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Smithsonian Astrophysical Observatory
Cambridge, MA 02138, U.S.A.
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ERRATA.

MPC	Line					
18881	20	For	S. V. Casulli	read	V. S. Casulli
19405	-17	For	S. V. Casulli	read	V. S. Casulli
19596	14	For	S. V. Casulli	read	V. S. Casulli
19754	-23	Add	S. J. Bus (9)		
19944	-29	Add	S. J. Bus (9)		
20070	-10	For	S. V. Casulli	read	V. S. Casulli
20088	-17	For	S. V. Casulli	read	V. S. Casulli
20091	14	For	C. Brewer (4, L)	read	C. Brewer (7, L)
20091	14	Add	E. Helin (2, S)		
20091	18	Add	S. J. Bus (9)		
20318	- 2	For	R. Ziener and K. Kirsch	read	F. Borngen
20340	7	For	K. Ishikawa	read	K. Ichikawa

* * * * *

CORRECTED OBSERVATIONS.

The following observations correct those previously published.

Object	Date	UT	R. A. (2000)	Decl.	Reference	N	Obs.
1954 SG	1954 10	22.17189	01 35 17.67	+08 56 12.5	MPC 3959	3	760
1954 SG	1954 10	22.21564	01 35 15.69	+08 55 41.9	MPC 3959	3	760
1954 UM	1954 10	22.17189	01 33 58.90	+08 20 33.5	MPC 7827	5	760
1954 UM	1954 10	22.21564	01 33 56.50	+08 20 16.5	MPC 7827	5	760
1954 UO	1954 10	22.17189	01 29 48.30	+11 16 19.7	MPC 6162	7	760
1954 UO	1954 10	22.21564	01 29 46.10	+11 16 05.3	MPC 6162	7	760
1954 UP	1954 10	22.17189	01 25 10.86	+11 07 48.4	MPC 7827	1	760
1954 UP	1954 10	22.21564	01 25 08.69	+11 07 43.3	MPC 7827	1	760
1954 US	1954 10	22.17189	01 23 20.16	+09 12 40.7	MPC 3092	1	760
1954 US	1954 10	22.21564	01 23 18.13	+09 12 28.2	MPC 3092	1	760
1954 UU	1954 10	22.17189	01 14 58.55	+11 38 21.2	MPC 7827	9	760
1954 UV	1954 10	22.17189	01 15 52.36	+08 21 15.8	MPC 7827	1	760
1954 UW	1954 10	22.17189	01 13 47.56	+07 28 39.4	MPC 2462	B	760
1954 UW	1954 10	22.21564	01 13 45.52	+07 28 25.4	MPC 2462	B	760
1954 UX	1954 10	22.17189	01 16 46.71	+06 17 30.1	MPC 8015	D	760
1954 UX	1954 10	22.21564	01 16 44.87	+06 17 09.2	MPC 8015	D	760
1954 UY	1954 10	22.17189	01 11 50.85	+05 37 39.7	MPC 8015	1	760
1954 UY	1954 10	22.21564	01 11 48.49	+05 37 26.2	MPC 8015	1	760
1954 UZ	1954 10	22.21564	01 34 29.07	+04 41 52.2	MPC 7827	1	760

Note 1: time originally in error. 2: 1954 SG = (4608). 3 = 1 + 2. 4: 1954 UM = (4359). 5 = 1 + 4. 6: 1954 UO = (2785). 7 = 1 + 6. 8: 1954 UU =

(4048). 9 = 1 + 8. A: 1954 UW = (3898). B = 1 + A. C: 1954 UX = (4945). D = 1 + C.

* * * * *

DELETED OBSERVATIONS.

The following observations are to be deleted.

Object		Date	UT	R. A. (2000)	Decl.	Reference	Obs.
1977 HF1	*	1977 04	24.39271	14 21 16.34	-13 42 17.5	MPC 10903	675
1977 HF1		1977 04	25.39548	14 20 31.72	-13 38 37.4	MPC 10903	675
1991 FU2	*	1991 03	20.24375	13 04 06.04	-04 32 53.1	MPC 19229	809
1991 FU2		1991 03	20.25625	13 04 05.46	-04 32 51.9	MPC 19229	809
1991 FU2		1991 03	20.26875	13 04 04.91	-04 32 50.6	MPC 19229	809
1991 FU2		1991 03	20.28333	13 04 04.21	-04 32 49.2	MPC 19229	809
1991 FU2		1991 03	20.29584	13 04 03.63	-04 32 48.0	MPC 19229	809
1991 FU2		1991 03	20.30833	13 04 03.04	-04 32 46.8	MPC 19229	809
1991 FU2		1991 03	24.32188	13 00 57.20	-04 26 07.0	MPC 19230	809
1991 FU2		1991 03	24.33090	13 00 56.78	-04 26 06.1	MPC 19230	809
1991 FU2		1991 03	24.33994	13 00 56.37	-04 26 05.2	MPC 19230	809
1991 FU2		1991 03	25.33194	13 00 09.00	-04 24 21.5	MPC 19230	809
1991 FU2		1991 03	25.33889	13 00 08.64	-04 24 20.7	MPC 19230	809
1991 FU2		1991 03	25.34583	13 00 08.33	-04 24 19.8	MPC 19230	809

* * * * *

IDENTIFICATION CHANGES.

Continuation to MPC 20191.

Object		Date	UT	R. A. (2000)	Decl.	Old desig.	Mag.	Obs.
1975 VN10	*	1975 11	06.81727	01 11 13.51	+03 17 57.3	1975 TB4	18.0	095
1986 TO18	*	1986 10	02.87262	23 52 40.34	-03 19 51.8	1986 RZ16	16.2V	095
1986 TP18	*	1986 10	02.87262	23 52 28.21	-01 57 27.8	1986 RM7	16.2V	095
1991 DO1	*	1991 02	22.06007	09 51 47.77	+10 43 57.7	1991 CY2		511
1991 VU12	*	1991 11	08.24995	02 52 54.23	+12 44 59.8	1991 VE9		691
1991 VU12		1991 11	08.26292	02 52 53.40	+12 44 55.0	1991 VE9	19.4V	691
1991 VU12		1991 11	08.27545	02 52 52.60	+12 44 50.5	1991 VE9		691
1991 VU12		1991 11	08.28850	02 52 51.70	+12 44 45.9	1991 VE9		691
1991 VU12		1991 11	08.30127	02 52 50.93	+12 44 41.3	1991 VE9	19.1V	691
1991 VU12		1991 11	08.31432	02 52 50.06	+12 44 36.8	1991 VE9		691

* * * * *

OBSERVATIONS OF COMETS.

