+33	13	07.9	801
1988	HF	1992	01	02.42883	12	26	38.36	-03	58	00.8	801
1988	HF	1992	01	02.44052	12	26	39.10	-03	58	04.0	801
1988	HF	1992	01	07.40288	12	32	06.22	-04	18	07.6	801
1988	HF	1992	01	07.41715	12	32	07.09	-04	18	10.8	801
1988	RO	1992	01	07.21374	07	06	37.52	+03	45	53.0	801
1988	RO	1992	01	07.23491	07	06	36.84	+03	45	53.5	801
1988	RA1	1992	01	06.21605	06	57	23.17	+33	57	52.1	801
1988	RA1	1992	01	06.23845	06	57	22.30	+33	57	50.8	801
1988	TZ1	1992	01	02.24700	07	26	14.95	+26	28	26.6	801
1988	TZ1	1992	01	02.27194	07	26	14.03	+26	28	25.4	801
1988	TZ1	1992	01	06.23222	07	23	48.00	+26	25	20.9	801
1988	TZ1	1992	01	06.28162	07	23	46.15	+26	25	18.4	801
1988	TA3	1992	01	02.17231	05	25	27.28	+10	54	02.3	801
1988	TA3	1992	01	02.19487	05	25	26.67	+10	54	03.4	801
1988	TA3	1992	01	08.11332	05	22	47.59	+10	58	52.3	W 801
1988	TA3	1992	01	08.15791	05	22	46.37	+10	58	53.8	W 801
1988	VS4	1992	01	02.07529	04	28	42.00	+06	51	46.5	801
1988	VS4	1992	01	02.09660	04	28	41.12	+06	51	38.9	801
1988	VS4	1992	01	09.04178	04	25	05.35	+06	16	37.1	801
1988	VS4	1992	01	09.06674	04	25	04.72	+06	16	30.9	801
1989	CH1	1991	10	05.26484	02	12	09.02	-12	13	29.6	801
1989	CH1	1991	10	05.27981	02	12	08.38	-12	13	37.2	801
1989	CH1	1992	01	01.02506	01	36	16.37	-09	27	05.5	801
1989	CH1	1992	01	08.01179	01	40	04.56	-08	15	16.9	801
1989	CH1	1992	01	08.02394	01	40	05.00	-08	15	08.8	801
1989	CJ5	1991	12	31.96248	00	48	19.00	+07	11	57.3	801
1989	CJ5	1991	12	31.97572	00	48	20.15	+07	12	04.4	801
1989	CJ5	1992	01	07.98750	00	59	34.34	+08	17	49.5	801
1989	CJ5	1992	01	07.99851	00	59	35.43	+08	17	56.3	801
1989	EO1	1992	01	01.11098	03	53	01.69	+30	01	37.3	801
1989	EO1	1992	01	01.13854	03	53	00.83	+30	01	28.7	801
1989	EO1	1992	01	06.05884	03	51	04.28	+29	36	29.2	801
1989	EO1	1992	01	06.08497	03	51	03.65	+29	36	20.5	801
1989	GF	1992	01	02.20260	06	10	06.80	+26	20	34.5	801
1989	GF	1992	01	02.22334	06	10	05.38	+26	20	35.6	801
1989	GF	1992	01	07.17602	06	04	40.58	+26	35	14.4	801
1989	GF	1992	01	07.19334	06	04	39.46	+26	35	17.4	801
1989	GO	1992	01	02.14491	05	14	20.77	+25	02	42.1	801
1989	GO	1992	01	02.15833	05	14	19.94	+25	02	41.9	801
1989	GO	1992	01	06.15472	05	10	37.93	+25	02	27.5	801
1989	GO	1992	01	06.17176	05	10	37.01	+25	02	27.3	801

1989	LJ	1992	01	02.13466	04	53	16.83	+20	04	50.9	801
1989	LJ	1992	01	02.15002	04	53	16.02	+20	04	54.4	801
1989	LJ	1992	01	07.13668	04	49	14.60	+20	24	03.4	801
1989	LJ	1992	01	07.15079	04	49	13.95	+20	24	06.6	801
1989	RS	1992	01	02.29354	09	10	23.89	+01	15	53.7	801
1989	RS	1992	01	02.32089	09	10	23.11	+01	15	54.9	801
1989	SC7	1992	01	02.11878	04	42	44.08	+17	27	30.8	801
1989	SC7	1992	01	02.14718	04	42	43.34	+17	27	27.8	801
1989	SC7	1992	01	06.09468	04	41	07.44	+17	20	30.7	801
1989	SC7	1992	01	06.12354	04	41	06.76	+17	20	27.8	801
1989	TO11	1992	01	02.12630	04	52	01.22	+08	21	37.7	801
1989	TO11	1992	01	02.15564	04	52	00.47	+08	21	37.7	801
1989	TO11	1992	01	06.14383	04	50	23.36	+08	22	09.0	801
1989	TO11	1992	01	06.17799	04	50	22.54	+08	22	10.0	801
1990	BG	1992	01	01.39925	13	50	13.65	+19	16	56.7	801
1990	BG	1992	01	01.40083	13	50	14.19	+19	16	57.6	801
1990	BG	1992	01	02.45440	13	57	17.61	+19	24	00.1	801
1990	BG	1992	01	02.45608	13	57	18.26	+19	24	01.0	801
1990	BG	1992	01	06.46047	14	25	16.47	+19	44	35.2	801
1990	BG	1992	01	06.46198	14	25	17.13	+19	44	35.7	801
1990	HC1	1992	01	01.00981	01	50	59.42	-13	07	47.8	801
1990	HC1	1992	01	01.02819	01	51	00.04	-13	07	39.8	801
1990	MA	1992	01	02.18051	06	07	13.78	+43	40	52.7	801
1990	MA	1992	01	02.18449	06	07	13.16	+43	40	56.7	801
1990	MA	1992	01	06.19002	05	58	10.14	+44	42	47.5	801
1990	MA	1992	01	06.20101	05	58	08.63	+44	42	56.9	801
1990	OB	1992	01	06.30705	08	15	08.17	-07	08	51.5	801
1990	OB	1992	01	06.32334	08	15	07.34	-07	08	50.8	801
1990	OB	1992	01	07.28285	08	14	19.81	-07	08	11.7	801
1990	OB	1992	01	07.30522	08	14	18.66	-07	08	10.3	801
1990	OE	1992	01	01.26194	07	47	06.64	+03	13	48.7	801
1990	OE	1992	01	01.27973	07	47	05.62	+03	13	48.6	801
1990	OE	1992	01	06.24713	07	42	20.18	+03	07	43.3	801
1990	OE	1992	01	06.27391	07	42	18.57	+03	07	42.6	801
1990	OX	1992	01	05.99601	02	17	21.11	+09	16	20.6	801
1990	OX	1992	01	06.03778	02	17	21.68	+09	16	23.3	801
1990	OX	1992	01	08.02108	02	17	54.40	+09	19	01.2	801
1990	OX	1992	01	08.07478	02	17	54.94	+09	19	06.1	801
1990	OA1	1992	01	01.14475	04	32	35.11	+23	43	21.4	801
1990	OA1	1992	01	01.16873	04	32	34.05	+23	43	12.5	801
1990	OA1	1992	01	06.08245	04	29	26.58	+23	13	20.8	801
1990	OA1	1992	01	06.11343	04	29	25.49	+23	13	09.6	801
1990	OD4	1992	01	01.16293	05	03	47.16	+06	31	12.6	801
1990	OD4	1992	01	01.18262	05	03	46.29	+06	31	13.8	801
1990	OD4	1992	01	07.13872	04	59	53.48	+06	40	05.2	801
1990	OD4	1992	01	07.16443	04	59	52.55	+06	40	08.2	801
1990	PA	1992	01	08.35019	10	55	25.89	+20	48	37.0	801
1990	PA	1992	01	08.37289	10	55	25.61	+20	48	46.2	801
1990	QQ1	1992	01	01.29420	08	32	18.94	+38	01	53.7	801
1990	QQ1	1992	01	01.31206	08	32	17.88	+38	01	55.3	801
1990	QQ1	1992	01	08.26698	08	25	14.23	+38	06	32.0	I 801
1990	QQ1	1992	01	08.28722	08	25	12.91	+38	06	32.1	801
1990	QA2	1992	01	02.25637	07	56	03.11	+22	05	01.5	801
1990	QA2	1992	01	02.27470	07	56	02.06	+22	05	03.7	801
1990	SM2	1992	01	02.25309	07	38	02.72	+25	18	13.7	801
1990	SM2	1992	01	02.26897	07	38	01.83	+25	18	18.2	801
1990	SM2	1992	01	06.24447	07	34	16.38	+25	37	18.1	801
1990	SM2	1992	01	06.27160	07	34	14.77	+25	37	25.8	801
1990	SW3	1992	01	01.33481	09	05	04.50	+25	10	54.5	801

1990 SW3	1992 01 01.35124	09 05 03.89	+25 11 01.8			801
1990 SW3	1992 01 06.32814	09 01 52.43	+25 46 44.4			801
1990 SW3	1992 01 06.35355	09 01 51.34	+25 46 55.3			801
1990 SN4	1992 01 06.42262	12 30 20.34	+00 28 09.0			801
1990 SN4	1992 01 06.44384	12 30 21.03	+00 28 01.1			801
1990 TL4	1992 01 06.28574	07 55 04.88	+17 36 15.9			801
1990 TL4	1992 01 06.30142	07 55 04.00	+17 36 16.4			801
1990 TL4	1992 01 07.27728	07 54 09.79	+17 36 39.4			801
1990 TL4	1992 01 07.28935	07 54 09.10	+17 36 39.1			801
1990 UG2	1992 01 01.34485	09 56 30.35	+18 34 07.4			801
1990 UG2	1992 01 01.38378	09 56 29.78	+18 34 20.0			801
1990 UG2	1992 01 08.34253	09 54 21.12	+19 16 46.8			801
1990 UG2	1992 01 08.36737	09 54 20.50	+19 16 56.2			801
1990 UR2	1992 01 02.42498	11 46 01.62	-06 30 00.9			801
1990 UR2	1992 01 02.44525	11 46 02.05	-06 30 11.8			801
1990 VU1	1992 01 07.14642	05 54 29.67	+33 40 19.1			801
1990 VU1	1992 01 07.16863	05 54 28.82	+33 40 21.1			801
1990 VD2	1992 01 06.41941	11 48 53.18	+00 35 07.0			801
1990 VD2	1992 01 06.44796	11 48 53.81	+00 35 03.1			801
1990 VD2	1992 01 07.39297	11 49 14.94	+00 32 45.2			801
1990 VD2	1992 01 07.42593	11 49 15.66	+00 32 41.1			801
1990 VP2	1992 01 08.36300	11 15 02.99	+25 59 50.0			801
1990 VP2	1992 01 08.40495	11 15 02.99	+26 00 04.2			801
1990 VA7	1992 01 02.36319	10 58 25.87	+35 33 59.4			801
1990 VA7	1992 01 02.39206	10 58 26.09	+35 34 12.1			801
1990 VA7	1992 01 06.39275	10 58 47.60	+36 04 34.6			801
1990 VA7	1992 01 06.41502	10 58 47.61	+36 04 44.9			801
1990 WL	1992 01 02.33406	09 23 01.32	+12 27 47.3			801
1990 WL	1992 01 02.35669	09 23 00.72	+12 27 51.8			801
1990 WL	1992 01 06.35098	09 21 12.80	+12 44 23.7			801
1990 WL	1992 01 06.37234	09 21 12.12	+12 44 29.3			801
1990 XH	1992 01 02.34119	09 43 08.41	+05 41 41.9			801
1990 XH	1992 01 02.37100	09 43 07.83	+05 41 45.5			801
1991 BB	1992 01 08.95710	00 09 50.93	+48 38 08.8			801
1991 BB	1992 01 08.96424	00 09 52.64	+48 38 00.6			801
1991 PH11	1992 01 01.96714	23 44 45.17	+02 29 31.9			801
1991 PH11	1992 01 08.94934	23 51 43.53	+03 00 41.7			801
1991 UG1	1992 01 01.00242	01 19 07.84	-06 01 10.5			801
1991 UG1	1992 01 01.01257	01 19 08.39	-06 00 54.3			801
1991 UG1	1992 01 05.99288	01 24 10.34	-03 49 57.7			801
1991 UG1	1992 01 06.00155	01 24 10.83	-03 49 44.5			801
1991 VL	1992 01 01.95825	23 57 24.61	+12 32 31.8			801
1991 VL	1992 01 01.97934	23 57 24.95	+12 32 23.3			801
1991 VL	1992 01 05.95604	23 58 58.23	+12 07 46.9			801
1991 VL	1992 01 05.97311	23 58 58.66	+12 07 41.0			801
1991 WA	1992 01 02.01289	02 01 57.78	+22 52 37.1			801
1991 WA	1992 01 02.01953	02 01 58.02	+22 52 46.4			801
1991 XB	1992 01 01.15745	04 42 48.84	+01 31 25.0			801
1991 XB	1992 01 01.16524	04 42 49.50	+01 31 14.2			801
4577 P-L	1992 01 02.29049	08 51 25.53	+00 36 25.6			801
4577 P-L	1992 01 02.31517	08 51 24.72	+00 36 28.0			801
4577 P-L	1992 01 08.30093	08 47 54.98	+00 50 08.4			801
4577 P-L	1992 01 08.32291	08 47 54.09	+00 50 12.5			801
2160 T-2	1992 01 01.21170	06 20 54.18	+24 30 35.0			801
2160 T-2	1992 01 01.22669	06 20 53.31	+24 30 35.7			801
2160 T-2	1992 01 07.19109	06 15 38.44	+24 33 41.1			801
2160 T-2	1992 01 07.20640	06 15 37.68	+24 33 41.1			801
3099 T-2	1992 01 02.13184	04 44 10.32	+07 09 51.0			801
3099 T-2	1992 01 02.15292	04 44 09.59	+07 09 53.8			801

3099 T-2	1992 01 08.10799	04 41 15.65	+07 25 58.7			801
3099 T-2	1992 01 08.14102	04 41 14.76	+07 26 04.6			801
3102 T-2	1991 12 31.99150	01 06 14.89	+17 19 59.8			801
3102 T-2	1992 01 01.01743	01 06 15.74	+17 20 04.2			801
3102 T-2	1992 01 07.99586	01 10 53.50	+17 45 38.3			801
3102 T-2	1992 01 08.01506	01 10 54.34	+17 45 42.9			801
3137 T-2	1992 01 01.25885	07 30 23.18	+15 10 26.3			801
3137 T-2	1992 01 07.22300	07 25 27.57	+15 24 26.8			801
3137 T-2	1992 01 07.23806	07 25 26.80	+15 24 29.1			801
1017 T-3	1992 01 05.98605	01 22 45.77	+16 53 36.6			801
1017 T-3	1992 01 06.00417	01 22 46.54	+16 53 37.1			801
(243)	1992 01 01.17355	05 15 22.40	+24 31 02.3			801
(243)	1992 01 01.19042	05 15 21.54	+24 31 01.0			801
(243)	1992 01 06.15314	05 11 32.73	+24 24 27.6			801
(243)	1992 01 06.17538	05 11 31.75	+24 24 25.7			801
(944)	1992 01 01.42334	13 26 44.90	+16 59 44.4			801
(944)	1992 01 01.45251	13 26 45.53	+16 59 40.8			801

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1985 FH	1991 11 09.17361	04 16 35.80	+07 04 15.1			809
1985 FH	1991 11 09.18681	04 16 35.10	+07 04 07.6			809
1985 FH	1991 11 12.20347	04 14 00.25	+06 49 02.5		18.6	809
1985 FH	1991 11 12.21667	04 13 59.48	+06 48 57.8			809
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1990 QB4	1991 11 06.16458	04 12 46.95	+11 28 22.7		18.5	809
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1990 QB4	1991 11 09.17361	04 10 40.44	+11 18 07.3		18.6	809
1990 QB4	1991 11 09.18681	04 10 39.92	+11 18 01.6			809
1991 VR3	1991 11 06.16458	04 10 29.61	+11 00 56.5			809
1991 VR3	1991 11 06.17778	04 10 29.03	+11 00 55.8			809
1991 VR3	1991 11 06.19097	04 10 28.40	+11 00 54.4			809
1991 VR3	1991 11 09.17361	04 08 13.48	+10 58 07.2			809
1991 VR3	1991 11 09.18681	04 08 12.83	+10 58 04.2			809
1991 VR3	1991 11 12.20347	04 05 42.52	+10 56 11.1		18.0	809
1991 VR3	1991 11 12.21667	04 05 41.72	+10 56 10.7			809
1991 VR3	1991 11 12.22986	04 05 40.99	+10 56 10.2			809
1991 VW4	1991 11 02.21389	03 56 49.90	+10 19 25.1		18.3	809
1991 VW4	1991 11 02.22708	03 56 49.13	+10 19 23.6			809
1991 VW4	1991 11 02.24028	03 56 48.17	+10 19 22.0			809
1991 VW4	1991 11 06.11806	03 53 03.69	+10 13 39.1		18.5	809
1991 VW4	1991 11 06.13125	03 53 02.83	+10 13 37.7			809
1991 VW4	1991 11 06.14444	03 53 01.90	+10 13 36.6			809
1991 VW4	1991 11 09.11528	03 49 59.54	+10 09 53.3			809
1991 VW4	1991 11 09.12847	03 49 58.61	+10 09 51.8			809
1991 VW4	1991 11 09.14375	03 49 57.55	+10 09 50.6			809
1991 VW4	1991 11 12.14792	03 46 46.51	+10 06 45.9		18.5	809
1991 VW4	1991 11 12.16111	03 46 45.46	+10 06 45.4			809
1991 VW4	1991 11 12.17431	03 46 44.61	+10 06 44.5			809
1991 VA5	1991 11 02.21389	04 01 59.51	+08 03 10.5		18.3	809
1991 VA5	1991 11 02.22708	04 01 58.71	+08 03 12.3			809
1991 VA5	1991 11 02.24028	04 01 57.87	+08 03 14.0			809
1991 VA5	1991 11 06.11806	03 58 23.50	+08 11 42.9		18.2	809
1991 VA5	1991 11 06.13125	03 58 22.67	+08 11 44.5			809
1991 VA5	1991 11 06.14444	03 58 21.78	+08 11 46.7			809
1991 VA5	1991 11 09.11528	03 55 22.50	+08 19 30.1			809
1991 VA5	1991 11 09.12847	03 55 21.56	+08 19 31.2			809

1991	VA5		1991	11	09.14375	03	55	20.51	+08 19 33.1	809
1991	VA5		1991	11	12.14792	03	52	07.95	+08 28 34.8	18.3 809
1991	VA5		1991	11	12.16111	03	52	07.01	+08 28 36.7	809
1991	VA5		1991	11	12.17431	03	52	06.14	+08 28 39.1	809
1991	VR5	*	1991	11	02.21389	03	50	14.92	+11 41 27.7	19.0 809
1991	VR5		1991	11	02.22708	03	50	14.23	+11 41 24.6	809
1991	VR5		1991	11	02.24028	03	50	13.48	+11 41 21.8	809
1991	VR5		1991	11	06.11806	03	46	55.44	+11 28 57.5	19.6 809
1991	VR5		1991	11	06.13125	03	46	54.60	+11 28 55.9	809
1991	VR5		1991	11	06.14444	03	46	53.69	+11 28 52.5	809
1991	VS5	*	1991	11	02.21389	03	50	19.71	+10 50 15.4	18.5 809
1991	VS5		1991	11	02.22708	03	50	18.85	+10 50 12.1	809
1991	VS5		1991	11	02.24028	03	50	18.03	+10 50 08.8	809
1991	VS5		1991	11	06.11806	03	46	50.07	+10 35 17.9	18.5 809
1991	VS5		1991	11	06.13125	03	46	49.24	+10 35 15.7	809
1991	VS5		1991	11	06.14444	03	46	48.32	+10 35 11.5	809
1991	VS5		1991	11	09.11528	03	43	56.79	+10 24 20.7	809
1991	VS5		1991	11	09.12847	03	43	55.81	+10 24 16.2	809
1991	VS5		1991	11	09.14375	03	43	54.88	+10 24 12.9	809
1991	VS5		1991	11	12.14792	03	40	53.33	+10 13 46.7	18.7 809
1991	VS5		1991	11	12.16111	03	40	52.33	+10 13 43.8	809
1991	VS5		1991	11	12.17431	03	40	51.53	+10 13 41.6	809
1991	VT5	*	1991	11	02.21389	03	50	53.87	+09 07 40.4	19.0 809
1991	VT5		1991	11	02.22708	03	50	53.18	+09 07 36.3	809
1991	VT5		1991	11	06.11806	03	47	40.35	+08 48 45.2	19.6 809
1991	VT5		1991	11	06.13125	03	47	39.50	+08 48 39.9	809
1991	VT5		1991	11	06.14444	03	47	38.85	+08 48 35.9	809
1991	VT5		1991	11	09.11528	03	45	03.01	+08 34 53.1	809
1991	VT5		1991	11	09.12847	03	45	02.06	+08 34 46.8	809
1991	VT5		1991	11	09.14375	03	45	01.17	+08 34 43.4	809
1991	VT5		1991	11	12.14792	03	42	18.04	+08 21 31.3	19.2 809
1991	VT5		1991	11	12.16111	03	42	17.31	+08 21 27.8	809
1991	VT5		1991	11	12.17431	03	42	16.62	+08 21 24.6	809
1991	VU5	*	1991	11	02.21389	03	52	53.02	+09 20 03.6	18.2 809
1991	VU5		1991	11	02.22708	03	52	52.28	+09 19 54.2	809
1991	VU5		1991	11	02.24028	03	52	51.60	+09 19 47.2	809
1991	VU5		1991	11	06.11806	03	49	50.10	+08 43 50.4	19.2 809
1991	VU5		1991	11	06.13125	03	49	49.30	+08 43 41.9	809
1991	VU5		1991	11	06.14444	03	49	48.62	+08 43 34.4	809
1991	VU5		1991	11	09.11528	03	47	20.30	+08 16 49.0	809
1991	VU5		1991	11	09.12847	03	47	19.56	+08 16 40.4	809
1991	VU5		1991	11	09.14375	03	47	18.50	+08 16 31.0	809
1991	VU5		1991	11	12.14792	03	44	43.07	+07 50 27.2	18.6 809
1991	VU5		1991	11	12.16111	03	44	42.23	+07 50 19.0	809
1991	VU5		1991	11	12.17431	03	44	41.50	+07 50 12.8	809
1991	VV5	*	1991	11	02.21389	03	55	58.15	+10 14 29.7	18.4 809
1991	VV5		1991	11	02.22708	03	55	57.49	+10 14 28.1	809
1991	VV5		1991	11	02.24028	03	55	56.69	+10 14 27.3	809
1991	VV5		1991	11	06.11806	03	52	53.38	+10 10 16.8	18.4 809
1991	VV5		1991	11	06.13125	03	52	52.62	+10 10 16.8	809
1991	VV5		1991	11	06.14444	03	52	51.99	+10 10 15.0	809
1991	VV5		1991	11	09.11528	03	50	24.03	+10 07 27.9	809
1991	VV5		1991	11	09.12847	03	50	23.28	+10 07 26.7	809
1991	VV5		1991	11	09.14375	03	50	22.44	+10 07 25.6	809
1991	VV5		1991	11	12.14792	03	47	47.91	+10 05 04.1	18.5 809
1991	VV5		1991	11	12.16111	03	47	47.06	+10 05 02.5	809
1991	VV5		1991	11	12.17431	03	47	46.44	+10 05 02.8	809
1991	VW5	*	1991	11	02.21389	04	01	06.23	+09 38 04.3	18.6 809
1991	VW5		1991	11	02.22708	04	01	05.47	+09 38 02.4	809

1991 VW5		1991	11	02.24028	04	01	04.69	+09	38	00.6		809
1991 VW5		1991	11	06.11806	03	57	37.77	+09	29	42.9	19.0	809
1991 VW5		1991	11	06.13125	03	57	36.98	+09	29	41.5		809
1991 VW5		1991	11	06.14444	03	57	36.25	+09	29	39.7		809
1991 VW5		1991	11	09.11528	03	54	49.27	+09	23	51.7		809
1991 VW5		1991	11	09.12847	03	54	48.50	+09	23	49.2		809
1991 VW5		1991	11	09.14375	03	54	47.51	+09	23	47.9		809
1991 VW5		1991	11	12.14792	03	51	53.38	+09	18	28.0	18.7	809
1991 VW5		1991	11	12.16111	03	51	52.45	+09	18	25.8		809
1991 VW5		1991	11	12.17431	03	51	51.65	+09	18	25.3		809
1991 VX5	*	1991	11	02.21389	04	01	24.08	+11	45	21.8	19.0	809
1991 VX5		1991	11	02.22708	04	01	23.48	+11	45	21.0		809
1991 VX5		1991	11	02.24028	04	01	22.77	+11	45	20.5		809
1991 VX5		1991	11	06.11806	03	58	23.45	+11	41	49.8	18.7	809
1991 VX5		1991	11	06.13125	03	58	22.77	+11	41	48.7		809
1991 VX5		1991	11	06.14444	03	58	22.17	+11	41	48.2		809
1991 VX5		1991	11	09.11528	03	55	56.03	+11	39	22.9	18.6	809
1991 VX5		1991	11	09.12847	03	55	55.41	+11	39	22.0		809
1991 VX5		1991	11	09.14375	03	55	54.57	+11	39	21.9		809
1991 VY5	*	1991	11	02.21389	04	03	33.08	+11	54	58.6	18.7	809
1991 VY5		1991	11	02.22708	04	03	32.53	+11	54	56.9		809
1991 VY5		1991	11	02.24028	04	03	31.87	+11	54	55.0		809
1991 VY5		1991	11	06.11806	04	00	50.18	+11	46	04.1	18.6	809
1991 VY5		1991	11	06.13125	04	00	49.45	+11	46	02.1		809
1991 VY5		1991	11	06.14444	04	00	48.77	+11	46	01.1		809
1991 VY5		1991	11	09.11528	03	58	30.08	+11	39	46.7	18.6	809
1991 VY5		1991	11	09.12847	03	58	29.26	+11	39	44.1		809
1991 VY5		1991	11	09.14375	03	58	28.53	+11	39	42.9		809
1991 VZ5	*	1991	11	02.21389	04	03	42.04	+07	24	09.5	18.7	809
1991 VZ5		1991	11	02.22708	04	03	41.52	+07	24	08.3		809
1991 VZ5		1991	11	02.24028	04	03	41.00	+07	24	07.5		809
1991 VZ5		1991	11	09.11528	04	00	17.02	+07	15	48.8		809
1991 VZ5		1991	11	09.12847	04	00	16.46	+07	15	47.3		809
1991 VZ5		1991	11	09.14375	04	00	16.02	+07	15	45.6		809
1991 VZ5		1991	11	12.14792	03	58	42.06	+07	12	39.7	18.6	809
1991 VZ5		1991	11	12.16111	03	58	41.56	+07	12	38.9		809
1991 VZ5		1991	11	12.17431	03	58	41.18	+07	12	37.9		809
1991 VA6	*	1991	11	02.21389	04	04	27.83	+08	32	14.7	18.7	809
1991 VA6		1991	11	02.22708	04	04	27.13	+08	32	13.8		809
1991 VA6		1991	11	02.24028	04	04	26.42	+08	32	12.9		809
1991 VA6		1991	11	09.11528	03	59	06.95	+08	22	38.4		809
1991 VA6		1991	11	09.12847	03	59	06.24	+08	22	37.6		809
1991 VA6		1991	11	09.14375	03	59	05.33	+08	22	38.0		809
1991 VA6		1991	11	12.14792	03	56	37.19	+08	19	20.7	19.5	809
1991 VA6		1991	11	12.16111	03	56	36.40	+08	19	19.9		809
1991 VA6		1991	11	12.17431	03	56	35.74	+08	19	19.8		809
1991 VB6	*	1991	11	02.21389	04	05	30.20	+10	02	03.7	18.5	809
1991 VB6		1991	11	02.22708	04	05	29.42	+10	02	00.0		809
1991 VB6		1991	11	02.24028	04	05	28.54	+10	01	56.0		809
1991 VB6		1991	11	06.11806	04	01	44.64	+09	44	05.3	19.0	809
1991 VB6		1991	11	06.13125	04	01	43.67	+09	44	02.1		809
1991 VB6		1991	11	06.14444	04	01	42.93	+09	43	59.4		809
1991 VB6		1991	11	09.11528	03	58	40.97	+09	31	01.9		809
1991 VB6		1991	11	09.12847	03	58	40.12	+09	30	59.0		809
1991 VB6		1991	11	09.14375	03	58	39.04	+09	30	55.0		809
1991 VB6		1991	11	12.14792	03	55	28.71	+09	18	38.1	18.2	809
1991 VB6		1991	11	12.16111	03	55	27.73	+09	18	35.0		809
1991 VB6		1991	11	12.17431	03	55	26.85	+09	18	32.1		809
1991 VC6	*	1991	11	02.21389	04	05	33.42	+10	40	46.6	18.4	809

1991 VC6		1991 11 02.22708	04 05 32.63	+10 40 44.7			809
1991 VC6		1991 11 02.24028	04 05 31.83	+10 40 43.2			809
1991 VC6		1991 11 06.11806	04 02 03.19	+10 33 32.5		18.6	809
1991 VC6		1991 11 06.13125	04 02 02.43	+10 33 31.7			809
1991 VC6		1991 11 06.14444	04 02 01.60	+10 33 30.2			809
1991 VC6		1991 11 09.11528	03 59 13.12	+10 28 29.3			809
1991 VC6		1991 11 09.12847	03 59 12.38	+10 28 27.7			809
1991 VC6		1991 11 09.14375	03 59 11.42	+10 28 26.6			809
1991 VC6		1991 11 12.14792	03 56 15.34	+10 23 49.2		18.7	809
1991 VC6		1991 11 12.16111	03 56 14.39	+10 23 49.0			809
1991 VC6		1991 11 12.17431	03 56 13.66	+10 23 47.8			809
1991 VD6	*	1991 11 02.21389	04 07 51.99	+09 16 26.2		18.7	809
1991 VD6		1991 11 02.22708	04 07 51.33	+09 16 24.7			809
1991 VD6		1991 11 02.24028	04 07 50.66	+09 16 22.4			809
1991 VD6		1991 11 06.11806	04 05 03.71	+09 07 00.0		19.1	809
1991 VD6		1991 11 06.13125	04 05 02.91	+09 06 59.0			809
1991 VD6		1991 11 06.14444	04 05 02.24	+09 06 56.9			809
1991 VD6		1991 11 12.20347	04 00 11.87	+08 54 17.0		18.9	809
1991 VD6		1991 11 12.21667	04 00 11.13	+08 54 16.2			809
1991 VD6		1991 11 12.22986	04 00 10.48	+08 54 14.3			809
1991 VE6	*	1991 11 02.21389	04 07 54.77	+11 39 00.9		18.7	809
1991 VE6		1991 11 02.22708	04 07 54.17	+11 39 03.2			809
1991 VE6		1991 11 02.24028	04 07 53.55	+11 39 05.1			809
1991 VE6		1991 11 06.11806	04 05 16.02	+11 50 26.4		18.5	809
1991 VE6		1991 11 06.13125	04 05 15.32	+11 50 30.7			809
1991 VE6		1991 11 06.14444	04 05 14.78	+11 50 33.0			809
1991 VF6	*	1991 11 02.21389	04 08 43.60	+08 45 38.1		18.4	809
1991 VF6		1991 11 02.22708	04 08 42.74	+08 45 45.0			809
1991 VF6		1991 11 02.24028	04 08 41.85	+08 45 52.5			809
1991 VF6		1991 11 06.11806	04 04 44.37	+09 23 38.1		18.6	809
1991 VF6		1991 11 06.13125	04 04 43.48	+09 23 46.9			809
1991 VF6		1991 11 06.14444	04 04 42.60	+09 23 53.6			809
1991 VF6		1991 11 09.11528	04 01 23.85	+09 54 19.4			809
1991 VF6		1991 11 09.12847	04 01 22.91	+09 54 26.9			809
1991 VF6		1991 11 09.14375	04 01 21.77	+09 54 36.1			809
1991 VF6		1991 11 12.14792	03 57 49.28	+10 26 30.0		18.5	809
1991 VF6		1991 11 12.16111	03 57 48.15	+10 26 39.1			809
1991 VF6		1991 11 12.17431	03 57 47.26	+10 26 47.1			809
1991 VG6	*	1991 11 06.11806	03 58 54.08	+10 59 03.5		18.7	809
1991 VG6		1991 11 06.13125	03 58 53.33	+10 58 57.7			809
1991 VG6		1991 11 06.14444	03 58 52.74	+10 58 53.4			809
1991 VG6		1991 11 09.11528	03 56 34.53	+10 40 44.6			809
1991 VG6		1991 11 09.12847	03 56 33.84	+10 40 41.1			809
1991 VG6		1991 11 09.14375	03 56 33.11	+10 40 35.8			809
1991 VG6		1991 11 12.14792	03 54 06.45	+10 22 33.4		18.8	809
1991 VG6		1991 11 12.16111	03 54 05.72	+10 22 28.3			809
1991 VG6		1991 11 12.17431	03 54 05.02	+10 22 24.6			809
1991 VH6	*	1991 11 06.16458	04 09 22.17	+08 42 09.0			809
1991 VH6		1991 11 06.17778	04 09 21.52	+08 42 04.8			809
1991 VH6		1991 11 06.19097	04 09 20.97	+08 42 00.1			809
1991 VH6		1991 11 09.17361	04 06 50.00	+08 23 51.0			809
1991 VH6		1991 11 09.18681	04 06 49.30	+08 23 44.1			809
1991 VH6		1991 11 12.20347	04 04 07.97	+08 06 15.4		18.5	809
1991 VH6		1991 11 12.21667	04 04 07.18	+08 06 10.5			809
1991 VH6		1991 11 12.22986	04 04 06.42	+08 06 06.8			809
1991 VJ6	*	1991 11 06.16458	04 15 38.99	+09 53 38.4			809
1991 VJ6		1991 11 06.17778	04 15 38.53	+09 53 31.3			809
1991 VJ6		1991 11 06.19097	04 15 37.95	+09 53 26.9			809
1991 VJ6		1991 11 09.17361	04 13 25.67	+09 32 25.2			809

1991 VJ6		1991 11 09.18681	04 13 25.03	+09 32 16.5			809
1991 VJ6		1991 11 12.20347	04 11 02.97	+09 11 31.2		18.5	809
1991 VJ6		1991 11 12.21667	04 11 02.33	+09 11 25.7			809
1991 VJ6		1991 11 12.22986	04 11 01.60	+09 11 20.1			809
1991 VK6	*	1991 11 06.16458	04 18 01.18	+10 55 46.2		18.6	809
1991 VK6		1991 11 06.17778	04 18 00.36	+10 55 49.0			809
1991 VK6		1991 11 06.19097	04 17 59.60	+10 55 52.8			809
1991 VK6		1991 11 09.17361	04 15 00.31	+11 09 43.1		18.6	809
1991 VK6		1991 11 09.18681	04 14 59.52	+11 09 44.2			809
1991 VL6	*	1991 11 06.16458	04 23 58.64	+09 33 31.7			809
1991 VL6		1991 11 06.17778	04 23 58.11	+09 33 22.9			809
1991 VL6		1991 11 06.19097	04 23 57.51	+09 33 13.6			809
1991 VL6		1991 11 09.17361	04 21 56.80	+08 59 59.2			809
1991 VL6		1991 11 09.18681	04 21 56.21	+08 59 47.6			809
1991 VL6		1991 11 12.20347	04 19 42.56	+08 26 37.2		18.4	809
1991 VL6		1991 11 12.21667	04 19 41.95	+08 26 28.5			809
1991 VL6		1991 11 12.22986	04 19 41.23	+08 26 19.3			809
1991 VM6	*	1991 11 06.16458	04 26 10.59	+08 48 24.2			809
1991 VM6		1991 11 06.17778	04 26 09.96	+08 48 25.0			809
1991 VM6		1991 11 06.19097	04 26 09.29	+08 48 25.8			809
1991 VM6		1991 11 09.17361	04 23 37.27	+08 49 27.4			809
1991 VM6		1991 11 09.18681	04 23 36.60	+08 49 25.1			809
1991 VM6		1991 11 12.20347	04 20 52.96	+08 51 07.2		18.5	809
1991 VM6		1991 11 12.21667	04 20 52.08	+08 51 07.9			809
1991 VM6		1991 11 12.22986	04 20 51.20	+08 51 08.8			809
1991 VN6	*	1991 11 09.11528	03 46 15.61	+07 14 58.2			809
1991 VN6		1991 11 09.12847	03 46 14.57	+07 14 52.7			809
1991 VN6		1991 11 09.14375	03 46 13.64	+07 14 49.0			809
1991 VN6		1991 11 12.14792	03 43 10.84	+07 02 50.2		19.0	809
1991 VN6		1991 11 12.16111	03 43 09.82	+07 02 45.1			809
1991 VN6		1991 11 12.17431	03 43 08.97	+07 02 42.9			809
1991 VO6	*	1991 11 09.11528	03 49 17.54	+07 37 48.0			809
1991 VO6		1991 11 09.12847	03 49 16.76	+07 37 43.8			809
1991 VO6		1991 11 09.14375	03 49 15.78	+07 37 36.8			809
1991 VO6		1991 11 12.14792	03 46 33.57	+07 21 10.3		19.4	809
1991 VO6		1991 11 12.16111	03 46 32.60	+07 21 04.5			809
1991 VO6		1991 11 12.17431	03 46 31.89	+07 21 01.3			809
1991 VP6	*	1991 11 09.11528	03 49 30.82	+09 29 58.2			809
1991 VP6		1991 11 09.12847	03 49 30.04	+09 30 00.5			809
1991 VP6		1991 11 09.14375	03 49 29.32	+09 30 00.1			809
1991 VP6		1991 11 12.14792	03 46 27.77	+09 31 30.3		19.0	809
1991 VP6		1991 11 12.16111	03 46 27.00	+09 31 30.1			809
1991 VP6		1991 11 12.17431	03 46 26.29	+09 31 30.8			809
1991 VQ6	*	1991 11 09.11528	03 51 04.56	+09 45 13.2			809
1991 VQ6		1991 11 09.12847	03 51 03.75	+09 45 07.7			809
1991 VQ6		1991 11 09.14375	03 51 02.87	+09 45 03.0			809
1991 VQ6		1991 11 12.14792	03 48 58.49	+09 24 06.6		19.3	809
1991 VQ6		1991 11 12.16111	03 48 57.75	+09 24 01.5			809
1991 VQ6		1991 11 12.17431	03 48 57.06	+09 23 57.4			809
1991 VR6	*	1991 11 09.11528	03 52 42.01	+08 17 39.4			809
1991 VR6		1991 11 09.12847	03 52 41.11	+08 17 34.7			809
1991 VR6		1991 11 09.14375	03 52 40.27	+08 17 29.6			809
1991 VR6		1991 11 12.14792	03 49 55.08	+08 05 11.4		19.6	809
1991 VR6		1991 11 12.16111	03 49 54.28	+08 05 08.0			809
1991 VR6		1991 11 12.17431	03 49 53.50	+08 05 04.8			809
1991 VS6	*	1991 11 09.11528	03 58 06.25	+09 29 51.2			809
1991 VS6		1991 11 09.12847	03 58 05.03	+09 29 46.8			809
1991 VS6		1991 11 09.14375	03 58 03.95	+09 29 42.4			809
1991 VS6		1991 11 12.14792	03 54 47.63	+09 18 46.3		19.6	809

1991 VS6		1991	11	12.16111	03	54	46.65	+09	18	43.7		809
1991 VS6		1991	11	12.17431	03	54	45.88	+09	18	42.2		809
1991 VT6	*	1991	11	09.11528	03	58	41.14	+07	57	47.3		809
1991 VT6		1991	11	09.12847	03	58	40.45	+07	57	46.9		809
1991 VT6		1991	11	09.14375	03	58	39.57	+07	57	45.2		809
1991 VT6		1991	11	12.14792	03	56	09.89	+07	47	16.8	19.6	809
1991 VT6		1991	11	12.16111	03	56	09.20	+07	47	13.2		809
1991 VT6		1991	11	12.17431	03	56	08.44	+07	47	10.2		809
1991 VU6	*	1991	11	09.11528	04	01	52.54	+09	39	01.2		809
1991 VU6		1991	11	09.12847	04	01	51.77	+09	38	58.7		809
1991 VU6		1991	11	09.14375	04	01	50.97	+09	38	58.0		809
1991 VU6		1991	11	12.14792	03	59	07.26	+09	34	29.1	19.2	809
1991 VU6		1991	11	12.16111	03	59	06.46	+09	34	26.4		809
1991 VU6		1991	11	12.17431	03	59	05.69	+09	34	25.7		809
1991 VV6	*	1991	11	09.11528	04	01	54.99	+10	56	19.4		809
1991 VV6		1991	11	09.12847	04	01	54.21	+10	56	06.6		809
1991 VV6		1991	11	09.14375	04	01	53.35	+10	55	53.8		809
1991 VV6		1991	11	12.14792	03	59	03.51	+10	12	55.0	19.2	809
1991 VV6		1991	11	12.16111	03	59	02.65	+10	12	43.1		809
1991 VV6		1991	11	12.17431	03	59	01.86	+10	12	32.5		809
1991 VW6	*	1991	11	09.17361	04	08	50.81	+09	17	16.2		809
1991 VW6		1991	11	09.18681	04	08	50.19	+09	17	07.1		809
1991 VW6		1991	11	12.20347	04	06	23.99	+08	50	27.5	18.7	809
1991 VW6		1991	11	12.21667	04	06	23.21	+08	50	19.9		809
1991 VW6		1991	11	12.22986	04	06	22.54	+08	50	12.7		809
1991 VX6	*	1991	11	09.17361	04	09	26.69	+08	04	59.1		809
1991 VX6		1991	11	09.18681	04	09	26.13	+08	04	55.9		809
1991 VX6		1991	11	12.20347	04	06	59.58	+08	01	20.1	19.2	809
1991 VX6		1991	11	12.21667	04	06	58.97	+08	01	19.0		809
1991 VX6		1991	11	12.22986	04	06	58.26	+08	01	18.6		809
1991 VY6	*	1991	11	09.17361	04	10	17.12	+08	20	22.6		809
1991 VY6		1991	11	09.18681	04	10	16.43	+08	20	15.2		809
1991 VY6		1991	11	12.20347	04	07	27.44	+08	03	01.4	19.0	809
1991 VY6		1991	11	12.21667	04	07	26.58	+08	02	57.3		809
1991 VY6		1991	11	12.22986	04	07	25.81	+08	02	52.1		809
1991 VZ6	*	1991	11	09.17361	04	14	37.19	+07	11	23.8		809
1991 VZ6		1991	11	09.18681	04	14	36.39	+07	11	21.0		809
1991 VZ6		1991	11	12.20347	04	12	04.02	+07	06	40.4	19.3	809
1991 VZ6		1991	11	12.21667	04	12	03.34	+07	06	39.7		809
1991 VZ6		1991	11	12.22986	04	12	02.55	+07	06	38.9		809
1991 VA7	*	1991	11	09.17361	04	19	45.92	+09	56	00.1		809
1991 VA7		1991	11	09.18681	04	19	45.16	+09	55	54.1		809
1991 VA7		1991	11	12.20347	04	17	05.64	+09	42	29.0	18.6	809
1991 VA7		1991	11	12.21667	04	17	04.96	+09	42	26.1		809
1991 VA7		1991	11	12.22986	04	17	04.22	+09	42	23.1		809
1991 VB7	*	1991	11	09.17361	04	21	35.23	+09	53	46.8		809
1991 VB7		1991	11	09.18681	04	21	34.71	+09	53	40.7		809
1991 VB7		1991	11	12.20347	04	19	05.59	+09	42	59.7	18.5	809
1991 VB7		1991	11	12.21667	04	19	04.83	+09	42	57.3		809
1991 VB7		1991	11	12.22986	04	19	04.05	+09	42	54.2		809
1991 VC7	*	1991	11	09.17361	04	22	37.22	+09	52	12.3		809
1991 VC7		1991	11	09.18681	04	22	36.60	+09	52	09.5		809
1991 VC7		1991	11	12.20347	04	21	04.70	+09	44	57.1	18.8	809
1991 VC7		1991	11	12.21667	04	21	04.21	+09	44	56.1		809
1991 VC7		1991	11	12.22986	04	21	03.71	+09	44	55.3		809
4379 T-3		1991	11	02.21389	04	01	24.30	+11	03	08.5	18.5	809
4379 T-3		1991	11	02.22708	04	01	23.66	+11	03	02.7		809
4379 T-3		1991	11	02.24028	04	01	22.85	+11	02	58.9		809
4379 T-3		1991	11	06.11806	03	58	08.36	+10	42	56.8	18.8	809

4379 T-3	1991 11 06.13125	03 58 07.62	+10 42 53.6		809
4379 T-3	1991 11 06.14444	03 58 06.82	+10 42 49.5		809
4379 T-3	1991 11 09.11528	03 55 24.61	+10 27 46.4		809
4379 T-3	1991 11 09.12847	03 55 23.84	+10 27 42.1		809
4379 T-3	1991 11 09.14375	03 55 22.82	+10 27 38.7		809
4379 T-3	1991 11 12.14792	03 52 29.31	+10 12 52.1	18.7	809
4379 T-3	1991 11 12.16111	03 52 28.42	+10 12 47.6		809
4379 T-3	1991 11 12.17431	03 52 27.66	+10 12 44.5		809
(537)	1991 11 06.16458	04 07 54.98	+07 49 08.7		809
(537)	1991 11 06.17778	04 07 54.28	+07 49 06.4		809
(537)	1991 11 06.19097	04 07 53.51	+07 49 03.4		809
(537)	1991 11 09.17361	04 05 31.34	+07 42 00.6	15.0	809
(537)	1991 11 09.18681	04 05 30.69	+07 41 56.7		809
(1400)	1991 11 06.16458	04 25 40.99	+10 48 12.9		809
(1400)	1991 11 06.17778	04 25 40.48	+10 48 07.7		809
(1400)	1991 11 06.19097	04 25 39.99	+10 48 03.0		809
(1400)	1991 11 09.17361	04 23 29.30	+10 27 40.6		809
(1400)	1991 11 09.18681	04 23 28.75	+10 27 33.5		809
(1464)	1991 11 02.21389	03 57 17.38	+10 38 30.4	18.0	809
(1464)	1991 11 02.22708	03 57 16.71	+10 38 28.9		809
(1464)	1991 11 02.24028	03 57 15.96	+10 38 28.3		809
(1464)	1991 11 06.11806	03 54 14.24	+10 35 11.2	17.8	809
(1464)	1991 11 06.13125	03 54 13.49	+10 35 10.1		809
(1464)	1991 11 06.14444	03 54 12.72	+10 35 09.6		809
(1464)	1991 11 09.11528	03 51 45.44	+10 33 02.5		809
(1464)	1991 11 09.12847	03 51 44.69	+10 33 00.7		809
(1464)	1991 11 09.14375	03 51 43.88	+10 33 00.2		809
(1464)	1991 11 12.14792	03 49 09.33	+10 31 15.3	18.0	809
(1464)	1991 11 12.16111	03 49 08.51	+10 31 14.3		809
(1464)	1991 11 12.17431	03 49 07.83	+10 31 14.3		809
(1605)	1991 11 06.16458	04 23 32.37	+07 14 29.2		809
(1605)	1991 11 06.17778	04 23 31.91	+07 14 24.7		809
(1605)	1991 11 06.19097	04 23 31.32	+07 14 20.5		809
(1605)	1991 11 09.17361	04 21 31.76	+06 58 25.2		809
(1605)	1991 11 09.18681	04 21 31.20	+06 58 18.6		809
(2433)	1991 11 02.21389	04 11 17.07	+10 05 14.0	18.4	809
(2433)	1991 11 02.22708	04 11 16.35	+10 05 09.2		809
(2433)	1991 11 02.24028	04 11 15.62	+10 05 06.1		809
(2433)	1991 11 06.16458	04 08 12.81	+09 44 06.9		809
(2433)	1991 11 06.17778	04 08 12.19	+09 44 02.3		809
(2433)	1991 11 06.19097	04 08 11.47	+09 43 58.4		809
(2433)	1991 11 09.17361	04 05 44.17	+09 28 20.4		809
(2433)	1991 11 09.18681	04 05 43.45	+09 28 13.2		809
(2433)	1991 11 12.20347	04 03 08.60	+09 12 50.0	18.3	809
(2433)	1991 11 12.21667	04 03 07.85	+09 12 46.2		809
(2433)	1991 11 12.22986	04 03 07.10	+09 12 42.3		809
(2868)	1991 11 02.21389	03 59 23.93	+07 32 55.6	18.3	809
(2868)	1991 11 02.22708	03 59 23.27	+07 32 52.0		809
(2868)	1991 11 02.24028	03 59 22.55	+07 32 48.6		809
(2868)	1991 11 06.11806	03 56 33.71	+07 17 35.9	18.6	809
(2868)	1991 11 06.13125	03 56 33.00	+07 17 32.5		809
(2868)	1991 11 06.14444	03 56 32.29	+07 17 29.1		809
(2868)	1991 11 09.11528	03 54 12.37	+07 06 44.7		809
(2868)	1991 11 09.12847	03 54 11.55	+07 06 40.7		809
(2868)	1991 11 09.14375	03 54 10.70	+07 06 37.4		809
(2868)	1991 11 12.14792	03 51 42.04	+06 56 43.7	18.1	809
(2868)	1991 11 12.16111	03 51 41.22	+06 56 40.3		809
(2868)	1991 11 12.17431	03 51 40.48	+06 56 38.6		809
(3479)	1991 11 02.21389	03 54 21.57	+09 37 17.8	18.6	809