Observations are published here for the following observatory codes:

045 Vienna. 0.33-m f/10 astrograph. Observer P. Jackson. Measured by P. Jackson, T. Kaufmann and E. Paunzen.
323 Perth Observatory, Bickley. 0.33-m astrograph. Observers M. P. Candy and G. Lowe.
372 Geisei. 0.60-m reflector. Observer T. Seki. In part from Orient. Astron. Assoc. Comet Bull.
373 Oishi. 0.31-m f/5.3 reflector. Observer M. Tsumura. Measured by M. Takeishi.
413 Siding Spring. Uppsala Southern Schmidt and 1.0-m reflector + CCD. Observers R. H. McNaught and D. I. Steel.

474 Mt. John. 0.6-m reflector. Observer A. C. Gilmore. Measured by P. M. Kilmartin.
503 Cambridge. Observer J. D. Shanklin.
540 Linz. 0.3-m f/5.2 Schmidt-Cassegrain. Observers E. Meyer, E. Obermair and H. Raab.
589 Santa Lucia Stroncone. 0.50-m f/2.8 Ritchey-Chretien + CCD. Observers A. Vagnozzi, V. Risoldi and G. Bernabei.
596 Colleverde di Guidonia. 0.31-m f/2.8 Baker-Schmidt CCD camera. Observer V. S. Casulli.
657 Climenhaga Observatory, Victoria. 0.25-m Schmidt telescope and 0.5-m reflector + CCD. Observers J. B. Tatum and D. D. Balam.
675 Palomar. 0.46-m Schmidt. Observers J. Alu, E. Helin, K. Lawrence, D. H. Levy, L. Lee, P. Rose, C. S. Shoemaker and E. M. Shoemaker.
691 Kitt Peak. 0.91-m Spacewatch telescope. Observers T. Gehrels, J. V. Scotti and D. L. Rabinowitz.
897 YGCO Chiyoda Station. 0.25-m f/3.4 Wright-Schmidt and 0.10-m f/4 refractor.
900 Kiryuu Observatory, Ohtsu. 0.10-m f/5.9 astrocamera + CCD. Observer Y. Ikari.
950 La Palma. 2.5-m Nordic telescope. Observers M. Lindgren and G. Tancredi.

Object	Date	UT	R. A. (2000)	Decl.	Mag.	N Obs.
		Periodic Comet Smirnova-Chernykh				
/1984 V	1992	03 22.46991	09 11 17.54	+24 16 40.9	15.5 T	897
		Comet Sorrells (1987 II)				
/1987 II	1987	05 04.76597	23 21 41.58	+12 05 10.9		373
/1987 II	1987	05 24.76019	23 00 35.54	+12 33 17.4		373
/1987 II	1987	06 22.65625	21 49 25.56	+10 50 38.8		373
/1987 II	1987	07 26.59927	19 19 31.49	+00 00 06.2		373
/1987 II	1987	07 29.53281	19 07 43.55	-01 08 04.2		373
/1987 II	1987	08 12.48542	18 22 06.07	-05 53 52.6		373
/1987 II	1987	08 28.49306	17 49 58.93	-09 52 26.0		373
/1987 II	1987	09 19.46775	17 30 16.23	-13 27 12.5		373
		Periodic Comet Grigg-Skjellerup				
/1987 X	1992	05 24.38440	07 25 56.60	+07 26 53.4		413
/1987 X	1992	05 24.38664	07 25 56.99	+07 26 51.2		413
/1987 X	1992	05 24.38922	07 25 57.47	+07 26 52.4		413
/1987 X	1992	05 29.30780	07 40 30.94	+07 38 17.5		474
/1987 X	1992	05 31.29103	07 46 35.56	+07 41 54.2		474
/1987 X	1992	05 31.30995	07 46 39.18	+07 41 55.0	17.7 N	474
/1987 X	1992	06 19.27888	08 50 50.24	+07 45 30.1		474
/1987 X	1992	06 19.29797	08 50 54.31	+07 45 30.1	15.6 N	474
/1987 X	1992	06 19.37329	08 51 10.94	+07 45 21.3		413
/1987 X	1992	06 19.37560	08 51 11.47	+07 45 20.8		413
/1987 X	1992	06 19.37839	08 51 12.08	+07 45 20.6		413
/1987 X	1992	06 20.28478	08 54 32.78	+07 44 03.7		474
/1987 X	1992	06 20.29870	08 54 35.80	+07 44 04.1	15.6 N	474
/1987 X	1992	06 23.27726	09 05 45.67	+07 38 50.1	16.7 N	474
/1987 X	1992	06 23.28895	09 05 48.45	+07 38 49.4		474
/1987 X	1992	06 24.28565	09 09 36.01	+07 36 42.4	16.0 N	474
/1987 X	1992	06 24.29902	09 09 39.00	+07 36 40.7	15.4 N	474
/1987 X	1992	06 25.27425	09 13 23.72	+07 34 29.0	15.0 N	474
/1987 X	1992	06 25.28617	09 13 26.53	+07 34 26.8	15.2 N	474
/1987 X	1992	06 27.28307	09 21 11.29	+07 29 26.0	16.1 N	474
/1987 X	1992	06 27.28929	09 21 12.88	+07 29 25.3	16.3 N	474

/1987 X	1992 06 27.29988	09 21 15.40	+07 29 23.2	16.2	N	474
/1987 X	1992 06 28.28407	09 25 07.14	+07 26 41.5	16.5	N	474
/1987 X	1992 06 28.29177	09 25 09.12	+07 26 38.1	16.9	N	474
/1987 X	1992 06 28.30155	09 25 11.31	+07 26 37.9	16.8	N	474
/1987 X	1992 06 30.28604	09 33 03.69	+07 20 34.7	15	N	474
/1987 X	1992 06 30.29449	09 33 05.77	+07 20 30.6			474
/1987 X	1992 07 01.28623	09 37 04.77	+07 17 16.2			474
/1987 X	1992 07 01.30104	09 37 08.14	+07 17 15.6	16	N	474

Comet Aarseth-Brewington (1989 XXII)

/1989 XXII	1989 12 08.22951	16 24 29.59	+09 26 49.7			045
/1989 XXII	1989 12 09.22118	16 24 51.21	+08 12 27.2			045
/1989 XXII	1989 12 10.20938	16 25 15.06	+06 54 50.5			045
/1989 XXII	1989 12 10.21736	16 25 15.19	+06 54 11.7			045
/1989 XXII	1989 12 11.21921	16 25 42.31	+05 31 38.2			045
/1989 XXII	1989 12 12.21632	16 26 12.90	+04 05 13.9			045
/1989 XXII	1989 12 12.21991	16 26 12.99	+04 04 55.6			045
/1989 XXII	1989 12 14.20185	16 27 28.47	+00 59 14.8			045
/1989 XXII	1989 12 14.20590	16 27 28.60	+00 58 51.6			045
/1989 XXII	1989 12 15.21007	16 28 17.00	-00 43 11.3			045
/1989 XXII	1989 12 15.21343	16 28 17.05	-00 43 33.9			045
/1989 XXII	1989 12 15.22222	16 28 17.53	-00 44 28.5			045
/1989 XXII	1989 12 18.21493	16 31 45.46	-06 25 33.4			045
/1989 XXII	1989 12 18.21719	16 31 45.69	-06 25 49.8			045
/1989 XXII	1989 12 18.22454	16 31 46.30	-06 26 43.9			045
/1989 XXII	1989 12 19.21910	16 33 25.99	-08 33 37.9			045
/1989 XXII	1989 12 19.22135	16 33 26.14	-08 33 53.1			045
/1989 XXII	1989 12 19.22824	16 33 26.92	-08 34 45.4			045

Comet Shoemaker-Levy (1991d)

/1991d	1992 03 15.75521	20 19 45.68	+40 54 34.3	13	T	372
/1991d	1992 03 15.76806	20 19 47.06	+40 54 34.9			372
/1991d	1992 04 20.77552	21 06 59.88	+42 14 19.8			897
/1991d	1992 04 20.78351	21 07 00.39	+42 14 19.3			897
/1991d	1992 05 01.94444	21 14 28.74	+42 41 49.6			540
/1991d	1992 05 02.91319	21 14 57.71	+42 44 03.1			540
/1991d	1992 05 02.92778	21 14 58.16	+42 44 05.7			540
/1991d	1992 05 02.94444	21 14 58.64	+42 44 08.6			540
/1991d	1992 05 02.96528	21 14 59.27	+42 44 10.4			540
/1991d	1992 05 24.88160	21 18 37.52	+43 17 30.7			540
/1991d	1992 05 24.89549	21 18 37.41	+43 17 31.8			540
/1991d	1992 05 24.90937	21 18 37.27	+43 17 32.2			540
/1991d	1992 06 03.70006	21 15 39.96	+43 13 59.6	13	T	897
/1991d	1992 06 03.72245	21 15 39.39	+43 13 58.2			897
/1991d	1992 06 05.41250	21 14 51.45	+43 11 30.5			657
/1991d	1992 06 05.70884	21 14 42.99	+43 11 03.2			900
/1991d	1992 06 05.74439	21 14 41.65	+43 11 00.7			900
/1991d	1992 06 05.76831	21 14 41.04	+43 10 59.5			900
/1991d	1992 06 06.39375	21 14 21.67	+43 09 53.4			657
/1991d	1992 06 06.40556	21 14 21.44	+43 09 52.0			657
/1991d	1992 06 06.42431	21 14 20.52	+43 09 48.2			657
/1991d	1992 06 20.95888	21 03 58.02	+42 17 39.1			596
/1991d	1992 06 20.97553	21 03 57.12	+42 17 32.9			596
/1991d	1992 06 20.99302	21 03 56.12	+42 17 27.6			596
/1991d	1992 06 21.60359	21 03 23.16	+42 13 56.8	13	T	897
/1991d	1992 06 21.63877	21 03 21.29	+42 13 47.2			897
/1991d	1992 06 21.64751	21 03 20.90	+42 13 43.9			897
/1991d	1992 06 21.84969	21 03 09.97	+42 12 31.4			596
/1991d	1992 06 21.85655	21 03 09.54	+42 12 28.8			596

/1991d	1992 06 21.86821	21 03 08.95	+42 12 26.9			596
/1991d	1992 06 21.88290	21 03 08.09	+42 12 19.4			596
	Periodic Comet Faye					
/1991n	1991 10 13.36724	01 46 58.55	+09 33 04.1	11.5	T	691
/1991n	1991 10 13.38753	01 46 58.71	+09 32 46.5			691
/1991n	1991 10 13.41730	01 46 59.00	+09 32 20.7			691
/1991n	1992 01 28.46238	03 31 12.46	+06 51 57.2	12	T	897
/1991n	1992 03 22.45486	05 20 47.38	+13 48 16.7	14	T	897
	Periodic Comet Hartley 2					
/1991t	1991 12 12.80764	10 56 17.67	-06 22 22.8	12	T	897
/1991t	1991 12 12.83854	10 56 18.47	-06 22 40.0			897
/1991t	1991 12 16.85191	10 58 09.12	-07 00 19.6			897
/1991t	1991 12 16.86146	10 58 09.31	-07 00 25.5			897
	Comet McNaught-Russell (1991v)					
/1991v	1992 05 04.65841	03 27 26.06	-59 03 00.9	17.6	N	474
/1991v	1992 05 04.69574	03 27 34.26	-59 02 41.3			474
	Comet Shoemaker-Levy (1991a1)					
/1991a 1	1992 05 24.39340	01 19 09.57	+49 23 14.7			657
/1991a 1	1992 05 25.42187	01 20 32.44	+49 55 57.7			657
/1991a 1	1992 06 03.71510	01 35 59.06	+55 38 25.2			897
/1991a 1	1992 06 03.73941	01 36 01.95	+55 39 25.3			897
/1991a 1	1992 06 03.74907	01 36 03.26	+55 39 51.5			897
/1991a 1	1992 06 05.71285	01 40 20.62	+57 04 59.7	10.5	T	372
/1991a 1	1992 06 05.72847	01 40 22.91	+57 05 40.9			372
/1991a 1	1992 06 05.73785	01 40 24.31	+57 06 06.7			372
/1991a 1	1992 06 07.87818	01 45 43.66	+58 44 50.9			540
/1991a 1	1992 06 07.88507	01 45 44.82	+58 45 10.4			540
/1991a 1	1992 06 07.89201	01 45 45.99	+58 45 30.7			540
/1991a 1	1992 06 07.89896	01 45 47.07	+58 45 50.3			540
/1991a 1	1992 06 21.61487	03 02 40.80	+72 02 40.9			897
/1991a 1	1992 06 21.62199	03 02 45.80	+72 03 09.5			897
/1991a 1	1992 06 21.66117	03 03 13.93	+72 05 43.6			897
/1991a 1	1992 06 27.99439	05 17 29.60	+78 04 29.7			503
	Periodic Comet Kowal 2					
/1991f 1	1992 01 02.59769	08 30 44.30	-08 02 45.6	15	T	897
/1991f 1	1992 01 02.64983	08 30 42.28	-08 03 37.7			897
	Comet Zanotta-Brewington (1991g1)					
/1991g 1	1992 04 30.41111	09 02 04.03	-61 46 09.0	17.6	N	474
/1991g 1	1992 04 30.42413	09 02 08.35	-61 45 46.6			474
/1991g 1	1992 05 02.35238	09 12 27.70	-60 54 12.6	17.8	N	474
/1991g 1	1992 05 02.37050	09 12 33.33	-60 53 42.5			474
	Comet Tanaka-Machholz (1992d)					
/1992d	1992 04 11.11111	22 36 07.70	+28 34 05.1			540
/1992d	1992 04 11.11875	22 36 09.04	+28 34 31.8			540
/1992d	1992 04 11.12465	22 36 09.98	+28 34 52.2			540
/1992d	1992 04 11.12883	22 36 10.55	+28 35 06.1			540
/1992d	1992 05 03.00833	00 00 58.95	+50 17 57.5			540
/1992d	1992 05 03.01319	00 01 00.39	+50 18 14.3			540
/1992d	1992 05 03.01910	00 01 02.36	+50 18 32.1			540
/1992d	1992 05 03.02297	00 01 03.70	+50 18 46.2			540
/1992d	1992 05 13.46609	01 08 00.74	+58 54 06.3			657