(3479)		1991 11 02.22708	03 54 20.95	+09 37 13.3			809
(3479)		1991 11 02.24028	03 54 20.23	+09 37 08.7			809
(3479)		1991 11 06.11806	03 51 34.07	+09 14 18.4		18.3	809
(3479)		1991 11 06.13125	03 51 33.45	+09 14 13.6			809
(3479)		1991 11 06.14444	03 51 32.78	+09 14 08.6			809
(3479)		1991 11 09.11528	03 49 19.48	+08 57 02.9			809
(3479)		1991 11 09.12847	03 49 18.71	+08 56 57.0			809
(3479)		1991 11 09.14375	03 49 17.94	+08 56 52.1			809
(3479)		1991 11 12.14792	03 46 58.91	+08 40 01.5		18.2	809
(3479)		1991 11 12.16111	03 46 58.22	+08 39 57.3			809
(3479)		1991 11 12.17431	03 46 57.56	+08 39 53.4			809
(3695)		1991 11 02.21389	03 57 39.77	+08 16 44.7		17.7	809
(3695)		1991 11 02.22708	03 57 39.11	+08 16 37.7			809
(3695)		1991 11 02.24028	03 57 38.34	+08 16 30.9			809
(3695)		1991 11 06.11806	03 54 41.75	+07 44 55.4		18.0	809
(3695)		1991 11 06.13125	03 54 41.01	+07 44 49.1			809
(3695)		1991 11 06.14444	03 54 40.27	+07 44 42.2			809
(3695)		1991 11 09.11528	03 52 12.39	+07 21 48.7			809
(3695)		1991 11 09.12847	03 52 11.58	+07 21 41.5			809
(3695)		1991 11 09.14375	03 52 10.68	+07 21 34.7			809
(3695)		1991 11 12.14792	03 49 33.06	+06 59 50.1		18.0	809
(3695)		1991 11 12.16111	03 49 32.20	+06 59 44.0			809
(3695)		1991 11 12.17431	03 49 31.38	+06 59 38.9			809

877 Okutama
S. Hayakawa, 1-31-33, Nagano, Gyoda-Shi, Saitama-Ken, 361 Japan
Observer T. Hioki
Measurers S. Hayakawa, T. Hioki
0.30-m f/3.8 hyperboloid astrocamera
GSC

1991 XT		1991 12 29.68819	07 50 33.94	+28 04 50.5		15.0	877
1991 XT		1991 12 29.70729	07 50 33.15	+28 04 53.3			877
1991 XT		1991 12 30.65104	07 49 45.26	+28 06 37.3			877
1991 XT		1991 12 30.67101	07 49 44.16	+28 06 39.5			877
1991 YG		1991 12 16.75799	07 10 41.62	+17 01 28.2		16.0	877
1991 YG		1991 12 16.78229	07 10 40.66	+17 01 25.0			877
1992 AG	*	1992 01 01.82487	08 08 00.43	+26 01 40.7		15.0	877
1992 AG		1992 01 01.84227	08 07 59.84	+26 02 10.3			877
1992 AG		1992 01 02.60162	08 07 21.18	+26 24 37.8			877
1992 AG		1992 01 02.61528	08 07 20.46	+26 25 01.3			877
1992 AG		1992 01 10.59479	07 59 21.10	+30 19 28.8		14.5	877
1992 AG		1992 01 10.61146	07 59 19.87	+30 19 58.8			877
1992 AG		1992 01 11.58403	07 58 15.21	+30 47 54.0			877
1992 AG		1992 01 11.59792	07 58 14.17	+30 48 19.0			877
1992 AG		1992 01 12.61157	07 57 05.59	+31 17 08.8			877
1992 AG		1992 01 12.62535	07 57 04.44	+31 17 33.7			877
1992 AG		1992 01 24.52639	07 43 09.48	+36 26 24.5		15.0	877
1992 AG		1992 01 24.53889	07 43 08.58	+36 26 41.8			877
1992 AG		1992 01 25.52014	07 42 01.52	+36 49 01.2			877
1992 AG		1992 01 25.53426	07 42 00.55	+36 49 21.4			877
1992 AK	*	1992 01 03.76632	08 47 41.12	+22 40 18.8		16.5	877
1992 AK		1992 01 03.78507	08 47 40.08	+22 40 18.8			877
1992 AK		1992 01 04.60556	08 47 03.24	+22 42 10.0			877
1992 AK		1992 01 04.62396	08 47 02.10	+22 42 13.6			877
1992 AL	*	1992 01 04.73958	09 33 21.97	+07 24 41.3		16.5	877
1992 AL		1992 01 04.76667	09 33 21.06	+07 24 55.9			877
1992 AL		1992 01 07.82361	09 32 02.24	+07 49 06.8			877
1992 AL		1992 01 07.84641	09 32 01.71	+07 49 18.4			877
1992 AL		1992 01 14.82500	09 28 00.47	+08 53 34.8			877

1992 AL		1992 01 14.84375	09 27 59.43	+08 53 45.0			877
1992 AY	*	1992 01 04.68345	09 26 12.57	+24 56 50.6	16.5		877
1992 AY		1992 01 04.70637	09 26 11.96	+24 57 04.3			877
1992 AY		1992 01 10.62778	09 23 35.93	+25 55 12.1			877
1992 AY		1992 01 10.65139	09 23 35.27	+25 55 26.3			877
1992 AY		1992 01 24.55133	09 14 27.71	+28 14 36.8	16.0		877
1992 AY		1992 01 24.56632	09 14 27.02	+28 14 45.0			877
1992 AA1	*	1992 01 04.78229	09 37 58.67	+23 39 04.6	16.5		877
1992 AA1		1992 01 04.80903	09 37 57.64	+23 39 13.7			877
1992 AA1		1992 01 10.66701	09 35 36.38	+23 57 58.4			877
1992 AA1		1992 01 10.68472	09 35 34.87	+23 58 06.2			877
1992 AE1	*	1992 01 10.66701	09 32 36.22	+23 40 25.2	16.0		877
1992 AE1		1992 01 10.68472	09 32 35.67	+23 40 35.2			877
1992 AE1		1992 01 17.83333	09 28 58.66	+24 54 20.4			877
1992 AE1		1992 01 17.85069	09 28 58.16	+24 54 30.5			877
1992 AE1		1992 01 25.58874	09 23 36.80	+26 15 27.5			877
1992 AE1		1992 01 25.60521	09 23 35.94	+26 15 37.7	16.0		877
1992 AF1	*	1992 01 10.66701	09 34 33.62	+23 04 01.8	16.0		877
1992 AF1		1992 01 10.68472	09 34 32.87	+23 04 07.1			877
1992 AF1		1992 01 17.83333	09 29 05.43	+23 40 00.9			877
1992 AF1		1992 01 17.85069	09 29 04.55	+23 40 06.3			877
1992 AF1		1992 01 25.58874	09 21 34.82	+24 18 27.3	16.0		877
1992 AF1		1992 01 25.60521	09 21 33.78	+24 18 33.6			877
1992 AM1	*	1992 01 10.75486	10 04 14.64	+15 46 41.0	17.0		877
1992 AM1		1992 01 10.78194	10 04 13.97	+15 46 45.4			877
1992 AM1		1992 01 14.71111	10 02 26.76	+16 07 51.1			877
1992 AM1		1992 01 14.73750	10 02 25.84	+16 08 00.8			877
1992 AN1	*	1992 01 10.75486	10 04 38.18	+15 56 26.2	17.0		877
1992 AN1		1992 01 10.78194	10 04 36.76	+15 56 33.1			877
1992 AN1		1992 01 14.71111	10 02 30.23	+16 09 42.5			877
1992 AN1		1992 01 14.73750	10 02 29.42	+16 09 46.8			877
1992 AO1	*	1992 01 10.79792	10 05 36.87	+19 02 46.9	16.5		877
1992 AO1		1992 01 10.84387	10 05 36.45	+19 02 56.2			877
1992 AO1		1992 01 12.67708	10 05 08.28	+19 12 21.3			877
1992 AO1		1992 01 12.69479	10 05 08.02	+19 12 29.7			877
1992 AS1	*	1992 01 04.73958	09 31 49.37	+06 58 52.2	16.5		877
1992 AS1		1992 01 04.76667	09 31 48.86	+06 58 58.2			877
1992 AS1		1992 01 07.82361	09 30 33.08	+07 12 28.1			877
1992 AS1		1992 01 07.84641	09 30 32.48	+07 12 31.5			877
1992 AS1		1992 01 14.82500	09 26 49.98	+07 50 27.0			877
1992 AS1		1992 01 14.84375	09 26 49.33	+07 50 34.2			877
1992 AS1		1992 01 27.57396	09 17 40.13	+09 21 34.6	16.0		877
1992 AS1		1992 01 27.59201	09 17 39.25	+09 21 41.7			877
1992 BZ		1992 01 14.71111	10 02 44.54	+16 45 47.0	16.5		877
1992 BZ		1992 01 14.73750	10 02 43.37	+16 46 03.2			877
1992 BZ		1992 01 14.77604	10 02 42.56	+16 46 08.1			877
1992 BZ		1992 02 01.60590	09 50 09.92	+18 27 02.2	16.5		877
1992 BZ		1992 02 01.62917	09 50 08.37	+18 27 08.1			877

885 JCPM Yakiimo Station
T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan
Observers A. Natori, T. Urata
Measurer T. Urata
0.20-m f/4.0 hyperboloid astrocamera
GSC

1991 YB		1991 12 14.68611	07 05 29.84	+25 04 39.7	16		885
1991 YB		1991 12 14.69375	07 05 29.44	+25 04 37.9			885
1991 YB	*	1991 12 16.68507	07 03 39.41	+25 02 13.5	16		885
1991 YB		1991 12 16.70451	07 03 38.24	+25 02 11.2			885

1991 YB		1992 01 03.49583	06 45 08.25	+24 34 33.1	16			885
1991 YB		1992 01 03.50486	06 45 07.70	+24 34 32.9				885
1991 YB		1992 01 10.50556	06 37 55.31	+24 20 14.0	16.5			885
1991 YC	*	1991 12 28.61771	07 55 38.69	+19 46 44.3	16			885
1991 YC		1991 12 28.63299	07 55 38.04	+19 46 55.4				885
1991 YC		1992 01 03.57396	07 51 11.84	+21 02 24.5	16.5			885
1991 YC		1992 01 10.55556	07 45 01.67	+22 35 41.7	16			885
1991 YC		1992 01 10.57083	07 45 00.72	+22 35 54.9				885
1992 AF	*	1992 01 01.67535	08 09 36.6	+07 50 27	16.5		O	885
1992 AF		1992 01 01.68924	08 09 35.9	+07 50 26			O	885
1992 AF		1992 01 07.59306	08 05 18.87	+07 40 35.5	16.5			885
1992 AF		1992 01 07.60833	08 05 18.01	+07 40 33.5				885
(1361)		1992 02 02.56424	09 17 41.01	+01 16 48.0	16.3			885
(1361)		1992 02 02.57813	09 17 40.35	+01 16 54.2				885

886 Susono
T. Furuta, 17-2 Mitsuike, Kagiya, Tokai 477, Japan
Observers M. Akiyama, T. Furuta
Measurer T. Furuta
0.25-m f/4.2 Wright-Schmidt camera
GSC

1991 WC	*	1991 11 30.72378	05 15 33.7	+21 26 27	16.0			886
1991 WC		1991 12 03.74271	05 12 04.4	+21 29 57				886
1991 WC		1991 12 08.56458	05 06 24.97	+21 35 04.3				886
1991 WC		1991 12 08.57535	05 06 24.33	+21 35 07.1				886
1991 WC		1991 12 10.60972	05 04 01.38	+21 37 09.2				886
1991 WC		1991 12 10.62094	05 04 00.66	+21 37 09.6				886
1991 WC		1991 12 13.56736	05 00 37.63	+21 39 59.4				886
1991 WC		1991 12 13.57813	05 00 36.82	+21 40 01.1				886
1991 XU		1992 01 01.55035	07 24 04.23	+23 02 54.4	16.0		G	886
1991 XU		1992 01 01.56111	07 24 03.79	+23 02 55.5			G	886
1991 YC		1991 12 30.59306	07 54 16.42	+20 11 15.7	16.0		E	886
1991 YC		1991 12 30.60382	07 54 15.87	+20 11 21.8			E	886
(736)		1992 01 24.58854	09 12 11.20	+15 31 22.0	15.5			886
(736)		1992 01 24.59931	09 12 10.66	+15 31 24.5				886
(736)		1992 01 25.67639	09 11 03.63	+15 38 14.5				886
(736)		1992 01 25.68715	09 11 03.02	+15 38 17.8				886

889 Karasuyama
T. Urata, 6-1, Muramatsubara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan
Observers S. Inoda, T. Urata
Measurer T. Urata
0.31-m f/5.6 reflector
ACRS, GSC

1992 AB1	*	1992 01 10.58889	08 07 11.34	+12 44 51.9	16.5			889
1992 AB1		1992 01 10.60694	08 07 10.09	+12 44 49.0				889
1992 AB1		1992 01 14.68715	08 02 50.96	+12 44 51.5	16.5			889
1992 AB1		1992 01 14.70868	08 02 49.63	+12 44 51.9				889

894 Otomo
S. Otomo, Kiyosato 3545-3902, Takane-cho, Kitakoma-gun, Yamanashi-ken, 407-03, Japan
Observer S. Otomo
0.25-m f/3.4 reflector
PPM

1986 RQ5		1991 12 12.76215	07 38 27.56	+28 25 19.5	16.5			894
1987 OM		1992 01 24.50625	07 00 16.30	+23 15 54.1	17.5			894
1987 OM		1992 01 24.51875	07 00 15.53	+23 15 56.2				894
1987 OM		1992 01 24.53056	07 00 14.86	+23 16 00.1				894

1987 OM		1992	01	26.57755	06	58	18.82	+23 24 47.9	17.5	894
1987 OM		1992	01	26.59132	06	58	17.56	+23 24 50.9		894
1987 SG13		1992	02	04.67257	09	39	16.50	+22 15 13.9	17.2	894
1987 SG13		1992	02	04.69896	09	39	14.76	+22 15 22.6		894
1990 UG2		1992	02	04.67257	09	36	48.11	+22 31 54.5	17.0	894
1990 UG2		1992	02	04.69896	09	36	46.76	+22 32 07.2		894
1991 UY		1991	11	10.58142	02	35	25.45	+07 36 28.0	16.5	894
1991 UY		1991	11	10.60469	02	35	23.90	+07 36 29.0		894
1991 VQ1		1991	11	10.58142	02	33	39.43	+07 13 08.3	16.5	894
1991 VQ1		1991	11	10.60469	02	33	37.95	+07 13 11.9		894
1991 VV2		1992	01	04.55191	03	04	27.35	+36 37 49.3	16.8	894
1991 VV2		1992	01	04.59219	03	04	27.44	+36 37 43.9		894
1991 VE4	*	1991	11	04.68576	03	05	18.95	+07 12 29.4	16.8	894
1991 VE4		1991	11	04.71008	03	05	17.38	+07 12 25.9		894
1991 VE4		1991	11	10.61707	02	59	20.29	+06 45 13.7	16.8	894
1991 VE4		1991	11	10.64037	02	59	18.80	+06 45 08.0		894
1991 VE4		1991	11	12.61510	02	57	21.55	+06 37 27.3	16.9	894
1991 VE4		1991	11	12.62639	02	57	20.80	+06 37 26.9		894
1991 VF4	*	1991	11	04.68576	03	05	46.48	+07 57 49.4	16.7	894
1991 VF4		1991	11	04.71008	03	05	44.86	+07 57 48.1		894
1991 VF4		1991	11	10.61707	02	59	36.81	+07 52 14.5	16.7	894
1991 VF4		1991	11	10.64037	02	59	35.29	+07 52 15.1		894
1991 VN4		1991	11	04.63646	03	29	34.62	+05 32 44.5	16.5	894
1991 VN4		1991	11	04.65741	03	29	33.47	+05 32 41.9		894
1991 VN4	*	1991	11	10.67604	03	24	17.01	+05 28 15.9	16.6	894
1991 VN4		1991	11	10.69850	03	24	15.71	+05 28 14.4		894
1991 VN4		1991	11	13.63854	03	21	37.69	+05 27 30.0		894
1991 VN4		1991	11	13.66250	03	21	36.32	+05 27 29.3		894
1991 VN4		1991	12	09.61927	03	01	08.49	+06 08 32.6	16.8	894
1991 VO4	*	1991	11	11.73414	04	06	10.73	+12 50 49.3	16.8	894
1991 VO4		1991	11	11.75909	04	06	09.42	+12 50 30.8		894
1991 VO4		1991	11	15.76493	04	02	49.10	+12 06 53.4	17.1	894
1991 VO4		1991	11	15.77882	04	02	48.40	+12 06 45.3		894
1991 VO4		1991	12	09.65556	03	43	24.92	+08 32 53.1	17.2	894
1991 VP4	*	1991	11	13.68177	04	30	12.59	+13 38 09.3	17.0	894
1991 VP4		1991	11	13.70903	04	30	11.36	+13 38 08.0		894
1991 VP4		1991	11	14.65243	04	29	27.97	+13 37 12.3		894
1991 VP4		1991	11	14.67292	04	29	26.95	+13 37 10.9		894
1991 VQ4	*	1991	11	13.68177	04	31	35.26	+13 49 37.7	16.7	894
1991 VQ4		1991	11	13.70903	04	31	33.68	+13 49 31.2		894
1991 VQ4		1991	11	14.65243	04	30	43.40	+13 45 22.7		894
1991 VQ4		1991	11	14.67292	04	30	42.25	+13 45 20.0		894
1991 VR4	*	1991	11	13.73559	04	26	55.48	+07 58 04.4	16.5	894
1991 VR4		1991	11	13.75938	04	26	54.31	+07 57 46.1		894
1991 VR4		1991	11	15.79219	04	25	21.85	+07 31 52.8	16.7	894
1991 VR4		1991	11	15.81534	04	25	20.77	+07 31 33.9		894
1991 VU4	*	1991	11	05.69688	03	53	32.53	+13 09 00.3	17.0	894
1991 VU4		1991	11	05.73333	03	53	30.57	+13 08 53.9		894
1991 VU4		1991	11	10.72363	03	49	13.61	+12 55 00.3		894
1991 VU4		1991	11	10.74792	03	49	12.22	+12 54 56.5		894
1991 VU4		1991	12	07.52156	03	26	11.63	+12 17 09.4	17.0	894
1991 VU4		1991	12	07.54826	03	26	10.53	+12 17 08.4		894
1991 VW4	*	1991	11	10.76157	03	48	14.91	+10 07 57.9	16.8	894
1991 VW4		1991	11	10.79919	03	48	12.45	+10 07 55.1		894
1991 VW4		1991	11	15.69965	03	42	55.05	+10 03 58.9		894
1991 VW4		1991	11	15.72396	03	42	53.52	+10 03 59.6		894
1991 VW4		1991	12	07.52156	03	21	08.34	+10 18 54.9	17.1	894
1991 VW4		1991	12	07.54826	03	21	07.09	+10 19 01.8		894
1991 VY4	*	1991	11	05.67188	03	19	43.71	+12 41 48.5	17.0	894

1991 VY4		1991	11	05.70903	03	19	41.53	+12	41	42.5		894
1991 VY4		1991	11	10.71146	03	14	51.22	+12	29	10.3	16.8	894
1991 VY4		1991	11	10.73579	03	14	49.68	+12	29	06.6		894
1991 VY4		1991	11	13.62674	03	11	58.64	+12	22	26.1	16.8	894
1991 VY4		1991	11	13.65035	03	11	57.14	+12	22	22.9		894
1991 VZ4	*	1991	11	05.67188	03	21	40.89	+13	49	08.7	17.1	894
1991 VZ4		1991	11	05.70903	03	21	38.93	+13	49	02.7		894
1991 VZ4		1991	11	13.62674	03	14	43.04	+13	22	36.8	16.7	894
1991 VZ4		1991	11	13.65035	03	14	41.73	+13	22	31.6		894
1991 VC5	*	1991	11	10.56997	02	36	02.00	+13	06	36.5	16.7	894
1991 VC5		1991	11	10.59340	02	36	00.45	+13	06	37.4		894
1991 VC5		1991	11	11.59618	02	34	55.00	+13	06	29.7	16.6	894
1991 VC5		1991	11	11.62118	02	34	53.36	+13	06	29.2		894
1991 VC5		1991	11	12.59028	02	33	50.60	+13	06	27.1		894
1991 VC5		1991	11	12.60278	02	33	49.84	+13	06	26.5		894
1991 VE5	*	1991	11	04.58206	02	45	57.93	+08	41	14.6	16.7	894
1991 VE5		1991	11	04.60938	02	45	56.20	+08	41	06.4		894
1991 VE5		1991	11	05.58142	02	44	53.13	+08	37	57.0		894
1991 VE5		1991	11	05.60660	02	44	51.50	+08	37	52.0		894
1991 VE5		1991	11	10.58142	02	39	35.61	+08	23	24.6	16.6	894
1991 VE5		1991	11	10.60469	02	39	34.04	+08	23	21.3		894
1991 VF5	*	1991	11	04.63646	03	19	51.55	+05	11	32.9	17.0	894
1991 VF5		1991	11	04.65741	03	19	50.38	+05	11	23.3		894
1991 VF5		1991	11	13.63854	03	10	41.54	+04	24	13.3	16.7	894
1991 VF5		1991	11	13.66250	03	10	39.98	+04	24	06.1		894
1991 VF5		1991	11	17.72500	03	06	31.75	+04	07	29.3	16.6	894
1991 VF5		1991	11	17.73889	03	06	30.82	+04	07	25.1		894
1991 VF5		1991	12	07.50781	02	50	02.34	+03	40	07.3	16.9	894
1991 VF5		1991	12	07.53472	02	50	01.30	+03	40	08.6		894
1991 VG5		1991	11	04.56763	02	26	02.52	+08	09	14.8		894
1991 VG5	*	1991	11	11.55642	02	18	46.62	+08	04	30.1	16.8	894
1991 VG5		1991	11	11.56806	02	18	45.98	+08	04	28.9		894
1991 VJ5	*	1991	11	13.63854	03	07	04.40	+04	47	01.3	16.7	894
1991 VJ5		1991	11	13.66250	03	07	02.85	+04	47	01.9		894
1991 VJ5		1991	11	17.72500	03	02	51.40	+04	48	32.2	16.8	894
1991 VJ5		1991	11	17.73889	03	02	50.58	+04	48	33.8		894
1991 VK5		1991	11	04.63646	03	21	11.29	+05	05	29.2	16.5	894
1991 VK5		1991	11	04.65741	03	21	10.17	+05	05	26.6		894
1991 VK5	*	1991	11	13.63854	03	13	30.23	+04	53	20.8	16.6	894
1991 VK5		1991	11	13.66250	03	13	28.98	+04	53	20.0		894
1991 VK5		1991	11	17.72500	03	10	01.15	+04	50	36.4	16.5	894
1991 VK5		1991	11	17.73889	03	10	00.48	+04	50	36.4		894
1991 VM5	*	1991	11	05.61892	02	47	41.93	+10	10	39.7	16.9	894
1991 VM5		1991	11	05.64619	02	47	40.00	+10	10	38.9		894
1991 VM5		1991	11	10.56997	02	42	15.48	+10	09	27.3	16.9	894
1991 VM5		1991	11	10.59340	02	42	13.88	+10	09	26.5		894
1991 VM5		1991	11	12.59028	02	40	06.66	+10	09	36.0	17.0	894
1991 VM5		1991	11	12.60278	02	40	05.77	+10	09	35.5		894
1991 VO5	*	1991	11	13.68177	04	32	57.78	+12	16	21.2	17.2	894
1991 VO5		1991	11	13.70903	04	32	56.43	+12	16	21.5		894
1991 VO5		1991	11	14.65243	04	32	11.43	+12	15	33.1	17.0	894
1991 WD	*	1991	11	17.75260	05	00	20.78	+13	02	41.6	17.0	894
1991 WD		1991	11	17.77274	05	00	19.75	+13	02	45.4		894
1991 WD		1991	12	12.66285	04	34	20.55	+15	07	39.3	17.0	894
1991 WD		1991	12	13.64497	04	33	16.10	+15	13	51.3	17.0	894
1991 WD		1991	12	13.67135	04	33	14.30	+15	14	01.2		894
1991 WD		1991	12	16.70575	04	29	59.19	+15	33	42.4	17.0	894
1991 WD		1991	12	16.71806	04	29	58.64	+15	33	44.4		894
1991 XU	*	1991	12	13.77448	07	41	21.77	+23	53	33.7	16.7	894

1991 XU		1991	12	13.80156	07	41	20.55	+23 53 29.4		894
1991 XU		1991	12	15.73924	07	39	57.22	+23 48 34.0	16.6	894
1991 XU		1991	12	15.76563	07	39	55.93	+23 48 30.2		894
1991 XU		1991	12	18.79340	07	37	32.94	+23 40 44.1	16.7	894
1991 XU		1991	12	18.81788	07	37	31.56	+23 40 39.2		894
1991 XU		1992	01	03.77918	07	21	35.63	+22 56 13.2	16.5	894
1991 XU		1992	01	03.78906	07	21	34.92	+22 56 11.6		894
1991 XU		1992	01	10.66007	07	13	47.29	+22 34 21.1	16.5	894
1991 XU		1992	01	10.67188	07	13	46.52	+22 34 18.8		894
1991 XU		1992	01	12.62569	07	11	33.54	+22 27 45.7	16.2	894
1991 XU		1992	01	14.68924	07	09	14.29	+22 20 37.9		894
1991 XU		1992	01	24.50625	06	58	54.75	+21 45 02.9	16.5	894
1991 XU		1992	01	24.51875	06	58	54.00	+21 44 59.5		894
1991 XU		1992	01	24.53056	06	58	53.24	+21 44 56.9		894
1991 XW	*	1991	12	15.79173	07	37	42.08	+34 58 29.3	16.9	894
1991 XW		1991	12	15.81667	07	37	40.67	+34 58 36.4		894
1991 XW		1991	12	18.82990	07	34	37.53	+35 08 19.6		894
1991 XW		1992	01	09.71111	07	06	52.34	+35 38 31.8	17.2	894
1991 XW		1992	01	09.72500	07	06	50.95	+35 38 33.9		894
1991 XA1	*	1991	12	13.73472	05	32	54.36	+21 44 30.0	16.7	894
1991 XA1		1991	12	13.74722	05	32	53.54	+21 44 30.5		894
1991 XA1		1991	12	14.71649	05	31	52.77	+21 46 44.0	16.7	894
1991 XA1		1991	12	14.72884	05	31	51.92	+21 46 45.6		894
1991 XA1		1991	12	15.65417	05	30	53.91	+21 48 50.2	16.6	894
1991 XA1		1991	12	15.66667	05	30	53.10	+21 48 52.0		894
1991 XB1	*	1991	12	13.73472	05	33	44.96	+21 32 40.5	16.7	894
1991 XB1		1991	12	13.74722	05	33	44.07	+21 32 49.0		894
1991 XB1		1991	12	14.71649	05	32	40.06	+21 41 46.1	16.7	894
1991 XB1		1991	12	14.72884	05	32	39.16	+21 41 55.0		894
1991 XB1		1991	12	15.65417	05	31	37.89	+21 50 27.4	16.6	894
1991 XB1		1991	12	15.66667	05	31	37.05	+21 50 34.2		894
1991 XB1		1991	12	26.56267	05	19	48.05	+23 29 38.9	16.6	894
1991 XB1		1991	12	26.57396	05	19	47.34	+23 29 45.6		894
1991 XB1		1991	12	26.58542	05	19	46.63	+23 29 53.2		894
1991 XB1		1991	12	26.59583	05	19	46.01	+23 29 57.2		894
1991 XB1		1991	12	26.62569	05	19	44.00	+23 30 12.9		894
1991 XB1		1992	01	03.70139	05	12	08.07	+24 39 15.5	17.0	894
1991 XB1		1992	01	03.71391	05	12	07.50	+24 39 20.8		894
1991 XC1	*	1991	12	13.73472	05	35	05.75	+22 43 35.7	16.5	894
1991 XC1		1991	12	13.74722	05	35	05.03	+22 43 36.5		894
1991 XC1		1991	12	14.71649	05	34	08.84	+22 46 12.0	16.4	894
1991 XC1		1991	12	14.72884	05	34	08.15	+22 46 14.1		894
1991 XC1		1991	12	15.65417	05	33	14.45	+22 48 41.6	16.3	894
1991 XC1		1991	12	15.66667	05	33	13.73	+22 48 42.5		894
1991 XC1		1991	12	26.56267	05	23	01.97	+23 15 55.3	16.6	894
1991 XC1		1991	12	26.57396	05	23	01.27	+23 15 55.9		894
1991 XC1		1991	12	26.58542	05	23	00.70	+23 15 56.8		894
1991 XC1		1991	12	26.59583	05	23	00.21	+23 15 59.0		894
1991 XC1		1991	12	26.62569	05	22	58.47	+23 16 01.7		894
1991 XC1		1992	01	03.70139	05	16	22.89	+23 34 18.9	17.0	894
1991 XC1		1992	01	03.71391	05	16	22.40	+23 34 19.8		894
1991 XD1	*	1991	12	13.73472	05	35	49.57	+22 27 29.1	16.8	894
1991 XD1		1991	12	13.74722	05	35	48.65	+22 27 24.8		894
1991 XD1		1991	12	14.71649	05	34	54.73	+22 22 44.7	16.8	894
1991 XD1		1991	12	14.72884	05	34	53.98	+22 22 41.2		894
1991 XD1		1991	12	15.65417	05	34	02.39	+22 18 13.8	16.7	894
1991 XD1		1991	12	15.66667	05	34	01.70	+22 18 09.5		894
1991 YE		1992	01	10.66007	07	14	35.57	+22 33 28.4	16.8	894
1991 YE		1992	01	10.67188	07	14	34.84	+22 33 30.4		894

1991 YE		1992 01 12.62569	07 12 37.21	+22 42 01.8	16.8	894
1991 YE		1992 01 14.68924	07 10 33.42	+22 50 52.9		894
1991 YE		1992 01 24.50625	07 01 22.75	+23 30 04.1	17.0	894
1991 YE		1992 01 24.51875	07 01 22.04	+23 30 07.1		894
1991 YE		1992 01 24.53056	07 01 21.47	+23 30 07.9		894
1991 YE		1992 01 25.53576	07 00 30.41	+23 33 48.3	17.0	894
1991 YE		1992 01 25.54965	07 00 29.56	+23 33 52.7		894
1991 YE		1992 01 26.57755	06 59 38.60	+23 37 33.2	17.2	894
1991 YE		1992 01 26.59132	06 59 37.91	+23 37 36.9		894
1991 YE		1992 01 27.60938	06 58 48.79	+23 41 12.0		894
1991 YE		1992 01 28.67789	06 57 58.65	+23 44 50.9	17.5	894
1992 AA		1992 01 09.59065	04 41 03.09	+20 57 25.1		894
1992 AB		1992 01 09.57326	04 16 29.67	+20 19 49.0		894
1992 AZ	*	1992 01 04.73160	07 53 28.77	+17 42 15.6	16.5	894
1992 AZ		1992 01 04.75799	07 53 27.21	+17 42 21.8		894
1992 AZ		1992 01 09.64271	07 48 43.28	+17 54 43.3	16.5	894
1992 AZ		1992 01 09.65729	07 48 42.41	+17 54 44.9		894
1992 AK1	*	1992 01 10.74201	07 54 29.33	+21 53 56.8	16.7	894
1992 AK1		1992 01 10.75590	07 54 28.57	+21 53 56.9		894
1992 AK1		1992 01 12.67124	07 52 49.40	+22 00 01.6	16.7	894
1992 AK1		1992 01 12.68507	07 52 48.69	+22 00 03.5		894
1992 AK1		1992 01 14.71954	07 51 02.63	+22 06 21.9		894
1992 AK1		1992 01 14.73335	07 51 01.87	+22 06 23.9		894
1992 AK1		1992 01 15.75741	07 50 08.43	+22 09 32.0	16.6	894
1992 AK1		1992 01 15.76840	07 50 07.66	+22 09 34.0		894
1992 AK1		1992 01 24.54444	07 42 37.28	+22 34 50.7	17.0	894
1992 AK1		1992 01 24.55694	07 42 36.66	+22 34 53.4		894
1992 AK1		1992 01 26.60662	07 40 55.47	+22 40 17.9	17.0	894
1992 AK1		1992 01 26.61910	07 40 54.91	+22 40 18.4		894
1992 AK1		1992 02 02.57037	07 35 34.12	+22 56 53.2	17.0	894
1992 AK1		1992 02 02.58438	07 35 33.43	+22 56 54.0		894
1992 AK1		1992 02 04.62396	07 34 07.24	+23 01 10.6	17.3	894
1992 AK1		1992 02 04.63854	07 34 06.64	+23 01 13.4		894
1992 AL1	*	1992 01 10.74201	07 59 35.72	+21 06 02.0	16.5	894
1992 AL1		1992 01 10.75590	07 59 35.03	+21 06 04.6		894
1992 AL1		1992 01 12.67124	07 57 35.95	+21 19 20.9	16.5	894
1992 AL1		1992 01 12.68507	07 57 35.08	+21 19 26.8		894
1992 AL1		1992 01 15.75741	07 54 20.26	+21 40 35.4	16.4	894
1992 AL1		1992 01 15.76840	07 54 19.46	+21 40 39.8		894
1992 AL1		1992 01 24.54444	07 45 03.70	+22 38 45.6	16.6	894
1992 AL1		1992 01 24.55694	07 45 02.92	+22 38 49.8		894
1992 AL1		1992 01 26.60662	07 42 57.80	+22 51 33.9	16.8	894
1992 AL1		1992 01 26.61910	07 42 57.01	+22 51 38.1		894
1992 AL1		1992 02 02.57037	07 36 24.85	+23 31 31.6	16.7	894
1992 AL1		1992 02 02.58438	07 36 24.08	+23 31 36.7		894
1992 AL1		1992 02 04.62396	07 34 41.09	+23 42 12.9	17.0	894
1992 AL1		1992 02 04.63854	07 34 40.36	+23 42 16.7		894
1992 AO1		1992 02 04.67257	09 49 51.10	+21 32 06.9	17.0	894
1992 AO1		1992 02 04.69896	09 49 49.30	+21 32 16.6		894
1992 BL	*	1992 01 24.50625	06 55 18.76	+24 28 12.9	16.8	894
1992 BL		1992 01 24.51875	06 55 18.04	+24 28 12.6		894
1992 BL		1992 01 24.53056	06 55 17.19	+24 28 12.8		894
1992 BL		1992 01 25.53576	06 54 17.50	+24 26 56.3		894
1992 BL		1992 01 25.54965	06 54 16.55	+24 26 54.2		894
1992 BO		1992 02 04.67257	09 46 16.43	+21 18 01.5	17.0	894
1992 BO		1992 02 04.69896	09 46 14.68	+21 18 08.1		894
(114)		1992 01 26.63576	09 17 46.55	+11 06 13.4		894
(114)		1992 01 26.66215	09 17 45.23	+11 06 21.8		894
(114)		1992 01 27.63854	09 16 57.87	+11 11 46.7		894

(114)		1992 01 27.65243	09 16 57.22	+11 11 51.1					894
(511)		1992 01 28.69549	09 21 21.99	+26 23 06.6					894
(511)		1992 01 28.70938	09 21 21.31	+26 23 14.8					894
(511)		1992 02 02.60035	09 17 23.85	+27 08 52.3					894
(511)		1992 02 02.61424	09 17 23.18	+27 09 00.7					894
(1539)		1992 01 14.71954	07 50 22.76	+19 48 20.4	16.5				894
(1539)		1992 01 14.73335	07 50 21.95	+19 48 21.3					894
(1539)		1992 01 15.75741	07 49 27.98	+19 51 11.1	16.3				894
(1539)		1992 01 15.76840	07 49 27.36	+19 51 13.0					894
(1684)		1992 01 14.68924	07 09 09.10	+22 41 42.1					894
(1684)		1992 01 24.50625	07 01 01.54	+23 01 49.0					894
(1684)		1992 01 24.51875	07 01 00.92	+23 01 50.5					894
(1684)		1992 01 24.53056	07 01 00.40	+23 01 52.3					894
(2083)		1991 12 13.73472	05 26 53.33	+21 26 49.6					894
(2083)		1991 12 13.74722	05 26 52.23	+21 26 35.3					894
(2083)		1991 12 14.71649	05 25 27.51	+21 08 35.5					894
(2083)		1991 12 14.72884	05 25 26.47	+21 08 22.8					894
(2114)		1992 01 12.68507	07 53 39.06	+21 37 51.6					894
(2114)		1992 01 15.75741	07 50 59.17	+21 44 48.8					894
(2114)		1992 01 15.76840	07 50 58.66	+21 44 46.7					894
(2114)		1992 01 24.54444	07 43 21.45	+22 03 32.6					894
(2114)		1992 01 24.55694	07 43 20.75	+22 03 33.9					894
(2655)		1991 11 12.75729	04 56 14.69	+12 13 01.3					894
(2655)		1991 11 12.78247	04 56 13.56	+12 13 05.2					894
(3219)		1992 01 14.68924	07 08 53.73	+22 50 43.5					894
(3219)		1992 01 24.50625	07 00 12.20	+22 46 19.2					894
(3219)		1992 01 24.51875	07 00 11.51	+22 46 18.0					894
(3219)		1992 01 24.53056	07 00 10.91	+22 46 18.1					894
(4612)		1991 11 12.75729	04 55 22.76	+12 12 03.1					894
(4612)		1991 11 12.78247	04 55 21.72	+12 12 02.5					894
(4612)		1991 11 13.72153	04 54 38.41	+12 11 42.8					894

896 Yatsugatake South Base Observatory
O. Muramatsu, 119-1, 2-8 Sakurazutsumi, Musashino, Tokyo 180, Japan
Observers Y. Kushida, O. Muramatsu
Measurer O. Muramatsu
0.20-m f/4.0 reflector
PPM

1991 XH	*	1991 12 03.67083	05 10 57.60	+02 25 53.2	17.0				896
1991 XH		1991 12 04.60417	05 10 02.77	+02 27 30.1					896
1991 XH		1991 12 09.73646	05 04 58.61	+02 40 04.6	16.5				896
1991 XH		1991 12 12.71910	05 02 03.10	+02 50 09.6					896
1991 XH		1991 12 15.72569	04 59 09.61	+03 02 13.8					896
1991 XH		1992 01 01.59271	04 45 30.01	+04 42 18.0					896
1992 BK	*	1992 01 24.49931	08 57 16.6	+23 11 40	16.5				896
1992 BK		1992 01 24.53403	08 57 14.58	+23 11 44.2					896
1992 BK		1992 01 26.54375	08 55 14.47	+23 15 44.0					896

898 Fujieda
M. Kizawa, 1458-10, Minami Numagami, Shizuoka-Ken 420, Japan
Observers H. Shiozawa, M. Kizawa
Measurer M. Kizawa
0.20-m f/4.0 hyperboloid astrocamera
GSC

1991 XY	*	1991 12 14.63785	06 42 33.51	+13 19 23.1	16		N		898
1991 XY		1991 12 14.66608	06 42 31.96	+13 19 09.9	16		N		898
1991 XY		1991 12 30.53292	06 26 59.32	+11 27 27.3	16				898
1991 XY		1991 12 30.55464	06 26 58.03	+11 27 19.8	16				898
1991 XZ	*	1991 12 14.72151	06 52 33.28	+30 18 07.5	16				898

1991 XZ		1991 12 14.74866	06 52 31.77	+30 18 09.4	16		898
1991 XZ		1991 12 30.57943	06 35 29.88	+30 17 15.1	16		898
1991 XZ		1991 12 30.60099	06 35 28.32	+30 17 14.7	16		898
1991 XZ		1992 01 01.77153	06 32 54.36	+30 14 07.1	16		898
1991 XZ		1992 01 01.78241	06 32 53.35	+30 14 08.0	16		898
1991 XZ		1992 01 02.63891	06 31 53.41	+30 12 42.2	16		898
1991 XZ		1992 01 02.66054	06 31 52.00	+30 12 41.7	16		898
1991 XZ		1992 01 04.55236	06 29 40.04	+30 09 04.9	16		898
1991 XZ		1992 01 04.57534	06 29 38.39	+30 09 04.2	16		898
1991 YJ	*	1991 12 30.49578	06 54 41.60	+21 42 58.9	16.5	N	898
1991 YJ		1991 12 30.50715	06 54 40.87	+21 43 06.3	16.5	N	898
1991 YJ		1992 01 01.71930	06 52 36.41	+21 58 28.5	15.5		898
1991 YJ		1992 01 01.74108	06 52 35.22	+21 58 36.4	15.5		898
1991 YJ		1992 01 02.54983	06 51 50.37	+22 04 13.2	16	N	898
1991 YJ		1992 01 02.57156	06 51 49.10	+22 04 24.2	16	N	898
1991 YK	*	1991 12 30.57943	06 32 48.31	+30 21 43.2	16.5		898
1991 YK		1991 12 30.60099	06 32 47.19	+30 21 48.8	16.5		898
1991 YK		1992 01 02.63891	06 29 43.65	+30 34 14.3	16		898
1991 YK		1992 01 02.66054	06 29 42.20	+30 34 20.8	16		898
1991 YK		1992 01 04.55236	06 27 49.16	+30 41 34.6	16.5	F	898
1991 YK		1992 01 04.57534	06 27 48.08	+30 41 38.8	16.5	F	898

* * * * *

ORBITAL ELEMENTS.

Orbital elements have been computed by the following contributors:

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The name of the orbit computer is shown on the line giving T for a comet and Epoch for a displayed minor-planet orbit; for many of the minor planets (O-C) residuals are shown in full (in R.A. and Decl.); observations are identified by date and observatory code, X referring to an approximate and Y to a semiaccurate position. For displayed minor planets "Id." shows those involved in establishing the identifications (generally with the principal contributors first), "k" indicating key identifications and "d" (only) double (or multiple) designations; no identifier is shown if only the orbit computer is involved and the results were not previously published. J-P

indicates that only the perturbations by the outer planets were considered, and a and n are then related by a gravitational constant augmented by the masses of the inner planets. For the one-opposition orbits, equinox 2000.0 is used, and the columns headed Arc and O show the time span in days covered by the observations and the number of observations utilized in the computation (0 = 10 or more). In the note column N, D means that there are double (or multiple) designations, E means that the value of the eccentricity was assumed, F means both; the double designations are listed at the end; the codes for the orbit computers (column C) are as listed above.

Comet McNaught-Russell (1990 XXII)

T 1990 Nov. 13.28739 TT				Marsden
q 6.9894895		(2000.0)	P	Q
	Peri.	149.32558	+0.80942061	+0.33491319
	Node	150.11481	-0.48792441	-0.07349457
e 1.0	Incl.	104.51494	+0.32675378	-0.93937836

From 20 observations 1991 Sept. 3-Nov. 26.

Comet Helin-Lawrence (1991l)

Epoch 1992 Jan. 19.0 TT = JDT 2448640.5				
T 1992 Jan. 20.02760 TT				Marsden
q 1.5177068		(2000.0)	P	Q
z -0.0002794	Peri.	271.15986	+0.00031275	+0.97893671
+/-0.0000044	Node	11.83495	+0.48507638	+0.17838690
e 1.0004240	Incl.	95.45667	-0.87447173	+0.09930274

From 77 observations 1991 Feb. 23-1992 Jan. 15, mean residual 0".81.

Comet Zanotta-Brewington (1991g1)

T 1992 Jan. 31.99136 TT				Nakano
q 0.6439681		(2000.0)	P	Q
	Peri.	197.87228	+0.05740059	-0.67023371
	Node	254.91078	+0.98374286	+0.16429525
e 1.0	Incl.	50.02720	+0.17016214	-0.72373603

From 153 observations 1991 Dec. 24-1992 Feb. 1.

Comet Bradfield (1992b)

T 1992 Mar. 19.53700 TT				McNaught
q 0.4991500		(2000.0)	P	Q
	Peri.	15.49100	+0.33861697	+0.87558866
	Node	275.30500	-0.89586575	+0.18806994
e 1.0	Incl.	20.24200	-0.28768579	+0.44494292

From 10 observations 1992 Feb. 2-5.

Comet Mueller (1991h1)

T 1992 Mar. 21.19786 TT				Marsden
q 0.1986067		(2000.0)	P	Q
	Peri.	307.02184	+0.26668767	+0.20243996
	Node	288.79645	-0.18415991	-0.94897296
e 1.0	Incl.	95.51811	-0.94602474	+0.24180236

From 55 observations 1991 Dec. 31-1992 Feb. 2.

Comet Helin-Alu (1992a)

T 1992 July 8.82296 TT				Marsden
q 2.9988852		(2000.0)	P	Q
	Peri.	240.23360	-0.79873333	-0.08605584
	Node	288.77435	+0.44916485	-0.74381241
e 1.0	Incl.	38.97376	-0.40034486	-0.66282538

From 20 observations 1992 Jan. 9-Feb. 2.

Comet Shoemaker-Levy (1991a1)
Epoch 1992 Aug. 6.0 TT = JDT 2448840.5
T 1992 July 24.55333 TT Marsden
q 0.8367203 (2000.0) P Q
z +0.0001689 Peri. 145.22740 -0.36646880 -0.62124316
+/-0.0000213 Node 49.05506 -0.91406831 +0.10139066
e 0.9998587 Incl. 113.50885 +0.17372316 -0.77703080
From 71 observations 1991 Oct. 6-1992 Feb. 2, mean residual 1".00.

One-opposition minor planets

Planet	H	Epoch	M	Peri.	Node	Incl.	e	a	Arc	O	N	C
1991 PH16	14.0	910812	8.44	354.90	335.41	6.62	0.1246	2.2120	41	6		W
1991 RV	15.0	910901	353.46	231.83	128.25	2.98	0.2374	2.3887	9	8		W
1991 RH1	15.5	910901	352.73	355.46	359.63	4.94	0.1964	2.2599	6	6	E	W
1991 RX1	14.0	910901	297.71	77.70	358.37	7.05	0.2334	2.3412	10	8		W
1991 RZ1	13.0	910921	65.17	75.05	184.79	22.93	0.1905	2.2997	33	0		W
1991 RF2	12.5	910901	308.16	82.13	329.18	9.85	0.0536	3.0997	11	7		W
1991 RG2	15.5	910901	340.12	62.92	316.04	5.46	0.1909	2.2566	11	7		W
1991 RP2	12.0	910921	94.84	49.79	213.14	9.42	0.0549	3.0020	30	0		M
1991 RS2	13.5	910921	277.11	243.03	210.36	6.48	0.0647	2.3066	30	0		M
1991 RT2	15.5	910921	34.82	82.41	229.56	4.31	0.1958	2.2387	30	0		M
1991 RU2	14.5	910921	201.94	270.60	255.02	4.48	0.0945	2.2784	28	0		M
1991 RV2	14.5	910921	49.96	10.06	276.60	3.88	0.2544	2.5762	28	0		M
1991 RY2	15.0	910921	17.61	60.53	280.33	3.84	0.1380	2.4825	28	0		M
1991 RE3	16.5	910921	11.60	26.07	317.78	4.45	0.2125	2.2439	25	9		M
1991 RL3	15.0	910921	9.35	11.55	338.12	8.57	0.1891	2.4565	25	9		M
1991 RO3	15.0	910921	91.04	294.56	328.84	6.23	0.0736	2.3357	27	0		M
1991 RP3	15.0	910921	12.28	121.13	220.31	4.89	0.2393	2.3432	27	0		M
1991 RG4	16.0	910921	18.04	57.49	279.76	1.51	0.2259	2.4162	27	0		M
1991 RB10	14.5	910921	20.37	36.29	300.70	4.55	0.1391	2.2958	25	9		M
1991 RW12	13.6	910921	66.03	100.22	187.97	3.77	0.0500	2.4264	5	6	E	E
1991 RX12	14.9	910921	10.94	145.90	197.10	2.47	0.1992	2.4399	5	8		E
1991 RY12	14.6	910921	36.09	320.46	346.35	4.57	0.2000	2.1820	5	8	E	E
1991 RZ12	14.5	910901	311.79	229.92	194.77	1.01	0.2293	2.3962	5	6	E	W
1991 RB13	13.5	910921	1.38	15.72	344.36	7.68	0.2335	2.7838	30	0		M
1991 RG14	14.1	910921	344.05	39.80	342.61	13.75	0.1907	2.5982	4	8		E
1991 RH14	14.3	910921	280.88	118.55	326.39	6.55	0.0654	2.3377	4	8		E
1991 RQ14	13.6	910921	9.05	284.14	59.96	1.90	0.1995	3.1424	5	8		E
1991 RR14	12.4	910921	166.40	119.80	69.48	2.91	0.0925	2.9891	5	8		E
1991 RT14	13.3	910921	321.81	233.69	169.54	13.99	0.0850	2.7368	5	8		E
1991 RZ14	13.1	910921	4.28	154.07	196.91	1.43	0.0500	2.9113	5	8	E	E
1991 RA15	12.6	910921	98.04	92.45	148.87	0.10	0.1500	3.0980	5	8	E	E
1991 RK15	14.6	910921	15.89	330.00	4.53	4.52	0.1716	2.2291	5	8		E
1991 RL15	13.7	910921	335.91	31.84	357.69	23.19	0.1492	2.9326	5	8		E
1991 RM15	14.6	910921	28.16	6.29	310.51	2.20	0.1956	2.4075	6	6		E
1991 RN15	15.3	910921	349.73	0.99	11.73	4.37	0.2000	2.3337	5	8	E	E
1991 RP15	13.6	910921	348.06	320.75	53.27	1.29	0.1598	3.0180	5	8		E
1991 RY15	13.1	910921	21.03	203.14	129.76	2.94	0.0779	2.8842	5	8		E
1991 RZ15	13.2	910921	37.11	250.11	54.38	2.11	0.2000	3.2142	5	8	E	E
1991 RA16	12.9	910921	241.05	7.41	121.39	4.96	0.1234	2.6706	3	8		E
1991 RB16	14.4	910921	18.98	294.58	37.97	3.86	0.1500	2.3107	3	8	E	E
1991 RD16	15.5	910921	352.51	215.65	154.48	4.69	0.1996	2.2078	10	0		N
1991 RE16	11.9	910921	115.16	84.02	153.20	11.13	0.0642	3.0064	3	8		E
1991 RF16	14.4	910921	8.76	281.60	64.63	3.91	0.1567	2.5983	3	8		E
1991 RG16	15.0	910921	38.57	253.14	48.27	4.70	0.2072	2.3276	2	6		E
1991 RH16	15.4	910921	18.34	176.50	155.63	3.42	0.1902	2.2130	6	5		E
1991 RK16	13.5	910921	12.29	280.71	62.23	2.81	0.1460	2.5838	10	6		N
1991 RH17	14.8	910921	106.82	218.39	21.65	3.66	0.0957	2.1533	5	6		E
1991 RJ17	14.1	910921	88.85	271.14	330.07	3.05	0.2270	2.2276	5	6		E

1991	RK17	15.3	910921	4.04	110.24	240.29	0.73	0.1112	2.4349	5	6		E
1991	RL17	15.4	910921	9.03	109.14	232.12	1.32	0.2389	2.3838	6	8		E
1991	RN17	14.8	910921	349.65	195.50	177.42	9.79	0.2264	2.3632	5	6		E
1991	RO17	13.8	910921	354.02	321.25	42.20	0.92	0.1500	3.0551	5	6	E	E
1991	RP17	14.2	910921	38.24	301.06	349.77	11.45	0.2862	2.5775	5	6		E
1991	RQ17	14.4	910921	326.83	63.86	350.78	18.96	0.2888	2.8593	6	6		E
1991	RR17	13.4	910921	17.03	323.99	8.67	9.18	0.1625	2.7498	5	6		E
1991	RS17	16.5	910921	356.80	112.83	245.38	1.22	0.1947	2.1583	4	6		E
1991	RT17	13.2	910921	7.66	81.58	259.10	1.46	0.1729	3.0223	4	6		E
1991	RU17	13.9	910921	343.13	178.80	191.41	3.28	0.0321	2.2443	4	8		E
1991	RV17	15.1	910921	3.26	22.60	325.66	1.91	0.2188	2.3587	4	8		E
1991	RW17	15.2	910921	8.97	143.95	198.29	2.78	0.0948	2.2023	4	8		E
1991	RA18	14.7	910921	358.22	137.94	218.71	2.80	0.1531	2.6402	3	6		E
1991	RL18	15.2	910921	328.36	230.79	181.52	9.21	0.3000	2.4637	3	6	E	E
1991	RM18	13.8	910921	329.83	222.06	182.22	11.96	0.2500	3.1957	3	6	E	E
1991	RV18	14.4	910921	28.81	0.59	317.83	6.83	0.1200	2.3352	3	6		E
1991	RB19	13.2	910921	191.68	183.41	340.97	17.18	0.0430	2.6753	3	8		E
1991	RC19	13.9	910921	342.16	74.05	309.52	4.81	0.2212	2.8519	3	8		E
1991	RE19	12.7	910921	86.88	265.69	338.24	12.26	0.2158	2.6967	3	8		E
1991	RS20	15.0	910921	351.80	304.20	63.99	2.20	0.2248	2.5991	3	8		E
1991	ST1	12.0	910921	101.02	334.06	250.56	1.68	0.3000	2.9049	3	6	E	E
1991	TG3	14.0	910921	73.80	266.07	351.88	13.15	0.2845	2.7068	7	9		M
1991	TH3	16.0	910921	335.96	192.32	213.29	7.45	0.2837	2.5322	6	0		M
1991	TK3	15.5	910921	140.99	252.51	327.78	6.75	0.0507	2.1789	4	8		M
1991	TL3	14.5	910921	347.31	91.79	289.10	5.04	0.1111	3.1008	4	8		M
1991	TC6	15.5	910921	330.64	77.59	332.11	7.24	0.2367	3.1120	7	6		M
1991	TD6	15.0	910921	159.94	293.46	266.91	2.71	0.0541	2.1628	7	6		M
1991	TE6	15.0	910921	321.37	163.39	262.00	3.69	0.2633	2.5867	7	6		M
1991	TF6	13.5	910921	121.81	33.85	202.72	12.75	0.0456	3.1192	7	6		M
1991	TG6	13.5	910921	240.01	289.76	204.24	11.91	0.1217	2.7159	7	6		M
1991	TH6	15.0	910921	21.66	87.19	245.80	2.93	0.1442	2.4016	7	6		M
1991	TJ6	15.5	910921	269.66	132.37	329.86	4.66	0.0811	2.3429	7	6		M
1991	TK6	14.0	910921	308.63	219.95	212.93	6.10	0.1846	3.0974	7	6		M
1991	TL6	14.0	910921	41.91	31.50	277.24	3.00	0.1403	2.8792	7	6		M
1991	TM6	15.5	910921	334.44	159.87	247.49	3.53	0.2787	2.6644	7	6		M
1991	TN6	13.0	910921	355.24	27.81	342.57	7.71	0.1421	3.8425	7	6		M
1991	TO6	14.0	910921	350.95	17.52	358.51	17.05	0.1401	3.2384	7	6	E	M
1991	TP6	13.5	910921	93.75	273.74	341.01	5.87	0.1408	3.0351	7	6		M
1991	TQ6	14.0	910921	183.40	255.72	286.04	3.87	0.0499	2.7387	7	6		M
1991	TS6	14.5	910921	222.51	307.22	205.43	12.08	0.0951	2.6727	7	6		M
1991	TT6	14.5	910921	182.85	321.94	224.19	4.17	0.0936	2.5099	7	6		M
1991	TU6	16.0	910921	33.15	34.50	281.68	1.79	0.2176	2.4660	7	6		M
1991	TV6	17.5	910921	349.92	24.23	355.84	5.02	0.1818	2.1856	7	6	E	M
1991	TW6	15.5	910921	52.28	289.81	354.81	6.24	0.2804	2.5103	7	6		M
1991	TY6	16.5	910921	321.87	190.15	229.59	4.07	0.1725	2.3239	7	6		M
1991	TZ6	14.0	910921	117.62	8.03	236.69	3.96	0.0571	3.1709	7	5		M
1991	TA7	14.0	910921	242.52	277.23	230.62	4.95	0.2533	3.0986	7	5		M
1991	TB7	14.5	910921	71.38	318.11	309.75	3.11	0.2552	2.7485	7	5		M
1991	TC7	15.5	910921	272.56	109.27	357.68	6.77	0.1009	2.3881	7	5		M
1991	TD7	16.0	910921	33.37	57.04	259.03	4.20	0.1693	2.1843	4	5		M
1991	TE7	16.5	910921	311.22	98.64	325.65	5.15	0.1311	2.1911	4	5		M
1991	TF7	13.0	910921	179.44	326.67	218.17	10.91	0.2087	2.5850	4	5		M
1991	TG7	16.0	910921	352.54	108.78	264.54	4.77	0.1187	2.5643	4	5		M
1991	TH7	17.0	910921	350.59	65.42	311.19	4.40	0.1793	2.1657	4	5		M
1991	TJ7	17.5	910921	2.59	6.86	350.03	7.05	0.2981	2.2977	4	5	E	M
1991	UT3	13.7	911120	29.22	272.75	102.73	4.40	0.1396	2.2353	32	0		N
1991	UB4	12.3	911031	270.32	314.55	188.40	3.54	0.1198	2.6560	9	6		N
1991	UC4	14.8	911031	348.11	187.89	234.07	6.74	0.3119	2.6597	9	6		N
1991	UD4	12.8	911031	77.76	247.03	35.79	3.27	0.3374	2.5170	11	6	E	N

1991	VG1	14.5	911031	347.42	32.85	30.36	5.97	0.2703	2.3817	36	0	W
1991	VQ1	13.3	911210	30.93	296.85	71.95	7.35	0.2075	2.2827	33	0	N
1991	VY1	14.0	911120	25.77	91.05	274.40	22.04	0.2802	2.3659	32	0	W
1991	VV2	13.0	911120	342.01	69.26	16.77	14.00	0.1722	2.5979	61	0	W
1991	VC3	13.5	911210	357.47	5.05	68.43	24.15	0.1974	2.3347	58	0	W
1991	VN3	14.3	911210	7.59	358.50	57.54	6.81	0.3192	2.5917	56	0	N
1991	VE4	14.3	911120	41.08	203.95	147.51	4.85	0.1918	2.2032	8	6	N
1991	VG4	13.9	911120	355.26	175.63	252.56	11.49	0.1461	2.5189	25	6	N
1991	VH4	12.3	911120	48.55	257.92	100.75	6.00	0.1262	2.9886	28	9	N
1991	VJ4	13.5	911120	85.11	278.67	42.61	7.00	0.1495	2.2856	24	6	W
1991	VK4	13.3	911120	39.64	68.03	304.61	3.38	0.1390	2.3285	21	8	N
1991	VN4	11.8	911120	32.26	277.67	93.60	11.62	0.1060	3.0057	35	7	N
1991	VO4	13.6	911120	20.86	171.27	216.79	12.89	0.1972	2.6299	30	7	N
1991	VU4	13.5	911120	22.05	251.30	129.72	3.77	0.2316	2.6191	32	6	W
1991	VW4	13.5	911120	63.75	235.77	98.90	7.54	0.1549	2.3735	35	0	W
1991	VY4	13.9	911120	345.34	332.93	99.20	3.67	0.1534	2.4472	8	6	N
1991	VA5	13.5	911031	314.33	32.41	79.22	14.41	0.1751	2.4393	28	0	W
1991	VB5	13.1	911031	25.51	183.88	195.14	14.88	0.1235	2.5520	26	6	N
1991	VC5	13.6	911120	333.25	28.59	52.82	7.10	0.1247	2.3454	3	8	N
1991	VD5	14.5	911031	18.39	243.39	117.74	3.58	0.1820	2.1599	5	6	E W
1991	VE5	13.9	911031	49.43	220.83	109.42	3.83	0.2007	2.2202	6	6	N
1991	VM5	14.3	911120	41.94	279.45	71.22	5.94	0.1702	2.2469	7	6	N
1991	VP5	14.0	911031	344.95	37.43	46.89	36.67	0.2516	2.8257	5	8	W
1991	VT5	15.0	911031	46.62	201.03	155.57	6.81	0.0744	2.5873	10	0	M
1991	VU5	15.0	911031	32.62	165.24	196.95	11.06	0.1933	2.6033	10	0	M
1991	VV5	13.0	911031	101.00	215.64	90.17	11.12	0.0443	3.0037	10	0	M
1991	VW5	14.0	911031	102.30	186.27	104.16	9.03	0.1836	2.5739	10	0	M
1991	VX5	13.5	911031	261.29	80.03	86.03	11.28	0.1309	2.9817	7	9	M
1991	VY5	15.5	911031	357.83	294.55	118.47	4.86	0.2203	2.5465	7	9	M
1991	VZ5	10.5	911031	96.18	207.32	101.62	15.04	0.0905	5.1999	10	9	M
1991	VA6	13.5	911031	59.00	222.08	102.64	11.08	0.2604	3.3349	10	9	M
1991	VB6	14.5	911031	62.21	169.49	149.82	6.17	0.2598	2.3728	10	0	M
1991	VC6	14.0	911031	79.87	202.83	101.99	8.64	0.2445	2.6507	10	0	M
1991	VD6	14.0	911031	13.91	274.59	119.30	7.92	0.1400	2.9545	10	9	M
1991	VF6	16.0	911031	14.62	312.11	69.67	17.51	0.2805	2.5685	10	0	M
1991	VG6	14.0	911031	302.42	287.19	191.81	8.89	0.0854	2.7768	6	9	M
1991	VH6	15.0	911031	39.95	185.52	172.56	7.84	0.1625	2.4854	6	8	M
1991	VJ6	14.0	911031	31.87	179.42	195.38	10.71	0.1178	2.7889	6	8	M
1991	VL6	15.0	911031	358.64	209.80	206.49	13.60	0.1507	2.5691	6	8	M
1991	VM6	13.5	911031	258.00	93.73	86.64	17.74	0.2152	2.6627	6	8	M
1991	WB	12.5	911210	26.37	314.59	79.36	35.86	0.3280	2.7476	43	0	N
1991	WD	13.4	911210	324.59	37.10	89.40	14.12	0.2187	2.6306	29	7	N
1991	XD	13.5	911210	4.10	12.50	65.44	22.59	0.1005	1.9329	35	8	W
1991	XE	13.5	911210	83.34	269.30	79.22	25.94	0.1036	1.8068	33	7	W
1991	XF	14.7	911210	350.84	17.07	68.66	6.17	0.2211	2.3593	10	6	N
1991	XH	12.7	911210	48.13	237.09	134.34	13.90	0.1634	2.6109	29	6	N
1991	XM	12.2	911210	92.99	76.04	244.01	14.79	0.1407	2.7551	10	6	E N
1991	XN	14.5	911210	0.83	17.17	65.01	8.62	0.2888	2.3203	35	9	W
1991	XP	13.9	911210	24.24	156.13	238.63	4.86	0.0841	2.1420	4	6	N
1991	XQ	14.4	911210	337.98	237.59	228.75	1.76	0.2953	2.4058	4	6	N
1991	XR	14.5	911210	1.80	155.13	280.00	24.32	0.2349	2.3936	28	6	W
1991	XS	12.6	911210	314.71	244.92	236.63	9.85	0.1421	3.0324	33	0	N
1991	XU	12.0	911230	297.45	251.30	288.71	11.90	0.1145	2.5980	45	0	W
1991	XW	12.8	911210	144.64	322.22	344.50	9.22	0.1144	2.2412	25	5	N
1991	XB1	13.7	911230	3.35	356.85	86.30	14.56	0.2040	2.6476	21	0	N
1991	XD1	15.4	911210	351.40	199.14	256.44	3.32	0.2533	2.2378	2	6	N
1991	YD	13.6	920119	1.28	118.11	352.70	5.36	0.1601	2.4630	41	0	N
1991	YE	13.5	911230	324.64	46.10	106.76	4.92	0.1603	2.6751	29	0	W
1991	YJ	14.5	911230	1.85	350.76	106.03	4.55	0.2416	2.2158	3	6	U

1991 YK	12.0	911230	356.77	32.59	69.65	9.27	0.1502	2.9967	5	6	U
1992 AG	12.4	920119	18.45	342.70	103.80	27.15	0.2444	2.3791	24	0	N
1992 AJ	11.1	920119	347.20	357.73	140.86	16.47	0.0340	3.2474	26	0	N
1992 AX	13.8	920119	285.13	108.46	117.95	11.39	0.2783	1.8391	29	0	N
1992 AY	11.5	920119	7.21	17.77	101.17	15.47	0.1514	3.1369	20	6	N
1992 AB1	13.4	920119	9.61	215.49	252.26	5.82	0.0704	2.3243	23	8	N
1992 AC1	13.4	920119	30.57	157.23	272.43	11.51	0.2680	2.6088	16	6	N
1992 AE1	12.8	920119	2.46	27.37	97.72	10.66	0.1950	2.7337	23	0	N
1992 AJ1	12.8	920119	277.99	303.70	273.15	5.08	0.0889	2.5207	14	6	N
1992 AL1	13.3	920119	16.90	345.76	111.87	6.66	0.0630	2.3448	25	0	N
1992 AO1	13.8	920119	18.42	41.27	62.48	4.09	0.2109	2.4107	25	6	N
1992 AQ1	13.0	920119	32.21	323.78	112.58	7.81	0.2748	2.8617	3	3	N
1992 AR1	12.9	920119	330.35	233.09	290.10	6.48	0.1893	2.6659	19	8	N
1992 AS1	11.8	920119	50.94	278.23	152.79	11.78	0.1026	2.7038	29	0	N
1992 AT1	13.3	920119	31.75	324.82	117.03	3.52	0.0823	2.2046	30	6	N
1992 BD	15.0	920119	347.60	17.01	78.76	29.24	0.1010	1.9987	2	9	M
1992 BG	13.1	920119	294.24	55.65	147.44	9.76	0.1713	2.3478	9	6	N
1992 BH	12.1	920119	334.53	11.21	141.60	17.28	0.1500	3.0701	9	6	N
1992 BO	13.5	920208	280.14	206.16	21.24	4.68	0.0686	2.2393	7	6	N
1992 BB1	13.5	920119	26.83	156.73	287.12	26.86	0.2094	2.4384	4	8	W
1992 BC1	14.0	920119	40.06	274.99	136.09	22.07	0.3048	2.3083	3	6	W

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(1269) Rollandia Obs. 114 M 173.71714 Peri. 25.46322
H 8.82 G 0.15 Opp. 23 n 0.12775105 Node 134.91429
rms res. 1".14 (M-C) 1907-1990 e 0.0985510 Incl. 2.75612

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(1653) Yakhontovia Obs. 33 M 335.09807 Peri. 88.20581
H 11.4 G 0.15 Opp. 11 n 0.23399982 Node 304.66161
rms res. 1".17 (M-C) 1937-1989 e 0.3267482 Incl. 4.06380

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(2464) Nordenskiold Obs. 50 M 210.82856 Peri. 78.95809
H 11.5 G 0.15 Opp. 11 n 0.17567770 Node 8.58127
rms res. 0".97 (M-C) 1938-1990 e 0.2197687 Incl. 0.86509

(5038)* 1948 KF = 1983 HP
Discovered 1948 May 31 by E. L. Johnson at Johannesburg.
Id. E. Bowell (MPC 8209)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M 175.54869	(2000.0)	P	Q
n 0.28069378	Peri. 218.88341	+0.24603949	+0.95359104
a 2.3101890	Node 65.97835	-0.83506597	+0.29946321
e 0.2821617	Incl. 10.95481	-0.49206646	-0.03139918
P 3.51	H 14.1	G 0.15	

Residuals in seconds of arc

480531	078	1.1+	1.4+	830507	688	1.1-	1.3-	911103	801	0.1-	0.3-
480609	078	0.7-	1.3+	841126	801	0.3+	0.6+	911106	801	0.0	0.2-
480613	078	0.5+	0.4+	841224	801	0.4-	0.8+	911106	801	0.3+	0.1+
480626	078	1.9-	0.7-	860206	801	0.4+	2.4+	920101	801	1.1-	0.4+
480630	078	1.8+	0.2-	900520	801	0.0	0.4+	920101	801	0.9+	0.5-
830418	688	0.7+	1.0-	900520	801	0.0	0.4+	920109	801	0.4+	0.5-
830418	688	0.7-	1.1-	911103	801	0.4-	0.3-	920109	801	0.4+	0.0

(5039)* 1967 GM1 = 1982 BG5 = 1983 GQ2
Discovered 1967 Apr. 11 by F. Borngen at Tautenburg.
Id. H. Kaneda (MPC 16020)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M 236.32595	(2000.0)	P	Q	
n 0.18840156	Peri. 168.81281	-0.28318442	+0.93864420	
a 3.0135591	Node 84.50883	-0.89448350	-0.18444274	
e 0.0579917	Incl. 11.40641	-0.34598532	-0.29142400	
P 5.23	H 12.5	G 0.15		

Residuals in seconds of arc

670411 033	0.7+	0.1-	820128 381	2.3+	2.7-	901119 413	0.0	0.2+
670411 033	0.7-	0.7+	820128 381	0.4+	0.1-	901119 413	0.0	0.7+
670411 033	2.5-	0.3+	820128 381	1.6+	2.1+	911111 033	2.6-	0.6+
670411 033	0.8+	0.6-	830411 095	0.0	1.0-	911111 033	1.0-	0.0
670415 033	(6.9-	0.4+)	900917 675	1.2-	1.3+	911210 033	0.3+	0.6-
670415 033	0.9-	0.9+	900917 675	1.8-	0.4-	911210 033	1.1-	0.2-
820126 381	0.3-	0.7-	901011 033	1.3+	0.4-	911212 033	0.7-	0.3-
820126 381	0.1+	1.5+	901012 033	0.6-	0.3-	920102 033	1.0-	1.0-
820126 381	0.8+	0.0	901012 033	2.0+	0.9-	920103 033	0.2-	1.0-
820126 381	1.6+	0.4+	901013 033	0.8+	0.4-			
820126 381	1.0+	0.1-	901014 033	0.8+	0.6+			

(5040)* 1972 RF = 1987 QE

Discovered 1972 Sept. 15 by T. Gehrels at Palomar.

Id. B. G. Marsden (MPC 12312)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M 114.58821	(2000.0)	P	Q	
n 0.26252161	Peri. 149.11613	+0.82201376	+0.56868060	
a 2.4156055	Node 175.83856	-0.56924132	+0.82203302	
e 0.2298173	Incl. 24.35790	-0.01605301	-0.02939541	
P 3.75	H 13.2	G 0.15		

Residuals in seconds of arc

710324 675	1.0-	1.8-	870920 675	1.4-	0.8+	870930 809	0.2+	0.0
710325 675	0.1+	0.2+	870922 809	0.7-	0.1-	871001 809	0.0	0.3+
710325 675	0.2+	0.9-	870922 809	0.5-	0.3-	871001 809	0.3+	0.3+
710326 675	0.8+	0.7-	870922 809	0.2-	0.0	871001 809	0.3+	0.2+
710327 675	0.1+	0.3-	870922 809	0.0	0.2-	871002 809	0.5+	0.6+
720915 675	0.1+	1.1-	870922 809	0.0	0.3-	871002 809	0.4+	0.5+
720916 675	0.1-	1.3-	870923 095	(0.6+	2.9-)	871002 809	0.6+	0.5+
720917 675	0.4+	0.3-	870924 809	0.3-	0.6-	871002 809	0.0	0.4+
720918 675	0.2-	1.4-	870924 809	0.2-	0.5-	871002 809	0.1+	0.4+
720919 675	0.7-	0.8-	870924 809	0.1-	0.2-	871002 809	0.4+	0.5+
720920 675	0.4+	0.8-	870925 809	0.2-	0.4-	871004 809	0.2+	0.7+
870824 675	(7.1-	0.2+)	870925 809	0.0	0.2-	871004 809	0.1+	0.7+
870826 675	(11.5-	1.8+)	870925 809	0.1+	0.3-	871004 809	0.1+	0.6+
870916 095	(0.4+	7.0-)	870927 809	0.3-	0.3+	871021 657	0.2-	0.9+
870917 809	0.9-	0.6+	870927 809	0.3-	0.0	910909 801	0.1+	0.3+
870917 809	0.9-	1.0+	870927 809	0.1-	0.0	910909 801	0.2+	0.3+
870917 809	0.9-	0.9+	870928 809	0.7+	0.7-	910913 801	0.2+	0.7-
870917 095	(1.7+	2.8+)	870928 809	0.6+	0.3-	910913 801	0.3+	0.9-
870918 675	1.5+	0.5+	870928 809	0.9+	0.3-	911004 801	0.2+	0.1-
870919 809	0.5-	0.6-	870929 809	0.3+	0.0	911004 801	0.0	0.1-
870919 809	0.4-	0.5-	870929 809	0.4+	0.1-	911008 801	0.4-	0.2-
870919 809	0.4-	0.5-	870929 809	0.3+	0.2-	911008 801	0.3-	0.1-
870919 675	0.7-	0.8-	870930 809	0.8+	0.3+			
870919 675	0.2+	0.1+	870930 809	0.6+	0.3+			

(5041)* 1973 SW1 = 1989 CJ2

Discovered 1973 Sept. 19 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. C. M. Bardwell (MPC 14942)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	100.87514	(2000.0)	P	Q
n	0.08497528	Peri. 104.91818	-0.69625935	-0.71190118
a	5.1239826	Node 29.87079	+0.56716755	-0.62399130
e	0.0370811	Incl. 10.61666	+0.43993622	-0.32222905
P	11.60	H 10.5	G 0.15	

Residuals in seconds of arc

730919	675	0.7+	0.2+	731004	675	1.1-	0.7-	900330	675	0.2-	1.2-
730919	675	2.5+	2.1-	731004	675	0.2-	0.4-	900330	675	2.0-	0.2+
730920	675	0.1-	0.0	731005	675	1.3+	0.9-	910312	675	0.9+	1.1+
730924	675	1.3-	0.2-	731005	675	0.2+	0.3+	910312	675	0.3-	0.6+
730924	675	0.4+	0.0	890108	675	0.8-	1.1+	910419	809	0.2-	0.7-
730925	675	0.8+	1.1-	890108	675	0.3+	0.3+	910419	809	0.5+	0.5-
730925	675	0.5+	0.6+	890201	675	1.3+	0.6-	910419	809	0.5+	0.6-
730929	675	(5.3+	5.1-)	890307	675	0.6-	0.0	910419	675	0.5-	1.0-
730929	675	0.1+	0.2-	890308	675	0.5-	1.8-	910419	675	1.1-	0.5-
730930	675	0.9+	0.6-	900220	675	0.6+	0.8-	910517	675	1.1-	0.5-
730930	675	0.7-	1.1-	900220	675	0.7+	0.3-	910517	675	1.7-	2.0-

(5042)* 1974 ME = 1929 WT = 1952 DF2 = 1984 JK2 = 1987 YJ5

Discovered 1974 June 20 at El Leoncito.

Id. H. Kaneda (MPC 15874)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	169.61440	(2000.0)	P	Q
n	0.18922854	Peri. 174.35638	-0.15122869	+0.96975121
a	3.0047727	Node 86.83970	-0.91427119	-0.06352623
e	0.0546078	Incl. 11.06350	-0.37581654	-0.23568414
P	5.21	H 11.5	G 0.15	

Residuals in seconds of arc

291127	690	0.6-	0.2-	740716	808	0.4-	0.6-	871224	010	0.5+	0.1-
291203	690	1.0+	0.3-	740716	808	0.7-	0.2-	911010	801	0.2+	0.2-
520226	711	0.8-	0.6- Y	740717	808	0.9-	0.7-	911010	801	0.2+	0.2-
740620	808	0.3+	0.8-	740717	808	1.0+	0.4-	911106	801	0.0	0.5-
740620	808	0.7+	0.3-	840504	095	(3.8-	0.1+)	911106	801	0.3-	0.5-
740622	808	0.1-	0.1-	871224	010	0.9-	0.5-				
740622	808	0.2-	0.5+	871224	010	0.8+	0.8-				

(5043)* 1974 SB5 = 1985 TK1

Discovered 1974 Sept. 19 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. E. Bowell (MPC 10380)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	102.43936	(2000.0)	P	Q
n	0.18027424	Peri. 289.33835	+0.94333212	+0.33086093
a	3.1034656	Node 51.34905	-0.29083554	+0.86143327
e	0.1699920	Incl. 1.87876	-0.15980986	+0.38530997
P	5.47	H 12.4	G 0.15	

Residuals in seconds of arc

740919	095	(3.0-	3.9-)	851015	688	1.0-	0.1-	911108	801	0.5+	0.6+
740921	808	1.2-	0.5+	851107	688	0.7+	0.5-	911108	801	0.6+	0.7+
740921	808	0.2-	0.7+	851107	688	0.2+	0.4-	911206	675	1.9-	0.5+
740921	095	(0.2+	7.0-)	900817	801	0.0	0.0	911206	675	0.6-	0.2-
740923	095	(0.7+	8.5-)	900817	801	0.3-	0.1+	920102	801	0.5+	0.0
741019	808	0.2+	0.2+	900822	801	0.3+	0.2-	920102	801	0.1+	0.3-
741019	808	0.3+	0.7+	900822	801	0.1+	0.2-	920108	801	0.9+	0.5-
851012	688	0.7+	0.5-	911106	801	0.1-	0.2+	920108	801	0.1+	0.7-
851015	688	0.6+	1.0-	911106	801	0.1+	0.2+				

(5044)* 1977 QH4 = 1977 TR = 1986 EG5

Discovered 1977 Aug. 18 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. C. M. Bardwell (d, MPC 9458; MPC 12143)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	98.81630	(2000.0)	P	Q	
n	0.29374719	Peri.	42.88166	+0.88436151	-0.46603986
a	2.2412325	Node	344.83121	+0.39593256	+0.77914184
e	0.1051676	Incl.	5.85119	+0.24726936	+0.41921933
P	3.36	H	13.5	G 0.15	

Residuals in seconds of arc

770818	095	2.0-	0.4+	860310	809	(4.2+	2.2-)	890201	552	(0.5-	28.0+)
770905	808	0.1+	0.4+	860310	809	1.5+	0.7-	890201	552	0.1-	1.4-
770905	808	0.2-	0.7-	860314	809	(10.7-	0.0)	911004	801	0.0	0.2-
770911	808	2.0+	1.2+	860314	809	0.4-	2.0+	911004	801	0.1+	0.1-
770911	808	0.6-	0.4+	890128	552	1.8+	0.1-	911007	801	0.1+	0.1-
770913	808	1.5+	0.2+	890128	552	0.1+	2.8+	911007	801	0.1-	0.2-
770917	808	0.8-	0.2-	890129	552	0.2-	0.2+	911107	801	0.3+	0.1+
771009	809	0.4-	0.8-	890129	552	1.2-	1.1-	911107	801	0.6+	0.2+
860305	809	1.8-	0.3-	890130	552	1.2+	1.4+	911110	801	0.2-	0.7-
860305	809	0.3-	2.5-	890130	552	0.2-	0.8+	911110	801	0.8-	0.6-

(5045)* 1978 UL2 = 1961 UQ = 1986 EJ3 = 1989 SW4

Discovered 1978 Oct. 29 at the Purple Mountain Observatory.

Id. C. M. Bardwell (MPC 15404)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	166.62299	(2000.0)	P	Q	
n	0.17704072	Peri.	264.24495	+0.81788822	-0.57438027
a	3.1411398	Node	130.80597	+0.54401863	+0.75281314
e	0.1858793	Incl.	2.56353	+0.18735685	+0.32149602
P	5.57	H	12.8	G 0.15	

Residuals in seconds of arc

611018	760	1.4+	1.9+	890926	809	1.1-	2.1-	910122	675	0.3+	0.5-
611018	760	1.6-	1.5-	890928	809	0.4+	0.7+	910209	675	0.2+	0.9-
781009	095	(3.7-	1.3+)	890928	809	0.3+	0.4-	910209	675	0.1-	1.0-
781028	675	1.0+	0.3+	890928	809	0.1+	0.2-	910308	809	0.3+	0.7+
781029	675	0.6+	0.7+	891003	809	1.0+	1.2+	910308	809	0.8+	0.4+
781029	330	0.1-	1.1+	891003	809	0.5+	1.1+	910308	809	1.7+	0.2+
781101	095	2.4-	1.1-	891003	809	0.2+	1.0+	910310	809	1.5-	0.6+
781103	330	0.7+	0.4+	910115	033	1.2+	0.5-	910310	809	1.5-	0.7+
860312	809	0.3+	0.5+	910115	033	0.6-	0.8-	910310	809	1.5-	0.9+
890926	809	0.1-	1.6-	910117	033	0.1+	0.2-				
890926	809	0.8-	1.3-	910122	675	0.0	0.3-				

(5046)* 1981 DQ = 1979 YR6 = 1987 UW9

Discovered 1981 Feb. 28 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Id. H. Kaneda (MPC 16423), H. Oishi (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	27.04357	(2000.0)	P	Q	
n	0.23819648	Peri.	187.85742	+0.64687760	-0.74668450
a	2.5773841	Node	222.02247	+0.71165120	+0.66409261
e	0.0653260	Incl.	13.38414	+0.27404732	+0.03799044
P	4.14	H	12.6	G 0.15	

Residuals in seconds of arc

791223	095	0.4-	0.7-	810228	413	1.0+	0.6-	810308	413	0.7+	0.7-
810204	413	0.8-	0.5-	810306	413	0.3+	0.8-	810312	413	0.5-	0.3+
810209	413	0.1-	0.7-	810306	413	(0.6+	3.2-)	810312	413	1.2+	0.8-
810228	413	0.7-	0.7+	810308	413	0.7-	1.0+	810407	413	0.4-	2.4+

810407	413	1.2+	0.2+		871018	399	0.9-	0.5-		910910	801	0.3-	0.2+
810408	413	0.4-	1.8+		871023	399	1.1+	1.3-		910913	801	0.3-	0.3+
810408	413	1.3+	0.0		871023	399	1.6+	0.6+		910913	801	0.4-	0.4+
810409	413	1.0-	0.4+		871023	399	0.1+	1.4-		911009	801	0.1-	0.1+
810409	413	0.3-	0.8-		900625	801	0.1+	0.6-		911009	801	0.1-	0.1+
810501	413	0.0	0.4-		900625	801	0.5+	1.4-		911011	801	0.0	0.4+
810503	413	1.1-	1.9-		900626	801	0.2-	0.2+		911011	801	0.0	0.3+
871018	399	0.9-	0.7-		900626	801	0.2+	0.1-					
871018	399	0.7+	0.9+		910910	801	0.5-	0.1+					

(5047)* 1981 EO42 = 1983 VJ2 = 1985 FV2

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

Id. G. V. Williams (MPC 18420)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	66.05967	(2000.0)	P	Q	
n	0.24467867	Peri. 26.72076	+0.83452383	-0.55085673	
a	2.5316596	Node 6.73827	+0.48678620	+0.72757688	
e	0.1355816	Incl. 5.50792	+0.25808752	+0.40888720	
P	4.03	H 13.3	G 0.15		

Residuals in seconds of arc

791122	675	0.3+	0.2-		810405	413	0.7-	0.7+		831108	381	0.6+	1.5-
791124	675	0.1+	0.3+		810405	413	(4.4+ | 0.5-)		850322	801	(2.4- | 3.7+)
791125	675	0.4-	0.6+		810406	413	0.7-	0.6+		871024	801	0.4-	0.6-
810209	413	0.8+	0.1+		810406	413	1.7+	0.1-		871028	095	0.2+	1.8+
810212	413	0.2+	0.5+		810407	413	0.2-	0.2+		911103	801	0.1-	0.5+
810213	413	0.6+	0.4+		810407	413	(4.0+	0.2-)		911103	801	0.2-	0.6+
810302	413	1.1-	1.2-		810410	413	0.8-	1.7+		911108	801	0.2+	0.0
810302	413	0.3+	1.6-		810410	413	1.8+	0.2+		911108	801	0.1+	0.1-
810306	413	0.1+	1.1+		810426	413	(5.0+	1.3-)		920108	801	0.1+	0.3-
810311	413	0.3-	0.9-		810501	413	0.7-	0.1-		920108	801	0.0	0.5-
810311	413	0.3+	0.4-		810501	413	(2.8-	0.2+)		920109	801	0.0	0.2-
810315	413	1.3-	0.0		810503	413	1.3-	0.1-		920109	801	0.0	0.4-
810315	413	1.3+	0.5-		831108	381	0.5-	0.0					

(5048)* 1981 GC = 1951 EJ1 = 1972 BA = 1977 KJ1 = 1978 TV1

Discovered 1981 Apr. 1 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. E. Bowell (k, MPC 10831), B. G. Marsden (ibid., unpublished)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	213.49068	(2000.0)	P	Q	
n	0.23192980	Peri. 271.93431	-0.82578480	+0.56361344	
a	2.6236043	Node 302.37233	-0.50732952	-0.75820083	
e	0.1775381	Incl. 1.38934	-0.24636603	-0.32782829	
P	4.25	H 13.2	G 0.15		

Residuals in seconds of arc

510310	760	0.9-	0.3+		810409	688	1.0-	1.7-		910913	033	0.3+	0.2-
510310	760	2.2+	0.1-		810409	688	0.0	1.3-		910914	033	0.0	0.4+
720117	095	2.9-	0.6-		810502	688	0.2-	1.8-		910915	033	0.5+	0.2-
770518	675	1.3-	0.4+		810502	688	0.1+	2.1-		910915	033	0.4-	0.2-
770519	675	(20.4-	4.3+)		890126	046	0.4+	1.4+		910918	033	0.2+	0.2-
781008	095	(3.5-	1.3+)		890126	046	2.5+	0.7+		911003	033	0.7+	0.3+
810401	688	0.6-	3.9+		890127	046	1.0-	0.1+		911004	033	0.5+	0.1+
810401	688	(3.1-	3.4+)		890127	046	0.2+	0.0		911004	033	0.5+	0.1-
810405	688	0.8+	0.1-		890128	046	0.2-	1.5-		911109	675	0.3+	1.5-
810405	688	0.3+	0.3-		890128	046	1.0-	0.1-		911109	675	0.4+	1.3-
810407	688	0.4-	0.7-		910913	033	0.2-	0.1-		911110	675	0.1+	1.5-
810407	688	0.3+	0.9-		910913	033	0.0	0.1-					

(5049)* 1981 VC1 = 1981 UO10 = 1971 QF = 1977 KG1

Discovered 1981 Nov. 2 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. L. D. Schmadel (d, MPC 10022), K. Hurukawa (d, ibid.), E. Bowell (k, MPC 10831), B. G. Marsden (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	111.47242	(2000.0)	P	Q
n	0.30222226	Peri. 316.02980	+0.99314848	-0.10996430
a	2.1991343	Node 50.32564	+0.11628847	+0.89657748
e	0.1607492	Incl. 2.94518	+0.01153624	+0.42901826
P	3.26	H 13.6	G 0.15	

Residuals in seconds of arc

710816	095	1.5-	1.0+	811029	330	(4.1+	3.4+)	911007	801	0.6-	0.0
770518	675	0.7-	2.2-	811102	688	(1.1+	2.8-)	911007	801	0.5-	0.1+
770519	675	0.3+	0.7-	811102	688	(2.8+	3.3-)	911009	801	0.1-	0.1-
810928	095	0.7-	2.2+	890115	399	0.5+	1.6-	911009	801	0.7-	0.3-
811006	095	(0.2+	2.8+)	890115	399	1.1-	0.7-	911103	801	0.1+	0.4+
811006	095	0.0	1.2-	890130	399	1.6+	1.2+	911103	801	0.1+	0.3+
811021	095	2.6+	1.3-	890130	399	0.6-	1.6+	911106	801	0.1-	0.8-
811026	095	(1.4+	3.6+)	890130	399	1.6+	0.6+	911106	801	0.1+	0.1-
811027	095	0.6+	1.2-	890130	399	1.9-	0.5-				

(5050)* 1983 RD2 = 1972 TA7 = 1985 DB3 = 1987 UQ9 = 1987 WL1 = 1990 HR2

Discovered 1983 Sept. 14 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. H. Kaneda (MPC 17629), S. Nakano (d, ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	93.83299	(2000.0)	P	Q
n	0.26491214	Peri. 138.33582	+0.72968361	-0.68361903
a	2.4010515	Node 264.79796	+0.62329344	+0.67402819
e	0.1186332	Incl. 0.86656	+0.28118876	+0.27991252
P	3.72	H 13.1	G 0.15	

Residuals in seconds of arc

721006	095	(2.8-	4.0+)	850224	675	(11.2-	0.9-)	900430	413	0.1+	1.2+
830903	095	0.9+	1.0-	850227	675	1.6-	2.0+	911103	801	0.0	0.3-
830910	095	1.6+	2.3+	850227	675	2.4+	0.0	911107	801	0.2-	0.7-
830913	095	0.9-	0.8+	871028	095	0.2+	0.2-	911107	801	0.1-	0.7-
830914	688	0.9-	0.7-	871122	688	2.0-	2.0+	911205	801	0.5-	0.7-
830914	688	0.2-	1.8-	871122	688	0.5+	2.0+	911205	801	0.4+	1.4-
850224	675	(11.3-	0.1-)	900427	413	0.4-	0.1+				

(5051)* 1984 SM = 1949 OH1

Discovered 1984 Sept. 24 by K. Augustesen, P. Jensen and H. J. Fogh Olson at Brorfelde.

Id. K. W. Fabrin (MPC 10513)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	116.61901	(2000.0)	P	Q
n	0.28381185	Peri. 48.02195	+0.74259840	+0.66187041
a	2.2932375	Node 270.26635	-0.64075899	+0.65765727
e	0.1437021	Incl. 5.87448	-0.19487312	+0.35974225
P	3.47	H 13.3	G 0.15	

Residuals in seconds of arc

490725	690	(3.5+	2.4-)	881207	801	0.0	0.7+	881211	399	1.0-	0.6+
490726	690	0.4-	0.8-	881207	399	(3.4-	0.3+)	881211	399	0.6-	1.2-
490729	690	1.1+	1.1-	881207	399	1.2-	1.5-	881211	399	0.5+	0.5-
840924	054	1.8-	1.2-	881207	399	1.4+	0.9+	881212	054	0.5+	0.4-
840929	054	0.3-	0.5+	881207	399	0.8+	0.9-	881213	054	0.4-	0.4+
841026	054	1.8+	2.2+	881210	801	0.0	0.5-	890106	801	1.5-	0.1-
881201	054	0.3+	0.7+	881211	399	(2.9-	0.4-)	890110	054	0.5+	0.2+

890110 054 0.6+ 0.5- 910913 675 0.2- 0.3- 910917 657 0.6+ 0.9-
910812 801 0.5+ 0.6+ 910913 675 0.4+ 0.0 910919 894 0.7- 0.2+
910812 801 0.6+ 0.6+ 910915 675 0.4+ 0.7- 910919 894 1.7- 0.0
910909 801 0.5+ 0.7+ 910915 675 0.5+ 0.7- 910928 894 1.0- 0.9-
910909 801 0.4+ 1.0+ 910916 894 1.0- 0.3- 910928 894 0.3- 0.4+
910910 801 0.5+ 0.7+ 910916 894 0.9- 0.8-
910910 801 0.7+ 0.8+ 910917 657 1.2+ 0.0

(5052)* 1984 UT3 = 1950 TP = 1957 WP = 1989 ER6
Discovered 1984 Oct. 23 by C. S. Shoemaker at Palomar.
Id. H. Kaneda (MPC 15884)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	112.72941		(2000.0)	P	Q
n	0.29053784	Peri.	35.04313	+0.99713969	-0.05346183
a	2.2577070	Node	327.89501	+0.02180809	+0.88031572
e	0.1965567	Incl.	5.76931	+0.07236607	+0.47136616
P	3.39	H	13.7	G 0.15	

Residuals in seconds of arc
501006 024 0.5+ 0.7- 841027 675 0.4- 0.3- 920102 801 0.2- 0.2-
571126 760 0.3+ 1.5+ 890305 033 0.6+ 0.2- 920102 801 0.1- 0.1-
571126 760 0.6- 0.2- 890305 033 0.2- 0.7+ 920107 801 1.6- 1.3+
840927 675 1.1- 0.7+ 911109 675 0.7+ 1.8- 920107 801 0.4- 0.5+
840927 675 0.9+ 1.0+ 911109 675 (0.2- 3.4-)
841023 675 0.3- 0.5+ 911111 675 1.0+ 2.7-

(5053)* 1985 FB2 = 1981 DA4 = 1990 QW6
Discovered 1985 Mar. 22 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.
Id. B. G. Marsden (MPC 17436)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	0.10486		(2000.0)	P	Q
n	0.26498224	Peri.	10.98739	-0.94567523	-0.30986043
a	2.4006280	Node	150.37543	+0.28115315	-0.93143821
e	0.1657918	Incl.	11.48359	+0.16325217	-0.19081241
P	3.72	H	13.2	G 0.15	

Residuals in seconds of arc
790920 675 1.2- 0.3- 900816 809 1.5- 1.9- 900914 809 0.7+ 1.0+
790921 675 0.0 0.3- 900820 809 1.7+ 1.3- 900915 809 0.4- 1.2+
810223 095 1.0+ 0.9+ 900820 809 1.4+ 1.3- 900915 809 0.1+ 1.1+
850322 688 0.7+ 0.2- 900820 809 0.7+ 1.5- 900915 809 0.4+ 1.0+
850322 688 0.4+ 0.4+ 900823 675 0.6- 1.3+ 911107 801 0.3- 0.3-
850414 688 0.5- 1.0- 900823 675 1.0- 0.0 911107 801 0.1- 1.0-
850414 688 0.1+ 0.8- 900826 809 0.5+ 0.4- 920101 801 0.3+ 0.1-
850423 688 1.6- 1.7- 900826 809 0.3- 1.5- 920101 801 0.3+ 0.1-
850423 688 0.6- 0.3- 900826 809 0.3+ 1.4- 920108 801 0.6+ 1.3-
900816 809 0.4+ 0.2+ 900914 809 0.3+ 1.2+ 920108 801 1.4- 0.7-
900816 809 0.5- 2.3- 900914 809 0.4+ 1.2+

(5054)* 1986 AO2 = 1988 TA5
Discovered 1986 Jan. 12 by E. Bowell at the Anderson Mesa station of the Lowell Observatory.
Id. S. J. Bus (MPC 15413)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	276.18354		(2000.0)	P	Q
n	0.25618772	Peri.	85.26625	+0.15976303	-0.98710253
a	2.4552582	Node	355.50195	+0.84619217	+0.14227141
e	0.1451370	Incl.	7.48484	+0.50836462	+0.07339915
P	3.85	H	13.7	G 0.15	

Residuals in seconds of arc

710324	675	1.6-	0.6+		860112	688	1.1-	0.2+		900123	801	0.5-	1.2-
710325	675	(2.7-	0.4-)		860112	688	0.8-	0.3-		900123	801	0.4-	0.7+
710325	675	(2.9- | 0.9+)		860306	675	0.6+	1.4-		900127	801	(0.0 | 2.6-)
710326	675	0.3-	0.1+		860306	675	1.7+	1.1+		900127	801	1.3-	0.0
710327	675	0.8-	1.3-		860308	675	(4.4-	1.4-)		900326	801	0.6+	0.2+
710402	675	0.3-	0.5+		860308	675	(3.6-	0.9+)		900326	801	0.7+	0.3+
710416	675	0.3+	1.2-		881006	807	0.0	0.9-		900327	801	0.3+	0.2+
710416	675	0.4+	0.8-		881007	807	0.1-	1.7-		900327	801	0.5+	0.2+
710513	675	1.1-	0.0		881104	807	1.3+	0.6-					
710514	675	1.5+	1.5-		881106	807	1.1+	0.4-					

(5055)* 1986 PB5 = 1975 RA1 = 1979 HR1 = 1981 TQ4 = 1989 BQ1

Discovered 1986 Aug. 13 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. D. W. E. Green (MPC 14475)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Green

M	50.25723	(2000.0)	P	Q	
n	0.18160237	Peri.	176.13889	+0.63075655	+0.77509638
a	3.0883159	Node	132.96241	-0.71329723	+0.59793665
e	0.1731534	Incl.	2.90105	-0.30553762	+0.20419932
P	5.43	H	12.0	G 0.15	

Residuals in seconds of arc

750903	095	0.9+	2.1-		860912	095	0.9-	1.4-		890305	033	0.7-	0.3-
750906	095	0.9+	1.6-		890129	046	(13.1-	0.7-)		910513	801	0.5+	2.0-
790420	095	1.7-	0.7-		890129	046	(11.9-	3.2-)		910513	801	0.3+	0.2-
811007	095	2.2+	0.8+		890130	046	(9.8-	1.3-)		910609	801	0.4+	0.6+
860812	095	(4.6- | 6.5+)		890130	046	(10.0- | 1.5-)		910609	801	1.5+	0.2-
860813	095	0.2+	0.8+		890131	046	(0.6-	5.8-)		910614	801	0.1-	0.6+
860830	095	1.6-	0.1+		890131	046	1.3-	2.4-		910614	801	0.2-	0.8+
860907	095	1.5-	0.8-		890305	033	1.4+	1.2-					

(5056)* 1986 RQ5 = 1982 UE1 = 1982 VH9 = 1988 DC = 1990 OS2

Discovered 1986 Sept. 9 by H. Debehogne at the European Southern Observatory.