/1992d	1992 05 13.46703	01 08 01.16	+58 54 08.7						657
/1992d	1992 05 13.46772	01 08 01.46	+58 54 10.3						657
/1992d	1992 05 13.86563	01 11 02.62	+59 10 30.6						540
/1992d	1992 05 13.87118	01 11 05.07	+59 10 43.8						540
/1992d	1992 05 13.87882	01 11 08.67	+59 11 03.1						540
/1992d	1992 05 13.88299	01 11 10.53	+59 11 12.5						540
/1992d	1992 05 14.87326	01 18 51.96	+59 50 41.0						540
/1992d	1992 05 14.87743	01 18 54.09	+59 50 52.8						540
/1992d	1992 05 14.88160	01 18 55.93	+59 51 01.6						540
/1992d	1992 05 14.88576	01 18 58.09	+59 51 13.0						540
/1992d	1992 05 21.87292	02 19 11.11	+63 32 40.0						540
/1992d	1992 05 21.87639	02 19 12.99	+63 32 44.6						540
/1992d	1992 05 21.87986	02 19 15.12	+63 32 50.4						540
/1992d	1992 05 21.88368	02 19 17.27	+63 32 55.6						540
/1992d	1992 06 03.72847	04 21 39.65	+65 34 30.3						897
/1992d	1992 06 03.73212	04 21 41.13	+65 34 29.9						897
	Periodic Comet Shoemaker-Levy 8								
/1992f	1992 05 09.59602	14 55 16.37	-14 20 23.2						413
/1992f	1992 05 09.59873	14 55 16.26	-14 20 22.6						413
/1992f	1992 05 24.59638	14 46 20.06	-13 06 07.7						413
/1992f	1992 05 24.59833	14 46 19.99	-13 06 07.1						413
/1992f	1992 05 27.27483	14 45 00.69	-12 54 49.1	16	T				675
/1992f	1992 05 27.29722	14 45 00.16	-12 54 43.0						675
/1992f	1992 05 31.31944	14 43 13.72	-12 39 04.8						675
/1992f	1992 05 31.34288	14 43 13.08	-12 38 58.7						675
/1992f	1992 06 03.24479	14 42 07.94	-12 28 51.5	16	T				675
/1992f	1992 06 03.28785	14 42 06.89	-12 28 45.2						675
/1992f	1992 06 05.29253	14 41 27.73	-12 22 24.5						675
	Periodic Comet Mueller 4								
/1992g	1992 04 25.85173	14 04 15.54	+29 51 14.5						589
/1992g	1992 04 25.85868	14 04 15.43	+29 51 15.4						589
/1992g	1992 04 25.86667	14 04 15.10	+29 51 18.5						589
/1992g	1992 04 25.87917	14 04 14.70	+29 51 21.1						589
/1992g	1992 04 25.89097	14 04 14.31	+29 51 25.5						589
/1992g	1992 05 03.88472	14 00 03.76	+30 12 52.7						589
/1992g	1992 05 03.89722	14 00 03.20	+30 12 53.5						589
/1992g	1992 05 03.90556	14 00 03.07	+30 12 54.4						589
/1992g	1992 05 03.91736	14 00 02.77	+30 12 55.4						589
/1992g	1992 05 03.92431	14 00 02.51	+30 12 56.2						589
/1992g	1992 06 01.52222	13 52 22.87	+28 32 09.9	19	T				372
/1992g	1992 06 03.50694	13 52 25.44	+28 16 55.2	19	T				372
	Comet Bradfield (1992i)								
/1992i	1992 05 30.44653	06 54 02.17	+10 34 46.5						323
/1992i	1992 06 02.45417	07 15 08.75	+13 04 16.5						323
/1992i	1992 06 04.45312	07 25 47.06	+14 25 07.5						323
	Periodic Comet Ashbrook-Jackson								
/1992j	1991 04 24.04583	13 29 48.97	-16 54 55.4	21.5	N	1			950
/1992j	1991 04 24.09306	13 29 46.96	-16 54 51.6			1			950
/1992j	1992 05 04.57861	16 52 49.47	-37 46 22.4	18.9	N	2			474
/1992j	1992 05 04.61808	16 52 47.97	-37 46 29.9			2			474
/1992j	1992 05 29.56949	16 32 33.26	-38 29 49.9	17.5	N				474
/1992j	1992 05 29.60352	16 32 31.30	-38 29 49.8						474

Note 1: not obviously cometary. 2: weak, stellar images.