Id. E. Bowell (k, MPC 16872), G. V. Williams (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	52.94170	(2000.0)	P	Q	
n	0.22987641	Peri.	21.22576	+0.06692113	-0.99116551
a	2.6392049	Node	65.08795	+0.89628147	+0.00928994
e	0.1981649	Incl.	7.25337	+0.43840744	+0.13230503
P	4.29	H	12.9	G 0.15	

Residuals in seconds of arc

821021	688	0.4+	0.5-		860912	809	1.4+	0.2-		900730	675	0.6-	0.2-
821021	688	0.5+	0.0		860912	809	1.2+	0.4-		900914	675	0.0	0.7-
821110	095	0.0	0.1+		860914	809	0.7-	0.3-		900914	675	1.5+	1.3-
860909	809	0.9-	1.3+		860914	809	0.8-	0.2-		911103	801	0.2-	0.2+
860909	809	0.9-	1.2+		860914	809	0.5-	0.3-		911103	801	0.3-	0.1+
860909	809	1.1-	1.1+		880219	877	1.2+	2.5+	Y	911106	801	0.3-	0.2-
860909	809	0.9-	1.0+		880219	877	0.6+	3.0+	Y	911106	801	0.1-	0.4-
860909	809	0.9-	0.9+		900728	675	0.2-	1.1+		911205	801	0.2-	0.1+
860909	809	0.9-	1.0+		900728	675	0.6-	0.7+		911205	801	0.1+	0.1-
860912	809	1.3+	0.1-		900730	675	0.0	0.8+		911212	894	1.2+	0.3-

(5057)* 1987 DC6 = 1937 CC = 1959 CG = 1976 GM

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

Id. B. G. Marsden (MPC 13307)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	45.88365	(2000.0)	P	Q
n	0.17759019	Peri. 285.45640	+0.11981401	-0.99170172
a	3.1346573	Node 157.50372	+0.95118254	+0.10121594
e	0.1360671	Incl. 6.99665	+0.28442287	+0.07926553
P	5.55	H 11.3	G 0.15	

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

370210	008(97.4-	1.9+)X	870228	809	0.6-	0.1+	870308	809	0.1+	0.6-
370211	008(83.1-	40.2+)X	870228	809	0.4-	0.0	870309	809	0.5+	0.4-
370219	008(62.7-	83.3+)X	870228	809	0.1-	0.3-	870309	809	0.7+	0.4-
370304	008 (0.6+	22.1+)X	870301	809	0.1+	0.3-	870309	809	0.8+	0.3-
370315	008(0.10+	0.03-)X	870301	809	0.1+	0.0	870311	809	1.1+	0.5-
590208	024	0.5+ 1.2+	870301	809	0.2+	0.1-	870311	809	1.0+	0.5-
760401	095	1.5+ 1.7+	870303	809	0.2-	0.8-	870311	809	1.4+	0.6-
760404	095	1.8- 1.2+	870303	809	0.0	0.6-	900914	675	0.6-	1.5-
870222	809	0.8- 0.5-	870303	809	0.0	0.5-	900914	675	0.9-	0.9-
870222	809	0.8- 0.5-	870304	809	0.1-	0.6-	900918	675	0.1-	1.5-
870222	809	0.2- 0.5-	870304	809	0.3-	0.3-	900918	675	0.5-	0.9-
870223	809	0.5- 0.5-	870304	809	0.2-	0.2-	900925	809	1.9+	2.4-
870223	809	0.6- 0.9-	870305	809	0.9-	0.4-	900925	809	2.4+	2.3-
870223	809	0.7- 0.8-	870305	809	0.8-	0.4-	900925	809	1.6+	2.6-
870224	809	0.8- 0.2+	870305	809	0.8-	0.6-	911205	801	0.2-	0.6+
870224	809	0.6- 0.3+	870306	809	0.1-	0.2-	911205	801	1.1-	0.1+
870224	809	0.4- 0.3+	870306	809	0.1-	0.3-	911230	511	0.5-	1.4+
870226	809	0.0 0.4-	870306	809	0.0	0.3-	911230	511	0.5-	1.4+
870226	809	0.3+ 0.5-	870307	809	0.1-	0.6-	920102	511	1.2+	0.8+
870226	809	0.4+ 0.5-	870307	809	0.1+	0.8-	920102	511	1.2+	1.3+
870227	809	0.2- 0.6-	870307	809	0.0	0.7-	920108	801	0.2-	0.2+
870227	809	0.0 0.6-	870308	809	0.1-	0.2-	920108	801	0.3-	0.0
870227	809	0.2+ 0.6-	870308	809	0.2-	0.6-				

(5058)* 1987 OM = 1950 TR3 = 1970 NG

Discovered 1987 July 28 by T. Seki at Geisei.

Id. B. G. Marsden (MPC 12207)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	138.10793	(2000.0)	P	Q
n	0.29114695	Peri. 244.27471	+0.98701299	+0.10901680
a	2.2545570	Node 109.28140	-0.06031672	+0.93223604
e	0.2315513	Incl. 7.18060	-0.14888667	+0.34503813
P	3.39	H 13.9	G 0.15	

Residuals in seconds of arc

501013	760	0.7+ 0.9-	870826	372	2.6+	0.7+	920112	372	2.1-	0.0
700714	095	0.7- 2.9-	870916	372	(5.1+	1.8-)	920112	372	(4.5-	1.1+)
870728	372	2.6- 1.1+ Y	870916	372	(3.6+	0.3-)	920114	372	1.4-	1.1+
870728	372	0.6+ 0.6+ Y	870917	372	(3.6+	1.9-)	920114	372	(3.7-	2.2+)
870730	372	1.5+ 1.7-	890204	372	1.9+	0.1+	920124	894	0.2+	0.7+
870730	372	(0.3- 2.8-)	890204	372	(5.6+	0.4+)	920124	894	0.0	0.6-
870805	372	0.8- 0.1-	890213	372	0.3+	1.0-	920124	894	0.6+	0.2+
870805	372	0.8- 0.3+	890213	372	0.6-	0.1+	920126	894	(7.2+	0.0)
870814	372	(2.6- 0.7+)	890214	372	(7.7-	4.1+)Y	920126	894	0.7+	0.4-
870814	372	1.5- 1.5+	920110	894	0.3+	0.1+				
870826	372	1.2+ 0.1-	920110	894	0.1-	1.4-				

(5059)* 1988 AF = 1986 SF3

Discovered 1988 Jan. 11 by K. Endate and K. Watanabe at Kitami.

Id. L. G. Karachkina (MPC 14791)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 44.96966	(2000.0)	P	Q	
n 0.23597087	Peri. 158.51310	-0.08249667	-0.97691554	
a 2.5935649	Node 295.75960	+0.87951438	+0.02161783	
e 0.1334360	Incl. 12.63839	+0.46866700	-0.21252930	
P 4.18	H 12.2	G 0.15		

Residuals in seconds of arc

860929 095	0.2+	0.7+	880216 400	(4.5+	2.7-)	911009 801	0.6+	0.4+
861003 095	1.0-	0.9-	900726 675	0.7-	0.3+	911230 898	1.3-	0.2+
880111 400	1.8-	1.1+	900726 675	1.0-	0.5-	911230 898	2.2-	1.9-
880111 400	(2.9-	0.6+)	900728 675	0.5-	1.9+	920101 801	0.3+	0.4-
880111 400	(3.2-	0.1-)	900728 675	0.5-	0.0	920101 801	0.6-	0.8-
880119 400	2.1+	0.3-	900817 046	(5.3-	1.1-)	920102 898	0.8-	0.1+
880119 400	1.2+	0.1-	900817 046	0.5-	0.0	920102 898	0.9-	1.3+
880119 400	0.1+	1.4+	900914 675	0.1-	0.0	920104 898	0.7-	0.2+
880120 400	0.4-	2.1+	900914 675	0.0	0.6+	920104 898	0.2-	0.8+
880120 400	0.1-	0.4+	900916 801	0.1+	0.6+	920108 801	0.2-	0.3-
880120 400	1.4+	1.3+	900916 801	0.1+	0.5+	920108 801	0.2-	0.3-
880124 400	0.4+	1.3+	900919 801	0.2+	0.6+	920110 675	0.6+	1.5-
880124 400	0.3+	1.1+	900919 801	0.2+	0.6+	920110 675	1.9+	2.1-
880124 400	1.9+	1.2+	900919 801	0.2+	0.5+	920111 675	1.6+	1.7-
880216 400	(5.1+	2.4-)	900919 801	0.2+	0.4+			
880216 400	(7.1+	1.1-)	911009 801	0.8+	0.4+			

(5060)* 1988 BO5 = 1957 WT = 1978 UQ3 = 1982 SM12

Discovered 1988 Jan. 24 by S. Ueda and H. Kaneda at Kushiro.

Id. H. Kaneda (MPC 16874)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M 53.70771	(2000.0)	P	Q	
n 0.23301831	Peri. 87.95667	+0.10396988	-0.99457762	
a 2.6154275	Node 356.07315	+0.89819136	+0.09491745	
e 0.1871533	Incl. 1.98448	+0.42713294	+0.04249750	
P 4.23	H 13.2	G 0.15		

Residuals in seconds of arc

571126 760	0.7-	0.9+	880124 399	0.3+	1.1+	900915 675	0.2-	1.3+
571126 760	(12.2+	1.4+)	880125 399	0.7+	0.2-	900915 675	0.7+	0.5-
781028 675	0.7+	0.0	880125 399	0.8-	0.0	911230 399	0.1+	0.5+
781029 675	1.0+	0.1-	880125 399	0.4+	0.2-	911230 399	0.3-	0.2+
800408 675	1.8-	0.4+	880207 399	1.5+	0.2+	920102 399	1.4-	0.2-
800409 675	0.5-	0.3+	880207 399	1.0+	1.9+	920102 399	1.2-	0.5-
820919 095	0.1+	1.7-	880313 399	0.5-	2.4-	920124 399	0.4-	0.1-
880124 399	0.8+	1.8-	880313 399	0.8-	0.6-	920124 399	0.6+	0.1-
880124 399	0.5+	0.0	880313 399	1.2+	0.6-	920124 399	0.8-	0.6+

(5061)* 1988 DJ = 1990 OU4

Discovered 1988 Feb. 22 by R. H. McNaught at Siding Spring.

Id. H. E. Holt (MPC 16874)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 345.51305	(2000.0)	P	Q	
n 0.18352544	Peri. 213.83130	-0.08172069	-0.98778033	
a 3.0667041	Node 241.17981	+0.94467912	-0.03433033	
e 0.0588783	Incl. 8.71218	+0.31765246	-0.15202448	
P 5.37	H 12.4	G 0.15		

Residuals in seconds of arc

790625 413	0.7-	1.2-	880219 413	0.5+	0.7-	880225 413	1.6-	0.2+
790625 413	0.3-	0.2-	880222 413	2.5-	1.6+	880225 413	1.2+	0.6-
800913 675	0.5+	0.3+	880222 413	0.3-	0.6-	880310 413	0.0	0.1-
800914 675	0.5+	0.1+	880223 413	1.1-	0.0	880310 413	1.0+	0.4-
880219 413	(6.5-	2.1+)	880223 413	1.4+	0.3-	880412 413	0.7+	0.6-

880414	413	0.0	0.5+	900725	675	0.9+	0.2+	910913	801	0.5+	0.4-
880420	413	0.1-	1.5-	900728	675	0.3-	0.8+	911004	801	0.3-	0.4-
880420	413	1.3-	1.0-	900728	675	0.9+	0.7-	911004	801	0.4-	0.5-
880420	413	0.8+	0.7-	900730	675	0.5-	0.8-	911008	801	0.5-	0.5-
880420	413	0.4+	0.3+	900730	675	1.2+	0.1-	911008	801	0.2-	0.7-
900725	675	0.7-	0.4-	910913	801	0.5+	0.3-				

(5062)* 1989 CZ = 1981 YF
Discovered 1989 Feb. 6 by E. F. Helin at Palomar.
Id. B. G. Marsden (MPC 14478)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	74.65196	(2000.0)	P	Q	
n	0.29009125	Peri.	14.30205	+0.83084072	-0.55617611
a	2.2600235	Node	19.52691	+0.50475182	+0.73852295
e	0.1666804	Incl.	3.30727	+0.23437001	+0.38111939
P	3.40	H	13.3	G 0.15	

Residuals in seconds of arc

811220	688	(4.7-	2.6-)	890206	675	1.0-	2.6+	911010	675	0.3+	0.5+
811230	688	0.1-	2.8-	890211	675	(2.4-	3.5+)	911013	675	0.3-	1.6-
811230	688	0.5+	2.7-	890301	675	1.0+	2.1+	911013	675	1.3-	1.6-
870628	675	0.7-	1.5+	890305	675	1.4+	0.8+	911101	675	0.8-	1.9+
870628	675	1.4+	1.2-	910907	801	0.5-	0.3+	911101	675	1.0+	1.4+
870630	675	0.8-	0.7+	910907	801	0.3-	0.4+	911103	675	0.0	1.8+
870630	675	(3.2-	2.2+)	911010	675	0.1-	0.4-	911103	675	0.4+	0.9+

(5063)* 1989 CJ5 = 1954 SK = 1991 RU1
Discovered 1989 Feb. 2 by F. Borngen at Tautenburg.
Id. H. Kaneda (MPC 19025), E. Bowell, H. E. Holt
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	61.96841	(2000.0)	P	Q	
n	0.26655744	Peri.	54.79215	+0.92672327	-0.37545982
a	2.3911611	Node	327.25353	+0.33535501	+0.84403685
e	0.2260751	Incl.	1.54934	+0.16947269	+0.38292521
P	3.70	H	14.2	G 0.15	

Residuals in seconds of arc

540923	760	0.7+	1.1-	890210	033	0.1+	0.2+	910917	675	0.4+	0.8-
540923	760	0.6+	1.8-	890210	033	0.2-	0.3-	910917	675	0.1+	0.5-
710324	675	0.4+	0.5-	890307	033	0.3+	0.1-	911007	033	0.2-	0.8-
710325	675	1.7-	1.0-	890310	033	1.2-	0.7-	911007	033	0.5-	0.0
710325	675	(3.4-	0.1+)	890310	033	0.1+	0.0	911008	033	0.1-	0.1+
710326	675	1.5-	1.1-	910814	033	0.1-	0.5-	911107	675	(0.4+	3.3-)
710327	675	(2.8-	0.5-)	910816	033	0.1-	0.9-	911107	675	0.9+	1.5-
710402	675	0.1+	1.1-	910819	033	0.4+	1.0-	911109	675	(1.2+	2.7-)
710416	675	0.1-	0.5-	910910	675	0.2-	0.1-	911109	675	(1.5+	2.7-)
710416	675	1.0-	0.8-	910910	675	0.8-	0.5-	911231	801	0.5+	0.2+
710513	675	0.1+	0.9-	910913	400	(2.9+	0.9+)	911231	801	0.4-	0.1+
710514	675	0.8+	2.0-	910913	400	(6.7+	0.9+)	920107	801	0.3+	0.2-
890202	033	0.0	0.2+	910915	392	0.3-	0.8+	920107	801	0.5+	0.3+
890204	033	0.0	0.4-	910915	392	1.7+	2.0+				

(5064)* 1990 FS = 1970 JC = 1981 UK17
Discovered 1990 Mar. 16 by M. Matsuyama and K. Watanabe at Kushiro.
Id. H. Kaneda (MPC 16586)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	154.14753	(2000.0)	P	Q	
n	0.29157932	Peri.	117.95374	+0.09349277	+0.99464404
a	2.2523277	Node	157.28260	-0.94886754	+0.10242057
e	0.1849691	Incl.	6.55292	-0.30151201	-0.01390171
P	3.38	H	12.7	G 0.15	

Residuals in seconds of arc

700508 095	0.4+	1.9+	900315 046	1.0-	2.1+	900322 399	(4.6+	1.4+)
811024 095	0.5+	0.5-	900316 809	0.7-	0.4+	900322 399	1.9+	1.0-
900218 399	(2.8-	4.1+)	900316 809	0.6-	0.7+	900322 399	(3.3+	1.4-)
900218 399	(3.1+	2.4+)	900316 809	0.6-	0.5+	910912 675	0.2+	0.3+
900224 809	0.2+	0.6-	900316 399	(2.2+	2.9+)	910912 675	0.4-	0.2+
900224 809	0.5+	0.6-	900316 399	1.2+	1.2+	910914 675	0.0	1.2+
900225 809	0.3-	0.8-	900316 046	2.3-	0.8-	910914 675	0.1-	0.2+
900225 809	0.2-	0.7-	900316 046	0.2-	2.0+	911003 046	(10.1-	1.5-)
900225 809	0.4+	0.4-	900317 809	1.2-	0.1-	911003 046	1.4-	0.8-
900226 809	0.5-	0.5+	900317 809	1.1-	0.1+	911004 046	1.6-	1.1-
900226 809	0.0	0.4+	900317 809	0.9-	0.6+	911004 046	2.3+	0.6+
900226 809	0.5+	0.5+	900317 046	(2.1-	3.1+)	911101 399	0.6-	0.5+
900315 809	0.1+	0.0	900317 046	(0.4+	3.0+)	911101 399	1.9+	0.1+
900315 809	0.4+	0.1-	900319 809	1.4+	1.1-	911106 801	0.7-	1.5+
900315 809	0.5+	0.0	900319 809	1.5+	0.8-	911106 801	1.1-	1.4+
900315 046	(0.7-	3.7+)	900319 809	1.7+	0.5-			

(5065)* 1990 FP1 = 1942 ES = 1958 GM = 1982 HD1

Discovered 1990 Mar. 24 by E. F. Helin at Palomar.

Id. H. Kaneda (MPC 16586)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M 226.24757		(2000.0)	P	Q
n 0.24723301	Peri.	175.30402	-0.99636775	-0.08515381
a 2.5141918	Node	359.80986	+0.07392891	-0.86279800
e 0.0483552	Incl.	6.56830	+0.04225910	-0.49832563
P 3.99	H	13.3	G 0.15	

Residuals in seconds of arc

420311 062	0.7-	1.8-	900324 675	0.8-	2.1+	910909 801	0.3-	0.8+
420312 062	0.8+	0.4-	900325 675	0.5+	1.6+	910909 801	0.1-	0.8+
420312 062	0.0	1.1+	900401 675	1.7+	0.0	910912 801	0.4+	0.0
580408 760	0.3+	0.3-	900401 675	1.9+	0.7+	910912 801	0.5+	0.3+
580408 760	0.9-	0.6+	900425 675	0.6-	1.1-	911005 801	0.5-	0.7-
820425 688	2.6-	0.5-	900425 675	1.7-	1.0-	911005 801	0.4-	0.9-
820425 688	0.3+	0.9-	900428 675	0.5+	1.4-			
900324 675	0.4-	2.7+	900428 675	1.7+	1.0-			

(5066)* 1990 MA

Discovered 1990 June 22 by R. H. McNaught at Siding Spring.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 262.40526		(2000.0)	P	Q
n 0.36578056	Peri.	184.37893	-0.07482354	+0.75093261
a 1.9363728	Node	82.41825	-0.89363132	+0.24149054
e 0.1543672	Incl.	41.44593	-0.44252062	-0.61464016
P 2.69	H	14.1	G 0.15	

Residuals in seconds of arc

770918 413	0.9+	0.2-	900629 413	0.9+	1.4+	911103 801	0.0	0.9-
890109 413	0.4-	1.5+	900714 474	2.4+	0.4-	911107 801	0.1-	0.5+
890109 413	1.3-	1.1-	900714 474	1.5+	0.8-	911107 801	0.8+	0.3-
900622 413	1.7-	1.2-	900721 413	1.0+	0.8+	911205 801	0.4-	0.2+
900622 413	1.2-	0.7+	900721 413	0.2-	2.0-	920102 801	0.1+	0.7+
900624 323	1.7-	2.0+	900721 413	(0.6+	4.8+)	920102 801	0.6-	0.8+
900625 323	1.6-	0.3-	900721 413	0.2-	0.6+	920106 801	0.0	0.2-
900626 323	0.4-	0.5-	900918 474	2.0+	1.7-	920106 801	0.1-	0.3-
900628 413	1.5+	0.6+	900918 474	0.9-	0.4+			
900629 413	1.3+	0.6-	911103 801	0.5+	0.2+			

(5067)* 1990 OX = 1975 GA1 = 1984 FX1 = 1986 RY15

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

Id. B. G. Marsden (MPC 17023)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	219.85987	(2000.0)	P	Q
n	0.21011745	Peri. 25.80192	-0.64142058	+0.76535371
a	2.8021710	Node 204.41126	-0.72423466	-0.62686805
e	0.0787411	Incl. 7.37371	-0.25310829	-0.14584289
P	4.69	H 11.9	G 0.15	

Residuals in seconds of arc

750415	805	0.3+	0.2-	900817	675	0.1-	0.8+	911108	801	0.2+	0.7+
750420	805	0.0	1.4+	900819	675	1.2-	1.7+	911108	801	0.4+	0.5+
840330	095	0.4-	1.0-	900819	675	0.8-	1.0+	911109	399	0.9-	0.1+
860912	095	(0.2-	3.8-)	911102	675	2.2+	0.6-	911109	399	0.5-	0.9-
900719	675	1.7+	1.5-	911102	675	1.4+	1.1+	920105	801	0.2-	0.4-
900719	675	0.1+	1.5-	911104	675	0.7-	0.3-	920106	801	0.5-	0.7-
900722	675	0.5+	1.6-	911104	675	0.9-	0.7+	920108	801	0.5-	0.5-
900722	675	0.8+	1.1-	911104	399	(8.0+	1.0+)	920108	801	(5.8-	0.2-)
900817	675	0.8-	1.3+	911104	399	(6.5+	1.4+)				

(5068)* 1990 TC = 1972 GV = 1975 VL5 = 1975 XA4 = 1980 TT12 = 1980 UE1
Discovered 1990 Oct. 9 by R. H. McNaught at Siding Spring.
Id. H. Kaneda (MPC 18124)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	44.46229	(2000.0)	P	Q
n	0.18644783	Peri. 220.43612	+0.35799934	-0.92861973
a	3.0345746	Node 208.98028	+0.90017221	+0.37098335
e	0.0546232	Incl. 11.60647	+0.24804531	-0.00606202
P	5.29	H 12.0	G 0.15	

Residuals in seconds of arc

720412	095	(8.8+	5.8-)	900918	675	0.9+	1.0-	901011	413	(4.9-	1.8+)
751102	095	0.4+	0.1+	900920	675	1.3+	1.2-	911008	801	0.5+	1.8-
751203	095	0.5-	1.6+	900920	675	1.0+	0.7-	911008	801	0.7-	0.3-
801010	095	0.1-	0.4+	901009	413	2.6-	0.9+	911107	801	0.1+	0.1-
801017	095	0.2+	0.4-	901009	413	2.0-	2.4+	911107	801	0.0	0.2-
900918	675	1.0+	0.2-	901011	413	(4.4-	0.2+)				

(5069)* 1991 QB = 1930 MR = 1977 KF = 1978 TP4 = 1980 BB3 = 1980 FD9
= 1981 RR4 = 1981 SC4 = 1988 TX2
Discovered 1991 Aug. 16 by K. Watanabe at JCPM Sapporo Station.
Id. H. Kaneda (MPC 19032)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	143.85267	(2000.0)	P	Q
n	0.29184300	Peri. 81.11844	-0.16924598	+0.98557296
a	2.2509708	Node 179.13428	-0.93502333	-0.16014300
e	0.1319501	Incl. 4.99672	-0.31158815	-0.05477366
P	3.38	H 13.1	G 0.15	

Residuals in seconds of arc

300626	690	0.1-	1.3-	881012	046	2.4+	1.0-	910810	675	0.9-	0.4-
300630	690	0.1-	0.0	881014	046	(2.8+	1.2-)	910816	392	0.3+	0.6+
770519	095	1.7+	0.3+	881014	046	(3.1+	1.4-)	910816	392	1.9+	1.6+
770523	095	0.0	0.1-	881016	046	(4.6-	0.5+)	910818	392	1.4+	0.2-
781005	095	(5.8-	0.3-)	881016	046	1.8-	2.0+	910907	392	2.1-	1.5+
800124	095	2.1-	0.6+	881016	046	1.6+	1.4+	910907	392	0.8+	0.0
800316	095	(5.9-	7.0+)	881016	046	0.9+	0.9-	910908	392	0.1+	0.1+
810905	095	1.2-	0.6-	910807	675	0.6-	1.0-	910908	392	0.5-	0.3+
810925	095	(0.1+	7.0+)	910807	675	1.1-	1.3-				
881011	046	0.1-	1.6-	910810	675	1.0-	0.1+				

(5070)* 1991 XT = 1951 TY = 1954 EN = 1970 AS = 1979 WQ5 = 1982 HA
= 1990 UJ6 = 1990 VE7

Discovered 1991 Dec. 9 by S. Ueda and H. Kaneda at Kushiro.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	334.07199	(2000.0)	P	Q
n	0.18014810	Peri. 194.40177	-0.99550024	-0.08796829
a	3.1049142	Node 340.44792	+0.09396948	-0.86857301
e	0.0752607	Incl. 6.04197	+0.01220671	-0.48769100
P	5.47	H 11.0	G 0.15	

Residuals in seconds of arc

511003	024	1.5+	0.2+	901024	046	(3.3+	4.2-)	911229	877	(3.7+	0.6-)
540307	760	0.5+	2.4+	901110	046	1.4-	0.6+	911230	399	0.6-	0.6-
540307	760	1.0+	2.1+	901110	046	(4.9-	0.5+)	911230	399	1.9-	0.1+
700104	095	0.6-	0.6-	901113	046	1.4-	0.5-	911230	877	1.2+	0.4-
791117	095	1.5+	0.5+	901113	046	0.9-	0.5-	911230	877	0.6+	0.4-
820418	688	0.5+	0.8-	911209	399	0.9-	0.9+	920102	399	0.6-	1.8-
820418	688	0.3-	0.4-	911209	399	0.3+	1.8+	920102	399	1.5+	1.6-
820425	688	0.1+	0.3-	911214	399	0.2+	0.9-	920114	399	0.6+	0.4-
820425	688	1.5-	0.1-	911214	399	0.1-	0.0	920114	399	0.1-	0.6+
901024	046	(2.3+	4.3-)	911229	877	1.1+	1.3-				

(5071)* 3099 T-2 = 1987 EG = 1990 QF3

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.
Id. E. Bowell (k, MPC 17025), G. V. Williams (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	11.40943	(2000.0)	P	Q
n	0.17266389	Peri. 299.61653	-0.31816397	-0.94742324
a	3.1940010	Node 168.77755	+0.91906455	-0.31705876
e	0.1698144	Incl. 10.08274	+0.23257695	-0.04316195
P	5.71	H 12.1	G 0.15	

Residuals in seconds of arc

730919	675	1.3-	1.2+	731004	675	(3.4+	1.0-)	900914	675	0.9-	2.1+
730919	675	1.7-	0.8+	731005	675	1.6+	0.4-	900919	675	0.8+	1.0+
730920	675	0.4+	1.1+	731005	675	2.3+	0.8-	900919	675	1.2-	0.4-
730924	675	1.5-	1.3-	870303	688	(0.4+	3.2-)	911007	801	0.2-	1.4-
730924	675	0.9-	0.1-	870303	688	0.3+	1.0+	911007	801	0.4-	1.2+
730925	675	0.4+	2.1-	900822	675	0.6+	0.5+	911010	801	0.3-	1.1+
730925	675	0.1-	1.0-	900822	675	1.0-	0.0	911205	801	0.1-	0.1-
730929	675	1.3+	0.5-	900828	675	0.3-	0.7+	911205	801	0.4+	0.3-
730929	675	1.7+	1.5-	900828	675	0.6+	0.1+	920102	801	0.2+	0.7+
730930	675	1.3-	0.5-	900914	675	0.9-	0.5-	920102	801	0.2+	0.6+
730930	675	0.6+	1.2-	900914	675	0.4-	1.7+	920108	801	0.0	0.0
731004	675	(2.9+	0.7-)	900914	675	1.1+	1.9+	920108	801	0.2-	0.2-

1936 UG = 1991 YP

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	63.12494	(2000.0)	P	Q
n	0.23342925	Peri. 315.39114	+0.46736698	-0.87822020
a	2.6123571	Node 106.49998	+0.83780505	+0.40334164
e	0.2982580	Incl. 6.07524	+0.28222475	+0.25699184
P	4.22	H 13.0	G 0.15	

Residuals in seconds of arc

361021	020	(37.5-	4.5-)	361108	020	(56.7+	53.2+)X	911230	511	0.2-	0.1-
361021	020	(41.3-	5.2-)	361110	020	0.0	0.0	911230	511	0.6-	1.2+
361024	020	(9.0-	3.2-)	361110	020	(5.9+	0.4-)	911231	511	0.5-	0.6-
361025	020	0.5+	0.3+	361110	020	(67.9+	9.7+)	911231	511	1.3+	0.4-
361025	020	0.5-	0.3-	361202	020	(0.00-	0.07+)X				

1974 SD3 = 1986 RN
Id. C. M. Bardwell (MPC 11423), S. Nakano (ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 (J-P) Bardwell

M	313.15842	(2000.0)	P	Q
n	0.15966540	Peri. 141.10961	+0.89436040	-0.41905835
a	3.3650875	Node 244.34028	+0.35467742	+0.87752520
e	0.1006394	Incl. 10.00207	+0.27262321	+0.23310861
P	6.17	H 11.5	G 0.15	

Residuals in seconds of arc

740920	095	0.7+	1.1+	860908	095	0.8-	0.1-	880219	801	0.2+	1.0+
740922	095	1.2-	1.8+	860911	095	0.9-	1.1-	910711	801	0.5+	1.1+
740925	095	1.1-	0.3+	860909	054	1.7+	0.1+	910711	801	0.4-	1.1+
800913	675	1.2+	0.1+	860911	054	0.1-	1.5-	910716	801	0.3-	0.6+
800914	675	0.6+	0.0	860929	054	0.2+	0.3-	910716	801	0.0	0.5-

1975 XP3 = 1975 VM6 = 1982 VE = 1989 SS10
Id. C. M. Bardwell (d, MPC 5835; MPC 7606), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	219.87591	(2000.0)	P	Q
n	0.27346666	Peri. 58.94663	+0.42443703	-0.90544209
a	2.3507140	Node 5.94562	+0.81242197	+0.37824749
e	0.1309233	Incl. 2.91911	+0.39977963	+0.19262256
P	3.60	H 14.0	G 0.15	

Residuals in seconds of arc

751106	095	0.0	2.8-	821112	046	(1.2-	3.0-)	890928	809	1.7+	0.2-
751126	330	1.3-	1.8-	821114	095	0.5+	2.3+	890929	809	0.8-	0.2-
751129	330	(6.1-	2.3-)	840327	801	1.3+	1.1+	890929	809	0.3-	0.1-
751202	095	2.3+	0.4-	840506	801	1.3-	0.7-	890929	809	0.1+	0.2-
821107	046	0.4-	0.9+	890928	809	2.0-	0.1-	890929	809	0.7+	0.5-
821107	046	0.0	2.0+	890928	809	1.4-	0.1-	890929	809	1.3+	0.6-
821111	046	1.0-	0.5+	890928	809	0.7-	0.2-	890929	809	1.7+	0.8-
821111	046	2.8-	0.6+	890928	809	0.6+	0.1-				
821112	046	(6.4-	6.7-)	890928	809	1.0+	0.0				

1981 EF28 = 1987 WB5 = 1991 RC13
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	88.62944	(2000.0)	P	Q
n	0.22949606	Peri. 318.13711	+0.84795253	+0.52912168
a	2.6421201	Node 10.06273	-0.42524564	+0.71477807
e	0.1563179	Incl. 10.46265	-0.31645323	+0.45729920
P	4.29	H 13.0	G 0.15	

Residuals in seconds of arc

810212	413	0.4-	1.5+	810426	413	2.4+	0.5-	871117	399	(0.4+	2.7-)
810213	413	0.1-	0.1+	810406	413	1.6+	0.4+	871117	399	0.6+	1.3-
810306	413	(3.6-	0.6-)	810407	413	(3.7+	0.5-)	871117	399	0.4-	0.8+
810311	413	2.2-	0.5-	810410	413	0.5-	0.1+	910910	675	1.4+	0.3+
810315	413	0.3-	0.1-	810405	413	(2.8+	0.1-)	910910	675	1.5-	0.7-
810311	413	0.9-	0.2+	810410	413	0.6+	1.5-	910915	675	1.7+	0.4-
810302	413	(2.9-	1.2-)	810406	413	2.1-	0.8+	910915	675	0.6-	0.0
810302	413	2.0+	1.4-	810503	413	0.9-	1.8-	910917	675	0.1+	0.5-
810407	413	2.2-	0.3-	810501	413	0.9+	0.5-	910917	675	0.5+	1.3-
810405	413	(3.5+	0.6-)	871117	399	(0.8+	3.1+)				

1981 UO11 = 1991 RX20
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 35.25564 (2000.0) P Q
n 0.29019202 Peri. 299.21225 +0.57534360 -0.81548993
a 2.2595003 Node 115.52976 +0.77254020 +0.51656282
e 0.1425119 Incl. 3.99685 +0.26862869 +0.26103455
P 3.40 H 14.3 G 0.15
Residuals in seconds of arc

811022	095	1.6-	1.0+	910914	675	0.0	0.5-	910916	675	0.6+	0.1+
811024	095	1.8+	0.3-	910914	675	0.3-	0.2+				
811028	095	0.3-	0.7-	910916	675	0.2-	0.2+				

1983 CQ3 = 1967 RD = 1972 VQ1 = 1976 OG = 1990 HF5 = 1991 YB
Epoch 1992 June 27.0 TT = JDT 2448800.5 Urata
M 83.85175 (2000.0) P Q
n 0.21091253 Peri. 101.17991 +0.85525020 -0.50746910
a 2.7951244 Node 289.39108 +0.42134709 +0.79890281
e 0.2340023 Incl. 6.39028 +0.30168480 +0.32284581
P 4.67 H 12.4 G 0.15
Residuals in seconds of arc

670904	095	(4.3-	51.0+)	830218	809	0.0	0.2+	911216	885	0.3-	1.1+
670911	095	4.3-	5.2+	830218	809	0.1-	0.1-	911216	885	0.7-	0.3+
721112	095	2.5+	5.4-	830220	809	0.6-	0.5+	911228	385	0.6+	0.5+
760727	095	1.7+	0.1-	830220	809	0.5-	0.9+	911228	385	0.7+	0.2+
830212	809	0.7+	0.4+	900430	413	0.8+	0.5-	920103	885	0.3+	0.7-
830212	809	0.8+	0.3+	900430	413	1.2-	0.6-	920103	885	0.9+	0.1+
830212	809	0.8+	0.0	911214	885	0.7-	2.3+	920110	885	0.0	1.1-
830218	809	0.2-	0.4+	911214	885	0.3-	1.1+				

1984 SZ5 = 1991 RX
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 127.62702 (2000.0) P Q
n 0.28197477 Peri. 273.80895 +0.29323861 +0.95546607
a 2.3031871 Node 13.38530 -0.81057479 +0.26683121
e 0.2400094 Incl. 8.22081 -0.50693158 +0.12603848
P 3.50 H 14.5 G 0.15
Residuals in seconds of arc

840921	809	2.2-	0.2+	840926	809	1.0+	0.1-	840929	809	0.4-	0.1+
840921	809	2.0-	0.2+	840926	809	1.0+	0.1+	910907	675	1.4+	0.6+
840921	809	1.7-	0.2+	840927	809	0.3+	0.2-	910907	675	0.8+	1.1-
840922	809	(1.2+	3.7-)	840927	809	0.2+	0.3-	910909	675	1.4-	0.9+
840922	809	(1.4+	3.7-)	840927	809	0.3+	0.3-	910909	675	1.9-	0.1-
840922	809	(1.4+	3.8-)	840927	809	0.5+	0.3+	910915	675	1.6+	0.6-
840923	809	0.6-	0.6+	840927	809	0.8+	0.0	910915	675	0.8+	0.2-
840923	809	0.3-	0.3+	840927	809	0.9+	0.3-	910917	675	0.5+	0.7-
840923	809	0.1-	0.0	840928	809	0.0	0.4+	910917	675	0.7+	0.6-
840924	809	0.2-	0.0	840928	809	0.1+	0.2+	911010	675	0.1-	0.4+
840924	809	0.1-	0.1+	840928	809	0.3+	0.2+	911010	675	0.1-	0.4+
840924	809	0.0	0.2+	840929	809	0.1+	0.5+	911012	675	1.6-	0.8-
840926	809	0.8+	0.1-	840929	809	0.1+	0.3+	911012	675	0.8+	0.7-

1985 CU1 = 1985 BA1 = 1992 BA1
Id. L. D. Schmadel (d, MPC 10291), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 66.57134 (2000.0) P Q
n 0.27667370 Peri. 120.01602 +0.05584930 -0.96936940
a 2.3325133 Node 324.23538 +0.71547258 +0.20593845
e 0.2391671 Incl. 24.15604 +0.69640494 -0.13383695
P 3.56 H 14.0 G 0.15

Residuals in seconds of arc

850117	010	(3.1+	0.2+)	850216	809	1.2+	0.1+	850224	809	1.1-	0.6-
850117	010	0.3+	0.7-	850217	809	0.5-	0.4+	850224	809	0.7-	0.7-
850211	809	0.1-	0.3-	850217	809	0.5-	0.3+	850224	809	0.2-	0.3-
850211	809	0.0	0.7-	850217	809	0.6-	0.4+	850225	809	0.4+	0.6-
850211	809	0.0	0.9-	850218	809	1.1+	1.3+	850225	809	0.3+	0.7-
850212	809	0.5-	0.2+	850218	809	1.0+	1.3+	850225	809	0.3+	0.6-
850212	809	0.3-	0.2-	850218	809	1.4+	1.3+	850226	809	1.3-	1.3-
850212	809	0.2-	0.5-	850219	809	1.0+	1.2+	850226	809	1.7-	1.2-
850214	809	1.1-	0.0	850219	809	1.3+	1.2+	850226	809	1.6-	1.2-
850214	809	0.7-	0.2-	850219	809	1.2+	1.4+	850227	809	0.3-	0.6+
850214	809	0.2-	0.4-	850220	809	0.5+	0.3+	850227	809	0.4-	0.4+
850215	809	0.5-	0.1-	850220	809	0.7+	0.2+	850228	809	0.1-	0.4-
850215	809	0.3-	0.4-	850220	809	0.9+	0.1+	850228	809	0.0	0.4-
850215	809	0.3-	0.6-	850222	809	0.1+	0.6+	920130	675	0.4+	0.1-
850216	809	0.3+	0.3+	850222	809	0.2+	0.7+	920130	675	0.9+	1.2+
850216	809	0.8+	0.1-	850222	809	0.4+	0.8+	920131	675	1.5-	1.3-

1985 TD3 = 1991 VR4
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	56.47405	(2000.0)	P	Q	
n	0.17744413	Peri.	176.94070	+0.79444747	-0.55080478
a	3.1363772	Node	220.18908	+0.54846134	+0.83160892
e	0.2014799	Incl.	23.35952	+0.26085126	-0.07099784
P	5.55	H	12.3	G 0.15	

Residuals in seconds of arc

850916	675	0.2-	0.6-	851012	675	1.1+	0.5+	911115	894	0.3-	0.6+
850916	675	0.2+	0.5+	851014	675	0.2-	0.3-	911115	894	0.1-	0.6-
851012	675	0.5+	0.6+	911113	894	0.7+	0.0				
851012	675	1.4-	0.8-	911113	894	0.3-	0.0				

1985 VF2 = 1981 BU
Id. C. S. Shoemaker (1991 obs.), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	358.90443	(2000.0)	P	Q	
n	0.17355816	Peri.	199.56847	-0.33392146	-0.87969841
a	3.1830199	Node	271.14569	+0.90365175	-0.19657682
e	0.0996136	Incl.	19.79367	+0.26816034	-0.43299915
P	5.68	H	11.5	G 0.15	

Residuals in seconds of arc

810130	095	0.1+	0.1+	851107	675	0.6+	1.0+	911109	675	0.7+	0.2-
851011	675	0.6-	0.7+	851108	675	1.2-	0.4-	911201	675	0.2+	0.0
851011	675	1.5+	1.6-	911107	675	0.2+	2.4-	911201	675	0.4-	1.6+
851107	675	0.6-	1.0+	911107	675	0.2+	0.1+	911203	675	1.0-	0.0

1986 QO1 = 1991 RW20
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	93.17379	(2000.0)	P	Q	
n	0.20252179	Peri.	193.85537	+0.60532967	+0.79302644
a	2.8718045	Node	113.44128	-0.72300210	+0.58376594
e	0.1440830	Incl.	4.27852	-0.33293237	+0.17414476
P	4.87	H	13.2	G 0.15	

Residuals in seconds of arc

860827	809	0.4-	0.2+	860901	809	0.1+	0.7+	860904	809	0.1+	0.0
860827	809	0.3-	0.4+	860901	809	0.1+	0.5+	860904	809	0.2+	0.1-
860827	809	0.2+	0.3+	860901	809	0.2+	0.3+	860904	809	0.5+	0.1-
860828	809	0.0	0.5-	860902	809	0.6-	0.5-	860905	809	0.0	0.1-
860828	809	0.2+	0.4-	860902	809	0.5-	0.5-	860905	809	0.0	0.1-
860828	809	0.5+	0.3-	860902	809	0.4-	0.5-	860905	809	0.0	0.1-

860909	809	0.1+	0.1+	860911	809	0.3-	0.0	910914	675	0.3+	0.3-
860909	809	0.2+	0.1-	860913	809	0.0	0.4+	910916	675	0.1+	1.7+
860909	809	0.4+	0.1+	860913	809	0.1-	0.2+	910916	675	0.3-	0.5-
860911	809	0.0	0.1+	860913	809	0.1+	0.2+				
860911	809	0.1-	0.0	910914	675	0.0	1.1-				

1986 RH12 = 1989 GE5
Id. S. Nakano (MPC 14790)

Epoch 1992 June 27.0 TT = JDT 2448800.5			Williams
M 164.46574	(2000.0)	P	Q
n 0.25125612	Peri. 147.94496	+0.98980986	+0.08805511
a 2.4872816	Node 207.67012	-0.10831256	+0.97574290
e 0.1756540	Incl. 13.94422	+0.09243830	+0.20042979
P 3.92	H 12.5	G 0.15	

Residuals in seconds of arc

860909	095	(0.4-	6.7+)	890509	808	1.6-	0.3-	900917	675	0.1-	0.1+
860913	095	(2.0-	4.8+)	890509	808	0.9-	1.1-	900917	675	0.5+	0.1-
861003	095	1.9+	2.0-	900828	657	0.0	0.2-	900918	675	0.7+	0.4-
861006	095	1.9-	2.0+	900828	657	0.2-	1.6-	900918	675	0.6+	0.8-
890406	809	0.5+	0.9+	900911	657	0.8-	0.8+	901010	049	(4.4-	1.6+)
890406	809	1.3+	0.4+	900911	657	0.6+	0.4+	901010	049	(4.6-	1.3-)
890406	809	1.6+	1.0+	900914	657	0.3-	0.0	901011	049	0.6-	0.6+
890407	809	0.8-	0.1+	900914	657	0.0	0.3+	901011	049	0.7-	0.8+
890407	809	0.0	0.2+	900916	801	0.0	0.8+	920107	801	0.0	0.0
890407	809	0.1+	0.6+	900916	801	0.0	0.8+	920107	801	0.0	0.3+

1986 SZ1 = 1992 AS

Epoch 1992 June 27.0 TT = JDT 2448800.5			Williams
M 47.78169	(2000.0)	P	Q
n 0.23777326	Peri. 198.61992	-0.09428228	-0.97262530
a 2.5804417	Node 257.22042	+0.93882463	-0.01587975
e 0.1513953	Incl. 12.57916	+0.33123882	-0.23183583
P 4.15	H 12.0	G 0.15	

Residuals in seconds of arc

860929	095	0.0	1.2+	861006	095	0.9-	1.2-	920110	675	0.1+	1.6+
861003	095	0.9+	0.1-	920110	675	0.7+	1.5-	920111	675	0.9-	0.1-

1987 RE1 = 1992 AW

Epoch 1992 June 27.0 TT = JDT 2448800.5			Kaneda
M 117.00046	(2000.0)	P	Q
n 0.28353792	Peri. 33.10428	+0.95832927	-0.28458515
a 2.2947142	Node 343.37575	+0.23960946	+0.84809897
e 0.2167024	Incl. 4.97805	+0.15553881	+0.44692218
P 3.48	H 13.7	G 0.15	

Residuals in seconds of arc

870826	095	0.6+	0.1-	870917	809	1.0+	0.2+	870923	809	0.3+	0.4-
870901	095	0.5+	0.3-	870917	809	1.4+	0.2+	870923	809	0.3+	0.4-
870913	809	2.0-	0.3+	870918	809	1.1-	0.1-	870926	809	0.3-	0.5+
870913	809	1.8-	0.4-	870918	809	1.2-	0.5-	870926	809	0.4-	0.3+
870913	809	0.2-	0.2+	870918	809	0.3+	0.0	870926	809	0.5-	0.3+
870916	809	0.4-	0.2-	870919	809	0.7+	0.1-	920102	399	0.1-	0.9+
870916	809	0.1-	0.5+	870919	809	0.5+	0.1-	920102	399	1.2-	0.0
870916	809	0.9+	0.1+	870919	809	0.4+	0.2-	920114	399	0.8+	1.0-
870917	809	1.0+	0.2+	870923	809	0.2+	0.3-	920114	399	0.5+	0.0

1987 SL

Epoch 1992 June 27.0 TT = JDT 2448800.5				Bardwell
M 347.63523		(2000.0)	P	Q
n 0.19350587	Peri.	320.16550	+0.69044192	+0.72229460
a 2.9603289	Node	353.15431	-0.54910413	+0.48752656
e 0.6147530	Incl.	19.48301	-0.47092952	+0.49051846
P 5.09	H 15.5	G 0.15		

From 36 observations 1987 Sept. 19-1988 Mar. 6, mean residual 0".80.

1987 VQ = 1992 AZ

Epoch 1992 June 27.0 TT = JDT 2448800.5				Nakano
M 58.54786		(2000.0)	P	Q
n 0.26796984	Peri.	261.81587	-0.05797782	-0.99830216
a 2.3827516	Node	191.51234	+0.92663497	-0.05172609
e 0.1755406	Incl.	1.60837	+0.37146495	-0.02678093
P 3.68	H 13.8	G 0.15		

Residuals in seconds of arc

871022 095	1.7-	0.8+	871123 046	0.8+	0.1-	920104 894	0.4+	0.8+
871027 095	1.3+	2.9+	871123 046	0.9+	0.6-	920109 894	0.8-	1.1+
871115 046	1.0+	0.5-	871125 046	2.0-	0.8-	920109 894	0.1-	0.4+
871115 046	0.6+	1.3-	871125 046	0.2+	2.7+			
871121 095	1.1-	3.2-	920104 894	0.6+	1.8-			

1988 AO1 = 1989 KQ = 1991 XA1

Epoch 1992 June 27.0 TT = JDT 2448800.5				Nakano
M 32.70462		(2000.0)	P	Q
n 0.23124903	Peri.	6.71156	-0.13927319	-0.98461441
a 2.6287509	Node	91.33201	+0.90356230	-0.16996389
e 0.0944917	Incl.	6.05958	+0.40518902	+0.04058001
P 4.26	H 13.0	G 0.15		

Residuals in seconds of arc

880112 046	0.2+	2.1+	880115 046	0.7-	0.3+	911213 894	0.1+	0.5-
880112 046	1.7+	0.7+	880116 046	2.9+	0.0	911213 894	0.2-	1.6-
880113 046	2.3+	0.1-	880116 046	1.4-	0.9+	911214 894	0.3+	0.6+
880113 046	0.8-	1.1+	880120 046	0.6-	2.0-	911214 894	0.4-	0.6+
880114 046	0.0	0.4-	880120 046	1.8-	1.3-	911215 894	0.1+	0.0
880114 046	0.2-	1.4-	890526 372	0.6+	0.6-	911215 894	0.2+	0.2+
880115 046	1.4-	0.4+	890526 372	0.6-	0.3+			

1988 BC = 1991 VJ5

Epoch 1992 June 27.0 TT = JDT 2448800.5				Nakano
M 346.38932		(2000.0)	P	Q
n 0.22486477	Peri.	53.73154	-0.71743199	-0.66164134
a 2.6782746	Node	83.74002	+0.54788155	-0.72917643
e 0.2278218	Incl.	12.66811	+0.43025242	-0.17473543
P 4.38	H 12.7	G 0.15		

Residuals in seconds of arc

880116 897	0.1+	0.1-	880206 897	2.2-	0.5-	880219 897	0.7+	0.2-
880116 897	0.6+	0.6-	880206 897	2.7-	1.4+	911113 894	0.4+	0.2-
880120 897	1.0+	0.2-	880210 897	0.1+	1.5-	911113 894	0.1+	0.3+
880120 897	1.4-	0.5+	880210 897	0.0	0.7-	911117 894	0.6-	0.6-
880123 897	0.5+	0.5+	880212 894	2.7+	0.7-	911117 894	0.1+	0.5+
880123 897	0.5+	0.4+	880212 894	0.5+	1.5+			
880205 897	0.4+	0.1-	880219 897	0.9-	0.2+			

1988 CF = 1991 YA1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 19.38015 (2000.0) P Q
n 0.23872910 Peri. 149.13703 -0.82856827 -0.55986348
a 2.5735492 Node 356.80194 +0.49259018 -0.72448980
e 0.2316794 Incl. 5.39547 +0.26613820 -0.40207887
P 4.13 H 13.7 G 0.15
Residuals in seconds of arc

880208 399	0.8+	1.6+	880215 399	1.9+	0.7-	880313 399	0.4-	0.1-
880208 399	0.8-	0.9+	880215 399	0.9+	0.5-	911230 399	0.4-	1.7-
880208 399	0.7-	0.8+	880218 399	1.1+	1.3-	911230 399	1.6-	0.1-
880211 399	1.1+	0.2- Y	880219 399	0.0	1.7+	920102 399	1.4+	0.4+
880211 399	0.2+	2.2- Y	880219 399	1.3-	0.2+	920102 399	0.7-	1.6+
880211 399	(2.9+	1.5-)Y	880219 399	0.9+	0.2-	920124 399	0.4+	0.6+
880213 054	0.9-	1.0+	880221 399	0.4-	0.4-	920124 399	0.5-	0.3+
880213 054	0.1-	0.4+	880313 399	1.0-	0.3-	920125 399	1.2+	0.4-
880215 399	2.0-	0.1-	880313 399	0.5-	0.3+	920125 399	0.0	1.0-

1988 CP2 = 1976 SR8 = 1991 VZ4
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 143.38571 (2000.0) P Q
n 0.20444476 Peri. 177.07488 +0.60197040 +0.79750926
a 2.8537685 Node 129.93242 -0.73368461 +0.57223333
e 0.0541449 Incl. 3.00010 -0.31518016 +0.19112299
P 4.82 H 12.3 G 0.15
Residuals in seconds of arc

760928 095	0.6+	1.7-	880215 809	2.1+	1.8+	880221 809	1.7-	0.4+
880119 071	0.3-	1.3-	880215 809	1.2+	0.4-	880223 809	1.4+	0.8-
880119 071	1.4+	1.3-	880216 809	0.2+	0.7-	880223 809	0.6+	1.1-
880119 071	(3.8-	0.8-)	880216 809	0.3-	0.4-	880223 809	1.3-	1.0-
880211 809	0.5+	1.2-	880216 809	1.3-	0.2-	911105 894	0.1+	0.5+
880214 809	0.5-	0.3+	880217 809	0.8+	0.2+	911105 894	0.3+	2.1+
880214 809	1.8-	0.7+	880217 809	0.2+	0.6-	911113 894	0.3-	0.2-
880214 809	2.4-	1.4+	880217 809	0.9-	0.3+	911113 894	0.6-	0.8-
880215 809	0.4+	1.0+	880221 809	0.7+	0.2+			
880215 809	0.5+	1.2+	880221 809	0.2+	0.1-			

1989 AL3 = 1991 VS5
Epoch 1992 June 27.0 TT = JDT 2448800.5 (J-P) Marsden
M 26.39376 (2000.0) P Q
n 0.29052820 Peri. 331.84812 -0.15866612 -0.98482354
a 2.2577615 Node 127.19617 +0.92162516 -0.17328564
e 0.0847544 Incl. 5.06599 +0.35416399 +0.00973073
P 3.39 H 15.0 G 0.15
Residuals in seconds of arc

881229 413	2.8-	3.0+	890115 413	0.4+	0.8-	911109 809	1.2+	1.9+
881229 413	0.3+	0.6+	911102 809	0.9+	1.5+	911109 809	1.3-	0.2+
890104 413	1.0+	1.7+	911102 809	1.3-	1.2+	911109 809	1.0-	0.1+
890104 413	1.9+	0.0	911102 809	2.8-	1.0+	911112 809	3.4+	2.4-
890110 413	0.4-	0.6+	911106 809	0.6+	0.3+	911112 809	1.2+	2.7-
890110 413	1.1+	1.5-	911106 809	0.3-	1.0+	911112 809	1.9+	2.3-
890113 413	1.4-	2.8-	911106 809	2.4-	0.3-			

1989 CH1
Epoch 1992 June 27.0 TT = JDT 2448800.5 (J-P) Bardwell
M 298.62095 (2000.0) P Q
n 0.23455373 Peri. 24.37608 -0.84688426 -0.48212898
a 2.6040062 Node 124.91799 +0.43184620 -0.86973349
e 0.0477112 Incl. 15.87994 +0.31031583 -0.10542917
P 4.20 H 11.5 G 0.15
Residuals in seconds of arc

890206	675	1.7-	1.5+	890429	675	0.3+	1.6-	911208	675	1.3+	0.2-
890212	675	0.2+	0.7+	890501	675	1.0+	0.2-	920101	801	0.7-	0.4+
890212	675	0.9-	1.0+	890501	675	1.1+	0.1-	920108	801	0.5-	0.2+
890301	675	0.2-	1.6-	911005	801	0.1-	0.5-	920108	801	0.4-	0.6+
890301	675	0.7-	0.8-	911005	801	0.0	0.7-				
890429	675	1.4+	0.1+	911208	675	0.8+	0.6-				

1989 EW1 = 1953 GC1 = 1991 YL
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 81.80597 (2000.0) P Q
n 0.29861807 Peri. 35.04247 +0.52487107 -0.85095218
a 2.2167939 Node 23.31705 +0.76909446 +0.46417472
e 0.1217645 Incl. 2.86256 +0.36469722 +0.24580931
P 3.30 H 13.5 G 0.15
Residuals in seconds of arc

530405	760	0.8+	1.0-	890224	809	0.6-	0.3+	890303	809	0.2-	0.1+
530405	760	1.4-	0.2-	890224	809	0.6-	1.4+	890303	809	0.1+	0.1+
890212	809	0.0	1.4-	890226	809	0.4-	0.7+	890305	046	0.2-	0.2-
890212	809	0.0	1.3-	890226	809	0.1-	0.8+	890305	046	1.8+	0.3-
890212	809	0.2+	1.0-	890226	809	0.2+	1.0+	890306	046	1.3-	0.2+
890214	809	0.2+	0.2+	890228	809	0.7-	0.0	890306	046	0.7+	0.7-
890214	809	0.2+	0.2-	890228	809	0.2-	0.1+	890307	046	0.0	2.2+
890217	809	0.1+	0.1-	890228	809	0.1-	0.2+	890307	046	1.2+	0.1-
890217	809	0.1+	0.1+	890302	809	0.2-	0.1-	911229	511	0.0	0.3+
890217	809	0.1-	0.2+	890302	809	0.0	0.0	911229	511	0.5+	0.4-
890218	809	0.3+	0.3-	890302	809	0.0	0.1+	920101	511	0.5-	0.5-
890218	809	0.4+	0.7-	890303	809	0.5-	0.1-				

1990 DL3 = 1991 RP14
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 131.28543 (2000.0) P Q
n 0.27455201 Peri. 291.50293 +0.23526828 +0.97177941
a 2.3445147 Node 352.04610 -0.83961310 +0.19432681
e 0.1944005 Incl. 7.11320 -0.48959032 +0.13372311
P 3.59 H 13.1 G 0.15
Residuals in seconds of arc

900224	809	0.7+	0.6+	900315	046(29.3+		4.2-)	900319	809	0.1-	0.7-
900224	809	1.4+	0.6+	900316	809	0.7+	0.5+	900319	809	0.2+	0.7-
900225	809	0.5+	0.7-	900316	809	0.6+	0.5+	900319	809	0.4+	0.5-
900225	809	0.6+	0.6-	900316	809	0.6+	0.7+	910911	675	1.3+	0.9+
900225	809	0.6+	0.7-	900316	046 (2.6-		2.3+)	910911	675	1.6-	0.1-
900226	809	1.8-	0.3+	900316	046 (2.0+		3.1+)	910915	675	0.4-	0.3-
900226	809	1.3-	0.0	900317	809	1.0-	0.4+	910915	675	0.5+	0.4-
900226	809	0.9-	0.3-	900317	809	0.6-	0.4+				
900315	046(27.2+		4.3-)	900317	809	0.5-	0.3+				

1990 OA1 = 1986 RG16
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 211.16027 (2000.0) P Q
n 0.23923999 Peri. 4.48691 -0.01713601 +0.96699621
a 2.5698840 Node 264.67915 -0.92510932 -0.11178919
e 0.1057185 Incl. 14.79219 -0.37931400 +0.22895744
P 4.12 H 11.5 G 0.15
Residuals in seconds of arc

860913 095	0.1-	0.2+	901023 675	0.3+	1.2-	911112 596	(4.0+	1.9-)
900722 675	2.1+	0.5-	901115 801	0.6-	0.1+	911205 801	0.6+	0.7-
900722 675	0.4+	0.0	901115 801	0.2-	0.1-	911205 801	0.5+	0.2-
900723 675	0.5+	1.0-	901120 801	0.0	0.4+	911207 675	0.8-	1.4-
900723 675	0.2+	0.3+	901120 801	0.0	0.3+	911207 675	0.4+	1.3-
900817 675	1.3-	0.7+	911107 801	0.2+	0.1-	920101 801	0.2+	0.5+
900817 675	0.6-	0.9+	911107 801	0.3+	0.1-	920101 801	0.0	0.6+
900820 675	0.3-	0.3+	911111 596	2.2-	0.8+	920106 801	0.0	0.4+
900820 675	1.0-	0.9+	911111 596	(1.7+	3.5+)	920106 801	0.2+	0.2+
901023 675	0.5+	1.8-	911112 596	0.7+	1.7+			

1990 OO3 = 1977 CK = 1992 AH
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 85.30263 (2000.0) P Q
n 0.26120401 Peri. 279.24613 +0.36617574 -0.92890115
a 2.4237221 Node 149.09237 +0.89044189 +0.33251747
e 0.1268511 Incl. 6.18031 +0.27023797 +0.16301774
P 3.77 H 13.5 G 0.15
Residuals in seconds of arc

770211 675	(12.2+	8.5-)	900727 675	1.1-	0.5-	900914 675	1.2+	0.2+
770212 675	0.5+	1.3-	900727 675	0.9-	0.5-	920102 399	0.9+	1.5+
770214 675	1.0-	0.2-	900730 675	1.7-	0.0	920102 399	0.4+	0.0
900726 033	1.5+	0.6-	900730 675	1.7-	0.8-	920104 399	1.0+	1.0-
900727 033	2.7+	0.5+	900914 675	0.5+	0.2-	920104 399	2.3-	0.7-

1990 OT3 = 1990 KB2 = 1992 BL
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 342.62170 (2000.0) P Q
n 0.30175036 Peri. 235.76268 -0.99811092 +0.02769357
a 2.2014265 Node 305.76441 -0.00121097 -0.90134044
e 0.0514976 Incl. 3.87542 -0.06142578 -0.43222503
P 3.27 H 13.4 G 0.15
Residuals in seconds of arc

900529 413	1.3+	2.3-	900728 033	0.6+	2.1+	920124 894	0.1+	0.0
900529 413	1.4-	1.7+	900730 675	2.2-	2.3-	920124 894	1.4-	1.0+
900726 033	1.2-	2.5+	900730 675	0.8-	0.4-	920125 894	1.8+	0.7+
900727 033	1.2+	2.3+	900918 675	0.4+	0.2+	920125 894	0.5+	0.3-
900727 675	1.0-	1.1+	900918 675	0.2+	1.6-			
900727 675	2.7+	2.9-	920124 894	0.9-	0.6-			

1990 QZ1 = 1992 BD1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 66.04551 (2000.0) P Q
n 0.26486380 Peri. 118.84646 -0.25893060 -0.96542808
a 2.4013437 Node 346.06234 +0.83701699 -0.20874198
e 0.0829333 Incl. 7.16906 +0.48203475 -0.15612626
P 3.72 H 13.5 G 0.15
Residuals in seconds of arc

900822 675	0.1+	0.2+	900828 675	0.1-	0.3-	900914 675	0.3-	0.4-
900822 675	0.0	0.4-	900828 675	0.1+	0.3-	900914 675	0.3+	1.3+

900914 675 0.2+ 0.0 900919 675 0.6+ 0.8- 920129 399 1.7+ 1.6-
900914 675 0.7- 2.4+ 920128 399 2.7- 1.4+ 920129 399 0.2+ 0.5-
900919 675 0.2- 1.7- 920128 399 0.8+ 0.8+

1990 UQ
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell
M 358.35177 (2000.0) P Q
n 0.51021523 Peri. 159.42910 +0.42171044 +0.90567528
a 1.5510785 Node 135.48321 -0.84038403 +0.40850878
e 0.4778875 Incl. 3.57623 -0.34046291 +0.11345866
P 1.93 H 17.5 G 0.15
From 10 observations 1990 Oct. 20-Nov. 20, mean residual 0".92.

1990 UQ11 = 1977 KL1 = 1985 XE1 = 1987 EL = 1992 AG1
Id. S. Nakano; 1977 KL1 = 1987 DB (MPC 12324) is invalid
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 245.63923 (2000.0) P Q
n 0.17864257 Peri. 206.49239 -0.05363599 +0.98648486
a 3.1223344 Node 60.78724 -0.88180501 +0.02596137
e 0.0830483 Incl. 10.21755 -0.46855428 -0.16178266
P 5.52 H 10.6 G 0.15
Residuals in seconds of arc
770518 675 0.5- 1.0- 901017 095 1.1- 0.9- 920110 376 0.4- 0.2-
770519 675 0.3- 1.1- 901115 095 (5.6+ 2.6+) 920110 376 0.1+ 0.4+
851214 010(14.4- 8.7-) 901115 095 0.1- 1.0- 920114 376 0.2+ 0.2-
851214 010 (3.8- 6.0-) 901121 095 0.3- 1.6+ 920124 376 0.7+ 0.6-
870303 688 0.3+ 0.8+ 901121 095 1.1+ 2.6- 920124 376 1.0- 1.1-
870303 688 0.2+ 0.2+ 901123 095 0.0 1.6+
901017 095 0.8- 0.5- 901123 095 1.7+ 0.4+

1991 JY
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 188.57581 (2000.0) P Q
n 1.06909958 Peri. 37.39220 +0.07375263 -0.76180040
a 0.9472340 Node 58.58634 +0.63063656 -0.46431671
e 0.2959889 Incl. 48.94994 +0.77256590 +0.45174124
P 0.92 H 16.5 G 0.15
From 44 observations 1991 May 14-July 11, mean residual 0".83.

1991 RC
Epoch 1991 Sept. 21.0 TT = JDT 2448520.5 Marsden
M 131.78856 (2000.0) P Q
n 0.87740253 Peri. 8.23523 -0.98000046 -0.15462925
a 1.0806128 Node 161.39603 +0.15276183 -0.98796084
e 0.8256721 Incl. 23.11757 +0.12752619 -0.00481491
P 1.12 H 17.0 G 0.15
From 10 observations 1991 Sept. 3-Oct. 8.

1991 RE15 = 1974 SY = 1981 TL1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 109.89060 (2000.0) P Q
n 0.28992052 Peri. 330.15602 +0.68889476 +0.72376915
a 2.2609107 Node 343.27809 -0.63467924 +0.57577017
e 0.2225888 Incl. 7.94640 -0.35015179 +0.38032477
P 3.40 H 14.0 G 0.15

Residuals in seconds of arc

740919	095	1.4-	1.6+	910911	675	0.2+	0.8+	910915 675 0.8+ 0.6-
740921	095	(0.4-	9.4+)	910911	675	1.3-	0.7+	910915 675 2.1+ 1.1-
740923	095	0.2-	1.2+	910914	675	1.3-	0.2+	910917 675 1.1+ 0.9-
811002	095	0.1+	0.2-	910914	675	0.8-	0.0	910917 675 0.7+ 1.6-

1991 SG1 = 1951 AK1 = 1972 RE1 = 1987 SY20 = 1989 CE1

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	5.07307	(2000.0)	P	Q
n	0.26190610	Peri. 196.35316	-0.21645275	-0.96982581
a	2.4193887	Node 266.25217	+0.90785207	-0.15767851
e	0.1341768	Incl. 6.45531	+0.35910003	-0.18594459
P	3.76	H 12.2	G 0.15	

Residuals in seconds of arc

510106	711	0.1+	0.8+ Y	910929	399	0.3-	0.7-	911101 675 0.1+ 2.1+
720910	095	(11.9-	1.2-)	910930	399	0.8-	0.6+	911103 675 0.8+ 0.1-
870918	095	0.4-	2.2-	910930	399	0.2-	0.5+	911103 675 1.2+ 0.4+
870923	095	1.7+	1.7-	911028	399	1.0-	0.4-	911111 399 0.3- 0.5-
890206	675	0.1-	0.3-	911028	399	0.8+	0.7+	911111 399 0.0 0.7-
890206	675	0.2-	0.8-	911029	399	0.3-	0.5+	
890212	675	1.1-	2.2-	911029	399	0.1-	1.3-	

1991 TY

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	73.64015	(2000.0)	P	Q
n	0.26506863	Peri. 239.35948	+0.93806502	-0.14525554
a	2.4001064	Node 127.08937	+0.19942637	+0.96876664
e	0.2916493	Incl. 23.22292	-0.28330749	+0.20097765
P	3.72	H 14.0	G 0.15	

From 15 observations 1991 Oct. 2-Dec. 21, mean residual 0".73.

1991 TR6 = 1989 YM1

Epoch 1992 June 27.0 TT = JDT 2448800.5 (J-P) Marsden

M	172.94223	(2000.0)	P	Q
n	0.28889048	Peri. 296.61461	-0.49941862	+0.86554407
a	2.2662863	Node 303.37374	-0.77799531	-0.46715755
e	0.3005748	Incl. 2.58128	-0.38118808	-0.18054720
P	3.41	H 15.0	G 0.15	

Residuals in seconds of arc

891230	413	0.3+	0.6-	911002	033	0.5+	2.9-	911008 033 1.7- 3.0+
891231	413	0.3-	0.4+	911003	033	0.4+	1.2-	911009 033 0.3- 1.9+
911002	033	1.6+	2.3-	911008	033	0.6-	1.5+	

1991 UG1

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	65.59723	(2000.0)	P	Q
n	0.21556200	Peri. 276.59265	+0.83528126	+0.31120009
a	2.7547863	Node 66.10632	-0.02839170	+0.84771779
e	0.3954413	Incl. 29.72016	-0.54908936	+0.42956844
P	4.57	H 13.5	G 0.15	

From 19 observations 1991 Oct. 29-1992 Jan. 14, mean residual 0".51.

1991 UM1 = 1952 UE1 = 1955 QM1 = 1981 OB

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	115.91025	(2000.0)	P	Q
n	0.30283217	Peri. 353.31582	+0.86015865	+0.50898248
a	2.1961806	Node 336.00146	-0.46414864	+0.75467430
e	0.2060213	Incl. 4.60000	-0.21140751	+0.41400909
P	3.25	H 13.8	G 0.15	

Residuals in seconds of arc

521024	760	1.1+	1.5-		810726	688	1.0+	1.6-		911029	399	1.2+	1.7+
521024	760	0.4+	1.2-		810827	688	1.2+	2.1-		911029	399	0.9-	0.6+
550825	760	1.3-	3.6+		810827	688	1.0+	1.9-		911111	399	0.4-	1.7-
550825	760	3.0-	3.8+		911028	399	1.0-	0.6-		911111	399	0.8-	0.4-
810726	688	0.6+	2.0-		911028	399	1.0+	0.8+					

1991 VH

Epoch 1992 June 27.0 TT = JDT 2448800.5					Williams
M 226.53324		(2000.0)		P	Q
n 0.81359909	Peri.	206.97729		+0.96372805	+0.21650314
a 1.1363944	Node	139.52131		-0.18010855	+0.95910799
e 0.1437566	Incl.	13.91019		-0.19694961	+0.18231363
P 1.21	H	17.0	G	0.15	

From 32 observations 1991 Nov. 9-1992 Jan. 15, mean residual 0".77.

1991 VL = 1962 PG

Id. G. V. Williams, B. A. Skiff

Epoch 1992 June 27.0 TT = JDT 2448800.5					Williams
M 41.67919		(2000.0)		P	Q
n 0.39682620	Peri.	226.31491		-0.99170648	-0.04346587
a 1.8340134	Node	310.80857		+0.09758054	-0.86710104
e 0.7714822	Incl.	9.19514		-0.08364390	-0.49623230
P 2.48	H	14.0	G	0.15	

Residuals in seconds of arc

620803	760	0.1+	1.1-		911107	675	0.9+	1.5-		911206	801	0.3-	1.0+
620803	760	0.1+	1.7+		911108	675	0.2+	1.4-		911206	801	0.2-	1.3+
820820	413	0.1-	0.0		911109	675	0.2+	0.7+		911207	587	1.0-	1.2+
820820	413	0.1+	0.0		911129	587	0.4+	1.2-		911231	675	0.6+	1.5-
911005	675	0.8-	0.8-		911201	675	0.9-	0.1-		911231	675	0.1+	1.3-
911005	675	0.6-	0.1-		911201	675	0.6-	0.7+		920101	801	0.2-	0.7+
911010	675	0.3-	1.2-		911203	675	0.6+	0.2-		920101	801	0.4-	0.8+
911010	675	2.1+	1.6-		911203	675	0.6+	0.2+		920105	801	0.1-	0.8+
911012	675	0.8-	0.7+		911204	801	0.3-	1.0+		920105	801	0.2-	0.8+
911012	675	0.3+	1.0+		911205	801	0.3-	0.7+					

1991 VF4 = 1968 UY1 = 1972 XH = 1976 YO5 = 1980 XW2

Epoch 1992 June 27.0 TT = JDT 2448800.5					Nakano
M 100.95475		(2000.0)		P	Q
n 0.25959253	Peri.	263.20522		+0.98176839	+0.14378904
a 2.4337423	Node	88.47445		-0.08345615	+0.91370044
e 0.1474800	Incl.	7.14405		-0.17078025	+0.38010027
P 3.80	H	13.1	G	0.15	

Residuals in seconds of arc

681023	095	0.9+	1.7-		911104	894	0.7-	1.0-		911126	400	0.1+	0.1+
721202	095	0.6-	0.8+		911104	894	1.5-	0.4-		911126	400	1.7+	1.3+
761218	095	0.1-	0.1+		911110	894	1.3-	0.7-		911130	400	1.0+	3.2+
801210	095	0.0	1.9-		911110	894	1.6-	0.7+		911130	400	2.0+	1.4-

1991 VF5 = 1974 OQ1 = 1983 EL3

Epoch 1992 June 27.0 TT = JDT 2448800.5					Nakano
M 25.36005		(2000.0)		P	Q
n 0.30236127	Peri.	305.36880		-0.07667038	-0.99500004
a 2.1984602	Node	148.84220		+0.95021315	-0.09236258
e 0.0315098	Incl.	7.10597		+0.30202089	+0.03800106
P 3.26	H	13.4	G	0.15	

Residuals in seconds of arc

740719	808	0.4-	0.5+		911104	894	0.5+	1.2-		911117	894	1.0-	0.6-
740719	808	0.4+	0.1+		911113	894	0.1-	1.0+		911207	894	1.2+	0.1+
830314	095	0.3+	0.9+		911113	894	0.5-	0.3+		911207	894	1.0+	0.2-
911104	894	1.3-	1.0+		911117	894	0.1+	0.5+					

1991 VK5 = 1951 ED1 = 1977 AB3 = 1978 GC3

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	128.41370	(2000.0)	P	Q	
n	0.18654901	Peri.	215.89100	+0.67092149	+0.71562338
a	3.0334773	Node	97.12332	-0.62647924	+0.68720154
e	0.0761080	Incl.	11.29137	-0.39672171	+0.12504888
P	5.28	H	11.5	G 0.15	

Residuals in seconds of arc

510309	760	0.2-	0.2-		780406	330	0.2+	0.5+		911113	894	0.3-	0.4+
510309	760	0.1-	1.5-		911104	894	0.5+	0.5-		911117	894	0.0	0.1+
770112	675	0.3-	0.3+		911104	894	0.0	0.8-		911117	894	0.7+	0.5+
770113	675	0.1+	1.1+		911113	894	0.6-	0.1-					

1991 WA

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	136.73709	(2000.0)	P	Q	
n	0.49798567	Peri.	241.77749	+0.43689396	+0.68192858
a	1.5763700	Node	66.78058	-0.42036072	+0.73132145
e	0.6426586	Incl.	39.66510	-0.79524873	-0.01193127
P	1.98	H	17.5	G 0.15	

From 19 observations 1991 Nov. 29-1992 Jan. 2, mean residual 0".98.

1991 WC = A903 VC = 1980 WL2 = 1987 QS10 = 1989 EW11

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	101.82648	(2000.0)	P	Q	
n	0.26916738	Peri.	276.97570	+0.99513258	-0.07452566
a	2.3756790	Node	87.31280	+0.09418213	+0.91178416
e	0.2428046	Incl.	3.70081	-0.02899799	+0.40385092
P	3.66	H	13.1	G 0.15	

Residuals in seconds of arc

031114	024	1.3+	3.6-		911130	886	1.1+	0.5-	Y	911205	399	2.1-	0.2+
801130	095	0.8-	0.7+		911202	403	1.9+	0.0	Y	911208	886	0.8-	1.3-
801210	095	0.6-	1.0+		911203	886	0.7+	1.6+	Y	911208	886	1.3+	0.7+
870827	095	0.2+	0.1-		911204	399	0.3+	1.1+		911210	886	0.9-	0.0
870922	095	0.1-	0.1+		911204	399	0.4+	1.7+		911210	886	0.4+	0.2-
890303	808	0.5-	0.6-		911204	403	0.7+	0.3+		911213	886	0.5-	1.2-
890303	808	0.1-	1.2-		911205	399	0.7-	0.0		911213	886	1.1-	0.1-

1991 XB

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	41.02752	(2000.0)	P	Q	
n	0.19245728	Peri.	171.68129	+0.45732018	-0.85009082
a	2.9710718	Node	250.76048	+0.79917337	+0.52167162
e	0.5793963	Incl.	16.05783	+0.39010278	-0.07214096
P	5.12	H	18.0	G 0.15	

From 26 observations 1991 Dec. 1-1992 Jan. 15, mean residual 0".52.

1991 XZ = 1975 EB = 1982 FF = 1984 WJ3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Urata

M	34.50239	(2000.0)	P	Q
n	0.28633521	Peri. 151.95812	-0.53564438	-0.84361888
a	2.2797447	Node 330.38451	+0.75995739	-0.46231744
e	0.1773822	Incl. 4.33029	+0.36817097	-0.27307466
P	3.44	H 13.6	G 0.15	

Residuals in seconds of arc

750304	095	1.3+	2.9+	841128	010	0.7-	2.4-	920101	898	1.0-	1.4+
820221	688	1.0+	3.1-	911214	898	0.6-	0.1+	920102	898	0.7-	0.6-
820221	688	0.2+	0.7-	911214	898	0.2-	0.7+	920102	898	1.7+	1.3+
820321	688	1.4-	0.9-	911230	898	1.3-	1.4-	920104	898	0.2+	0.2-
820321	688	1.7-	0.5+	911230	898	0.6-	0.2-	920104	898	0.6+	1.8+
841127	010	1.2+	0.8-	920101	898	1.9+	0.8-				

1991 XC1 = 1974 VE3 = 1974 WO1 = 1987 AP
Id. S. Nakano, O. Kippes (d, MPC 6840)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	75.05483	(2000.0)	P	Q
n	0.17769400	Peri. 296.62497	+0.91548232	-0.37547807
a	3.1334364	Node 85.72117	+0.40103644	+0.82241003
e	0.2247674	Incl. 8.33736	+0.03258689	+0.42738503
P	5.55	H 12.2	G 0.15	

Residuals in seconds of arc

741109	808	0.4-	1.0-	911213	894	0.7-	0.8+	911226	894	0.3-	0.2-
741109	808	0.3+	0.4-	911213	894	0.4-	0.3-	911226	894	0.5+	0.9-
741117	808	0.2+	1.2+	911214	894	0.2+	0.0	911226	894	1.6+	0.2-
741117	808	0.1-	0.5+	911214	894	0.9+	0.3+	911226	894	0.2+	1.6-
870108	010	0.2-	1.8+	911215	894	0.6-	0.7+	920103	894	1.5-	0.6+
870108	010	0.6+	0.5-	911215	894	0.2-	0.3-	920103	894	0.4-	0.0
870108	010	0.3-	0.9-	911226	894	0.8+	0.8+				

1991 YC = 1988 FT
Epoch 1992 June 27.0 TT = JDT 2448800.5 Urata

M	26.26505	(2000.0)	P	Q
n	0.23834078	Peri. 24.48841	-0.67978875	-0.69177889
a	2.5763437	Node 109.38352	+0.62311011	-0.71993386
e	0.2148076	Incl. 14.96398	+0.38680880	-0.05601072
P	4.14	H 13.1	G 0.15	

Residuals in seconds of arc

880318	675	0.5+	0.2-	911230	385	0.2+	0.2-	920103	885	0.4-	0.9+
880319	675	0.5-	0.2+	911230	385	0.2+	2.2+	920110	885	0.4+	0.6-
911228	885	0.6-	0.4-	911230	886	0.8+	0.4+	920110	885	0.3-	0.1+
911228	885	0.5-	0.6-	911230	886	0.1+	1.7-				

1991 YF = 1952 DA2 = 1987 XD1 = 1990 SY14
Id. S. Nakano, H. Kaneda
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	355.89485	(2000.0)	P	Q
n	0.26892663	Peri. 236.17343	-0.97936367	-0.14037072
a	2.3770967	Node 295.37769	+0.19224106	-0.86903480
e	0.1382733	Incl. 9.26122	-0.06237127	-0.47442025
P	3.66	H 12.6	G 0.15	

Residuals in seconds of arc

520220	711	0.0	0.0 Y	871212	054	0.2-	0.8-	900919	675	0.6+	0.1-
520220	711	(12.3-	5.1-)Y	900917	675	0.3-	0.0	900919	675	0.0	0.2+
871212	054	0.2+	0.3+	900917	675	0.4-	0.2+	911226	400	0.4+	0.8+

911226 400 0.3+ 1.0- 911230 403 0.4- 1.4+ 920102 403 2.1- 2.6-
911227 400 0.6+ 0.3+ 911230 403 2.0- 0.6+ 920124 400 1.4+ 0.0
911227 400 0.6- 1.4+ 920102 403 0.4+ 0.6- 920124 400 2.2+ 0.3+

1991 YG = 1980 PG1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 27.93914 (2000.0) P Q
n 0.28902871 Peri. 258.85269 -0.70680918 -0.70460220
a 2.2655591 Node 236.31271 +0.67495618 -0.64509600
e 0.1743479 Incl. 4.33541 +0.21178985 -0.29561274
P 3.41 H 13.6 G 0.15
Residuals in seconds of arc
800806 809 0.9+ 1.2+ 911216 877 1.4+ 0.4+ 911231 385 0.1- 0.1-
800807 809 0.9- 1.1- 911230 385 1.4+ 0.6- 911231 385 0.4+ 0.5-
911216 877 1.6- 0.7- 911230 385 1.4- 1.5+

1991 YH = 1987 UY4 = 1990 OZ1 = 1990 SB17
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 79.99876 (2000.0) P Q
n 0.28402324 Peri. 56.49305 +0.05491816 -0.99664294
a 2.2920995 Node 30.53301 +0.87188207 +0.01822869
e 0.0619925 Incl. 6.86430 +0.48662681 +0.07981585
P 3.47 H 12.9 G 0.15
Residuals in seconds of arc
871022 095 3.3- 0.8+ 900915 675 0.7+ 2.0- 920102 399 1.1+ 0.0
871027 095 3.4+ 0.9- 900915 675 0.2+ 1.8- 920102 399 2.0+ 0.4-
900729 675 0.1+ 0.2- 900916 675 2.8- 1.9+ 920128 399 0.3- 0.6-
900729 675 0.8+ 0.2- 900916 675 0.7- 1.1+ 920128 399 2.4- 0.7+
900730 675 0.6+ 0.6+ 911230 399 0.5- 0.0 920129 399 0.8- 0.6-
900730 675 0.9+ 0.8+ 911230 399 0.2- 0.8+ 920129 399 1.4+ 0.2+

1991 YZ = 1987 BS = 1990 US11
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 333.45459 (2000.0) P Q
n 0.18818420 Peri. 216.15320 -0.98814312 -0.09887530
a 3.0158792 Node 317.69204 +0.14545882 -0.84774075
e 0.0453345 Incl. 10.04968 -0.04914174 -0.52111351
P 5.24 H 12.0 G 0.15
Residuals in seconds of arc
870126 033 0.6- 0.6+ 901017 095 1.1- 3.6+ 920102 399 1.3- 0.1+
870127 033 0.0 0.2- 911230 399 1.6+ 0.3- 920114 399 0.6- 1.6+
870128 033 0.5+ 0.7- 911230 399 1.1- 0.2+ 920114 399 1.1+ 0.7-
901017 095 1.1+ 3.7- 920102 399 0.5+ 0.6-

1992 AA
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 61.36288 (2000.0) P Q
n 0.35337147 Peri. 354.39829 -0.12673633 -0.98192276
a 1.9814436 Node 102.82530 +0.91559079 -0.17032836
e 0.3898572 Incl. 8.29023 +0.38161684 +0.08255869
P 2.79 H 16.0 G 0.15
From 17 observations 1991 Dec. 8-1992 Jan. 26, mean residual 0".81.

1992 AB
Epoch 1991 Dec. 30.0 TT = JDT 2448620.5 Williams

M	342.85789	(2000.0)	P	Q
n	0.16673208	Peri. 55.75830	-0.61619542	-0.44164992
a	3.2693137	Node 88.94712	+0.31226049	-0.89711937
e	0.5515048	Incl. 40.70926	+0.72304674	+0.01105361
P	5.91	H 14.0	G 0.15	

From 12 observations 1992 Jan. 1-13.

1992 AD
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	3.24605	(2000.0)	P	Q
n	0.01126801	Peri. 354.32926	-0.41052259	-0.83285709
a	19.7047639	Node 119.39380	+0.85246174	-0.49506508
e	0.5557317	Incl. 25.21992	+0.32369769	+0.24750684
P	87.47	H 7.5	G 0.15	

From 36 observations 1992 Jan. 1-Feb. 5, mean residual 0".72.

1992 AE
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Williams

M	28.30664	(2000.0)	P	Q
n	0.30165680	Peri. 283.98645	+0.96912008	-0.22001727
a	2.2018817	Node 88.81192	+0.24634436	+0.88395186
e	0.4364885	Incl. 6.39449	-0.01098795	+0.41257911
P	3.27	H 15.5	G 0.15	

From 22 observations 1992 Jan. 10-Feb. 5.

1992 AF = 1982 FU1 = 1987 DQ1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Urata

M	23.24519	(2000.0)	P	Q
n	0.18895972	Peri. 262.23423	-0.64592676	-0.75647221
a	3.0076218	Node 228.52796	+0.74322602	-0.59245623
e	0.2369010	Incl. 7.87095	+0.17433789	-0.27702961
P	5.22	H 12.6	G 0.15	

Residuals in seconds of arc

820326	046	1.1-	0.8+	870222	010	2.2+	0.9-	920102 385	1.6+ 0.7+ Y
820327	046	1.4-	0.5+	870222	010	0.8-	1.1+	920107 885	0.3+ 0.1-
820327	046	1.9-	2.0+	870222	010	0.9-	1.6+	920107 885	1.4- 1.1-
820327	046	1.5-	2.5+	920101	885	1.6+	0.5- Y	920124 385	0.7+ 1.5-
820328	046	2.4+	3.6-	920101	885	0.0	0.3+ Y	920124 385	1.0- 0.9-
820328	046	3.2+	3.3-	920102	385	2.1-	1.9+ Y		

1992 AL = 1978 SF = 1988 CE1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi

M	83.22666	(2000.0)	P	Q
n	0.24266042	Peri. 273.60340	+0.52926304	-0.83723929
a	2.5456777	Node 143.35222	+0.84077670	+0.49577720
e	0.2830681	Incl. 13.31992	+0.11390862	+0.23072787
P	4.06	H 13.3	G 0.15	

Residuals in seconds of arc

780927	809	0.5+	0.3-	880214	675	3.5-	0.1+	920107 877	1.2+ 1.3-
780928	809	0.0	0.8+	920104	877	3.1+	0.5-	920114 877	0.5+ 1.2+
780929	809	0.5-	0.2+	920104	877	0.3-	1.9+	920114 877	3.3- 0.2+
880211	675	3.5+	0.5+	920107	877	1.2-	1.6-		

1992 AD1 = 1966 DA = 1980 NE = 1989 NU1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	343.64676	(2000.0)	P	Q
n	0.22707666	Peri. 279.57163	-0.96028624	+0.17823462
a	2.6608540	Node 270.92115	-0.08253248	-0.91639758
e	0.1527504	Incl. 12.39773	-0.26653092	-0.35839628
P	4.34	H 12.1	G 0.15	

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

660217	760(0.04+	0.00-)X	800713	805	0.2+	0.1-	920110 402	0.3+ 0.7-
800711	805	0.2- 0.1-	800713	805	0.2-	0.0	920110 402	0.7+ 0.6-
800712	805(10.9-	4.9+)	890708	675	0.8-	0.5+	920111 402	1.1- 0.4-
800712	805 (9.5-	1.2+)	890708	675	2.0+	1.1-	920111 402	0.7- 1.1-
800712	805 (7.8-	4.4+)	890708	675	0.8-	0.0	920126 402	0.2- 0.1+
800712	805	0.4+ 0.3-	890708	675	0.2-	0.0	920126 402	0.5+ 1.7+

1992 AF1 = 1982 FN1 = 1987 SQ21 = 1989 GA7
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi

M	77.03236	(2000.0)	P	Q
n	0.28860708	Peri. 64.00640	+0.00362438	-0.99937968
a	2.2677651	Node 25.85850	+0.88636546	-0.01300773
e	0.1099031	Incl. 4.60680	+0.46297206	+0.03272711
P	3.42	H 13.2	G 0.15	

Residuals in seconds of arc

820325	046	2.4- 2.7+	820328	046	2.2+	2.9-	920110 877	0.8+ 0.1+
820325	046	0.8- 1.1+	820328	046	0.9-	0.5-	920110 877	0.6+ 0.1+
820326	046	0.1+ 0.2+	870918	095	0.7-	1.0+	920117 877	1.3- 0.5-
820326	046	0.1- 0.3+	890404	809	0.6-	0.4+	920117 877	0.5- 0.2-
820327	046	1.7+ 0.9-	890404	809	0.0	1.0+	920125 877	0.4- 0.1-
820327	046	1.2- 0.9-	890404	809	1.3+	0.8+	920125 877	0.3+ 1.4+

1992 AH1 = 1983 AH6 = 1983 CD8
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	22.07903	(2000.0)	P	Q
n	0.21853055	Peri. 160.44004	-0.76856519	-0.63713288
a	2.7297818	Node 339.63920	+0.56252047	-0.62975669
e	0.2461063	Incl. 9.60355	+0.30475936	-0.44437396
P	4.51	H 13.6	G 0.15	

Residuals in seconds of arc

830115	095	0.9- 0.3-	920110	376	1.3+	0.7+	920114 376	1.2- 0.0
830210	095	0.7+ 0.0	920114	376	1.0+	0.4+	920128 376	1.0+ 0.2+
920110	376	0.1+ 0.6-	920114	376	0.9-	0.4-	920128 376	1.2- 0.1+

1992 AK1 = 1990 SP2
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	93.85262	(2000.0)	P	Q
n	0.16936971	Peri. 290.20029	+0.86200550	-0.50442901
a	3.2352826	Node 100.12226	+0.48196428	+0.78506616
e	0.1665866	Incl. 2.91011	+0.15702533	+0.35947530
P	5.82	H 11.7	G 0.15	

Residuals in seconds of arc

900918	675	0.4+ 0.4-	920112	894	0.2-	0.4+	920126 894	0.3- 0.8+
900918	675	0.5- 0.4+	920114	894	0.2-	0.2+	920126 894	0.6+ 0.6-
900920	675	0.2- 0.7+	920114	894	0.5-	0.3-	920202 894	0.8+ 1.2+
900920	675	0.3+ 0.7-	920115	894	0.1+	0.2-	920202 894	0.1- 0.1+
920110	894	0.6+ 0.6+	920115	894	(2.5-	0.1-)	920204 894	0.7- 1.1-
920110	894	0.2+ 1.8-	920124	894	0.2+	0.5-	920204 894	0.4- 0.0
920112	894	0.6- 1.0+	920124	894	0.5+	0.2+		

1992 BA
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Williams
M 238.74400 (2000.0) P Q
n 0.63458315 Peri. 107.49219 -0.36733055 +0.92281251
a 1.3411490 Node 140.32957 -0.90737681 -0.32813164
e 0.0673646 Incl. 10.48107 -0.20429289 -0.20185811
P 1.55 H 20.5 G 0.15
From 15 observations 1992 Jan. 27-Feb. 5.

1992 BB
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Williams
M 328.06666 (2000.0) P Q
n 0.37988468 Peri. 330.49947 -0.92942515 -0.32290904
a 1.8881429 Node 194.54816 +0.24619377 -0.90315217
e 0.2701327 Incl. 45.31739 -0.27487728 +0.28292385
P 2.59 H 15.5 G 0.15
From 5 observations 1992 Jan. 25-Feb. 5.

1992 BC
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Marsden
M 317.35950 (2000.0) P Q
n 0.58314385 Peri. 76.99974 -0.91121817 +0.35676349
a 1.4189015 Node 123.54576 -0.40243465 -0.87769667
e 0.3511042 Incl. 14.30395 +0.08790788 -0.31995056
P 1.69 H 19.0 G 0.15
From 12 observations 1992 Jan. 29-Feb. 3.

1992 BF
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Marsden
M 200.14736 (2000.0) P Q
n 1.13822060 Peri. 336.28792 +0.37655232 +0.92232707
a 0.9084864 Node 315.69800 -0.82885323 +0.29361156
e 0.2670745 Incl. 7.13275 -0.41377612 +0.25120713
P 0.87 H 18.5 G 0.15
From 12 observations 1992 Jan. 30-Feb. 4.