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.
010 Caussols							
C.-I. Lagerkvist, Astronomical Observatory, Box 515, S-75120 Uppsala, Sweden							
Observers J.-L. Heudier, C.-I. Lagerkvist, P.-J. Wahlberg							
0.9-m Schmidt telescope							
AGK3							
1957 VA		1984 11	21.99708	03 36 46.69	+31 04 04.3	16.5	010
1976 GR2		1984 12	20.08190	07 31 43.12	+17 53 08.0	17	010
1976 GR2		1984 12	28.01090	07 23 49.13	+18 13 30.6	17.5	010
1981 EJ7		1984 11	21.99708	03 33 20.92	+30 01 50.6	19	010
1982 FP3		1984 09	21.01736	00 32 55.87	+00 27 00.4		010
1983 GQ		1984 11	20.96944	04 04 46.39	+20 41 37.4	18	010
1984 SY		1984 09	21.01736	00 19 30.93	+02 34 57.2	15.5	010
1984 SO7	*	1984 09	21.01736	00 16 02.45	+03 15 55.8	18	010
1984 SP7	*	1984 09	21.01736	00 16 42.26	+02 34 08.8	16	010
1984 SQ7	*	1984 09	21.01736	00 16 44.68	+02 31 35.7	17.5	010
1984 SR7	*	1984 09	21.01736	00 17 45.26	+01 24 57.9	15	010

1984 SS7	*	1984	09	21.01736	00	17	47.94	+00	55	20.5	17.5	010
1984 ST7	*	1984	09	21.01736	00	18	32.10	+00	16	25.1	16.5	010
1984 SU7	*	1984	09	21.01736	00	19	06.02	+00	59	51.1	17.5	010
1984 SV7	*	1984	09	21.01736	00	19	52.24	+01	47	11.9	18	010
1984 SW7	*	1984	09	21.01736	00	20	30.77	+00	45	26.6	17.5	010
1984 SX7	*	1984	09	21.01736	00	21	57.89	+02	08	57.5	17	010
1984 SY7	*	1984	09	21.01736	00	22	22.89	+01	50	50.5	17	010
1984 SZ7	*	1984	09	21.01736	00	22	32.78	+04	15	08.9	17	010
1984 SA8	*	1984	09	21.01736	00	22	36.53	+03	37	44.2	17.5	010
1984 SB8	*	1984	09	21.01736	00	23	07.47	+01	39	52.5	17	010
1984 SC8	*	1984	09	21.01736	00	24	48.38	+03	11	10.8	17.5	010
1984 SD8	*	1984	09	21.01736	00	27	17.25	+00	34	49.8	16.5	010
1984 SE8	*	1984	09	21.01736	00	28	09.68	+01	40	10.7	15	010
1984 SF8	*	1984	09	21.01736	00	28	29.79	+02	26	23.2	17.5	010
1984 SG8	*	1984	09	21.01736	00	28	38.61	+02	12	05.7	17	010
1984 SH8	*	1984	09	21.01736	00	29	22.57	-00	07	59.6	15	010
1984 SJ8	*	1984	09	21.01736	00	30	20.36	-00	19	00.3	17	010
1984 SK8	*	1984	09	21.01736	00	31	45.95	+02	00	57.4	18.5	010
1984 SL8	*	1984	09	21.01736	00	32	04.53	+01	54	21.6	15.5	010
1984 SM8	*	1984	09	21.01736	00	32	25.83	+03	08	22.1	17	010
1984 SN8	*	1984	09	21.01736	00	32	32.71	+01	51	03.2	18.5	010
1984 SO8	*	1984	09	21.01736	00	33	29.33	+01	16	24.0	15.5	010
1984 SP8	*	1984	09	21.01736	00	35	19.47	+00	11	22.7	16	010
1984 UD5	*	1984	10	30.04410	03	08	27.88	+29	49	54.5	16.5	010
1984 UE5	*	1984	10	30.04410	03	10	46.32	+27	37	09.2	17	010
1984 UF5	*	1984	10	30.04410	03	11	49.25	+29	04	41.7	17	010
1984 UG5	*	1984	10	30.04410	03	15	00.82	+28	33	00.5	18	010
1984 UH5	*	1984	10	30.04410	03	18	24.74	+29	07	32.3	16.3	010
1984 UJ5	*	1984	10	30.04410	03	19	06.94	+26	59	54.7	16.7	010
1984 UK5	*	1984	10	30.04410	03	23	36.02	+26	26	31.9	16.5	010
1984 UL5	*	1984	10	30.04410	03	26	17.75	+30	03	59.1	17	010
1984 UM5	*	1984	10	30.04410	03	27	58.19	+29	33	48.5	17	010
1984 UN5	*	1984	10	30.04410	03	31	49.48	+28	22	48.2	16.5	010
1984 WQ		1984	11	20.96944	04	04	37.34	+22	11	44.7	15.5	010
1984 WQ		1984	11	21.94716	04	03	47.60	+22	05	39.1	16	010
1984 WR		1984	11	20.96944	04	13	32.81	+20	36	44.3	16	010
1984 WR		1984	11	21.94716	04	12	22.31	+20	38	56.2	17	010
1984 WV1		1984	11	21.99708	03	39	50.54	+34	12	56.8	16	010
1984 WC2		1984	10	30.04410	03	20	33.22	+27	45	26.7	17	010
1984 WP4	*	1984	11	20.96944	04	04	09.46	+20	26	15.1	17	010
1984 WP4		1984	11	21.94716	04	03	11.53	+20	27	37.4	17.5	010
1984 WQ4	*	1984	11	20.96944	04	04	29.33	+20	44	04.6	18	010
1984 WR4	*	1984	11	20.96944	04	04	42.07	+20	44	46.6	16	010
1984 WR4		1984	11	21.94716	04	03	45.94	+20	44	53.6	16.5	010
1984 WS4	*	1984	11	20.96944	04	04	54.04	+20	34	10.4	16.5	010
1984 WS4		1984	11	21.94716	04	03	50.05	+20	33	09.6	17.5	010
1984 WT4	*	1984	11	20.96944	04	05	46.90	+22	15	24.1	17.5	010
1984 WU4	*	1984	11	20.96944	04	06	21.08	+23	34	25.2	16	010
1984 WU4		1984	11	21.94716	04	05	16.17	+23	27	17.9	16	010
1984 WV4	*	1984	11	20.96944	04	17	18.58	+21	11	08.8	18	010
1984 WW4	*	1984	11	20.96944	04	19	27.79	+20	40	05.0	17	010
1984 WX4	*	1984	11	21.89637	01	25	58.66	+21	12	34.2	15.6	010
1984 WY4	*	1984	11	21.89637	01	29	19.19	+24	04	27.6	17.5	010
1984 WZ4	*	1984	11	21.89637	01	30	50.87	+21	41	37.9	17	010
1984 WA5	*	1984	11	21.89637	01	41	50.05	+22	50	15.5	16.5	010
1984 WB5	*	1984	11	21.89637	01	42	55.11	+21	41	16.9	18	010
1984 WC5	*	1984	11	21.94716	03	55	37.27	+21	32	39.1	17	010
1984 WD5	*	1984	11	21.94716	03	56	13.10	+20	46	06.4	15.5	010
1984 WE5	*	1984	11	21.94716	03	59	18.23	+23	28	20.6	17	010