1992 BZ = 1983 YD = 1988 AC3 = 1990 RE8
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 66.30601 (2000.0) P Q
n 0.25646356 Peri. 26.64396 -0.19365690 -0.97967272
a 2.4534974 Node 74.55955 +0.89015220 -0.19788530
e 0.1314095 Incl. 3.11206 +0.41246342 -0.03290556
P 3.84 H 13.4 G 0.15
Residuals in seconds of arc

831225	046	1.6- 1.1-	900914	809	0.3- 0.8+	920114	877	0.4- 1.1+
831225	046	0.8- 1.0+	900914	809	0.0 1.2+	920128	399	1.2+ 2.1-
831228	046	1.4+ 0.6-	900914	809	0.4+ 1.0+	920128	399	1.1- 0.2-
831228	046	1.5+ 0.2+	900915	809	0.9- 0.4-	920129	399	0.3+ 0.6+
840101	046	(0.0 4.1-)	900915	809	0.1- 0.3-	920129	399	0.1- 1.3+
840101	046	0.8- 2.1-	900915	809	0.2+ 0.2-	920201	877	0.5- 2.1+
880111	033	0.5+ 1.1+	920114	877	0.4+ 1.2-	920201	877	(3.7- 0.5-)
880111	033	1.1+ 0.8+	920114	877	(5.2- 7.3+)			

2536 P-L = 1991 RJ16
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 102.95589 (2000.0) P Q
n 0.28585831 Peri. 305.38208 +0.83711446 +0.54496614
a 2.2822795 Node 21.71636 -0.45104897 +0.73671285
e 0.1549849 Incl. 7.36750 -0.30950640 +0.40033248
P 3.45 H 14.2 G 0.15
Residuals in seconds of arc

600924	675	0.6-	0.5-	601025	675	0.0	0.6+	910916	675	1.3-	0.7+
600926	675	0.2-	0.2+	601026	675	0.8-	0.3-	910916	675	0.3+	0.1+
600928	675	0.2+	0.4+	910914	675	0.4+	0.1+	910917	675	0.2+	0.4-
600929	675	0.4+	0.1+	910914	675	0.7-	0.5+	910917	675	0.1+	0.1+
601017	675	1.0+	0.2-	910915	675	1.0+	0.8-				
601022	675	0.0	0.2-	910915	675	0.0	0.3-				

4577 P-L = 1990 QK1
Id. G. V. Williams (MPC 17025), E. Bowell (ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 65.62901 (2000.0) P Q
n 0.22861928 Peri. 273.00008 +0.04085152 -0.99894430
a 2.6488710 Node 174.52453 +0.98170852 +0.03621534
e 0.1368977 Incl. 12.72031 +0.18595575 +0.02826203
P 4.31 H 13.0 G 0.15
Residuals in seconds of arc

600924	675	0.5-	1.3+	900822	675	0.7-	1.4-	900925	809	0.0	1.1+
600926	675	0.9-	1.0+	900828	675	0.1-	1.5-	900926	809	0.5+	1.5+
600927	675	0.2+	1.0+	900828	675	0.3-	0.3+	900926	809	0.7+	1.6+
600928	675	0.4+	0.4+	900914	675	0.2+	1.7-	900926	809	0.6+	1.5+
601017	675	0.6-	0.8-	900914	675	0.2+	0.9-	920102	801	0.3+	0.6+
601022	675	0.4+	1.2-	900919	675	(0.2-	3.8-)	920102	801	0.2+	0.8+
601025	675	0.3+	1.6-	900919	675	(1.2+	2.9-)	920108	801	0.3-	0.5-
601026	675	0.8+	1.7-	900925	809	0.9-	1.3+	920108	801	0.1-	0.5-
900822	675	0.0	1.7-	900925	809	0.4-	1.2+				

7075 P-L = 1991 RG19
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 64.10247 (2000.0) P Q
n 0.19069406 Peri. 135.96224 +0.93601155 +0.34555357
a 2.9893581 Node 204.06448 -0.35086792 +0.90105029
e 0.1831752 Incl. 9.44241 -0.02782237 +0.26210893
P 5.17 H 13.8 G 0.15
Residuals in seconds of arc

600928	675	0.3+	0.6+	601024	675	0.6+	0.0	910917	675	0.4-	1.0-
601017	675	0.5-	1.3-	601026	675	0.7+	0.5+	910917	675	0.3+	1.0-
601022	675	1.1-	0.1+	910914	675	0.1+	0.8+				
601024	675	0.0	0.3+	910914	675	0.1+	1.1+				

2087 T-2 = 1982 SK9 = 1991 RK18
Id. E. Bowell (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 71.55750 (2000.0) P Q
n 0.21780623 Peri. 358.44525 +0.94675681 +0.32122277
a 2.7358305 Node 342.77006 -0.29458961 +0.83725142
e 0.1078097 Incl. 4.18595 -0.12987882 +0.44252232
P 4.53 H 14.0 G 0.15
Residuals in seconds of arc

730919	675	0.7-	0.4+	730924	675	1.0-	1.3+	730925	675	1.2-	1.6-
730919	675	0.3-	1.3+	730924	675	0.7-	1.6+	730929	675	0.4+	0.6+
730920	675	1.2-	0.1-	730925	675	0.4+	1.3-	730929	675	0.5+	1.3+

730930 675 0.6+ 1.1- 731005 675 0.9+ 1.7- 910913 675 0.2- 1.1-
730930 675 0.6+ 0.8- 731005 675 0.1+ 0.6+ 910916 675 0.5- 0.3-
731004 675 1.3+ 0.4- 820920 095 1.5- 2.5+ 910916 675 0.8+ 0.1-
731004 675 0.6+ 0.5- 910913 675 1.1+ 0.6-

2124 T-2 = 1991 RS14
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 60.81257 (2000.0) P Q
n 0.27328289 Peri. 94.58386 +0.93127829 -0.36331088
a 2.3517677 Node 286.72167 +0.32209992 +0.85568050
e 0.1624432 Incl. 1.61213 +0.17021280 +0.36853233
P 3.61 H 15.4 G 0.15
Residuals in seconds of arc
730920 675 0.5- 2.3+ 730930 675 0.0 0.4- 910913 675 0.0 0.0
730924 675 1.0- 1.2+ 730930 675 0.9+ 0.6- 910915 675 0.7+ 0.2+
730924 675 0.5- 1.5+ 731004 675 1.1+ 2.1- 910915 675 1.3- 0.5-
730925 675 0.8- 0.6- 731004 675 0.9+ 0.4- 910915 675 0.7+ 1.9-
730925 675 0.5- 0.8- 731005 675 0.9- 0.5- 910915 675 0.0 0.5+
730929 675 0.7+ 1.6+ 731005 675 0.1+ 0.4-
730929 675 0.3+ 1.1+ 910913 675 0.5+ 0.2-

2287 T-2 = 1991 RD15
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 61.73108 (2000.0) P Q
n 0.21761387 Peri. 181.34449 +0.99771252 +0.06689860
a 2.7374424 Node 174.78974 -0.06098076 +0.95268287
e 0.0223743 Incl. 6.13893 -0.02917325 +0.29651294
P 4.53 H 14.0 G 0.15
Residuals in seconds of arc
730920 675 1.6- 0.5+ 730930 675 (1.5- 2.7-) 731005 675 1.5- 0.1+
730924 675 (1.4- 2.8+) 730930 675 0.0 1.3+ 731005 675 (1.9+ 2.1-)
730924 675 (2.0- 2.8+) 730930 675 1.0- 0.4- 731005 675 1.2- 0.9-
730925 675 1.1+ 1.4- 730930 675 0.1+ 2.0+ 910911 675 0.4+ 0.7+
730925 675 1.5+ 0.6- 731004 675 1.0+ 0.5+ 910911 675 1.9- 0.4-
730929 675 0.5+ 0.7+ 731004 675 0.8- 0.7+ 910915 675 0.1+ 0.3+
730929 675 0.9+ 1.3- 731004 675 0.1- 0.5- 910915 675 1.3+ 0.6-
730929 675 0.5- 0.0 731004 675 0.6- 1.1+
730929 675 1.1+ 0.6- 731005 675 1.0+ 1.2-

4135 T-2 = 1991 RT16
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 88.39507 (2000.0) P Q
n 0.21869207 Peri. 302.46088 +0.87251153 +0.48311214
a 2.7284376 Node 28.84508 -0.38193707 +0.76755114
e 0.0395788 Incl. 8.70082 -0.30470922 +0.42126940
P 4.51 H 13.9 G 0.15
Residuals in seconds of arc
730919 675 0.3+ 0.5+ 730929 675 0.9- 0.2+ 731005 675 0.4- 1.0+
730919 675 0.1- 0.3- 730929 675 0.8+ 0.3- 910915 675 0.7+ 0.6-
730920 675 2.1- 0.3+ 730930 675 0.6+ 0.6+ 910915 675 0.2+ 0.8+
730924 675 0.4- 0.8- 730930 675 1.1+ 0.4- 910917 675 0.0 1.4-
730924 675 0.0 0.1- 731004 675 1.6+ 0.8- 910917 675 0.6- 0.7+
730925 675 1.2- 0.6- 731004 675 0.1+ 0.3-
730925 675 0.1- 1.0+ 731005 675 0.6+ 0.8+

2157 T-3 = 1991 XG
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M 64.28641		(2000.0)	P	Q
n 0.28652122	Peri.	181.17014	+0.47150854	-0.87968131
a 2.2787579	Node	240.70052	+0.80966826	+0.45968555
e 0.1085587	Incl.	4.07501	+0.34945244	+0.12186051
P 3.44	H	14.2	G 0.15	

Residuals in seconds of arc

771007 675	0.4+	0.6-	771017 675 (3.9-	0.0)	911204 399	0.1+	0.2-
771011 675	0.9+	0.6-	771017 675	1.5-	0.0	911205 399	0.1-	0.5+
771011 675	0.3+	0.1-	771021 675	1.5+	0.4-	911205 399	0.3+	0.4+
771012 675	0.6-	1.1+	771021 675	0.4+	0.3+	911214 399	0.1+	0.3-
771012 675	0.9-	1.4+	771022 675	0.3-	0.9+	911214 399	0.3-	0.3-
771016 675	0.2+	2.1-	771022 675	0.1-	0.6+			
771016 675	0.2-	0.7-	911204 399	0.1-	0.1-			

2370 T-3 = 1991 RL14
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 93.49764		(2000.0)	P	Q
n 0.20887808	Peri.	91.64314	+0.67700776	+0.72987234
a 2.8132444	Node	221.49747	-0.71919254	+0.62879260
e 0.1526974	Incl.	8.20732	-0.15627730	+0.26815339
P 4.72	H	14.0	G 0.15	

Residuals in seconds of arc

771007 675	1.8+	0.7-	771016 675	0.2-	1.2-	771022 675	0.3-	1.3+
771011 675	0.5-	0.6+	771017 675	0.8-	0.2+	910913 675	0.2-	0.6-
771011 675	0.2-	0.6+	771017 675	1.8-	0.9+	910913 675	0.5-	0.8-
771012 675	0.8-	0.6+	771021 675	0.4+	0.5-	910915 675	0.4-	1.3+
771012 675	0.2-	0.6+	771021 675	1.0+	0.4+	910915 675	1.0+	0.1+
771016 675	0.4+	2.4-	771022 675	1.1+	0.4-			

3398 T-3 = 1991 YN
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 85.94467		(2000.0)	P	Q
n 0.28970620	Peri.	266.66657	+0.52430856	-0.85132775
a 2.2620256	Node	151.68752	+0.79592086	+0.48223931
e 0.1271012	Incl.	2.23331	+0.30267228	+0.20660664
P 3.40	H	15.0	G 0.15	

Residuals in seconds of arc

771007 675	0.6-	1.4-	771012 675	0.2+	0.7-	771021 675	0.6-	0.3+
771011 675	0.8-	1.2+	771016 675	0.0	0.1+	911230 511	0.8+	1.0-
771011 675	1.6-	1.3+	771016 675	0.5+	1.1-	911230 511	0.7+	0.1-
771012 675	1.4+	0.1+	771017 675	0.1+	1.1+	911231 511	0.9-	0.7+
771012 675	0.2-	0.6-	771017 675	0.4-	0.3-	911231 511	0.7-	0.4+
771012 675	2.1+	0.1+	771021 675	0.1-	0.1-			

4032 T-3 = 1991 RF21
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M 61.03522		(2000.0)	P	Q
n 0.27969797	Peri.	325.70260	+0.93393495	-0.35112507
a 2.3156691	Node	54.99198	+0.34352670	+0.82998685
e 0.1761119	Incl.	4.68559	+0.09876699	+0.43339707
P 3.52	H	14.8	G 0.15	

Residuals in seconds of arc

771007 675	1.5+	0.5+	771016 675	1.8-	0.9+	771021 675	1.0+	0.8+
771011 675	0.8+	0.9-	771016 675	2.5-	0.3-	910914 675	0.1+	0.1-
771011 675	0.2+	0.0	771017 675	1.4-	0.8-	910914 675	0.3-	0.8+
771012 675	0.8+	0.3-	771017 675	0.0	0.4-	910916 675	0.5+	1.2-
771012 675	0.3+	0.9-	771021 675	1.1+	1.2+	910916 675	0.4-	0.7+

NEW NAMES OF MINOR PLANETS.

(2623) Zech = A919 SA
Discovered 1919 Sept. 22 by K. Reinmuth at Heidelberg.
Named in honor of Gert Zech (1941-), astronomer at the Astronomisches Rechen-Institut and editor of "Astronomy and Astrophysics Abstracts" who has also worked on the determination of the mass of the earth and the astronomical unit from observations of (433) Eros. Name proposed and citation prepared by L. D. Schmadel; endorsed by O. Kippes, who found the key identification involving this object.

(3178) Yoshitsune = 1984 WA
Discovered 1984 Nov. 21 by K. Suzuki and T. Urata at Toyota.
Named for one of the most famous and tragic Japanese military commanders, Minamoto Yoshitsune (1159-1189). In 1185, he defeated the Heike in the great sea battle of Dannoura, and afterwards the jealousy of his elder brother Yoritomo forced him to commit suicide by the sword.

(3263) Bligh = 1932 CN
Discovered 1932 Feb. 5 by K. Reinmuth at Heidelberg.
Named for Lt. William Bligh (1754-1817), renowned navigator, who had sailed with Captain Cook on the latter's second voyage to the south Pacific. Despatched to Tahiti in H.M.S. Bounty, Bligh was cast adrift in an open boat by mutineers off the Friendly Islands with 18 of his crew. Without charts, Bligh managed to navigate the tiny vessel over some 4000 miles of ocean to safety in Timor. Commended for his command of the Bounty's launch by the court-martial set up to investigate the loss of his ship, Bligh was cleared of all blame for the mutiny. However, he remains unique in British naval history as the only naval commander to suffer two mutinies--the second being in 1808, while he was Governor of New South Wales. Name proposed by G. V. Williams, who wrote the citation, and endorsed by E. Bowell, who made the principal identification involving this planet.

(3264) Bounty = 1934 AF
Discovered 1934 Jan. 7 by K. Reinmuth at Heidelberg.
Named for His Majesty's Ship Bounty. In 1787 the Admiralty dispatched the ship, under the command of Lt. Bligh, to Tahiti, to collect breadfruit plants for the slave plantations in the West Indies. The Bounty was taken by mutineers to Pitcairn Island, where the ship was destroyed, in a bay now known as Bounty Bay. The mutineers' refuge was accidentally discovered in 1808 by an American whaling vessel, which found only one survivor from the mutineers who went to Pitcairn. Name proposed by G. V. Williams, who wrote the citation, and endorsed by E. Bowell, who made the principal identification involving this planet.

(3265) Fletcher = 1953 VN2
Discovered 1953 Nov. 9 by K. Reinmuth at Heidelberg.
Named for Fletcher Christian (1764-?), leader of the mutiny aboard H.M.S. Bounty. A long-standing friend of Bligh's, Fletcher was invited by Bligh to accompany him on the voyage to Tahiti as Master's Mate. After the mutiny, the ship returned to Tahiti, where 16 of the mutineers decided to stay. Fletcher took the other mutineers to Pitcairn Island, where they hoped to avoid capture by the Royal Navy. Although the descendants of Fletcher Christian still live on Pitcairn, the fate of Christian himself remains unclear--one account has him being killed on Pitcairn, another has him returning secretly to England. Named proposed by G. V. Williams, who wrote the citation, and endorsed by E. Bowell, who made the principal identification involving this planet.

(3406) Omsk = 1969 DA
Discovered 1969 Feb. 21 by B. A. Burnasheva of the ITA at the Crimean Astrophysical Observatory.
Named for the city of Omsk, the discoverer's birthplace, one of great industrial, cultural and scientific centers in Siberia.

(3733) Yoshitomo = 1985 AF
Discovered 1985 Jan. 15 by K. Suzuki and T. Urata at Toyota.
Named for a Japanese military commander, Minamoto Yoshitomo (1123-1160), father of Yoritomo and Yoshitsune. Though he won the battle of Hogen (1156) and had a chance to enter the militarist government of Japan, he lost the battle of Heiji (1159) and was put to death.

(3782) Celle = 1986 TE
Discovered 1986 Oct. 3 by K. Augustesen, H. J. Fogh Olsen and P. Jensen at Brorfelde.
Named for the beautiful German city of Celle on the occasion of its seven-hundredth anniversary in 1992. Celle, which is situated in the province of Niedersachsen, is the twin town to Holbaek, the Danish town nearby the Brorfelde Observatory. The Danish queen Caroline Mathilde (1751-1775), banished from the court in 1772, went to Celle, where she died of copper poisoning. She was buried in the old Celle castle. Name proposed by the discoverers following a suggestion from the town of Holbaek.

(3885) Bogorodskij = 1979 HG5
Discovered 1979 Apr. 25 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in memory of Aleksandr Fyodorovich Bogorodskij (1907-1984), Soviet astrophysicist, director of the Astronomical Observatory of Kiev University, well known for his works on Einsteinian gravitation, solar physics and planetary nebulae.

(3886) Shcherbakovia = 1981 RU3
Discovered 1981 Sept. 3 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in memory of Sergej Vasil'evich Shcherbakov (1856-1931), founder of the Nizhegorodskij circle of amateur physicists and astronomers, author of the first "Manual of Cosmography" in Russia and involved in establishing the "Russian Astronomical Calendar". The name is also in memory of his granddaughter Marianna Valentinovna Shcherbakova (1910-1991), docent of geography of Kiev University and an active lecturer in the Kiev Planetarium.

(3902) Yoritomo = 1986 AL
Discovered 1986 Jan. 14 by S. Inoda and T. Urata at the Karasuyama Astronomical Observatory.
Named for Minamoto Yoritomo (1147-1199), the first shogun and founder of the Japanese feudal system. In his boyhood, Yoritomo was confined under the Heike's surveillance for 20 years in a place of exile near the residence of the second discoverer of this asteroid. Yoritomo destroyed the Heike with his brothers' help and became the first supreme commander of Japan in 1192, marking the beginning of the Kamakura era.

(3923) Radzievskij = 1976 SN3
Discovered 1976 Sept. 24 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Vladimir Vyacheslavovich Radzievskij, professor at the Nizhegorodskij Pedagogical Institute, known for his work in celestial mechanics, the cosmogony of the solar system and the origin of comets.

(3942) Churivannia = 1977 RH7

Discovered 1977 Sept. 11 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in memory of the father and the older brother of the astronomer K. I. Churyumov, friend of the discoverer. Ivan Ivanovich Churyumov (1907-1942) perished in World War II near Kharkov, and Ivan Ivanovich Churyumov (1929-1988) was a philosopher and poet.

(3945) Gerasimenko = 1982 PL

Discovered 1982 Aug. 14 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Svetlana Ivanovna Gerasimenko, staff member of the Institute of Astrophysics in Dushanbe, researcher on comets and codiscoverer of periodic comet Churyumov-Gerasimenko.

(3965) Konopleva = 1975 VA9

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

Named in honor of Valentina Petrovna Konopleva, astronomer at the Main Ukrainian Astronomical Observatory at Golosseevo, near Kiev, known for her works on the physics and statistics of comets.

(3966) Cherednichenko = 1976 SD3

Discovered 1976 Sept. 24 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Vladimir Ivanovich Cherednichenko, docent of Kiev Polytechnical Institute, known for his research on physical and chemical processes in comets.

(3986) Rozhkovskij = 1985 SF2

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

Named in memory of Dmitrij Aleksandrovich Rozhkovskij (1915-1991), a leading astronomer at the Astrophysical Institute of the Kazakh Academy of Sciences for many decades. He was an outstanding observer and researcher on several types of celestial objects, especially reflection nebulae and new comets.

(3998) Tezuka = 1989 AB

Discovered 1989 Jan. 1 by T. Kojima at Chiyoda.

Named in memory of Osamu Tezuka (1928-1989), celebrated Japanese master of animation. A doctor of medicine, yet already a writer of comic books at the age of 18, he made particular use of movie techniques in his works. His writings therefore differed from the usual comics or caricatures, and the style that he initiated is known in Japanese as "Manga". His works, amounting to more than 100 million copies of over 400 books, included "Tetsuwan Atom" (Astro Boy), "Jungle Taitei" (Emperor of the Jungle) and "Hi no Tori" (Fire Bird). They present both children and adults with dreams and hopes and cover a very wide range of subjects, from science fiction to human nature, philosophy, pacifism and faith.

(4009) Drobyshevskij = 1977 EN1

Discovered 1977 Mar. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Ehduard Mikhajlovich Drobyshevskij, physicist and astrophysicist at the Ioffe Physical and Technical Institute in St. Petersburg, author of some original cosmogonical ideas and theories of the origin of the planets and the minor bodies of the solar system, also known for his research on the magnetic fields of the sun and other stars.

(4010) Nikol'skij = 1977 QJ2
Discovered 1977 Aug. 21 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in memory of Gennadij Mikhajlovich Nikol'skij (1929-1982), Soviet astronomer, known for his research on the sun and the solar corona and as a codiscoverer of the solar wind.

(4011) Bakharev = 1978 SC6
Discovered 1978 Sept. 28 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in memory of Anatolij Mikhailovich Bakharev (1918-1979), observer and researcher on comets and meteors, one of the discoverers of comet Bakharev-Macfarlane-Krienke (1955 IV).

(4064) Marjorie = 2126 P-L
Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld at Leiden on Palomar Schmidt plates taken by T. Gehrels.
Named in honor of Marjorie Meinel, who with her husband Aden has formed a lifelong team, working closely together with great success.

(4065) Meinel = 2820 P-L
Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld at Leiden on Palomar Schmidt plates taken by T. Gehrels.
Named in honor of U.S. astronomer Aden Meinel, originator of new techniques and facilities, including the Kitt Peak National Observatory, the Optical Sciences Center of the University of Arizona, and future space missions at the Jet Propulsion Laboratory.

(4141) Nintanlena = 1978 PG3
Discovered 1978 Aug. 8 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Nina, Tanya and Elena, wife and daughters of Kiev astronomer K. I. Churyumov.

(4187) Shulnazaria = 1978 GR3
Discovered 1978 Apr. 11 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Leonid Markovich Shul'man and Galina Kirillovna Nazarchuk, husband-and-wife team of researchers on comets, staff members of the Main Ukrainian Astronomical Observatory at Golosseevo, near Kiev.

(4200) Shizukagozen = 1983 WA
Discovered 1983 Nov. 28 by Y. Banno and T. Urata at the Karasuyama Astronomical Observatory.
Named for a dancing girl, the mistress of Minamoto Yoshitsune. The orbit of this asteroid is very similar to that of (3178) Yoshitsune.

(4268) Grebenikov = 1972 TW3
Discovered 1972 Oct. 5 by T. M. Smirnova at the Crimean Astrophysical Observatory.
Named in honor of Evgenij Alexandrovich Grebenikov, head of the department in the Institute of Problems of Cybernetics in Moscow, well-known expert on analytical and celestial mechanics and on the qualitative theory of differential equations. In co-authorship with E. P. Aksenov and V. G. Demin he has investigated the problem of two fixed centers and found its general solution. He has proved a number of theorems substantiating the averaging method by Delaunay-Hill. In a series of studies he and his numerous pupils applied these results to the construction of precise theories of the motions of artificial earth satellites, natural satellites

and minor planets. Name proposed by the Institute of Theoretical Astronomy, St. Petersburg.

(4302) Markeev = 1968 HP

Discovered 1968 Apr. 22 by T. M. Smirnova of the ITA at the Crimean Astrophysical Observatory.

Named in honor of Anatolij Pavlovich Markeev, professor at the Moscow Aviation Institute, well-known expert on theoretical and celestial mechanics. He investigated the stability of Hamiltonian systems in the case of resonances of the third and the fourth orders, constructed theories of motion in the vicinity of the libration points of the three body problem and developed a theory of the motion of large constructions at the near-earth orbits. In addition, he studied various cases of motion of rigid bodies on smooth and rough surfaces. He contributed much to the methods of teaching and published a number of text-books and monographs. Name proposed by the ITA.

(4374) Tadamori = 1987 BJ

Discovered 1987 Jan. 31 by K. Suzuki and T. Urata at Toyota.

Named for a Japanese commander of the Heike, Taira-no Tadamori (1096-1153), father of Taira-no Kiyomori. Tadamori was a man well-educated in classics, and he laid the foundation for his son’s assumption of control over the country.

(4375) Kiyomori = 1987 DQ

Discovered 1987 Feb. 28 by T. Niijima and T. Urata at Ojima.

Named for one of the most brilliant Japanese autocrats in the late Heian era, Taira-no Kiyomori (1118-1181). A hero of Tales of the Heike, Kiyomori succeeded his father, Taira-no Tadamori, as chief of the Taira clan and rose to the Dajodaijin, which was the highest position in the Japanese court. In the year before his death, he crowned his two-year-old grandson as emperor and moved the capital to Kobe, where Japanese modern foreign trade has been developed.

(4376) Shigemori = 1987 FA

Discovered 1987 Mar. 20 by T. Niijima and T. Urata at Ojima.

Named for a Japanese military commander, Taira-no Shigemori (1138-1179), the eldest son of Taira-no Kiyomori. Shigemori was a gentle and popular Naidaijin, Minister of Interior; after his death, the Taira clan quickly went to ruin.

(4377) Koremori = 1987 GD

Discovered 1987 Apr. 4 by T. Niijima and T. Urata at Ojima.

Named for Taira-no Koremori (1160-?), a Japanese military commander who was the eldest son of Taira-no Shigemori. In 1183 he was beaten by the Genji (Minamoto) forces. It is believed that he drowned himself in the Pacific Ocean.

(4400) Bagryana = 1985 QH4

Discovered 1985 Aug. 24 by V. G. Ivanova and V. G. Shkodrov at the Bulgarian National Observatory.

Named in honor of Elisveta Bagryana, the greatest Bulgarian poetess. Her lyric poetry seems to have developed outside literary schools, and she was the first in Bulgarian literature to give a bold portrait of women and their nature; her poems have been translated into more than 25 languages. Bagryana was a great admirer of astronomy; in 1984, she wrote: "Now, after outliving my 90th birthday, my only will is to see for a second time Halley’s comet, whose appearance when I was 17 years old aroused my

incessant thirst to reveal the mysteries of the vast Universe." Her wish was fulfilled.

(4407) Taihaku = 1988 TF1
Discovered 1988 Oct. 13 by M. Koishikawa at the Ayashi Station of the Sendai Astronomical Observatory.
Named for the southwest part of the city of Sendai, a scenic recreation area known as Taihaku-ku in which interesting Old Stone Age relics have been discovered. In ancient times, Venus was called "Taihaku" in Japan, and folklore says that this area's Mt. Taihaku was built up by the fall of Venus.

(4432) McGraw-Hill = 1981 ER22
Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.
Named after the 1.3-m McGraw-Hill telescope located on the southwest ridge of Kitt Peak, Arizona, which was the site for the first physical observations for this minor planet. The telescope is operated by a consortium comprising the University of Michigan, Dartmouth College and the Massachusetts Institute of Technology. Originally erected at Stinchfield Woods near Dexter, Michigan, in July 1969, the telescope was moved to its current location in 1975 through the generous financial support of McGraw-Hill Incorporated and the Sloan Foundation. Name proposed and citation provided by R. P. Binzel.

(4488) Tokitada = 1987 UK
Discovered 1987 Oct. 21 by K. Suzuki and T. Urata at Toyota.
Named for Taira-no Tokitada (1130-1189), a Japanese military commander in the late Heian era who was the uncle of Taira-no Kiyomori. After the battle of Dannoura, Tokitada was sent into exile to the Noto peninsula, where Percival Lowell visited in 1889 and wrote "Noto, an unexplored corner of Japan".

(4539) Miyagino = 1988 VU1
Discovered 1988 Nov. 8 by M. Koishikawa at the Ayashi Station of the Sendai Astronomical Observatory.
Named for the eastern part of the city of Sendai, known as "Miyagino" since the seventh century. This area, where the Sendai International Port is located, sustains industry and agriculture.

(4574) Yoshinaka = 1986 YB
Discovered 1986 Dec. 20 by T. Niijima and T. Urata at Ojima.
Named for Kiso Yoshinaka (1154-1184), the Japanese military commander in the late Heian era. He was a first cousin of Minamoto Yoritomo. Once Yoshinaka broke the Taira forces and invaded Kyoto, then capital of Japan, and he was called "General Asahi, the rising sun".

(4614) Masamura = 1990 QN
Discovered 1990 Aug. 21 by Y. Mizuno and T. Furuta at Kani.
Named in honor of Kazutada Masamura (1920-), the secretary of the Oriental Astronomical Association (O.A.A.). Masamura has been observing sunspots since 1935 and has made a great effort to diffuse astronomical knowledge. In addition to establishing the Gifu Astronomical Observatory in 1971, Masamura provides financial assistance for awards given by the O.A.A. to Japanese amateur discoverers of comets, novae and minor planets.

(4636) Chile = 1988 CJ5
Discovered 1988 Feb. 13 by E. W. Elst at the European Southern Observatory.

Named for the beautiful South American country in which the European Southern Observatory is located. Noted for its great wines, Chile is chiefly mountainous, with the Andes dominating the landscape. The extension of Chile across some 38 degrees of latitude embraces nearly all climates. The fascinating Chilean people are racially a mixture of Europeans (the conquistadores from Spain, Basque families) and indigenous tribes (Atacamenos, Diaguitas, Picunches, Araucanians, Huilliches, Pehuenches and Cuncos). Today the proud Araucanian Indians form the only significant ethnic minority.

(4659) Roddenberry = 1981 EP20

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

Named in memory of Eugene "Gene" W. Roddenberry (1921-1991), creator and producer of the television series "Star Trek", "Star Trek: The Next Generation", and six Star Trek motion pictures. Roddenberry explored the human condition through the medium of science fiction, often circumventing television network censors to expound on controversial social and political topics. His unique vision of a positive future for a united humanity inspired a variety of devoted fans. Today Roddenberry, the starship Enterprise, and its crews are known worldwide, and fans number in the millions. Citation provided by I. Heyer at the request of the discoverer.

(4763) Ride = 1983 BM

Discovered 1983 Jan. 22 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Sally K. Ride, the first American woman to fly in space. From 1978 to 1987 Ride was a Space Shuttle astronaut, flying on two missions that launched scientific satellites. She has served the NASA administration, the National Research Council, and the U.S. Congress in both an advisory and administrative capacity. She has conducted studies of the Soviet Space Program and matters related to International Security and Arms Control. Ride is currently professor of physics and director of the California Space Institute at the University of California, San Diego, where she is actively involved in physics education and attracting and encouraging students to enter physics-related fields of study. Her research centers on free-electron lasers. Citation provided by L. A. McFadden at the request of the discoverer.

(4806) Miho = 1990 YJ

Discovered 1990 Dec. 22 by A. Natori and T. Urata at the JCPM Yakiimo Station.

Named for a resort located in suburban Shimizu and about 3 km east of Yakiimo Station. Miho is known for its beautiful seashore and white sands, pine trees and its proximity to Mt. Fuji. It has interesting topography due to its sand-split, and it is most famous for the legend of angels bathing and dancing in the sky.

(4816) Connelly = 1981 PK

Discovered 1981 Aug. 3 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Robert Connelly, mathematician at Cornell University. A specialist in geometry, Connelly has made significant contributions to the theoretical interpretation of optical lightcurves and radar echo power spectra. His work has provided an important foundation for asteroid radar imaging and astrometry, and it has established a valuable framework for using radar data to derive joint constraints on an asteroid’s shape,

rotation and delay-Doppler trajectory. Name suggested and citation written by S. J. Ostro.

(4871) Riverside = 1989 WH1

Discovered 1989 Nov. 24 by M. Koishikawa at the Ayashi Station of the Sendai Astronomical Observatory.

Named to celebrate the 35th anniversary of the "sister city" affiliation of Sendai, Japan, and Riverside, California, which began on 1957 Mar. 9. Riverside, which is the county seat of Riverside County and is located some 80 km east of Los Angeles, has many parks and is known as a health resort.

(4874) Burke = 1991 AW

Discovered 1991 Jan. 12 by E. F. Helin at Palomar.

Named in honor of James D. Burke on the occasion of his retirement from the Jet Propulsion Laboratory. Jim served as manager of the Ranger project, the first American mission to the moon, and as manager of advanced technical studies. He invented the SNAKE guide-rope for the Soviet Mars ’96 mission. In 1991 Jim served as managing director of the International Space University. He made impressive contributions to humanity’s efforts to reach the planets. Name endorsed the Planetary Society and the Jet Propulsion Laboratory.

(4891) Blaga = 1984 GR

Discovered 1984 Apr. 4 by V. G. Shkodrov and V. G. Ivanova at the Bulgarian National Observatory.

Named in honor of Blaga Dimitrova, talented Bulgarian poetess, novelist and translator. Her intellectual works are profoundly philosophical, revealing the intrinsic psychology of modern mankind and the struggle for morality. The poetess herself maintains an open and courageous civic stand. Some of her works are translated into many languages.

(4972) Pachelbel = 1989 UE7

Discovered 1989 Oct. 23 by F. Borngen at Tautenburg.

Named for the composer Johann Pachelbel (1653-1706) of Nurnberg, an important representative of the art of organ music whose free-form choral preludes and fugues had a considerable influence on J. S. Bach.

(5004) Bruch = 1988 RR3

Discovered 1988 Sept. 8 by F. Borngen at Tautenburg.

Named for the German composer Max Bruch (1838-1920), particularly well known for his grandiose first violin concerto.

(5006) Teller = 1989 GL5

Discovered 1989 Apr. 5 by E. F. Helin at Palomar.

Named in honor of the distinguished Hungarian-born, U.S. physicist Edward Teller. Known for his seminal work in physics and astrophysics, notably on the Gamow-Teller relationship, he has also made significant contributions in chemical physics, molecular physics and quantum theory. He has been a professor of physics at George Washington University, the University of Chicago and the University of California. He inspired the creation of the Lawrence Livermore National Laboratory and has served as its director. Senior research associate at the Hoover Institute, Stanford University, since 1975, he has been highly effective in promoting open international science free of secrecy. Having entered the world a few months before the Tunguska event, Teller was honored by the naming of this minor planet by his colleagues on his eighty-fourth birthday, 1992 Jan. 15, during his participation in a NASA Workshop on procedures for the interception of threatening near-earth asteroids and comets.

EPHEMERIDES.

Comet McNaught-Russell (1991v) Elements MPC 19468

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1
1992	02 08	22 00.46	-61 06.9	3.899	3.296	46.3	12.5	16.1
1992	02 18	22 30.09	-61 41.1	3.821	3.274	50.0	13.4	16.1
1992	02 28	23 02.55	-62 10.2	3.736	3.254	54.0	14.3	16.0
1992	03 09	23 37.88	-62 31.2	3.649	3.237	58.2	15.1	15.9
1992	03 19	00 15.91	-62 40.0	3.563	3.223	62.3	15.9	15.8
1992	03 29	00 56.16	-62 32.3	3.482	3.211	66.1	16.5	15.8
1992	04 08	01 37.85	-62 04.6	3.411	3.202	69.6	17.0	15.7
1992	04 18	02 19.87	-61 14.5	3.353	3.196	72.4	17.4	15.7
1992	04 28	03 01.05	-60 01.8	3.309	3.193	74.6	17.7	15.6
1992	05 08	03 40.37	-58 29.3	3.283	3.193	76.0	17.9	15.6
1992	05 18	04 17.08	-56 41.8	3.274	3.196	76.7	17.9	15.6
1992	05 28	04 50.81	-54 45.1	3.283	3.202	76.5	17.9	15.6
1992	06 07	05 21.49	-52 45.8	3.307	3.210	75.7	17.8	15.7
1992	06 17	05 49.21	-50 49.9	3.345	3.221	74.2	17.7	15.7
1992	06 27	06 14.19	-49 02.0	3.394	3.235	72.4	17.4	15.8
1992	07 07	06 36.69	-47 25.9	3.451	3.252	70.3	17.1	15.8
1992	07 17	06 56.93	-46 03.7	3.510	3.272	68.2	16.8	15.9
1992	07 27	07 15.10	-44 56.5	3.571	3.294	66.2	16.4	15.9
1992	08 06	07 31.39	-44 04.9	3.628	3.318	64.4	16.0	16.0
1992	08 16	07 45.88	-43 28.5	3.679	3.346	63.1	15.7	16.1
1992	08 26	07 58.66	-43 06.5	3.721	3.375	62.4	15.4	16.1
1992	09 05	08 09.73	-42 57.9	3.754	3.407	62.5	15.2	16.2
1992	09 15	08 19.08	-43 01.2	3.774	3.441	63.3	15.1	16.3
1992	09 25	08 26.64	-43 14.8	3.782	3.477	64.9	15.1	16.3
1992	10 05	08 32.29	-43 36.9	3.776	3.515	67.4	15.2	16.3
1992	10 15	08 35.87	-44 04.9	3.758	3.555	70.7	15.3	16.4
1992	10 25	08 37.22	-44 36.1	3.729	3.597	74.7	15.5	16.4
1992	11 04	08 36.14	-45 06.8	3.690	3.641	79.5	15.5	16.4
1992	11 14	08 32.46	-45 32.6	3.643	3.687	84.7	15.5	16.5
1992	11 24	08 26.13	-45 48.2	3.593	3.734	90.4	15.3	16.5
1992	12 04	08 17.20	-45 47.5	3.543	3.782	96.4	15.0	16.5
1992	12 14	08 06.04	-45 24.1	3.498	3.832	102.4	14.5	16.6
1992	12 24	07 53.22	-44 32.2	3.463	3.883	108.1	13.9	16.6
1993	01 03	07 39.60	-43 07.8	3.442	3.936	113.3	13.3	16.6
1993	01 13	07 26.16	-41 09.7	3.442	3.989	117.3	12.7	16.7
1993	01 23	07 13.81	-38 40.6	3.465	4.044	119.7	12.2	16.8
1993	02 02	07 03.25	-35 46.1	3.514	4.100	120.3	12.0	16.9
1993	02 12	06 54.89	-32 34.4	3.591	4.157	118.7	12.0	17.0

1992 AE a,e,i = 2.20, 0.44, 6 Elements MPC 19686

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992	02 08	03 32.12	+19 36.1	1.206	1.647	96.9	36.5	18.5
1992	02 18	03 55.25	+21 28.7	1.345	1.703	92.5	35.4	18.8
1992	02 28	04 18.39	+23 00.6	1.489	1.759	88.0	34.2	19.0
1992	03 09	04 41.51	+24 13.5	1.639	1.815	83.4	32.9	19.3
1992	03 19	05 04.55	+25 08.7	1.791	1.871	78.7	31.4	19.5
1992	03 29	05 27.42	+25 47.5	1.946	1.927	74.0	29.9	19.7
1992	04 08	05 50.07	+26 11.1	2.101	1.982	69.3	28.2	19.8

1992 AB a,e,i = 3.27, 0.55, 41 Elements MPC 19686

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992	02 08	03 51.17	+35 25.1	1.047	1.605	104.2	36.6	16.6
1992	02 18	03 54.28	+39 41.9	1.119	1.567	95.9	38.9	16.8
1992	02 28	04 03.22	+43 38.5	1.190	1.533	88.9	40.2	16.9
1992	03 09	04 18.01	+47 17.1	1.258	1.506	83.1	40.9	17.0

1992 03 19	04 38.85	+50 37.7	1.321	1.486	78.4	41.0	17.1
1992 03 29	05 06.12	+53 36.2	1.378	1.472	74.7	40.8	17.1
1992 04 08	05 40.32	+56 05.1	1.429	1.467	71.8	40.4	17.2
1992 04 18	06 21.51	+57 53.6	1.474	1.468	69.7	39.9	17.3
1992 04 28	07 08.77	+58 48.1	1.515	1.477	68.3	39.3	17.3
1992 05 08	07 59.82	+58 36.5	1.554	1.494	67.5	38.6	17.4
1992 05 18	08 51.20	+57 12.8	1.593	1.517	67.0	37.9	17.4
1992 05 28	09 39.66	+54 39.7	1.636	1.547	66.7	37.0	17.5
1992 06 07	10 23.31	+51 07.5	1.684	1.583	66.5	36.0	17.6

1992 BB a,e,i = 1.89, 0.27, 45 Elements MPC 19688

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 02 08	05 37.69	-56 16.9	1.003	1.459	94.4	42.4	18.0
1992 02 18	05 44.79	-52 44.2	0.958	1.437	95.1	43.2	17.9
1992 02 28	05 58.05	-48 11.4	0.912	1.418	96.3	44.0	17.8
1992 03 09	06 16.74	-42 33.8	0.868	1.402	97.6	44.6	17.6
1992 03 19	06 40.00	-35 49.7	0.831	1.390	98.7	45.1	17.5
1992 03 29	07 06.79	-28 05.2	0.808	1.382	99.3	45.5	17.5
1992 04 08	07 36.17	-19 41.2	0.804	1.378	99.0	45.9	17.5
1992 04 18	08 07.16	-11 15.1	0.824	1.379	97.4	46.2	17.5
1992 04 28	08 38.84	-03 27.1	0.869	1.383	94.7	46.5	17.7
1992 05 08	09 10.50	+03 12.4	0.937	1.392	91.3	46.5	17.8
1992 05 18	09 41.58	+08 30.7	1.022	1.405	87.4	46.0	18.0
1992 05 28	10 11.73	+12 30.3	1.120	1.421	83.4	45.1	18.2
1992 06 07	10 40.82	+15 20.8	1.226	1.441	79.4	43.8	18.4

Comet Helin-Alu (1992a) Elements MPC 19654

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1
1992 02 08	07 58.03	+00 58.2	2.433	3.350	154.4	7.3	15.7
1992 02 18	07 50.72	-00 05.9	2.450	3.308	145.0	9.9	15.6
1992 02 28	07 45.02	-01 00.1	2.492	3.268	135.1	12.4	15.6
1992 03 09	07 41.36	-01 45.8	2.553	3.231	125.3	14.5	15.6
1992 03 19	07 39.95	-02 25.5	2.631	3.196	116.1	16.2	15.6
1992 03 29	07 40.81	-03 01.8	2.718	3.163	107.4	17.5	15.7
1992 04 08	07 43.84	-03 37.2	2.813	3.134	99.2	18.4	15.7
1992 04 18	07 48.89	-04 14.2	2.910	3.106	91.7	18.9	15.7
1992 04 28	07 55.73	-04 54.6	3.008	3.082	84.7	19.0	15.8
1992 05 08	08 04.18	-05 40.1	3.104	3.061	78.2	18.8	15.8
1992 05 18	08 14.01	-06 31.9	3.197	3.043	72.1	18.4	15.9
1992 05 28	08 25.05	-07 30.8	3.285	3.028	66.5	17.9	15.9
1992 06 07	08 37.14	-08 37.6	3.368	3.016	61.3	17.2	15.9
1992 06 17	08 50.12	-09 52.6	3.446	3.007	56.5	16.4	16.0
1992 06 27	09 03.87	-11 15.8	3.517	3.001	52.0	15.5	16.0
1992 07 07	09 18.29	-12 47.3	3.584	2.999	47.9	14.6	16.0
1992 07 17	09 33.28	-14 26.7	3.644	3.000	44.2	13.7	16.1
1992 07 27	09 48.77	-16 13.6	3.699	3.004	40.8	12.8	16.1
1992 08 06	10 04.71	-18 07.4	3.750	3.012	37.7	11.9	16.2
1992 08 16	10 21.02	-20 07.5	3.795	3.023	35.1	11.1	16.2
1992 08 26	10 37.68	-22 12.9	3.836	3.037	32.9	10.4	16.2
1992 09 05	10 54.65	-24 22.7	3.872	3.054	31.1	9.8	16.3
1992 09 15	11 11.89	-26 35.8	3.904	3.074	30.0	9.4	16.3

1992 AD a,e,i = 19.70, 0.56, 25 Elements MPC 19686

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 02 08	08 02.54	+21 06.7	7.845	8.778	159.8	2.2	16.9
1992 02 18	07 59.91	+21 27.5	7.919	8.781	149.0	3.3	17.0
1992 02 28	07 57.78	+21 46.3	8.019	8.784	138.4	4.3	17.1
1992 03 09	07 56.30	+22 02.7	8.142	8.788	128.0	5.1	17.2
1992 03 19	07 55.55	+22 16.4	8.283	8.792	117.8	5.7	17.3

1992 03 29	07 55.58	+22 27.5	8.438	8.796	107.9	6.2	17.3
1992 04 08	07 56.41	+22 35.9	8.602	8.800	98.2	6.5	17.4
1992 04 18	07 58.01	+22 41.7	8.770	8.805	88.7	6.5	17.4
1992 04 28	08 00.35	+22 44.9	8.937	8.810	79.5	6.5	17.5
1992 05 08	08 03.38	+22 45.8	9.100	8.815	70.5	6.2	17.5
1992 05 18	08 07.02	+22 44.5	9.255	8.820	61.7	5.8	17.5
1992 05 28	08 11.19	+22 41.2	9.397	8.825	53.0	5.3	17.5
1992 06 07	08 15.84	+22 36.0	9.525	8.831	44.5	4.6	17.5
1992 06 17	08 20.87	+22 29.1	9.636	8.837	36.2	3.9	17.5

1992 BF a,e,i = 0.91, 0.27, 7 Elements MPC 19688

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 02 08	09 12.86	+12 56.6	0.123	1.109	176.4	3.2	14.5
1992 02 13	08 34.45	+10 49.2	0.114	1.097	162.8	15.4	14.8
1992 02 18	07 53.89	+08 11.9	0.111	1.084	147.9	28.9	15.2
1992 02 23	07 14.94	+05 21.2	0.112	1.069	133.3	42.3	15.5
1992 02 28	06 40.36	+02 36.1	0.117	1.053	119.8	54.7	15.9
1992 03 04	06 11.19	+00 08.3	0.124	1.036	107.6	65.8	16.4
1992 03 09	05 47.01	-01 59.7	0.132	1.017	96.9	75.7	16.8
1992 03 14	05 26.63	-03 50.3	0.141	0.997	87.2	84.7	17.2
1992 03 19	05 08.66	-05 26.4	0.150	0.976	78.3	93.1	17.6
1992 03 24	04 51.92	-06 49.9	0.158	0.954	69.9	101.1	18.1
1992 03 29	04 35.47	-08 00.7	0.167	0.931	61.8	109.1	18.6
1992 04 03	04 18.65	-08 57.4	0.176	0.908	53.9	117.1	19.1
1992 04 08	04 01.03	-09 37.0	0.185	0.883	46.2	125.1	19.8

1992 BC a,e,i = 1.42, 0.35, 14 Elements MPC 19688

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 02 08	10 07.42	+55 09.7	0.105	1.068	139.2	37.1	15.8
1992 02 13	11 24.9	+70 16.0	0.104	1.045	121.2	53.9	16.2
1992 02 18	14 59.7	+77 29.7	0.112	1.023	105.1	68.9	16.7
1992 02 23	18 00.0	+71 54.3	0.126	1.002	92.4	80.4	17.3
1992 02 28	19 02.25	+64 02.5	0.144	0.984	83.1	88.6	17.9
1992 03 04	19 29.84	+57 20.3	0.164	0.967	76.6	93.9	18.3
1992 03 09	19 45.91	+51 50.7	0.185	0.952	72.1	97.3	18.7
1992 03 14	19 57.29	+47 15.3	0.206	0.940	69.0	99.1	19.0
1992 03 19	20 06.66	+43 19.1	0.228	0.931	67.2	99.8	19.3
1992 03 24	20 15.24	+39 52.2	0.249	0.925	66.1	99.6	19.4
1992 03 29	20 23.58	+36 48.3	0.269	0.921	65.8	98.8	19.5
1992 04 03	20 31.92	+34 02.8	0.289	0.921	66.0	97.4	19.6
1992 04 08	20 40.37	+31 32.2	0.308	0.924	66.6	95.5	19.7

1990 UQ a,e,i = 1.55, 0.48, 4 Elements MPC 19680

Date TT	R. A. (2000)	Decl.	Delta	r	Variation		V
1992 02 08	13 12.78	-04 03.4	0.952	1.680	-2.87	+16.1	19.8
1992 02 18	13 22.08	-04 04.4	0.810	1.619	-3.51	+19.6	19.4
1992 02 28	13 29.25	-03 36.0	0.678	1.554	-4.37	+24.1	18.8
1992 03 09	13 33.54	-02 28.0	0.558	1.487	-5.53	+29.8	18.2
1992 03 19	13 34.08	-00 27.7	0.450	1.417	-7.08	+36.7	17.4
1992 03 29	13 29.71	+02 43.9	0.357	1.345	-9.14	+43.6	16.6
1992 04 08	13 18.82	+07 32.6	0.277	1.271	-11.74	+45.4	16.0
1992 04 18	12 59.21	+14 32.3	0.213	1.196	-14.67	+27.9	15.6

1987 SL a,e,i = 2.96, 0.61, 19 Elements MPC 19676

Date TT	R. A. (2000)	Decl.	Delta	r	Variation		V
1992 02 08	14 27.95	-25 05.4	2.128	2.433	-1.20	+9.4	20.2
1992 02 18	14 36.33	-27 21.1	1.932	2.361	-1.39	+10.4	19.9
1992 02 28	14 43.15	-29 45.7	1.743	2.288	-1.64	+11.7	19.6
1992 03 09	14 47.88	-32 20.9	1.563	2.214	-1.93	+13.2	19.3

1992 03 19	14 49.83	-35 08.0	1.396	2.138	-2.29	+15.3	18.9
1992 03 29	14 48.16	-38 06.5	1.244	2.062	-2.70	+18.1	18.6
1992 04 08	14 41.81	-41 12.8	1.109	1.985	-3.16	+22.1	18.2
1992 04 18	14 29.83	-44 17.9	0.994	1.907	-3.60	+27.6	17.8
1992 04 28	14 11.75	-47 06.6	0.900	1.829	-3.91	+34.7	17.5
1992 05 08	13 48.33	-49 18.8	0.828	1.751	-3.90	+43.0	17.3
1992 05 18	13 22.42	-50 39.7	0.775	1.674	-3.48	+51.0	17.2
1992 05 28	12 58.14	-51 08.0	0.738	1.598	-2.70	+57.4	17.1
1992 06 07	12 39.44	-50 58.8	0.713	1.523	-1.80	+61.2	17.1
1992 06 17	12 28.62	-50 36.1	0.694	1.451	-1.01	+62.9	17.1
1992 06 27	12 26.28	-50 20.5	0.676	1.383	-0.42	+63.3	17.1
1992 07 07	12 32.52	-50 25.4	0.656	1.321	-0.10	+63.3	17.0
1992 07 17	12 47.44	-50 56.0	0.632	1.265	-0.07	+63.5	17.0
1992 07 27	13 11.79	-51 48.0	0.602	1.217	-0.43	+63.9	16.9
1992 08 06	13 47.35	-52 47.3	0.568	1.179	-1.35	+63.9	16.8

(4954) Eric a,e,i = 2.00, 0.45, 17 Elements MPC 18798

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 02 08	15 30.74	-30 33.6	2.832	2.848	80.9	20.0	18.0
1992 02 18	15 37.51	-31 56.1	2.699	2.860	89.1	20.2	17.9
1992 02 28	15 42.21	-33 17.0	2.566	2.870	97.6	20.0	17.8
1992 03 09	15 44.42	-34 35.8	2.434	2.879	106.5	19.3	17.7
1992 03 19	15 43.74	-35 50.8	2.310	2.886	115.8	18.1	17.6
1992 03 29	15 39.84	-36 59.1	2.196	2.891	125.4	16.3	17.4
1992 04 08	15 32.54	-37 56.5	2.097	2.895	135.3	14.1	17.2
1992 04 18	15 22.03	-38 37.3	2.018	2.898	144.8	11.5	17.0
1992 04 28	15 08.95	-38 56.1	1.964	2.898	153.3	9.0	16.9
1992 05 08	14 54.44	-38 49.3	1.936	2.898	158.3	7.4	16.8
1992 05 18	14 39.99	-38 17.4	1.936	2.895	157.1	7.8	16.8
1992 05 28	14 27.01	-37 25.5	1.964	2.891	150.7	9.9	16.9
1992 06 07	14 16.59	-36 21.8	2.018	2.886	141.9	12.5	17.1
1992 06 17	14 09.34	-35 15.1	2.093	2.879	132.5	15.1	17.2
1992 06 27	14 05.36	-34 13.0	2.186	2.870	123.0	17.3	17.4
1992 07 07	14 04.53	-33 20.4	2.292	2.860	113.9	19.0	17.5
1992 07 17	14 06.55	-32 40.1	2.407	2.848	105.2	20.1	17.7
1992 07 27	14 11.06	-32 12.9	2.526	2.834	97.0	20.8	17.8
1992 08 06	14 17.78	-31 58.2	2.647	2.819	89.1	21.1	17.9
1992 08 16	14 26.39	-31 55.0	2.765	2.802	81.6	20.9	18.0
1992 08 26	14 36.68	-32 01.5	2.880	2.784	74.4	20.5	18.0