1984 WF5	*	1984	11	21.94716	04	01	56.71	+23 19 35.1	18	010
1984 WG5	*	1984	11	21.94716	04	03	18.67	+22 18 57.9	18	010
1984 WH5	*	1984	11	21.94716	04	08	28.24	+20 01 49.4	18	010
1984 WJ5	*	1984	11	21.94716	04	15	04.27	+22 29 24.8	17.5	010
1984 WK5	*	1984	11	21.99708	03	30	16.32	+31 10 35.1	16.5	010
1984 WL5	*	1984	11	21.99708	03	31	20.36	+31 38 24.1	17.5	010
1984 WM5	*	1984	11	21.99708	03	37	53.10	+33 28 58.0	17	010
1984 WN5	*	1984	11	21.99708	03	39	22.23	+29 58 12.1	18.5	010
1984 WO5	*	1984	11	21.99708	03	40	16.81	+29 52 19.5	19	010
1984 WP5	*	1984	11	21.99708	03	41	29.55	+32 47 24.9	17.5	010
1984 WQ5	*	1984	11	21.99708	03	42	06.74	+30 43 21.2	19	010
1984 WR5	*	1984	11	21.99708	03	50	09.80	+33 28 24.9	19	010
1984 YP6	*	1984	12	20.08190	07	25	56.83	+20 05 47.6	14.9	010
1984 YQ6	*	1984	12	20.08190	07	27	19.83	+20 59 07.0	14.4	010
1984 YR6	*	1984	12	20.08190	07	29	21.31	+21 44 52.8	16.5	010
1984 YS6	*	1984	12	20.08190	07	29	29.74	+18 44 07.8	17	010
1984 YT6	*	1984	12	20.08190	07	34	31.78	+17 33 56.6	16.5	010
1984 YT6		1984	12	28.01090	07	25	42.21	+17 25 27.4	17	010
1984 YU6	*	1984	12	20.08190	07	37	53.24	+21 02 16.4	17	010
1984 YV6	*	1984	12	20.08190	07	42	50.60	+20 12 45.5	17	010
1984 YV6		1984	12	28.01090	07	37	05.41	+20 44 52.7	18	010
1984 YW6	*	1984	12	28.01090	07	20	09.15	+20 19 16.5	18.5	010
1984 YX6	*	1984	12	28.01090	07	27	22.90	+21 07 49.2	19	010
1984 YY6	*	1984	12	28.01090	07	28	33.97	+18 26 19.3	16.3	010
1984 YZ6	*	1984	12	28.01090	07	28	37.49	+16 44 05.4	19	010
1984 YA7	*	1984	12	28.01090	07	28	43.46	+20 32 05.2	18.5	010
1984 YB7	*	1984	12	28.01090	07	29	54.90	+19 12 25.0	17.5	010
1984 YC7	*	1984	12	28.01090	07	30	18.20	+16 35 52.4	19	010
1984 YD7	*	1984	12	28.01090	07	33	54.13	+18 49 26.5	17.5	010
1984 YE7	*	1984	12	28.01090	07	34	15.66	+19 39 47.7	19.5	010
1984 YF7	*	1984	12	28.01090	07	36	39.35	+17 56 21.6	18.5	010
1984 YG7	*	1984	12	28.01090	07	39	11.10	+18 14 14.2	19	010
1984 YH7	*	1984	12	28.09653	08	37	44.06	+14 34 10.9	16.5	010
1984 YJ7	*	1984	12	28.09653	08	48	15.97	+15 14 11.6	17	010
1985 BM		1984	12	28.09653	08	44	49.48	+16 39 23.0	15.3	010
1989 EW1		1984	09	21.01736	00	23	08.00	+00 16 30.6	14.5	010
1989 TT11		1984	09	21.01736	00	24	53.21	+03 33 31.4	16.5	010
1990 QF		1984	11	21.99708	03	46	57.16	+31 30 15.5	16	010
1991 DS		1984	12	20.08190	07	37	50.08	+20 45 42.4	16.5	010
1991 DS		1984	12	28.01090	07	32	00.12	+21 04 46.6	17	010
1991 YG		1984	11	20.96944	04	15	10.77	+20 22 28.1	16	010
1991 YG		1984	11	21.94716	04	14	07.79	+20 16 53.2	16.5	010
5141 T-2		1984	11	21.99708	03	33	36.51	+32 03 17.6	18	010
5469 T-2		1984	11	21.94716	03	56	55.26	+22 56 47.7	17	010
(227)		1984	11	21.99708	03	35	25.09	+31 59 39.7	14.5	010
(371)		1984	09	26.09369	02	36	25.10	+25 49 01.6	13.3	010
(504)		1984	12	20.08190	07	41	31.60	+21 24 21.0	14.4	010
(557)		1984	12	20.08190	07	34	06.27	+22 36 01.9	15.0	010
(763)		1984	12	28.09653	08	47	33.30	+17 12 55.5	15.5	010
(840)		1984	12	20.08190	07	40	26.55	+18 19 16.4	14.5	010
(840)		1984	12	28.01090	07	34	23.25	+18 13 35.8	14.4	010
(1002)		1984	09	26.09369	02	34	30.59	+27 14 48.1	14.7	010
(1014)		1984	12	28.01090	07	19	30.97	+20 07 00.8	14.7	010
(1086)		1984	09	26.09369	02	43	52.75	+27 26 30.7	14.7	010
(1107)		1984	12	20.08190	07	30	40.00	+20 20 29.6	13.1	010
(1107)		1984	12	28.01090	07	24	43.98	+20 51 44.6	12.9	010
(1216)		1984	12	20.08190	07	36	13.93	+17 53 28.6	16.5	010
(1222)		1984	11	21.89637	01	42	06.28	+24 10 30.9	16.1	010
(1244)		1984	12	28.01090	07	19	11.94	+20 36 48.3	14.1	010