Comet Bradfield (1992b) Elements MPC 19654

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1
1992 02 08	17 08.80	-42 09.2	1.056	1.031	60.5	56.4	9.2
1992 02 13	17 56.19	-41 13.1	1.014	0.945	56.3	60.4	8.8
1992 02 18	18 44.65	-38 55.1	0.989	0.859	51.5	64.2	8.3
1992 02 23	19 31.43	-35 15.9	0.985	0.775	46.2	67.2	7.9
1992 02 28	20 14.58	-30 29.7	1.002	0.695	40.8	68.7	7.4
1992 03 04	20 53.46	-24 58.7	1.039	0.622	35.6	68.1	7.0
1992 03 09	21 28.50	-19 05.2	1.095	0.560	30.6	64.6	6.7

Periodic Comet Singer Brewster (1986 XI) Elements MPC 14595

Date	TT	R. A. (2000)	Decl.	Delta	r	Variation		m2
1992 02 28	10 31.36	+00 35.3	1.699	2.683	-1.41	+5.8	20.1
1992 03 09	10 23.74	+01 51.8	1.667	2.641	-1.41	+5.7	20.2
1992 03 19	10 16.87	+03 12.4	1.663	2.600	-1.39	+5.4	20.3
1992 03 29	10 11.65	+04 29.6	1.683	2.560	-1.34	+5.0	20.4
1992 04 08	10 08.72	+05 37.2	1.725	2.520	-1.29	+4.6	20.6
1992 04 18	10 08.46	+06 30.6	1.783	2.481	-1.23	+4.1	20.7
1992 04 28	10 10.92	+07 07.5	1.853	2.442	-1.17	+3.7	20.8

1992 05 08	10 16.00	+07 27.1	1.930	2.404	-1.13	+3.4	21.0
1992 05 18	10 23.47	+07 29.6	2.013	2.368	-1.09	+3.2	21.0
1992 05 28	10 33.05	+07 15.8	2.097	2.332	-1.06	+3.1	21.1
1992 06 07	10 44.48	+06 46.8	2.181	2.297	-1.03	+3.0	21.2
1992 06 17	10 57.50	+06 03.9	2.263	2.264	-1.02	+3.0	21.2
1992 06 27	11 11.89	+05 08.3	2.342	2.233	-1.01	+3.1	21.3
1992 07 07	11 27.47	+04 01.4	2.417	2.203	-1.01	+3.1	21.3
1992 07 17	11 44.09	+02 44.7	2.488	2.175	-1.01	+3.2	21.3
1992 07 27	12 01.62	+01 19.5	2.554	2.149	-1.01	+3.3	21.3
1992 08 06	12 20.01	-00 12.7	2.616	2.125	-1.02	+3.4	21.3
1992 08 16	12 39.16	-01 50.2	2.672	2.104	-1.03	+3.4	21.3
1992 08 26	12 59.03	-03 31.3	2.725	2.085	-1.04	+3.4	21.2
1992 09 05	13 19.61	-05 14.4	2.772	2.068	-1.05	+3.4	21.2
1992 09 15	13 40.85	-06 57.6	2.816	2.054	-1.07	+3.3	21.2

1991 JY a,e,i = 0.95, 0.30, 49 Elements MPC 19680

Date TT	R. A. (2000)	Decl.	Delta	r	Variation		V
1992 02 28	19 10.53	+14 08.6	0.842	0.883	+2.37	+60.6	18.3
1992 03 04	19 14.06	+12 09.6	0.829	0.910	+1.97	+62.4	18.3
1992 03 09	19 18.19	+10 03.7	0.811	0.937	+1.60	+64.1	18.3
1992 03 14	19 22.84	+07 49.6	0.787	0.963	+1.25	+65.7	18.3
1992 03 19	19 27.96	+05 25.6	0.758	0.988	+0.92	+67.2	18.3
1992 03 24	19 33.53	+02 49.2	0.726	1.013	+0.59	+68.6	18.2
1992 03 29	19 39.52	-00 02.6	0.690	1.036	+0.26	+70.0	18.1
1992 04 03	19 45.93	-03 14.0	0.652	1.058	-0.09	+71.2	18.0
1992 04 08	19 52.76	-06 50.2	0.613	1.079	-0.46	+72.0	17.9
1992 04 13	20 00.09	-10 57.4	0.573	1.099	-0.87	+72.1	17.8
1992 04 18	20 08.01	-15 42.7	0.534	1.117	-1.33	+71.1	17.6
1992 04 23	20 16.69	-21 13.8	0.496	1.134	-1.88	+68.2	17.5
1992 04 28	20 26.37	-27 37.6	0.463	1.149	-2.53	+62.4	17.3
1992 05 03	20 37.46	-34 57.9	0.434	1.164	-3.35	+52.8	17.1
1992 05 08	20 50.67	-43 11.3	0.413	1.177	-4.40	+38.6	17.0
1992 05 13	21 07.36	-52 03.0	0.401	1.188	-5.82	+20.0	16.9
1992 05 18	21 30.35	-61 05.3	0.399	1.198	-7.76	-1.7	16.8
1992 05 23	22 06.26	-69 40.9	0.407	1.206	-10.32	-25.2	16.9
1992 05 28	23 12.9	-77 00.5	0.424	1.214	-11.90	-50.0	17.0
1992 06 02	01 32.2	-81 32.1	0.449	1.219	+0.71	-67.9	17.1
1992 06 07	04 33.4	-81 11.1	0.480	1.223	+22.97	-46.1	17.3
1992 06 12	06 15.5	-77 54.0	0.516	1.226	+21.52	-19.3	17.5
1992 06 17	07 05.2	-74 16.4	0.554	1.227	+17.00	-6.0	17.7
1992 06 22	07 34.1	-71 01.2	0.593	1.227	+13.89	+0.0	17.8
1992 06 27	07 53.65	-68 15.5	0.633	1.226	+11.85	+2.4	18.0

Periodic Comet Shoemaker 2 (1984 XVIII) Elements MPC 14593

Date TT	R. A. (2000)	Decl.	Delta	r	Variation		m2
1992 03 09	20 37.35	-31 55.0	2.703	2.148	-1.35	-2.7	21.8
1992 03 19	21 03.98	-31 14.3	2.550	2.071	-1.46	-4.2	21.7
1992 03 29	21 31.52	-30 19.8	2.398	1.995	-1.57	-5.9	21.5
1992 04 08	21 59.97	-29 10.5	2.249	1.919	-1.67	-8.0	21.4
1992 04 18	22 29.28	-27 44.9	2.106	1.845	-1.77	-10.3	21.2
1992 04 28	22 59.44	-26 01.6	1.971	1.773	-1.85	-12.9	21.0
1992 05 08	23 30.37	-23 59.8	1.845	1.702	-1.91	-15.7	20.9
1992 05 18	00 01.95	-21 38.6	1.729	1.635	-1.95	-18.6	20.7
1992 05 28	00 34.03	-18 58.0	1.626	1.572	-1.97	-21.5	20.5
1992 06 07	01 06.42	-15 59.2	1.536	1.514	-1.96	-24.3	20.4
1992 06 17	01 38.88	-12 44.4	1.458	1.461	-1.94	-26.8	20.2
1992 06 27	02 11.21	-09 16.7	1.393	1.416	-1.91	-28.8	20.1
1992 07 07	02 43.17	-05 40.5	1.339	1.379	-1.87	-30.3	20.0
1992 07 17	03 14.54	-02 00.3	1.294	1.351	-1.83	-31.0	19.9

1992 07 27	03 45.19	+01 39.5	1.258	1.334	-1.80	-31.1	19.9
1992 08 06	04 14.92	+05 15.0	1.228	1.327	-1.79	-30.6	19.8
1992 08 16	04 43.57	+08 43.7	1.202	1.332	-1.79	-29.4	19.8
1992 08 26	05 10.99	+12 04.1	1.178	1.347	-1.80	-27.7	19.8
1992 09 05	05 36.90	+15 16.6	1.154	1.373	-1.83	-25.5	19.7
1992 09 15	06 01.03	+18 22.9	1.131	1.409	-1.88	-23.0	19.7
1992 09 25	06 23.03	+21 25.9	1.106	1.453	-1.94	-20.2	19.7
1992 10 05	06 42.42	+24 30.0	1.081	1.504	-2.02	-17.0	19.7
1992 10 15	06 58.67	+27 39.5	1.056	1.561	-2.14	-13.7	19.6
1992 10 25	07 11.14	+30 58.2	1.033	1.624	-2.29	-10.3	19.6
1992 11 04	07 19.04	+34 27.7	1.015	1.690	-2.49	-6.9	19.5
1992 11 14	07 21.61	+38 04.8	1.005	1.760	-2.75	-3.9	19.5
1992 11 24	07 18.22	+41 40.1	1.007	1.832	-3.05	-1.6	19.4
1992 12 04	07 08.77	+44 57.2	1.027	1.906	-3.35	-0.6	19.4
1992 12 14	06 54.32	+47 36.8	1.067	1.981	-3.59	-1.1	19.4
1992 12 24	06 37.15	+49 24.4	1.130	2.057	-3.67	-2.5	19.6
1993 01 03	06 20.44	+50 16.6	1.217	2.134	-3.56	-4.3	19.8
1993 01 13	06 06.99	+50 22.0	1.326	2.211	-3.30	-5.6	20.1
1993 01 23	05 58.29	+49 55.0	1.457	2.288	-2.96	-6.3	20.5

1992 AA a,e,i = 1.98, 0.39, 8 Elements MPC 19685

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 03 19	08 01.04	+35 21.1	0.638	1.394	115.5	40.1	17.3
1992 03 29	08 29.87	+33 35.8	0.728	1.440	112.1	40.0	17.7
1992 04 08	08 56.75	+31 27.2	0.826	1.488	108.6	39.6	18.0
1992 04 18	09 21.85	+29 03.5	0.932	1.537	105.0	39.1	18.3
1992 04 28	09 45.35	+26 30.6	1.046	1.588	101.3	38.4	18.6
1992 05 08	10 07.53	+23 52.4	1.167	1.639	97.5	37.6	18.9
1992 05 18	10 28.62	+21 12.0	1.294	1.691	93.5	36.7	19.2
1992 05 28	10 48.77	+18 31.4	1.427	1.743	89.5	35.6	19.4
1992 06 07	11 08.20	+15 51.9	1.564	1.794	85.4	34.3	19.7

Periodic Comet Helin-Roman-Crockett (1988 XIII) Elements MPC 15672

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m2
1992 03 19	18 26.24	-22 41.0	4.593	4.574	82.7	12.5	18.4
1992 03 29	18 30.84	-22 40.8	4.441	4.578	91.6	12.6	18.3
1992 04 08	18 34.06	-22 41.4	4.289	4.582	100.7	12.4	18.2
1992 04 18	18 35.81	-22 43.4	4.143	4.585	110.1	11.9	18.1
1992 04 28	18 36.00	-22 47.0	4.004	4.588	119.8	11.0	18.0
1992 05 08	18 34.59	-22 52.3	3.879	4.591	129.8	9.7	17.9
1992 05 18	18 31.65	-22 59.0	3.772	4.594	140.1	8.1	17.8
1992 05 28	18 27.32	-23 06.9	3.686	4.597	150.7	6.2	17.6
1992 06 07	18 21.84	-23 15.1	3.625	4.600	161.6	4.0	17.5
1992 06 17	18 15.59	-23 23.1	3.592	4.602	172.6	1.6	17.3
1992 06 27	18 09.00	-23 30.3	3.589	4.604	176.4	0.8	17.2
1992 07 07	18 02.57	-23 36.4	3.615	4.606	165.4	3.2	17.4
1992 07 17	17 56.77	-23 41.3	3.669	4.608	154.5	5.5	17.6
1992 07 27	17 51.97	-23 45.4	3.750	4.609	143.8	7.5	17.7
1992 08 06	17 48.49	-23 48.9	3.853	4.610	133.5	9.2	17.9
1992 08 16	17 46.50	-23 52.3	3.976	4.611	123.4	10.6	18.0
1992 08 26	17 46.08	-23 55.8	4.112	4.612	113.7	11.6	18.1
1992 09 05	17 47.24	-23 59.5	4.259	4.613	104.3	12.2	18.2
1992 09 15	17 49.90	-24 03.2	4.413	4.614	95.2	12.5	18.3
1992 09 25	17 53.96	-24 06.8	4.568	4.614	86.3	12.5	18.4
1992 10 05	17 59.31	-24 09.8	4.722	4.614	77.7	12.2	18.4
1992 10 15	18 05.80	-24 11.9	4.871	4.614	69.3	11.7	18.5
1992 10 25	18 13.29	-24 12.6	5.011	4.614	61.1	10.9	18.5
1992 11 04	18 21.66	-24 11.5	5.141	4.613	53.0	9.9	18.5

Periodic Comet Giclas Elements MPC 14594

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m2
1992	03 19	22 09.41	-13 50.3	3.197	2.381	29.4	11.9	18.6
1992	03 29	22 29.13	-12 17.4	3.089	2.333	34.3	14.0	18.6
1992	04 08	22 48.98	-10 39.6	2.975	2.286	39.0	16.0	18.5
1992	04 18	23 08.96	-08 57.9	2.857	2.240	43.6	18.0	18.5
1992	04 28	23 29.10	-07 13.3	2.736	2.196	48.1	20.0	18.4
1992	05 08	23 49.39	-05 27.0	2.613	2.153	52.5	21.8	18.3
1992	05 18	00 09.85	-03 40.2	2.490	2.112	56.7	23.6	18.2
1992	05 28	00 30.49	-01 54.2	2.367	2.073	60.9	25.3	18.1
1992	06 07	00 51.30	-00 10.6	2.245	2.036	65.0	26.9	18.0
1992	06 17	01 12.23	+01 29.0	2.126	2.002	69.0	28.3	17.9
1992	06 27	01 33.25	+03 03.2	2.009	1.970	73.1	29.6	17.8
1992	07 07	01 54.26	+04 30.1	1.895	1.942	77.2	30.7	17.6
1992	07 17	02 15.13	+05 48.2	1.786	1.917	81.3	31.6	17.5
1992	07 27	02 35.68	+06 56.0	1.680	1.895	85.6	32.3	17.4
1992	08 06	02 55.67	+07 52.2	1.579	1.877	90.1	32.7	17.2
1992	08 16	03 14.78	+08 36.1	1.482	1.864	94.8	32.8	17.1
1992	08 26	03 32.67	+09 07.4	1.391	1.854	99.9	32.5	16.9
1992	09 05	03 48.88	+09 26.2	1.304	1.848	105.4	31.7	16.8
1992	09 15	04 02.92	+09 33.9	1.224	1.847	111.5	30.4	16.6
1992	09 25	04 14.29	+09 32.4	1.151	1.850	118.3	28.5	16.4
1992	10 05	04 22.43	+09 24.5	1.086	1.857	125.8	25.9	16.2
1992	10 15	04 26.98	+09 14.3	1.031	1.868	134.2	22.5	16.0
1992	10 25	04 27.74	+09 06.1	0.990	1.884	143.4	18.4	15.8
1992	11 04	04 24.91	+09 05.1	0.965	1.903	153.1	13.6	15.6
1992	11 14	04 19.31	+09 15.6	0.959	1.926	162.7	8.8	15.4
1992	11 24	04 12.19	+09 40.4	0.975	1.952	168.7	5.7	15.4
1992	12 04	04 05.12	+10 20.3	1.013	1.982	165.1	7.4	15.5
1992	12 14	03 59.58	+11 13.8	1.075	2.014	156.0	11.4	15.9
1992	12 24	03 56.53	+12 18.0	1.158	2.050	146.2	15.5	16.2
1993	01 03	03 56.50	+13 29.4	1.260	2.087	136.7	18.9	16.6
1993	01 13	03 59.52	+14 44.7	1.378	2.127	127.7	21.5	16.9
1993	01 23	04 05.36	+16 00.7	1.511	2.169	119.2	23.3	17.2
1993	02 02	04 13.70	+17 15.1	1.654	2.212	111.3	24.5	17.5
1993	02 12	04 24.14	+18 25.8	1.807	2.257	103.9	25.1	17.7

Periodic Comet Wolf Elements MPC 14594

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m2
1992	03 29	22 09.01	+08 27.3	3.389	2.645	35.8	12.8	21.5
1992	04 08	22 26.07	+09 58.1	3.303	2.619	40.2	14.3	21.5
1992	04 18	22 42.92	+11 30.8	3.211	2.595	44.7	15.8	21.5
1992	04 28	22 59.56	+13 04.0	3.112	2.572	49.3	17.3	21.4
1992	05 08	23 15.91	+14 36.3	3.008	2.550	54.1	18.7	21.4
1992	05 18	23 31.93	+16 06.2	2.899	2.530	58.9	20.0	21.3
1992	05 28	23 47.56	+17 32.1	2.785	2.511	64.0	21.3	21.3
1992	06 07	00 02.69	+18 52.3	2.667	2.495	69.3	22.4	21.2
1992	06 17	00 17.21	+20 05.1	2.546	2.480	74.7	23.3	21.1
1992	06 27	00 30.99	+21 08.4	2.422	2.466	80.5	24.0	21.0
1992	07 07	00 43.81	+22 00.1	2.297	2.455	86.5	24.4	20.9
1992	07 17	00 55.48	+22 37.7	2.172	2.446	93.0	24.5	20.8
1992	07 27	01 05.72	+22 58.6	2.049	2.438	99.9	24.2	20.6
1992	08 06	01 14.24	+22 59.4	1.928	2.433	107.4	23.4	20.5
1992	08 16	01 20.75	+22 36.8	1.814	2.429	115.6	22.1	20.3
1992	08 26	01 25.00	+21 47.2	1.709	2.428	124.4	20.1	20.1
1992	09 05	01 26.79	+20 27.1	1.616	2.428	134.1	17.3	19.9
1992	09 15	01 26.20	+18 35.1	1.540	2.431	144.7	13.8	19.7
1992	09 25	01 23.49	+16 12.5	1.485	2.436	156.0	9.6	19.4
1992	10 05	01 19.27	+13 25.3	1.456	2.442	167.8	4.9	19.2

1992 10 15	01 14.41	+10 24.6	1.454	2.451	177.5	1.0	18.9
1992 10 25	01 09.85	+07 24.9	1.482	2.461	167.0	5.2	19.2
1992 11 04	01 06.46	+04 40.3	1.539	2.474	155.1	9.7	19.5
1992 11 14	01 04.89	+02 21.2	1.621	2.488	143.7	13.6	19.8
1992 11 24	01 05.44	+00 32.9	1.725	2.504	132.9	16.8	20.1
1992 12 04	01 08.21	-00 43.9	1.847	2.522	122.9	19.1	20.3
1992 12 14	01 13.08	-01 31.6	1.981	2.541	113.6	20.8	20.5
1992 12 24	01 19.86	-01 54.2	2.126	2.562	105.0	21.8	20.7
1993 01 03	01 28.31	-01 56.1	2.276	2.585	96.8	22.2	20.9
1993 01 13	01 38.18	-01 41.6	2.430	2.608	89.2	22.1	21.1
1993 01 23	01 49.25	-01 14.5	2.584	2.634	82.0	21.7	21.2
1993 02 02	02 01.34	-00 38.3	2.737	2.660	75.1	21.0	21.3
1993 02 12	02 14.27	+00 04.0	2.887	2.688	68.5	20.0	21.4

Comet McNaught-Russell (1990 XXII) Elements MPC 19654

Date TT	R. A. (2000) Decl.	Delta	r	Elong.	Phase	m1
1992 03 29	22 26.91 -14 12.0	8.492	7.702	35.6	4.3	18.5
1992 04 08	22 30.72 -14 29.2	8.409	7.729	44.7	5.2	18.5
1992 04 18	22 34.10 -14 50.4	8.306	7.757	53.9	6.0	18.5
1992 04 28	22 36.97 -15 16.4	8.188	7.784	63.1	6.6	18.5
1992 05 08	22 39.24 -15 47.7	8.057	7.812	72.5	7.1	18.5
1992 05 18	22 40.84 -16 25.0	7.918	7.841	81.9	7.3	18.4
1992 05 28	22 41.71 -17 08.5	7.777	7.870	91.5	7.4	18.4
1992 06 07	22 41.78 -17 58.4	7.637	7.899	101.3	7.2	18.4
1992 06 17	22 41.00 -18 54.7	7.504	7.928	111.2	6.9	18.4
1992 06 27	22 39.36 -19 56.8	7.383	7.958	121.2	6.3	18.3
1992 07 07	22 36.84 -21 03.9	7.280	7.988	131.3	5.5	18.3
1992 07 17	22 33.51 -22 14.5	7.200	8.019	141.4	4.5	18.3
1992 07 27	22 29.44 -23 27.2	7.146	8.050	151.1	3.5	18.3
1992 08 06	22 24.75 -24 39.9	7.122	8.081	159.8	2.5	18.3
1992 08 16	22 19.63 -25 50.6	7.130	8.113	165.1	1.8	18.4
1992 08 26	22 14.29 -26 57.3	7.172	8.145	163.4	2.0	18.4
1992 09 05	22 08.96 -27 58.2	7.246	8.177	156.0	2.9	18.4
1992 09 15	22 03.89 -28 52.2	7.351	8.210	146.6	3.9	18.5
1992 09 25	21 59.27 -29 38.4	7.485	8.243	136.6	4.8	18.5
1992 10 05	21 55.32 -30 16.6	7.642	8.276	126.5	5.6	18.6
1992 10 15	21 52.17 -30 47.1	7.819	8.309	116.3	6.2	18.7
1992 10 25	21 49.90 -31 10.5	8.010	8.343	106.3	6.6	18.7
1992 11 04	21 48.58 -31 27.4	8.209	8.377	96.4	6.8	18.8
1992 11 14	21 48.19 -31 38.9	8.412	8.411	86.6	6.7	18.9
1992 11 24	21 48.71 -31 45.9	8.612	8.446	77.1	6.5	18.9
1992 12 04	21 50.07 -31 49.2	8.805	8.481	67.7	6.2	19.0
1992 12 14	21 52.20 -31 49.9	8.987	8.516	58.6	5.7	19.1
1992 12 24	21 54.99 -31 48.8	9.154	8.552	49.8	5.0	19.1
1993 01 03	21 58.37 -31 46.6	9.301	8.587	41.3	4.3	19.2
1993 01 13	22 02.22 -31 44.3	9.427	8.623	33.4	3.6	19.2

Periodic Comet Schuster (1978 I) Elements MPC 14594

Date TT	R. A. (2000) Decl.	Delta	r	Variation		m2
1992 03 29	23 08.99 -21 25.9	3.006	2.224	-0.93	-7.9	18.9
1992 04 08	23 30.46 -19 15.1	2.891	2.160	-0.96	-8.9	18.8
1992 04 18	23 52.15 -16 57.2	2.774	2.098	-1.00	-10.0	18.7
1992 04 28	00 14.10 -14 32.6	2.655	2.036	-1.04	-11.1	18.7
1992 05 08	00 36.37 -12 01.7	2.536	1.976	-1.09	-12.3	18.6
1992 05 18	00 58.98 -09 25.0	2.419	1.918	-1.14	-13.4	18.4
1992 05 28	01 22.01 -06 43.2	2.303	1.861	-1.19	-14.6	18.3
1992 06 07	01 45.49 -03 56.9	2.191	1.808	-1.26	-15.7	18.2
1992 06 17	02 09.46 -01 07.1	2.083	1.758	-1.33	-16.8	18.1
1992 06 27	02 33.98 +01 45.5	1.979	1.711	-1.40	-17.7	18.0

1992 07 07	02 59.08	+04 39.4	1.881	1.669	-1.49	-18.5	17.9
1992 07 17	03 24.76	+07 33.7	1.788	1.632	-1.58	-19.1	17.7
1992 07 27	03 51.03	+10 26.9	1.700	1.600	-1.69	-19.4	17.6
1992 08 06	04 17.85	+13 17.8	1.618	1.575	-1.80	-19.3	17.5
1992 08 16	04 45.13	+16 05.0	1.542	1.556	-1.92	-18.9	17.4
1992 08 26	05 12.78	+18 47.6	1.471	1.544	-2.04	-18.0	17.3
1992 09 05	05 40.58	+21 24.9	1.405	1.539	-2.16	-16.6	17.2
1992 09 15	06 08.29	+23 57.0	1.344	1.542	-2.29	-14.7	17.2
1992 09 25	06 35.59	+26 24.6	1.288	1.552	-2.40	-12.3	17.1
1992 10 05	07 02.04	+28 49.5	1.236	1.569	-2.51	-9.4	17.0
1992 10 15	07 27.17	+31 14.4	1.188	1.593	-2.62	-6.2	16.9
1992 10 25	07 50.42	+33 42.5	1.144	1.623	-2.72	-2.6	16.9
1992 11 04	08 11.10	+36 17.5	1.106	1.658	-2.84	+1.2	16.8
1992 11 14	08 28.50	+39 01.8	1.073	1.699	-2.98	+5.0	16.7
1992 11 24	08 41.80	+41 56.2	1.049	1.744	-3.16	+8.6	16.6
1992 12 04	08 50.06	+44 57.4	1.034	1.794	-3.39	+11.6	16.5
1992 12 14	08 52.56	+47 56.5	1.032	1.846	-3.68	+13.6	16.5
1992 12 24	08 48.90	+50 40.0	1.045	1.902	-3.99	+14.1	16.5
1993 01 03	08 39.59	+52 50.1	1.077	1.959	-4.26	+13.1	16.5
1993 01 13	08 26.50	+54 12.3	1.127	2.019	-4.38	+10.7	16.6
1993 01 23	08 12.47	+54 40.2	1.197	2.080	-4.30	+7.9	16.8
1993 02 02	08 00.48	+54 17.7	1.287	2.143	-4.03	+5.3	17.1
1993 02 12	07 52.49	+53 16.5	1.396	2.206	-3.63	+3.4	17.4

1992 03 09	11 34.34	+13 21.4	1.323	2.307	170.3	4.2	16.2
-10.49 -0.12	+ 57.3 - 6.8	1987 SM13	17634	- 5.85 +1.42		-2.9	-11.0
1992 04 08	11 06.97	+14 50.6	1.467	2.343	142.7	15.0	16.9

1992 03 09	11 34.22	-05 47.1	1.613	2.594	169.1	4.2	17.0
- 9.00 -0.17	+ 62.6 + 5.9	1979 SU2	17198	- 5.63 +1.15		+ 63.9	- 5.1
1992 04 08	11 09.83	-02 16.8	1.704	2.620	150.1	11.0	17.4

1992 03 09	11 34.15	-00 27.8	1.752	2.741	173.8	2.3	17.5
- 8.79 -0.16	+ 73.2 + 2.7	1990 TL1	17452	- 5.68 +1.07		+ 58.2	- 6.8
1992 04 08	11 10.19	+03 06.9	1.854	2.760	148.7	10.9	18.0

1992 03 09	11 36.45	+02 53.4	1.572	2.563	175.3	1.8	17.7
- 9.64 -0.22	+ 56.5 + 1.0	1990 SA2	17216	- 6.26 +1.19		+ 33.8	- 7.4
1992 04 08	11 10.00	+05 24.4	1.669	2.572	147.9	11.9	18.4

1992 03 09	11 36.42	-09 09.2	1.907	2.880	165.7	4.9	16.4
- 7.81 -0.15	+ 77.2 + 6.8	1977 TD1	17426	- 5.07 +0.95		+ 84.7	- 4.2
1992 04 08	11 15.05	-04 46.0	1.997	2.918	151.7	9.4	16.7

1992 03 09	11 38.81	+01 14.4	1.638	2.628	174.1	2.2	18.1
- 9.91 -0.27	+ 53.5 + 2.1	1980 RV2	17816	- 6.85 +1.15		+ 37.5	- 6.6
1992 04 08	11 11.02	+03 47.1	1.715	2.622	148.7	11.4	18.7

1992 03 09	11 38.60	-02 05.0	1.635	2.621	171.8	3.1	17.9
- 9.60 -0.31	+ 66.4 + 4.4	1977 TC1	17425	- 6.75 +1.14		+ 59.6	- 6.2
1992 04 08	11 11.42	+01 23.7	1.687	2.600	149.6	11.2	18.3

1992 03 09	11 38.91	+05 01.6	1.884	2.874	174.9	1.7	17.4
- 9.09 -0.20	+ 53.0 - 0.3	1971 UM	17424	- 6.32 +1.01		+ 28.3	- 7.0
1992 04 08	11 13.57	+07 15.9	1.988	2.885	147.9	10.6	18.0

1992 03 09	11 40.00	-01 57.0	2.438	3.424	171.7	2.4	17.9
- 7.01 -0.15	+ 53.0 + 2.5	1981 ER17	17817	- 5.05 +0.73		+ 47.2	- 4.1
1992 04 08	11 20.28	+00 45.5	2.542	3.457	151.9	7.8	18.3

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1992 03 09    11 41.13   +09 01.2    1.939    2.927   172.8     2.4    17.5
-10.03 -0.21  + 19.4 - 2.5   1973 RF     15698   - 7.18 +1.04    -9.7 - 6.2
1992 04 08    11 13.01   +09 22.6    2.048    2.938   146.8    10.8    18.1

1992 03 09    11 41.18   +02 23.0    1.708    2.697   174.0     2.2    15.9
- 8.92 -0.33  + 23.6 + 1.3   1989 TZ15   18432   - 6.46 +1.05  + 10.0 - 5.3
1992 04 08    11 15.56   +03 25.3    1.749    2.663   149.9    10.9    16.3

1992 03 09    11 41.38   +04 39.5    1.632    2.622   174.4     2.1    17.8
- 9.17 -0.25  + 75.4   0.0   1983 RP2    17202   - 6.15 +1.11  + 44.6 - 8.8
1992 04 08    11 15.88   +07 55.7    1.737    2.641   148.1    11.6    18.4

1992 03 09    11 41.54   +12 35.1    1.637    2.621   170.1     3.7    16.5
- 7.88 -0.21  +101.2 - 5.2   1990 TZ2    17453   - 4.90 +1.06  + 42.5 -12.2
1992 04 08    11 20.03   +16 23.5    1.785    2.663   144.3    12.7    17.1

1992 03 09    11 42.39   -09 59.4    1.930    2.899   164.4     5.3    18.2
- 9.10 -0.36  + 43.7 + 7.7   1981 ER5    13038   - 7.10 +0.95  + 63.7 - 1.6
1992 04 08    11 15.65   -07 01.0    1.928    2.852   152.0     9.5    18.3

1992 03 09    11 43.11   -03 35.3    1.670    2.653   169.9     3.8    17.8
- 8.96 -0.26  + 69.3 + 4.7   1979 OB9    10633   - 6.12 +1.07  + 63.7 - 6.0
1992 04 08    11 18.04   +00 04.0    1.760    2.683   151.5    10.2    18.2

1992 03 09    11 43.17   -18 30.8    1.620    2.560   156.3     9.0    17.2
- 8.65 -0.30  + 34.4 +12.7   1986 XH     12005   - 5.78 +1.12  + 78.6 + 0.8
1992 04 08    11 18.88   -15 19.2    1.672    2.599   152.0    10.4    17.4

1992 03 09    11 44.52   -07 49.6    1.403    2.379   166.2     5.7    16.8
- 8.59 -0.32  + 57.3 + 8.1   1988 CX3    17635   - 5.53 +1.19  + 67.5 - 4.6
1992 04 08    11 20.53   -04 18.8    1.475    2.410   153.0    10.9    17.1

1992 03 09    11 47.70   +06 49.2    1.227    2.215   172.4     3.4    16.5
- 9.84 -0.39  + 45.7 - 1.7   1990 SM6    18123   - 6.31 +1.37    +7.1 - 9.4
1992 04 08    11 20.23   +08 22.7    1.319    2.236   148.8    13.4    17.1

1992 03 09    11 46.21   +00 58.3    2.205    3.192   172.3     2.4    17.5
- 7.51 -0.26  + 50.9 + 1.9   1979 QM1    11996   - 5.78 +0.78  + 40.2 - 5.0
1992 04 08    11 24.34   +03 27.9    2.260    3.179   151.9     8.5    17.9

1992 03 09    11 49.10   -01 54.9    1.621    2.605   170.1     3.8    17.2
- 8.46 -0.43  + 61.9 + 4.6   1978 SE3    10516   - 6.42 +1.02  + 56.8 - 5.9
1992 04 08    11 24.11   +01 22.8    1.646    2.577   152.6    10.3    17.5

1992 03 09    11 51.37   +10 10.8    1.933    2.916   170.1     3.4    18.1
-10.06 -0.43  + 23.3 - 2.7   1985 UC     16232   - 8.26 +0.96    -9.8 - 7.3
1992 04 08    11 21.32   +10 39.6    1.960    2.859   147.9    10.7    18.4

1992 03 09    11 50.62   +03 07.8    1.439    2.426   171.9     3.3    16.0
- 8.34 -0.40  + 37.7 + 1.0   1983 EV      8213   - 5.82 +1.12  + 17.0 - 7.0
1992 04 08    11 26.58   +04 44.6    1.509    2.439   151.9    11.1    16.5

1992 03 09    11 53.27   +07 56.1    1.757    2.742   170.7     3.3    17.7
- 9.37 -0.36  + 58.4 - 1.7   4408 T-1    19328   - 7.08 +1.02  + 23.6 - 8.5
1992 04 08    11 26.05   +10 11.7    1.851    2.759   149.1    10.7    18.2

1992 03 09    11 52.89   -02 11.9    1.993    2.974   169.2     3.6    17.7
- 8.80 -0.34  + 44.0 + 3.4   1978 SB3    15700   - 6.94 +0.88  + 40.6 - 4.3
1992 04 08    11 27.03   +00 09.2    2.056    2.987   153.7     8.5    18.0
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1992 03 09	11 52.80	-14 47.0	2.054	3.002	159.0	6.8	17.5
- 7.66 -0.32	+ 56.2 + 9.1	1981 UD2	17629	- 5.92 +0.83	+ 83.3	- 0.8	
1992 04 08	11 30.29	-10 59.3	2.089	3.028	155.5	7.9	17.6
1992 03 09	11 54.63	+05 47.6	1.361	2.347	171.0	3.8	16.4
- 9.55 -0.57	+ 46.8 - 0.1	1986 QR3	14787	- 7.32 +1.20	+ 15.7	- 8.9	
1992 04 08	11 26.04	+07 37.7	1.394	2.319	150.5	12.3	16.8
1992 03 09	11 54.72	-06 36.1	1.655	2.628	165.8	5.3	17.9
- 9.18 -0.44	+ 55.2 + 6.8	1990 UK1	17457	- 7.12 +1.03	+ 63.6	- 4.1	
1992 04 08	11 27.55	-03 17.7	1.698	2.638	154.6	9.4	18.2
1992 03 09	11 55.84	+00 26.3	1.419	2.403	169.9	4.2	16.5
-10.40 -0.44	+ 36.0 + 2.6	1980 RJ	12792	- 7.58 +1.23	+ 23.1	- 6.1	
1992 04 08	11 25.78	+02 11.1	1.505	2.439	152.7	10.8	17.0
1992 03 09	11 57.20	+08 00.9	1.709	2.692	169.8	3.7	17.1
- 9.60 -0.47	+ 54.6 - 1.4	(4691)	17610	- 7.73 +1.01	+ 20.4	- 8.7	
1992 04 08	11 28.44	+10 06.9	1.762	2.675	149.7	10.9	17.4
1992 03 09	11 55.68	+03 50.8	2.109	3.093	170.8	3.0	16.9
- 7.93 -0.35	+ 43.2 + 0.6	1980 TM	16694	- 6.46 +0.78	+ 26.0	- 5.7	
1992 04 08	11 31.98	+05 46.4	2.163	3.087	152.7	8.6	17.2
1992 03 09	11 57.71	-06 01.9	1.506	2.480	165.7	5.7	17.3
- 9.01 -0.49	+ 65.6 + 7.1	1980 SQ	17199	- 6.92 +1.08	+ 71.0	- 5.2	
1992 04 08	11 30.90	-02 14.1	1.553	2.498	155.2	9.7	17.6
1992 03 09	11 57.02	-08 34.2	1.676	2.644	163.9	6.0	17.7
- 8.38 -0.53	+ 71.3 + 8.7	1986 RQ	11342	- 6.97 +0.95	+ 88.7	- 3.5	
1992 04 08	11 31.28	-04 11.4	1.661	2.606	155.7	9.1	17.8
1992 03 09	11 56.16	+03 13.4	2.192	3.176	170.6	2.9	16.7
- 7.35 -0.28	+ 46.5 + 0.6	(4752)	17813	- 5.75 +0.75	+ 29.7	- 5.6	
1992 04 08	11 34.61	+05 19.0	2.294	3.221	153.4	8.0	17.1
1992 03 09	11 58.13	-00 59.6	1.425	2.407	168.8	4.6	16.6
- 9.08 -0.53	+ 47.6 + 4.0	1976 YF5	13167	- 7.00 +1.12	+ 39.3	- 6.3	
1992 04 08	11 30.95	+01 29.7	1.471	2.412	154.2	10.4	16.9
1992 03 09	11 59.04	+08 19.3	1.615	2.598	169.3	4.1	16.9
- 8.63 -0.46	+ 83.5 - 1.6	1988 CH2	13477	- 6.71 +1.01	+ 42.0	-10.6	
1992 04 08	11 33.32	+11 44.2	1.695	2.609	149.7	11.2	17.3
1992 03 09	11 58.23	+00 47.0	2.359	3.340	169.5	3.1	16.8
- 7.16 -0.28	+ 45.2 + 1.5	1991 AR1	18635	- 5.77 +0.69	+ 34.8	- 4.6	
1992 04 08	11 37.05	+02 58.4	2.455	3.389	155.0	7.2	17.1
1992 03 09	11 59.49	+17 33.2	1.893	2.859	163.5	5.7	17.1
- 8.23 -0.33	+ 74.3 - 6.8	1990 VC1	17643	- 6.16 +0.91	+ 14.4	-11.2	
1992 04 08	11 35.62	+19 54.1	2.048	2.922	144.5	11.5	17.6
1992 03 09	12 02.65	+08 46.3	1.637	2.617	168.3	4.4	18.0
- 9.83 -0.50	+ 53.5 - 2.1	7622 P-L	17463	- 7.92 +1.05	+ 15.4	- 9.1	
1992 04 08	11 33.15	+10 42.7	1.710	2.627	150.3	10.9	18.4
1992 03 09	12 01.56	+00 57.3	1.724	2.704	168.8	4.1	17.5
- 8.23 -0.43	+ 62.6 + 2.3	1982 UM2	11438	- 6.50 +0.92	+ 46.5	- 6.8	
1992 04 08	11 36.98	+03 57.9	1.800	2.739	154.6	9.0	17.9

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1992 03 09    12 03.83   +02 02.0    1.486    2.467   168.5     4.6    17.7
- 9.64 -0.70  + 50.0 + 2.7   1983 RZ1    18109   - 8.44 +1.05  + 34.3 - 7.3
1992 04 08    11 33.46   +04 26.9    1.480    2.418   153.6    10.6    17.9

1992 03 09    12 02.63   -02 00.1    1.415    2.394   167.3     5.2    17.1
- 8.45 -0.71  + 73.4 + 6.3   1986 RV2    14789   - 7.42 +1.03  + 71.6 - 6.9
1992 04 08    11 35.61   +02 02.0    1.388    2.334   155.1    10.4    17.2

1992 03 09    12 05.82   +05 22.4    1.220    2.201   168.2     5.3    16.6
- 8.36 -0.70  + 75.2 + 0.7   1985 CC2    18809   - 6.71 +1.16  + 38.6 -11.2
1992 04 08    11 39.75   +08 35.3    1.258    2.197   152.8    12.0    16.9

1992 03 09    12 05.23   +13 37.1    2.555    3.524   165.3     4.1    16.6
- 7.57 -0.35  + 31.2 - 3.2   3045 T-3    15572   - 6.63 +0.63   -2.0 - 7.0
1992 04 08    11 42.11   +14 27.8    2.616    3.516   149.5     8.3    16.9

1992 03 09    12 07.99   +06 53.8    1.706    2.684   167.5     4.6    17.2
- 9.39 -0.55  + 62.4 - 0.7   1990 UD     17454   - 7.99 +0.95  + 30.1 - 8.8
1992 04 08    11 39.14   +09 27.7    1.764    2.690   152.2    10.0    17.5

1992 03 09    12 06.90   -07 02.1    1.525    2.492   163.4     6.5    16.1
- 8.17 -0.57  + 73.7 + 7.8   1990 TG3    17453   - 6.72 +0.97  + 81.9 - 5.2
1992 04 08    11 41.71   -02 44.7    1.561    2.518   158.0     8.6    16.3

1992 03 09    12 04.81   -10 47.4    2.853    3.805   160.9     4.9    18.1
- 6.32 -0.34  + 52.4 + 5.8   1981 DB1    15703   - 5.80 +0.50  + 68.9 - 0.8
1992 04 08    11 45.08   -07 33.3    2.820    3.773   159.4     5.4    18.1

1992 03 09    12 05.66   +02 39.2    2.634    3.612   168.2     3.2    17.7
- 6.98 -0.33  + 44.0 + 0.9   1973 QG2    10829   - 6.14 +0.58  + 32.0 - 4.6
1992 04 08    11 44.31   +04 43.4    2.692    3.629   155.9     6.5    17.9

1992 03 09    12 07.99   -00 03.3    2.091    3.066   166.9     4.2    16.9
- 7.20 -0.41  + 80.8 + 2.7   1991 AO2    17833   - 6.19 +0.71  + 68.1 - 6.4
1992 04 08    11 45.83   +03 57.0    2.154    3.099   156.6     7.4    17.2

1992 03 09    12 08.28   -13 41.7    2.278    3.221   158.1     6.6    17.3
- 7.35 -0.48  + 18.6 + 7.5   5141 T-2    15087   - 6.82 +0.64  + 46.9 + 1.1
1992 04 08    11 44.96   -11 51.5    2.248    3.203   158.9     6.5    17.3

1992 03 09    12 09.51   -03 19.1    1.455    2.428   165.1     6.0    17.0
- 7.99 -0.59  + 47.6 + 5.2   1990 TB4    17642   - 6.56 +0.99  + 46.3 - 5.4
1992 04 08    11 44.78   -00 38.8    1.509    2.467   158.1     8.7    17.2

1992 03 09    12 07.28   -01 16.5    2.342    3.316   166.6     4.0    16.0
- 6.47 -0.39  + 67.0 + 3.1    (4800)     18100   - 5.76 +0.60  + 61.5 - 4.8
1992 04 08    11 47.09   +02 10.9    2.369    3.317   157.6     6.6    16.2

1992 03 09    12 09.14   -21 36.6    1.536    2.453   151.2    11.3    18.1
- 7.15 -0.65  + 45.9 +15.3   1078 T-3    12701   - 6.14 +0.94  +107.6 + 3.0
1992 04 08    11 46.26   -17 23.8    1.513    2.468   157.6     8.9    18.0

1992 03 09    12 11.63   +00 17.9    1.838    2.813   166.2     4.8    18.5
- 8.83 -0.52  + 51.5 + 2.5    (4659)     17415   - 7.66 +0.85  + 40.3 - 5.8
1992 04 08    11 44.37   +02 51.0    1.897    2.845   156.7     8.0    18.7

1992 03 09    12 12.06   -14 46.7    2.197    3.133   156.7     7.2    18.2
- 8.59 -0.56  + 12.2 + 8.2   1985 PL     15709   - 8.16 +0.69  + 45.2 + 1.8
1992 04 08    11 44.62   -13 08.8    2.162    3.116   158.6     6.7    18.1
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1992 03 09    12 11.81   -04 40.8    1.746    2.714   163.9     5.8    16.7
- 8.51 -0.65  + 46.4 + 5.8    (4796)     18099   - 7.94 +0.82  + 53.6 - 3.7
1992 04 08    11 44.42   -01 53.1    1.727    2.684   158.4     7.9    16.8

1992 03 09    12 15.71   -02 24.6    1.626    2.596   164.2     6.0    16.1
- 9.64 -0.61    +7.8 + 3.7   1990 SN4    17217   - 8.36 +0.96    +9.6 - 3.1
1992 04 08    11 45.79   -01 46.0    1.687    2.645   158.7     7.9    16.3

1992 03 09    12 11.28   +06 06.2    2.662    3.636   166.8     3.6    17.8
- 6.49 -0.37  + 55.3   0.0   1989 TT2    17824   - 5.98 +0.52  + 36.3 - 5.8
1992 04 08    11 50.93   +08 34.3    2.704    3.636   155.0     6.7    18.0

1992 03 09    12 15.47   +00 14.9    1.773    2.745   165.2     5.3    17.4
- 8.47 -0.63  + 53.0 + 3.1   1986 RW2    11519   - 7.88 +0.81  + 43.7 - 5.9
1992 04 08    11 48.29   +02 56.6    1.783    2.735   157.6     8.0    17.5

1992 03 09    12 12.97   +01 38.8    2.592    3.564   166.2     3.8    17.6
- 6.44 -0.41  + 47.9 + 1.7   6564 P-L    16036   - 6.13 +0.51  + 39.1 - 4.4
1992 04 08    11 52.41   +04 00.6    2.591    3.540   158.0     6.1    17.7

1992 03 09    12 15.58   +14 43.5    1.971    2.934   162.6     5.8    16.8
- 8.54 -0.44  + 54.5 - 4.9   1990 WC     17646   - 7.19 +0.82    +6.1 - 9.6
1992 04 08    11 49.65   +16 23.0    2.102    3.008   149.4     9.8    17.1

1992 03 09    12 16.40   +04 08.2    1.950    2.923   165.6     4.8    17.6
- 7.30 -0.54  +123.3 + 1.9    (4956)     18799   - 6.77 +0.70  + 95.4 -10.0
1992 04 08    11 53.01   +09 58.4    1.998    2.934   154.5     8.4    17.8

1992 03 09    12 23.23   -32 56.5    1.295    2.150   139.6    17.4    17.1
-10.93 -1.28  - 39.4 +21.1   1986 AJ     16871   -10.99 +1.29  + 83.1 +14.7
1992 04 08    11 45.56   -31 39.2    1.238    2.158   148.9    13.9    16.9

1992 03 09    12 21.42   -03 39.6    1.221    2.188   162.4     7.9    16.2
- 8.54 -1.08  + 27.7 + 6.7   1986 SF     14949   - 9.06 +0.98  + 37.1 - 4.3
1992 04 08    11 51.17   -01 41.8    1.156    2.124   160.0     9.3    16.1

1992 03 09    12 18.59   -06 23.5    2.371    3.328   161.6     5.4    17.5
- 6.26 -0.48  + 57.6 + 5.2   1212 T-2    16037   - 6.15 +0.52  + 66.6 - 2.6
1992 04 08    11 58.13   -03 02.7    2.347    3.314   162.0     5.4    17.5

1992 03 09    12 22.17   -16 46.2    1.543    2.473   153.6    10.3    16.6
- 8.04 -0.85  + 33.8 +12.6   1986 PE     17631   - 8.08 +0.85  + 84.6 + 2.2
1992 04 08    11 54.85   -13 29.4    1.492    2.460   160.9     7.7    16.4

1992 03 09    12 23.69   -06 18.5    1.621    2.578   160.6     7.4    16.7
- 8.61 -0.75  + 52.3 + 6.9    (4729)     17804   - 8.29 +0.84  + 63.0 - 3.8
1992 04 08    11 55.39   -03 05.7    1.626    2.595   161.4     7.1    16.7

1992 03 09    12 20.11   -14 46.5    2.472    3.400   155.5     7.0    18.1
- 5.97 -0.49  + 62.3 + 8.4   1981 EX4     8143   - 6.00 +0.49  + 91.4 + 0.4
1992 04 08    12 00.34   -10 41.1    2.405    3.375   162.9     5.0    18.0

1992 03 09    12 22.09   -23 43.2    2.951    3.829   147.9     7.9    16.7
- 7.37 -0.52    -6.4 + 8.3    (4768)     17949   - 7.64 +0.45  + 36.4 + 4.8
1992 04 08    11 57.80   -22 51.8    2.860    3.801   157.0     5.9    16.5

1992 03 09    12 22.16   -10 54.8    1.951    2.896   158.0     7.4    18.0
- 7.52 -0.60  + 60.5 + 8.1   1990 VV1    17460   - 7.19 +0.69  + 81.2 - 1.9
1992 04 08    11 57.72   -07 03.8    1.954    2.925   162.5     5.9    18.0
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1992 03 09	12 24.44	+00 11.0	1.225	2.194	163.1	7.6	16.7
- 8.02 -0.89	+ 79.9 + 4.6	1990 RH4	17964	- 7.55 +1.01	+ 62.4	- 9.6	
1992 04 08	11 57.54	+04 11.0	1.254	2.218	159.0	9.3	16.8
1992 03 09	12 23.48	+14 04.6	1.992	2.950	161.4	6.2	17.8
- 7.48 -0.56	+ 67.7 - 3.9	1990 VS5	18298	- 6.98 +0.69	+ 20.7	-10.2	
1992 04 08	11 59.49	+16 29.0	2.074	2.989	150.8	9.4	18.1
1992 03 09	12 22.53	+13 38.5	1.928	2.888	161.8	6.2	15.8
- 6.46 -0.60	+ 76.5 - 3.2	1964 YJ	13480	- 6.29 +0.65	+ 30.3	-10.8	
1992 04 08	12 01.11	+16 33.0	1.971	2.888	151.0	9.7	16.0
1992 03 09	12 25.79	-13 25.1	1.924	2.858	155.6	8.3	17.8
- 8.54 -0.66	+ 26.2 + 8.6	1986 RW	17438	- 8.27 +0.73	+ 56.8	+ 0.5	
1992 04 08	11 58.00	-11 05.7	1.930	2.900	162.2	6.1	17.7
1992 03 09	12 24.48	-09 55.5	2.088	3.033	158.2	7.0	17.0
- 7.31 -0.65	+ 31.6 + 6.9	(4771)	17950	- 7.57 +0.58	+ 53.4	- 0.4	
1992 04 08	11 59.89	-07 34.5	2.035	3.007	163.0	5.6	16.9
1992 03 09	12 29.35	-04 37.8	2.139	3.092	160.2	6.3	17.6
- 7.09 -0.63	+ 34.3 + 4.5	1977 AW2	18413	- 7.42 +0.54	+ 41.0	- 2.5	
1992 04 08	12 05.43	-02 31.9	2.111	3.084	163.6	5.2	17.5
1992 03 09	12 28.00	+00 01.6	2.668	3.626	162.2	4.8	18.2
- 6.21 -0.50	+ 42.8 + 2.3	6543 P-L	9302	- 6.53 +0.41	+ 38.7	- 3.6	
1992 04 08	12 07.23	+02 14.8	2.633	3.599	162.0	4.9	18.2
1992 03 09	12 32.26	-02 21.6	1.520	2.477	160.4	7.7	18.4
- 8.34 -0.83	+ 58.4 + 5.0	1987 WV1	17634	- 8.33 +0.82	+ 54.8	- 6.0	
1992 04 08	12 04.18	+00 48.7	1.543	2.514	162.1	7.0	18.5
1992 03 09	12 28.72	-03 00.6	1.766	2.724	161.0	6.8	17.3
- 6.09 -0.71	+ 37.8 + 4.6	4837 P-L	17975	- 6.47 +0.60	+ 40.4	- 3.9	
1992 04 08	12 07.47	-00 47.7	1.743	2.719	163.5	6.0	17.2
1992 03 09	12 31.98	-09 06.4	2.121	3.061	157.3	7.2	17.1
- 7.04 -0.66	+ 32.3 + 6.3	1980 RD1	17956	- 7.48 +0.53	+ 50.7	- 0.8	
1992 04 08	12 07.99	-06 48.5	2.086	3.064	165.0	4.8	16.9
1992 03 09	12 35.18	+04 06.4	1.333	2.295	160.9	8.1	18.0
- 7.33 -0.99	+ 71.0 + 2.2	1986 QG1	17437	- 7.98 +0.81	+ 44.5	-10.1	
1992 04 08	12 08.89	+07 22.6	1.331	2.294	159.2	8.9	18.0
1992 03 09	12 39.00	+34 01.7	1.927	2.800	145.0	11.7	17.4
- 9.35 -0.97	+ 82.3 -12.0	1989 KB	15419	- 9.99 +0.78	- 15.0	-17.5	
1992 04 08	12 06.75	+35 52.9	1.958	2.754	134.5	15.0	17.5
1992 03 09	12 33.97	-05 36.6	1.376	2.329	158.7	8.9	17.6
- 5.35 -0.91	+101.8 + 9.4	4203 T-3	12703	- 6.17 +0.68	+111.1	- 6.9	
1992 04 08	12 13.76	+00 13.2	1.346	2.327	164.5	6.6	17.5
1992 03 09	12 41.49	+06 37.6	1.408	2.363	159.3	8.5	17.0
- 8.08 -1.06	+ 56.9 + 0.5	1976 QZ1	13477	- 9.19 +0.75	+ 24.4	-10.2	
1992 04 08	12 12.22	+08 59.5	1.390	2.350	158.6	9.0	17.0
1992 03 09	12 42.38	+01 23.8	1.532	2.484	158.9	8.3	18.5
- 7.86 -0.99	+ 17.1 + 2.2	4882 P-L	19318	- 9.01 +0.67	+ 6.8	- 5.4	
1992 04 08	12 13.98	+02 13.7	1.501	2.477	163.4	6.6	18.4

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1992 03 09    12 41.42   -07 49.3    1.755    2.693   156.0     8.6    18.5
- 7.03 -0.87  + 57.7 + 7.7   1981 EX43   13157   - 8.11 +0.56  + 75.8 - 2.6
1992 04 08    12 16.07   -04 10.0    1.705    2.689   166.6     4.9    18.2

1992 03 09    12 40.84   -02 38.0    2.221    3.165   158.3     6.7    18.3
- 7.07 -0.67  + 40.4 + 3.6    (4723)     17802   - 7.76 +0.47  + 41.5 - 3.4
1992 04 08    12 16.48   -00 22.2    2.203    3.182   165.4     4.6    18.2

1992 03 09    12 42.51   -14 10.2    1.408    2.332   152.1    11.5    18.6
- 6.89 -1.16  + 13.3 +11.2   1981 EK8    15241   - 8.98 +0.61  + 63.1 + 3.1
1992 04 08    12 15.42   -12 00.7    1.300    2.284   166.1     6.0    18.1

1992 03 09    12 40.34   -01 31.0    2.129    3.076   158.8     6.7    16.8
- 6.48 -0.66  + 30.3 + 3.0    (4846)     18278   - 7.06 +0.48  + 28.4 - 3.6
1992 04 08    12 17.94   +00 09.1    2.134    3.114   165.4     4.6    16.7

1992 03 09    12 40.61   -00 47.0    1.904    2.852   158.9     7.2    17.5
- 6.34 -0.76  + 64.9 + 4.0   1976 SA     15402   - 7.24 +0.50  + 60.2 - 5.6
1992 04 08    12 17.91   +02 38.5    1.878    2.854   164.0     5.6    17.4

1992 03 09    12 44.41   -15 28.5    1.471    2.388   150.9    11.7    15.6
- 7.59 -1.12  - 27.9 + 9.8    (4763)     17947   - 9.27 +0.66  + 22.2 + 4.9
1992 04 08    12 15.83   -15 28.1    1.411    2.391   164.7     6.3    15.3

1992 03 09    12 43.45   +19 36.5    1.903    2.831   154.4     8.7    16.3
- 7.55 -0.78  + 74.5 - 6.1   1979 EL     17426   - 8.02 +0.62  + 11.6 -12.8
1992 04 08    12 17.50   +21 57.9    1.971    2.871   148.2    10.6    16.4

1992 03 09    12 48.08   -01 36.8    1.209    2.158   156.9    10.4    17.2
- 9.07 -1.25  - 16.5 + 3.4   4611 P-L    17462   -10.31 +0.89  - 14.2 - 2.9
1992 04 08    12 15.02   -02 11.1    1.205    2.189   165.8     6.4    17.1

1992 03 09    12 42.53   -12 42.5    1.307    2.238   153.0    11.6    16.5
- 6.22 -1.13  + 39.9 +12.1   1988 BX3    13468   - 7.96 +0.66  + 84.3 + 0.5
1992 04 08    12 17.93   -09 14.9    1.233    2.221   167.4     5.7    16.1

1992 03 09    12 41.62   +09 58.2    1.852    2.800   158.7     7.4    17.3
- 6.36 -0.70  + 95.4 - 1.8   1990 VN2    17644   - 6.74 +0.57  + 52.2 -11.1
1992 04 08    12 19.61   +13 56.8    1.935    2.877   155.6     8.3    17.5

1992 03 09    12 46.04   -10 38.6    1.696    2.622   153.6     9.7    17.8
- 7.87 -0.97  + 29.7 + 8.4    (4825)     18271   - 9.24 +0.58  + 58.4 - 0.1
1992 04 08    12 17.50   -08 10.6    1.639    2.626   167.4     4.8    17.5

1992 03 09    12 42.05   -18 28.4    2.193    3.089   149.2     9.5    16.2
- 6.20 -0.76  + 11.3 + 9.1   5140 T-2    18134   - 7.46 +0.40  + 54.7 + 4.0
1992 04 08    12 19.40   -16 40.1    2.087    3.065   164.8     4.9    15.8

1992 03 09    12 46.05   +02 26.0    1.536    2.485   158.1     8.6    17.0
- 7.56 -1.04  + 67.5 + 3.4   1990 VF3    17644   - 9.08 +0.61  + 52.0 - 8.2
1992 04 08    12 18.05   +05 46.9    1.495    2.466   161.9     7.2    16.9

1992 03 09    12 43.82   -12 14.6    2.474    3.389   153.1     7.6    16.5
- 6.67 -0.66  + 10.6 + 6.1    (4714)     17619   - 7.66 +0.37  + 34.8 + 1.2
1992 04 08    12 20.42   -10 57.7    2.409    3.393   167.6     3.6    16.2

1992 03 09    12 44.08   -01 36.6    2.068    3.011   157.8     7.1    16.5
- 6.70 -0.67  + 35.1 + 3.0   1990 UE3    17458   - 7.23 +0.50  + 32.2 - 3.9
1992 04 08    12 21.01   +00 17.0    2.102    3.083   166.0     4.5    16.5
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1992 03 09	12 48.16	+00 36.6	1.322	2.271	157.4	9.7	16.5	
- 7.57 -1.12	- 24.0 + 1.6	1981 GQ	9965	- 8.94 +0.73	- 29.6 - 3.3			
1992 04 08	12 19.95	-00 34.8	1.312	2.297	166.2	6.0	16.4	
1992 03 09	12 49.12	-16 16.6	2.152	3.050	149.5	9.5	17.7	
- 7.68 -0.86	-3.6 + 8.0	1981 RQ	12205	- 9.24 +0.42	+ 35.4 + 3.6			
1992 04 08	12 21.38	-15 20.9	2.061	3.042	165.9	4.6	17.4	
1992 03 09	12 48.10	+01 34.2	2.555	3.493	157.5	6.2	17.7	
- 6.80 -0.68	+ 23.3 + 1.6	1983 TR2	10529	- 8.07 +0.31	+ 17.0 - 3.7			
1992 04 08	12 23.96	+02 44.4	2.472	3.449	165.1	4.3	17.5	
1992 03 09	12 49.25	+08 24.5	1.897	2.838	157.2	7.8	16.8	
- 6.81 -0.80	+ 57.3 - 0.8	1990 VC4	17645	- 7.76 +0.51	+ 25.9 - 8.7			
1992 04 08	12 24.97	+10 44.2	1.922	2.879	159.0	7.2	16.8	
1992 03 09	12 50.08	-05 28.4	1.654	2.589	155.1	9.3	18.7	
- 6.62 -1.04	+ 53.5 + 7.3	1981 EK23	10515	- 8.77 +0.44	+ 69.2 - 3.0			
1992 04 08	12 24.26	-02 05.2	1.551	2.539	167.9	4.8	18.3	
1992 03 09	12 54.89	-00 27.4	1.650	2.586	155.5	9.2	17.8	
- 7.80 -1.02	+ 40.0 + 3.7	1983 UC	17434	- 9.47 +0.54	+ 35.0 - 5.3			
1992 04 08	12 26.08	+01 41.9	1.620	2.603	166.2	5.3	17.6	
1992 03 09	12 49.03	-05 14.0	2.714	3.640	155.5	6.5	17.3	
- 5.67 -0.58	+ 37.6 + 3.8	(4746)	17811	- 6.63 +0.29	+ 44.3 - 1.8			
1992 04 08	12 28.95	-03 00.7	2.674	3.663	169.3	2.9	17.1	
1992 03 09	12 47.62	-04 45.3	2.761	3.690	156.0	6.3	18.0	
- 5.03 -0.56	+ 39.2 + 3.7	6030 P-L	19318	- 6.02 +0.27	+ 45.3 - 1.9			
1992 04 08	12 29.51	-02 28.1	2.703	3.692	169.2	2.9	17.8	
1992 03 09	12 51.50	-03 53.6	2.433	3.362	155.4	7.1	17.3	
- 5.94 -0.65	+ 36.9 + 3.6	(4685)	17607	- 6.96 +0.34	+ 40.6 - 2.6			
1992 04 08	12 30.33	-01 45.8	2.417	3.405	169.0	3.2	17.1	
1992 03 09	12 52.84	-12 53.1	2.702	3.602	150.9	7.7	17.5	
- 6.54 -0.70	-3.5 + 5.4	1980 FJ1	14614	- 8.04 +0.25	+ 20.9 + 2.0			
1992 04 08	12 29.22	-12 20.8	2.589	3.578	169.1	3.0	17.1	
1992 03 09	12 51.49	-01 41.0	1.295	2.239	156.0	10.4	15.8	
- 5.03 -1.10	+ 87.1 + 6.6	1988 HF	18113	- 6.91 +0.56	+ 81.6 - 8.5			
1992 04 08	12 30.51	+03 00.3	1.276	2.261	166.1	6.1	15.6	
1992 03 09	12 53.63	-05 07.3	1.835	2.764	154.5	8.9	16.9	
- 6.05 -0.88	+ 45.3 + 5.6	(4739)	17808	- 7.62 +0.42	+ 54.3 - 3.1			
1992 04 08	12 30.72	-02 21.7	1.794	2.784	169.4	3.8	16.6	
1992 03 09	12 56.14	-03 57.4	1.419	2.353	154.3	10.6	17.3	
- 5.93 -1.22	+ 67.6 + 8.3	1986 TB3	11733	- 8.93 +0.40	+ 82.1 - 4.7			
1992 04 08	12 30.86	+00 11.2	1.304	2.293	168.1	5.2	16.8	
1992 03 09	12 56.80	+01 05.3	1.731	2.665	155.3	9.0	17.4	
- 6.74 -0.99	+ 69.6 + 3.9	1986 QS1	18285	- 8.69 +0.43	+ 60.2 - 7.0			
1992 04 08	12 31.04	+04 40.1	1.683	2.662	164.9	5.6	17.2	
1992 03 09	12 56.23	+00 22.9	1.539	2.476	155.3	9.6	16.6	
- 6.59 -1.02	+ 80.3 + 4.2	1955 EH	17196	- 8.19 +0.54	+ 67.3 - 8.2			
1992 04 08	12 31.18	+04 27.2	1.541	2.522	165.1	5.9	16.5	

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1992 03 09    12 57.77   -12 09.5    1.624    2.534   150.3    11.2    18.2
- 6.98 -1.07  + 20.6 + 8.9   1977 EA6    19012   - 9.02 +0.49  + 54.8 + 1.0
1992 04 08    12 30.88   -10 01.9    1.568    2.561   170.3     3.8    17.8

1992 03 09    12 57.57   +05 34.5    1.488    2.426   155.4     9.8    16.4
- 5.83 -1.12  + 85.7 + 2.7   1979 YO     12941   - 8.28 +0.43  + 60.2 -10.7
1992 04 08    12 33.53   +09 38.2    1.434    2.403   161.0     7.8    16.2

1992 03 09    12 59.45   -07 57.1    1.819    2.736   152.0     9.8    17.8
- 6.93 -0.95  + 43.5 + 6.8   1990 UE1    17456   - 8.66 +0.44  + 60.6 - 1.9
1992 04 08    12 33.50   -05 04.6    1.784    2.777   171.1     3.2    17.5

1992 03 09    12 55.53   -05 32.6    2.778    3.696   153.9     6.8    18.8
- 5.53 -0.62  + 37.4 + 4.0    (4972)     19006   - 6.81 +0.23  + 45.6 - 1.6
1992 04 08    12 35.44   -03 17.9    2.705    3.698   170.9     2.5    18.5

1992 03 09    12 57.97   -17 01.7    1.988    2.874   147.4    10.7    18.0
- 5.94 -0.92  + 25.3 + 9.6   1985 TY1    15245   - 8.00 +0.33  + 69.1 + 3.4
1992 04 08    12 34.75   -14 28.7    1.882    2.871   169.0     3.8    17.5

1992 03 09    13 02.06   -11 13.7    1.644    2.552   149.9    11.3    17.8
- 7.52 -1.09  + 25.2 + 8.5    (4682)     17606   - 9.59 +0.49  + 55.5 + 0.3
1992 04 08    12 33.47   -08 57.5    1.601    2.595   171.2     3.4    17.4

1992 03 09    13 02.06   -06 03.6    1.457    2.381   152.2    11.2    17.9
- 7.22 -1.17  + 42.4 + 7.1   1990 QT2    17639   - 9.38 +0.54  + 55.9 - 3.4
1992 04 08    12 33.98   -03 16.7    1.430    2.424   170.6     3.9    17.6

1992 03 09    13 00.80   -07 31.9    1.296    2.221   151.9    12.2    17.0
- 6.41 -1.28  + 36.6 + 8.6   1985 CR2    12708   - 9.05 +0.54  + 58.9 - 2.5
1992 04 08    12 34.25   -04 48.1    1.246    2.241   171.2     3.9    16.6

1992 03 09    13 00.96   +08 38.5    2.060    2.986   154.3     8.3    16.8
- 6.72 -0.90  + 77.1 + 0.5    (4711)     17617   - 8.68 +0.33  + 49.1 - 9.1
1992 04 08    12 35.60   +12 05.6    2.016    2.972   159.0     6.9    16.7

1992 03 09    12 59.36   -00 04.7    2.386    3.310   154.5     7.4    17.0
- 6.31 -0.77  + 24.8 + 2.3   4265 T-2    15572   - 8.02 +0.26  + 21.9 - 3.4
1992 04 08    12 35.98   +01 15.9    2.308    3.294   168.3     3.5    16.7

1992 03 09    12 58.50   -15 16.9    1.532    2.434   148.4    12.3    15.6
- 5.14 -1.06  + 62.2 +12.1   1939 UB     17423   - 7.23 +0.45  +106.1 + 0.5
1992 04 08    12 37.15   -10 43.0    1.479    2.474   171.6     3.4    15.1

1992 03 09    13 01.01   -09 40.9    1.249    2.171   150.9    12.9    18.4
- 5.80 -1.29  + 29.5 + 9.7   4226 P-L    16439   - 8.45 +0.54  + 60.2 - 1.1
1992 04 08    12 36.24   -07 06.4    1.206    2.202   172.0     3.6    18.0

1992 03 09    13 04.35   -08 27.5    1.593    2.506   150.7    11.2    17.7
- 7.21 -1.16  + 27.9 + 7.5   1980 VA3    18107   - 9.74 +0.43  + 51.1 - 0.9
1992 04 08    12 35.98   -06 13.4    1.528    2.523   171.9     3.2    17.2

1992 03 09    13 05.07   -11 00.1    1.743    2.646   149.4    11.0    17.5
- 7.33 -1.17  - 18.3 + 6.3   1985 QP5    16024   -10.41 +0.31  + 11.9 + 2.5
1992 04 08    12 35.73   -11 02.7    1.624    2.618   171.1     3.4    17.0

1992 03 09    12 59.70   +07 10.0    1.459    2.395   154.7    10.2    16.2
- 4.76 -1.07  +116.1 + 1.8   1966 CM     16227   - 6.98 +0.42  + 78.5 -13.2
1992 04 08    12 39.32   +12 29.7    1.457    2.418   159.0     8.5    16.1
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1992 03 09	13 07.86	+02 36.9	1.393	2.321	152.7	11.3	16.2
- 7.36 -1.27	+ 27.0 + 2.0	1990 TN	17451	- 9.98 +0.52		+ 10.7	- 7.0
1992 04 08	12 38.54	+03 50.2	1.368	2.353	166.6	5.6	16.0
1992 03 09	13 08.24	+04 14.0	1.074	2.009	152.7	13.1	16.0
- 6.37 -1.57	+ 30.1 + 1.7	(4810)	18265	-10.04 +0.55		+3.6	- 9.8
1992 04 08	12 39.69	+05 26.0	1.027	2.012	165.4	7.2	15.7
1992 03 09	13 05.90	-02 23.2	1.307	2.235	152.4	11.9	17.0
- 5.58 -1.38	+ 55.8 + 7.3	1986 QT	14787	- 9.51 +0.30		+ 64.5	- 5.5
1992 04 08	12 40.15	+01 01.0	1.188	2.180	169.1	5.0	16.5
1992 03 09	13 10.05	-10 20.9	1.413	2.319	148.6	12.9	17.3
- 6.56 -1.29	+ 32.2 + 9.3	1982 FF3	17629	- 9.58 +0.43		+ 63.6	- 0.4
1992 04 08	12 42.66	-07 39.2	1.357	2.354	173.6	2.7	16.8
1992 03 09	13 08.45	-04 41.9	1.859	2.770	151.1	10.0	18.4
- 6.10 -0.97	+ 73.5 + 6.2	1977 EM5	17425	- 8.33 +0.32		+ 80.6	- 4.4
1992 04 08	12 44.42	-00 31.2	1.814	2.808	171.0	3.2	18.1
1992 03 09	13 05.03	-06 18.4	2.088	2.998	151.4	9.1	17.6
- 4.84 -0.88	+ 33.5 + 5.5	9511 P-L	14630	- 7.25 +0.18		+ 48.1	- 1.3
1992 04 08	12 44.93	-04 03.4	1.965	2.962	173.4	2.2	17.1
1992 03 09	13 03.98	-01 11.7	3.080	3.991	153.1	6.5	17.4
- 4.86 -0.57	+ 28.7 + 2.1	1989 VW	17825	- 6.16 +0.17		+ 27.8	- 2.5
1992 04 08	12 46.08	+00 21.5	3.039	4.030	170.6	2.3	17.2
1992 03 09	13 08.81	-12 28.8	1.869	2.761	147.8	11.0	17.1
- 6.01 -1.00	+ 31.3 + 8.2	1971 BD3	17424	- 8.40 +0.30		+ 62.5	+ 0.9
1992 04 08	12 44.77	-09 54.6	1.800	2.797	173.6	2.3	16.6
1992 03 09	13 12.72	-07 58.8	1.778	2.678	149.0	11.0	17.0
- 6.79 -1.15	+ 13.9 + 6.2	(4815)	18267	- 9.92 +0.25		+ 34.9	- 0.2
1992 04 08	12 45.06	-06 34.0	1.673	2.671	174.2	2.2	16.4
1992 03 09	13 10.16	-09 56.8	2.206	3.098	148.7	9.6	16.6
- 6.09 -0.86	+ 47.1 + 6.7	1990 YD	17649	- 8.16 +0.25		+ 67.7	- 0.6
1992 04 08	12 46.72	-06 51.2	2.139	3.138	174.6	1.7	16.2
1992 03 09	13 07.19	-00 55.2	1.084	2.017	152.4	13.2	17.0
- 3.75 -1.39	+108.9 + 7.9	1981 EN	10768	- 7.13 +0.43		+ 98.5	-11.5
1992 04 08	12 47.49	+04 52.3	1.060	2.048	166.8	6.4	16.7
1992 03 09	13 08.91	-08 26.5	2.355	3.251	149.7	8.9	17.6
- 5.32 -0.81	+ 31.2 + 5.4	1984 UB3	15884	- 7.41 +0.18		+ 48.0	- 0.5
1992 04 08	12 47.99	-06 16.7	2.262	3.261	174.9	1.6	17.1
1992 03 09	13 15.01	-08 48.6	1.851	2.745	148.1	11.0	18.2
- 6.34 -1.16	+ 30.1 + 7.2	1969 TR1	11341	- 9.93 +0.13		+ 56.2	+ 0.2
1992 04 08	12 48.21	-06 26.3	1.694	2.693	174.9	1.9	17.5
1992 03 09	13 17.15	-07 53.0	1.232	2.140	148.0	14.2	16.3
- 5.76 -1.59	-1.8 + 7.3	1990 VN3	17645	-10.84 +0.19		+ 26.1	+ 0.4
1992 04 08	12 48.96	-07 04.0	1.105	2.104	175.2	2.3	15.5
1992 03 09	13 16.19	-09 55.9	1.474	2.372	147.4	13.0	16.5
- 6.07 -1.36	+0.7 + 7.5	1988 CU7	14621	-10.13 +0.22		+ 31.9	+ 1.4
1992 04 08	12 48.95	-08 55.8	1.359	2.358	174.9	2.2	15.8

1992 03 09	13 12.17	-06 58.1	1.862	2.764	149.5	10.5	18.7
- 5.11 -1.02	+ 13.9 + 5.4	1981 EE22	10384	- 7.91 +0.20		+ 30.1 - 0.8	
1992 04 08	12 50.41	-05 40.8	1.770	2.769	175.3	1.7	18.2
1992 03 09	13 13.18	-25 08.3	2.098	2.924	139.4	12.8	17.2
- 5.44 -0.98	+ 22.0 +11.5	1976 YA	17625	- 7.92 +0.25		+ 82.1 + 6.7	
1992 04 08	12 50.87	-22 23.5	2.001	2.977	164.3	5.2	16.8
1992 03 09	13 17.90	-09 16.6	1.607	2.501	147.3	12.4	18.8
- 6.46 -1.29	+ 22.6 + 7.7	1977 UP	5520	-10.28 +0.21		+ 50.8 + 0.3	
1992 04 08	12 50.02	-07 12.9	1.490	2.489	175.5	1.8	18.1
1992 03 09	13 14.30	-04 10.7	1.970	2.872	149.9	10.0	17.9
- 5.47 -1.01	+ 49.3 + 5.5	1985 PO	12580	- 8.38 +0.16		+ 59.1 - 2.9	
1992 04 08	12 51.38	-01 12.7	1.857	2.853	172.6	2.6	17.4
1992 03 09	13 16.98	-06 45.8	2.170	3.061	148.4	9.8	18.2
- 6.40 -1.01	+8.0 + 4.5	1989 TR11	15896	- 9.47 +0.11		+ 22.8 - 0.3	
1992 04 08	12 51.13	-05 50.8	2.027	3.026	175.5	1.5	17.6
1992 03 09	13 16.90	-07 14.7	1.903	2.797	148.3	10.8	18.3
- 6.03 -1.05	+ 43.8 + 6.4	1990 VD4	17645	- 8.86 +0.22		+ 60.6 - 1.7	
1992 04 08	12 52.22	-04 23.2	1.822	2.821	175.1	1.7	17.8
1992 03 09	13 15.50	+02 35.8	0.961	1.891	150.8	14.8	15.9
- 4.03 -1.68	+ 61.8 + 4.8	4008 T-3	17221	- 8.82 +0.36		+ 41.3 -11.5	
1992 04 08	12 52.46	+05 41.0	0.905	1.893	166.5	7.1	15.5
1992 03 09	13 17.16	-04 02.8	1.742	2.644	149.2	11.1	18.5
- 5.55 -1.17	+ 63.6 + 6.9	1986 RS1	14949	- 9.15 +0.13		+ 76.5 - 3.6	
1992 04 08	12 52.72	-00 13.4	1.613	2.608	172.0	3.1	17.9
1992 03 09	13 17.73	-01 11.7	1.287	2.202	149.8	13.1	16.5
- 5.21 -1.37	+ 80.7 + 6.3	4170 T-2	15258	- 8.78 +0.34		+ 75.3 - 8.4	
1992 04 08	12 53.58	+03 09.7	1.254	2.245	168.9	4.9	16.2
1992 03 09	13 22.48	-12 27.2	1.727	2.603	144.9	12.7	17.9
- 6.80 -1.21	+ 13.8 + 8.1	1990 RQ2	18122	-10.10 +0.25		+ 47.7 + 1.8	
1992 04 08	12 54.43	-10 43.5	1.654	2.653	175.1	1.8	17.3
1992 03 09	13 16.43	-06 54.0	2.047	2.940	148.5	10.2	18.1
- 4.98 -0.92	+ 35.7 + 5.4	1251 T-2	15077	- 7.45 +0.19		+ 49.0 - 1.6	
1992 04 08	12 55.73	-04 34.0	1.989	2.989	175.9	1.4	17.6
1992 03 09	13 17.78	-05 01.2	2.771	3.657	148.8	8.1	18.4
- 4.91 -0.72	+ 37.5 + 3.8	(5045)	19661	- 6.98 +0.10		+ 45.1 - 1.6	
1992 04 08	12 58.44	-02 47.4	2.679	3.677	174.9	1.4	18.0
1992 03 09	13 17.83	-01 14.7	2.120	3.019	149.7	9.5	18.2
- 4.35 -0.97	+ 79.3 + 6.0	1983 RX3	13677	- 7.68 0.00		+ 88.3 - 3.9	
1992 04 08	12 58.01	+03 14.9	1.936	2.926	169.2	3.7	17.6
1992 03 09	13 24.27	-09 49.5	1.859	2.737	145.6	11.8	18.8
- 5.44 -1.19	+ 22.4 + 7.1	1982 UM6	15882	- 9.55 +0.01		+ 51.0 + 1.1	
1992 04 08	12 59.58	-07 48.4	1.686	2.687	177.8	0.8	17.9
1992 03 09	13 23.65	-07 12.0	1.602	2.493	146.7	12.6	18.3
- 4.92 -1.30	+ 58.8 + 8.8	1973 SF6	14944	- 9.41 +0.02		+ 86.2 - 1.4	
1992 04 08	12 59.72	-03 15.5	1.443	2.442	175.5	1.9	17.5

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1992 03 09    13 20.66   -06 26.3    2.129    3.015   147.7    10.1    16.7
- 4.77 -0.91  + 37.7 + 5.1   1975 BP1    17624    - 7.36 +0.14  + 49.7 - 1.7
1992 04 08    13 00.51   -04 02.6    2.064    3.064   176.2     1.2    16.2

1992 03 09    13 19.36   -18 38.4    2.033    2.884   142.4    12.1    16.6
- 4.07 -1.01  + 19.2 + 9.4    (4756)     17945    - 7.30 +0.07  + 66.7 + 4.9
1992 04 08    13 00.31   -16 21.2    1.880    2.873   170.7     3.2    16.0

1992 03 09    13 20.07   -04 58.6    2.873    3.754   148.3     8.0    18.2
- 4.85 -0.70  + 36.9 + 3.6   1989 SV1    18117    - 6.90 +0.08  + 44.1 - 1.6
1992 04 08    13 01.00   -02 47.5    2.784    3.783   175.2     1.3    17.8

1992 03 09    13 26.21   +10 12.0    1.814    2.707   147.9    11.2    18.2
- 5.74 -1.11  +138.0 + 0.5   1990 QL     17212    - 8.79 +0.21  + 94.9 -13.7
1992 04 08    13 01.97   +16 27.7    1.827    2.773   156.2     8.4    18.1

1992 03 09    13 23.65   -06 49.2    2.276    3.154   146.9     9.9    18.4
- 5.03 -0.96  + 41.3 + 5.7   1989 UR3    15719    - 8.25 +0.01  + 58.6 - 0.8
1992 04 08    13 01.96   -04 07.4    2.107    3.107   176.5     1.1    17.7

1992 03 09    13 24.48   +01 12.2    1.275    2.184   148.4    13.8    17.0
- 3.86 -1.47  + 61.8 + 5.5   1985 JK     17631    - 8.91 +0.05  + 56.1 - 8.1
1992 04 08    13 02.53   +04 34.5    1.161    2.151   168.1     5.5    16.4

1992 03 09    13 25.71   +01 17.0    1.554    2.454   148.2    12.3    17.2
- 5.03 -1.26  + 76.3 + 4.6   1986 QQ2    18286    - 8.84 +0.15  + 66.8 - 7.9
1992 04 08    13 02.28   +05 14.9    1.490    2.477   167.4     5.1    16.9

1992 03 09    13 24.84   -19 13.7    2.320    3.154   141.0    11.4    17.3
- 5.13 -0.97  + 13.3 + 8.3   1991 AD     17831    - 8.21 +0.06  + 56.5 + 4.7
1992 04 08    13 02.93   -17 22.5    2.173    3.164   169.8     3.2    16.8

1992 03 09    13 27.08   -01 42.5    1.908    2.796   147.4    11.0    17.2
- 5.49 -1.10  + 50.8 + 4.5    (4661)     17416    - 8.90 +0.10  + 52.6 - 4.3
1992 04 08    13 03.29   +01 08.8    1.817    2.812   171.5     3.0    16.7

1992 03 09    13 25.64   -03 29.1    1.523    2.419   147.3    12.8    17.1
- 4.22 -1.26  + 48.3 + 6.1   6573 P-L    12700    - 8.24 +0.10  + 56.2 - 4.2
1992 04 08    13 04.43   -00 33.4    1.437    2.434   173.2     2.8    16.5

1992 03 09    13 30.10   -26 11.3    1.815    2.621   135.9    15.3    16.7
- 5.03 -1.39  - 50.1 + 9.2   1988 HE     18814   -10.52 -0.17  + 18.3 +11.9
1992 04 08    13 04.54   -27 04.3    1.596    2.560   160.2     7.6    16.1

1992 03 09    13 25.50   -09 22.2    2.241    3.111   145.5    10.4    17.4
- 4.62 -0.94  + 30.5 + 5.9   1989 TT11   15896    - 7.66 +0.04  + 51.5 + 0.2
1992 04 08    13 05.28   -07 08.6    2.112    3.113   179.2     0.2    16.7

1992 03 09    13 28.03   -06 23.4    1.790    2.671   146.0    12.0    18.0
- 4.83 -1.16  + 51.4 + 6.8   1978 QY1    17815    - 8.57 +0.06  + 68.3 - 2.2
1992 04 08    13 05.68   -03 07.4    1.682    2.682   175.8     1.6    17.4

1992 03 09    13 30.77   -09 19.1    1.476    2.355   144.3    14.2    18.0
- 4.42 -1.44  + 43.2 + 9.6   3134 T-3    12574    - 9.91 -0.11  + 80.7 + 0.8
1992 04 08    13 06.83   -05 57.0    1.296    2.298   178.6     0.6    17.0

1992 03 09    13 31.60   -15 53.1    1.758    2.609   141.4    13.7    17.1
- 5.15 -1.27    +6.0 + 8.8   1984 BK     14948    - 9.52 +0.01  + 51.0 + 4.5
1992 04 08    13 07.24   -14 19.8    1.618    2.614   172.9     2.7    16.4
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1992 04 08    13 08.35   +01 22.8    2.397    3.391   171.4     2.5    17.2
- 7.47 +0.04  + 31.4 - 3.3   1989 SA3    19025   - 6.05 +0.64  + 12.6 - 5.8
1992 04 28    12 54.23   +02 09.3    2.481    3.407   152.6     7.8    17.6

1992 04 08    13 11.11   -09 49.2    1.621    2.622   177.3     1.0    17.3
- 8.91 -0.02  + 78.1 + 2.0   1968 OA1    13038   - 7.04 +0.91  + 70.8 - 5.5
1992 04 28    12 54.23   -07 12.9    1.664    2.621   157.2     8.6    17.8

1992 04 08    13 11.97   -04 36.3    1.189    2.190   177.2     1.3    15.8
- 9.73 -0.16  + 59.0 - 0.7   1986 QA3    12134   - 7.73 +1.11  + 40.1 - 8.3
1992 04 28    12 53.25   -02 49.5    1.204    2.159   155.1    11.3    16.3

1992 04 08    13 12.37   -18 29.8    1.467    2.457   168.7     4.6    18.2
-10.68 -0.24  + 47.4 + 8.4   5061 T-2    15258   - 9.11 +0.98  + 66.4 + 0.6
1992 04 28    12 51.35   -16 28.1    1.449    2.412   157.8     9.1    18.3

1992 04 08    13 13.02   +16 52.0    1.192    2.146   155.8    11.0    16.6
- 7.49 -0.18  +168.7 -15.6   1978 RZ9    15875   - 5.73 +1.01  + 87.7 -23.2
1992 04 28    12 58.61   +21 15.9    1.232    2.098   139.0    18.4    16.9

1992 04 08    13 13.81   +02 01.3    1.497    2.490   170.6     3.8    16.7
- 9.56 -0.13  + 67.2 - 4.7   1986 RB5    16427   - 7.88 +0.92  + 36.1 -10.3
1992 04 28    12 55.32   +03 50.3    1.526    2.460   151.8    11.2    17.1

1992 04 08    13 15.07   +05 49.7    1.133    2.120   166.8     6.2    14.9
-10.83 +0.04  - 13.0 - 9.3   1990 VH1    18298   - 7.99 +1.28  - 51.9 - 9.5
1992 04 28    12 55.01   +04 45.0    1.203    2.141   151.1    13.1    15.3

1992 04 08    13 15.00   +17 40.9    1.154    2.104    +2.36     -2.0  16.1
- 9.31 -0.08  +161.7 -19.5   1990 QM2    17639   - 6.96 +1.17  + 70.8 -24.0
1992 04 28    12 57.48   +21 37.9    1.232    2.095    +2.22     +0.1  16.5

1992 04 08    13 15.03   -08 23.1    1.810    2.811   178.0     0.7    16.7
- 8.05 -0.14  + 93.5 + 2.2   1989 UT5    16237   - 6.82 +0.72  + 86.8 - 5.4
1992 04 28    12 59.31   -05 15.2    1.813    2.771   157.6     8.0    17.1

1992 04 08    13 14.85   +03 20.3    2.322    3.311   169.3     3.2    17.2
- 7.91 -0.05  + 30.9 - 4.0   1989 WN1    18294   - 6.73 +0.61    +9.1 - 6.6
1992 04 28    12 59.55   +04 02.8    2.374    3.300   152.5     8.1    17.5

1992 04 08    13 15.86   -18 48.3    2.365    3.352   168.3     3.5    16.1
- 6.89 -0.05  + 73.2 + 5.2    (4732)     17806   - 5.75 +0.60  + 82.6 - 0.7
1992 04 28    13 02.57   -16 06.6    2.385    3.351   160.6     5.7    16.3

1992 04 08    13 17.11   -19 31.1    1.213    2.201   167.6     5.6    17.6
- 8.92 -0.20  + 62.2 + 9.9   1981 DM     10537   - 7.05 +1.08  + 82.5 - 0.2
1992 04 28    12 59.87   -16 56.3    1.217    2.190   159.9     9.1    17.7

1992 04 08    13 19.08   +17 04.3    1.399    2.347   155.5    10.2    16.0
- 9.05 -0.06  + 25.4 -14.6   1982 YQ     17818   - 7.06 +1.00  - 35.4 -14.8
1992 04 28    13 01.91   +16 54.5    1.462    2.346   143.0    15.0    16.3

1992 04 08    13 18.78   -32 39.3    4.860    5.780   154.5     4.3    17.6
- 5.24 -0.05  + 22.4 + 5.0   1989 AV2    18431   - 4.72 +0.30  + 38.6 + 2.9
1992 04 28    13 08.48   -31 36.3    4.852    5.784   155.7     4.1    17.6

1992 04 08    13 20.03   +02 44.6    1.193    2.186   169.6     4.8    17.5
- 9.54 -0.09  + 39.3 - 6.9   1990 UR4    17827   - 7.39 +1.10    +2.0 -11.0
1992 04 28    13 01.92   +03 30.0    1.251    2.197   153.3    11.9    17.9
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1992 04 08	13 19.74	-08 21.7	2.565	3.565	177.0	0.9	17.9
- 7.16 -0.11	+ 41.8 + 0.9	1988 PZ1	18113	- 6.34 +0.50	+ 37.9 - 2.9		
1992 04 28	13 05.63	-06 58.2	2.582	3.544	159.7	5.7	18.3
1992 04 08	13 20.30	-04 22.4	1.960	2.960	175.9	1.4	16.6
- 7.70 -0.12	+ 51.9 - 0.8	1990 YB	17828	- 6.57 +0.66	+ 38.7 - 5.6		
1992 04 28	13 05.26	-02 47.1	1.993	2.949	157.7	7.4	17.0
1992 04 08	13 20.28	+09 43.6	2.644	3.613	162.8	4.7	17.1
- 6.76 -0.07	+ 56.1 - 5.8	1991 CA2	18635	- 5.85 +0.50	+ 27.0 - 8.3		
1992 04 28	13 07.10	+11 09.2	2.713	3.609	148.5	8.4	17.3
1992 04 08	13 20.68	-06 20.6	1.631	2.631	176.8	1.2	17.6
- 7.88 -0.03	+ 98.7 - 0.8	1281 T-2	18832	- 6.19 +0.82	+ 79.6 - 8.2		
1992 04 28	13 05.77	-03 14.9	1.706	2.666	158.1	8.1	18.2
1992 04 08	13 21.24	-01 37.9	1.343	2.340	173.5	2.8	17.8
- 9.60 -0.14	+ 67.9 - 3.1	4354 T-3	17836	- 7.80 +0.98	+ 41.2 - 9.6		
1992 04 28	13 02.71	+00 17.7	1.388	2.341	155.5	10.3	18.2
1992 04 08	13 21.16	-23 37.0	2.409	3.380	163.4	4.9	16.6
- 9.15 -0.04	+ 29.4 + 6.7	(4820)	18269	- 7.78 +0.69	+ 47.1 + 1.9		
1992 04 28	13 03.49	-22 15.7	2.470	3.431	159.5	5.9	16.7
1992 04 08	13 22.58	+34 44.3	1.200	2.055	137.9	19.1	15.9
-13.14 -0.08	- 39.5 -27.5	1988 BN2	18112	-10.06 +1.49	-141.2 -21.9		
1992 04 28	12 57.81	+31 38.0	1.234	2.032	129.8	22.4	16.1
1992 04 08	13 21.12	-11 15.7	2.340	3.338	174.9	1.5	16.4
- 6.78 -0.08	+ 67.7 + 2.1	(4772)	17951	- 5.79 +0.55	+ 65.5 - 3.1		
1992 04 28	13 07.91	-08 57.4	2.375	3.343	160.9	5.6	16.7
1992 04 08	13 21.57	-15 45.5	1.064	2.058	170.9	4.4	16.0
- 8.85 -0.41	+ 51.7 + 8.5	1981 EC16	7768	- 7.51 +1.05	+ 67.1 - 1.2		
1992 04 28	13 03.76	-13 37.0	1.041	2.019	160.8	9.4	16.1
1992 04 08	13 22.23	-13 12.2	1.192	2.189	173.1	3.1	15.4
- 9.92 -0.19	+ 64.4 + 5.2	1990 SM28	19306	- 7.97 +1.10	+ 66.3 - 4.2		
1992 04 28	13 03.05	-10 52.1	1.221	2.196	160.3	8.9	15.7
1992 04 08	13 23.51	+07 49.2	1.628	2.607	164.5	5.9	18.1
- 9.28 -0.03	+ 35.1 - 8.4	1990 TO4	17454	- 7.45 +0.88	-3.8 -10.4		
1992 04 28	13 05.86	+08 22.5	1.718	2.641	150.4	10.8	18.5
1992 04 08	13 22.76	-17 07.0	2.071	3.061	169.5	3.4	16.1
- 7.24 -0.10	+ 68.3 + 4.9	1989 SS	15421	- 6.09 +0.64	+ 75.4 - 1.4		
1992 04 28	13 08.69	-14 37.0	2.104	3.078	162.1	5.8	16.3
1992 04 08	13 24.11	-08 15.2	1.722	2.722	176.0	1.5	17.7
- 7.38 -0.15	+ 39.5 + 0.9	2702 P-L	19035	- 6.21 +0.71	+ 32.7 - 4.2		
1992 04 28	13 09.66	-06 57.8	1.758	2.728	160.6	7.0	18.0
1992 04 08	13 25.17	-05 52.4	1.455	2.455	175.6	1.8	18.0
- 8.26 -0.13	+ 60.0 - 0.6	4806 P-L	12699	- 6.71 +0.86	+ 44.2 - 6.9		
1992 04 28	13 09.20	-04 02.0	1.509	2.476	159.2	8.3	18.4
1992 04 08	13 24.98	+11 20.2	1.766	2.732	160.9	6.9	16.1
- 7.91 -0.19	+ 29.9 - 8.9	5174 T-3	15910	- 6.85 +0.69	- 11.6 -11.3		
1992 04 28	13 09.34	+11 40.9	1.795	2.704	148.4	11.3	16.3

1992 04 08	13 26.15	-27 22.3	1.850	2.810	159.4	7.2	17.1
- 8.90 -0.39	+ 61.6 +12.2	1988 QD1	17441	- 8.37 +0.65	+ 99.6 + 6.0		
1992 04 28	13 07.84	-24 34.9	1.766	2.733	159.5	7.4	17.0
1992 04 08	13 27.23	-11 48.3	2.059	3.057	173.5	2.1	17.7
- 8.35 -0.16	+ 18.7 + 2.4	1981 EG44	9964	- 7.37 +0.63	+ 20.5 - 1.5		
1992 04 28	13 10.72	-11 05.2	2.094	3.068	162.2	5.8	18.0
1992 04 08	13 27.96	-20 46.8	2.117	3.098	165.7	4.6	18.1
- 7.41 -0.16	+ 53.9 + 6.4	1981 EN4	17816	- 6.48 +0.60	+ 68.8 + 0.8		
1992 04 28	13 13.31	-18 38.4	2.131	3.107	162.8	5.5	18.2
1992 04 08	13 31.94	-50 28.4	1.187	2.034	136.5	19.8	16.4
-14.49 -0.92	- 19.9 +28.2	1986 AG1	17204	-12.91 +1.65	+ 87.3 +23.0		
1992 04 28	13 01.96	-49 15.7	1.150	2.035	141.2	18.1	16.3
1992 04 08	13 29.96	+18 41.6	1.650	2.585	153.5	10.0	15.7
- 8.84 -0.15	+ 44.4 -13.7	(4673)	17420	- 7.41 +0.82	- 14.1 -14.7		
1992 04 28	13 12.74	+19 12.8	1.725	2.597	142.4	13.7	15.9
1992 04 08	13 29.55	-10 40.4	2.638	3.635	173.8	1.7	17.8
- 6.98 -0.13	+ 49.9 + 1.6	1989 UB8	16585	- 6.29 +0.46	+ 48.4 - 2.4		
1992 04 28	13 15.68	-08 58.1	2.668	3.642	162.8	4.7	18.0
1992 04 08	13 30.18	-03 23.0	1.011	2.009	173.3	3.3	15.9
- 8.12 -0.39	+ 58.8 - 1.9	1966 CL	11624	- 6.84 +0.99	+ 33.8 -10.0		
1992 04 28	13 13.84	-01 42.3	1.024	1.996	158.9	10.5	16.2
1992 04 08	13 30.47	+10 23.9	1.660	2.629	161.5	6.9	16.2
- 8.39 -0.20	+ 45.2 - 9.1	1988 KF	17823	- 7.25 +0.74	+1.8 -11.9		
1992 04 28	13 13.89	+11 13.8	1.712	2.629	149.4	11.3	16.5
1992 04 08	13 31.58	-01 45.2	1.660	2.655	172.0	3.0	16.1
- 9.11 -0.13	+ 43.4 - 3.0	(4700)	17614	- 7.69 +0.80	+ 22.3 - 7.2		
1992 04 28	13 13.85	-00 35.3	1.735	2.696	158.2	8.0	16.5
1992 04 08	13 29.26	-12 51.7	4.528	5.522	172.4	1.4	17.2
- 4.82 -0.08	+ 22.8 + 1.3	6581 P-L	17219	- 4.49 +0.24	+ 24.4 - 0.6		
1992 04 28	13 19.63	-12 02.7	4.549	5.526	164.5	2.8	17.3
1992 04 08	13 32.95	-04 40.5	1.857	2.854	173.4	2.3	18.1
- 9.35 -0.25	+ 56.0 - 0.5	(4755)	19001	- 8.47 +0.66	+ 43.0 - 5.8		
1992 04 28	13 14.22	-02 56.2	1.882	2.848	159.7	7.1	18.4
1992 04 08	13 33.46	-08 19.4	1.947	2.945	173.7	2.1	16.4
- 7.44 -0.17	+ 46.5 + 0.7	(4821)	18269	- 6.51 +0.61	+ 39.5 - 4.1		
1992 04 28	13 18.73	-06 48.6	2.001	2.977	162.6	5.8	16.7
1992 04 08	13 35.81	-19 07.6	1.211	2.197	166.4	6.2	15.6
- 9.29 -0.49	+4.9 + 8.6	2078 T-3	16243	- 8.42 +0.90	+ 28.2 + 2.5		
1992 04 28	13 16.70	-18 28.4	1.210	2.195	163.6	7.4	15.7
1992 04 08	13 36.09	-22 47.5	1.583	2.557	163.1	6.5	14.9
- 8.07 -0.34	+ 42.3 + 9.3	1990 XA	17647	- 7.24 +0.72	+ 67.0 + 2.5		
1992 04 28	13 19.72	-20 51.3	1.584	2.566	163.6	6.4	14.9
1992 04 08	13 35.90	-02 41.6	1.711	2.705	171.8	3.0	16.5
- 8.09 -0.29	+ 39.3 - 1.8	1989 SE2	17962	- 7.37 +0.63	+ 22.5 - 6.4		
1992 04 28	13 19.52	-01 35.2	1.732	2.700	159.9	7.4	16.8