(1247)	1984 12 20.13043	08 45 16.12	+16 25 28.7	16.3			010
(1247)	1984 12 28.09653	08 41 20.64	+16 40 03.6	16.2			010
(1258)	1984 10 30.04410	03 08 43.75	+28 43 49.7	15.1			010
(1333)	1984 12 28.09653	08 32 41.83	+18 09 53.7	15.0			010
(1383)	1984 12 28.09653	08 42 02.27	+18 11 04.3	16.9			010
(1426)	1984 09 26.09369	02 41 54.05	+26 47 55.2	15.5			010
(1587)	1984 10 30.04410	03 31 24.08	+29 54 59.8	14.6			010
(1598)	1984 10 30.04410	03 17 49.96	+30 07 32.3	16.7			010
(2064)	1984 10 30.04410	03 31 02.92	+29 24 44.2	16.2			010
(2123)	1984 12 28.09653	08 47 10.06	+18 16 29.4	15.5			010
(2237)	1984 12 28.09653	08 34 20.12	+18 37 21.5	15.8			010
(2386)	1984 11 21.99708	03 44 51.90	+31 24 19.8	16.2			010
(2403)	1984 12 20.08190	07 47 28.96	+21 36 01.7	16.5			010
(2453)	1984 09 21.01736	00 34 36.23	+01 20 36.4	14.8			010
(2492)	1984 11 20.96944	04 17 01.15	+22 08 08.6	16.2			010
(2492)	1984 11 21.94716	04 16 11.81	+22 06 17.0	16.2			010
(2575)	1984 10 30.04410	03 23 50.34	+26 27 17.9	16.2			010
(2928)	1984 11 21.99708	03 40 17.56	+33 39 36.1	15.7			010
(2978)	1984 11 20.96944	04 03 21.70	+22 35 33.9	15.5			010
(2978)	1984 11 21.94716	04 02 28.27	+22 33 16.4	15.5			010
(3182)	1984 10 30.04410	03 28 06.63	+27 03 47.4	15.1			010
(3228)	1984 12 20.08190	07 36 33.51	+22 10 18.9	15.2			010
(3599)	1984 09 21.01736	00 26 11.95	+01 57 58.7	16.8			010
(3641)	1984 11 21.99708	03 36 47.61	+31 15 06.6	16.0			010
(3910)	1984 10 30.04410	03 24 49.74	+28 09 29.2	16.7			010
(3958)	1984 09 21.01736	00 34 51.74	+02 13 22.4	14.4			010
(4061)	1984 09 21.01736	00 18 15.25	+00 57 27.3	15.2			010
(4081)	1984 12 28.09653	08 41 51.81	+16 20 24.2	16.5			010
(4301)	1984 11 20.96944	04 07 38.26	+21 31 33.7	16.5			010
(4541)	1984 11 20.96944	04 14 34.50	+20 42 25.9	15			010
(4541)	1984 11 21.94716	04 13 29.62	+20 42 02.3	15.5			010
(4568)	1984 11 21.99708	03 33 52.21	+31 38 00.7	17			010
(4685)	1984 11 20.96944	04 17 37.53	+22 03 12.5	15			010
(4725)	1984 09 21.01736	00 32 38.97	+04 12 30.7	15.5			010
(4746)	1984 12 20.08190	07 35 37.34	+20 21 56.7	16.5			010
(4746)	1984 12 28.01090	07 29 29.82	+20 34 42.8	17			010
(4751)	1984 12 28.01090	07 28 43.49	+20 00 16.1	19			010
(4803)	1984 11 21.94716	03 54 31.92	+21 23 50.3	16.5			010
(5112)	1984 11 21.94716	03 59 22.96	+20 06 42.9	15			010
(5235)	1984 12 20.13043	08 35 55.09	+14 17 51.7	17			010
(5235)	1984 12 28.09653	08 30 34.80	+14 17 25.7	16.5			010
(5241)	1984 11 20.96944	04 00 39.34	+22 03 25.2	15			010
(5241)	1984 11 21.94716	03 59 45.77	+22 02 29.6	15			010

046 Klet
A. Mrkos, Na Pahoubce 10, Dejvice 1509, CS-16000 Prague, Czechoslovakia
Observers A. Mrkos, Z. Vavrova
0.6-m Maksutov reflector

1990 YC	1991 01 17.78406	06 59 51.16	+25 18 43.5	16.8			046
1990 YC	1991 01 17.79832	06 59 50.26	+25 18 44.9				046

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

(5192)	1992 05 02.85278	14 16 11.84	+05 06 58.1				104
(5192)	1992 05 02.86667	14 16 11.28	+05 06 58.9				104

(5192)	1992 05 03.82986	14 15 27.82	+05 07 53.4			104
(5192)	1992 05 03.84375	14 15 27.29	+05 07 52.7			104
(5192)	1992 05 19.84826	14 04 33.52	+05 02 19.6			104
(5192)	1992 05 19.86215	14 04 32.92	+05 02 18.1			104
(5192)	1992 05 26.87743	14 00 44.91	+04 47 46.0			104
(5192)	1992 05 26.89028	14 00 44.55	+04 47 44.0			104
(5192)	1992 05 27.84792	14 00 17.05	+04 45 12.8			104
(5192)	1992 05 27.86007	14 00 16.71	+04 45 10.2			104
(5215)	1992 05 03.90313	15 35 31.65	+04 51 56.8			104
(5215)	1992 05 03.91736	15 35 30.99	+04 52 00.0			104
(5215)	1992 05 03.96042	15 35 28.86	+04 52 09.5			104
(5215)	1992 05 19.89028	15 21 53.64	+05 21 27.3			104
(5215)	1992 05 19.90278	15 21 53.01	+05 21 26.0			104

303 Merida
O. A. Naranjo, Dept. de Fisica, Universidad de los Andes,
Merida 5101, Venezuela
Observer O. A. Naranjo
1.0-m Schmidt

(5242)	1992 04 03.23472	13 52 27.34	-13 20 09.0	18	303
(5242)	1992 04 03.25035	13 52 26.84	-13 20 05.5		303
(5242)	1992 04 03.26597	13 52 26.11	-13 20 01.0		303

327 Peking Observatory, Xinglong Station
Y.-L. Ge, Purple Mountain Observatory, Nanking, Peoples Republic of China
Observer Y.-L. Ge
Measurer Q. Wang

1991 BY2	1991 01 16.77028	08 50 40.47	+25 48 15.4	15.5	327
1991 BY2	1991 01 16.80951	08 50 35.68	+25 47 50.1		327

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

1992 JE	1992 06 05.64583	14 24 49.63	-00 33 19.6	18	372
1992 KD	1992 06 05.62777	14 57 44.70	-06 02 05.8	17	372
1992 KD	1992 06 05.63611	14 57 45.37	-06 01 30.6		372

391 Sendai Observatory, Ayashi Station
M. Koishikawa, Sendai Municipal Observatory, 1-1 Sakuragaoka-koen,
Sendai 980, Japan
0.30-m f/3.8 astrocamera
SAO

1989 UE4	1991 04 20.61979	13 59 36.45	-17 24 24.1	17.5	391
1989 UE4	1991 04 20.64028	13 59 35.31	-17 24 11.7		391
1989 UE4	1991 04 20.66111	13 59 34.00	-17 24 04.8		391

399 Kushiro
H. Kaneda, Taiyo MS 2-H, 2 chome 2-15, Kawazoe 8 jo, Minami-ku,
Sapporo 005, Japan
Observers S. Ueda, M. Matsuyama
Measurer H. Kaneda
0.25-m f/3.5 reflector, 0.22-m f/3.0 Schmidt camera
GSC

1982 FF3	1992 03 23.59624	12 58 49.21	-09 20 15.4	17	399
1982 FF3	1992 03 24.61331	12 57 50.81	-09 14 32.8	17	399
1982 FF3	1992 03 24.62812	12 57 49.83	-09 14 27.1		399
1987 SV11	1991 10 29.44792	01 37 39.45	+11 59 27.2	17	399
1987 SV11	1991 10 29.46424	01 37 38.49	+11 59 23.0		399

1987	SV11		1991	10	31.44514	01 35 37.65	+11 51 56.4	16.5	399
1987	SV11		1991	10	31.46007	01 35 36.82	+11 51 53.1		399
1989	YK8		1992	05	02.64236	16 06 44.97	-11 42 27.1	15.5	399
1989	YK8		1992	05	02.65764	16 06 44.28	-11 42 21.7		399
1989	YK8		1992	05	20.55558	15 53 18.51	-11 05 53.7	16	399
1991	UL		1991	10	28.42951	01 43 39.72	+11 54 31.4	17	399
1991	UL		1991	10	28.44462	01 43 38.88	+11 54 20.6		399
1991	UL		1991	10	29.44792	01 42 40.81	+11 45 40.3	17	399
1991	UL		1991	10	29.46424	01 42 39.83	+11 45 29.9		399
1991	UL		1991	10	31.44514	01 40 46.95	+11 28 24.8	17	399
1991	UL		1991	10	31.46007	01 40 46.01	+11 28 18.0		399
1991	UV1		1991	10	18.73900	02 30 10.15	+14 50 10.8	17	399
1991	UV1		1991	10	18.75451	02 30 09.25	+14 50 09.7		399
1991	UV1		1991	10	19.75347	02 29 10.41	+14 51 10.8	17.5	399
1991	UV1		1991	10	19.76840	02 29 09.53	+14 51 11.8		399
1991	UA3		1991	10	18.77326	02 49 24.64	+12 07 05.7	17.5	399
1991	UA3		1991	10	18.78646	02 49 23.80	+12 07 07.1		399
1991	UA3		1991	10	19.78750	02 48 35.20	+12 07 18.9	17	399
1991	UA3		1991	10	19.80139	02 48 34.52	+12 07 17.0		399
1991	UP3		1991	10	18.77326	02 50 55.58	+10 50 43.5	17.5	399
1991	UP3		1991	10	18.78646	02 50 54.92	+10 50 42.0		399
1991	UP3		1991	10	19.78750	02 50 11.58	+10 48 06.3	17	399
1991	UP3		1991	10	19.80139	02 50 10.84	+10 48 03.3		399
1991	UM4	*	1991	10	18.73900	02 26 05.27	+16 48 58.2	17.5	399
1991	UM4		1991	10	18.75451	02 26 04.42	+16 48 54.4		399
1991	UM4		1991	10	19.75347	02 25 07.15	+16 45 06.4	17	399
1991	UM4		1991	10	19.76840	02 25 06.31	+16 45 03.0		399
1991	UN4		1991	10	29.48403	02 21 23.31	+14 46 53.3	17	399
1991	UN4		1991	10	29.49896	02 21 22.39	+14 46 48.8		399
1991	UN4	*	1991	10	31.47928	02 19 28.77	+14 42 56.2	17	399
1991	UN4		1991	10	31.49497	02 19 27.89	+14 42 52.4		399
1991	VM1		1991	10	18.77326	02 54 03.44	+08 02 01.8	17.5	399
1991	VM1		1991	10	18.78646	02 54 02.63	+08 01 58.8		399
1991	VM1		1991	10	19.78750	02 53 07.55	+07 56 32.6	17.5	399
1991	VM1		1991	10	19.80139	02 53 06.66	+07 56 25.8		399
1991	VT1		1991	12	14.65069	03 55 22.59	+21 28 29.5	17	399
1991	VT1		1991	12	14.66979	03 55 21.52	+21 28 24.4		399
1991	XK		1991	12	14.65069	03 59 39.39	+19 02 31.4	17.5	399
1991	XK		1991	12	14.66979	03 59 38.14	+19 02 24.6		399
1992	FB		1987	04	19.60243	13 45 25.79	-01 24 05.9	16.5	399
1992	FB		1987	04	19.61811	13 45 25.13	-01 24 04.0		399
1992	FB		1987	04	19.64213	13 45 23.83	-01 24 01.0		399
1992	FP2	*	1992	03	24.51389	11 53 03.21	+05 02 43.3	17	399
1992	FP2		1992	03	24.52882	11 53 02.35	+05 02 45.3		399
1992	FP2		1992	03	26.58056	11 51 10.51	+05 10 45.8	17	399
1992	FP2		1992	03	26.59618	11 51 09.70	+05 10 49.8		399
1992	FQ2		1992	03	24.49549	11 19 07.08	+16 55 13.1	17	399
1992	FQ2	*	1992	03	26.51458	11 17 25.55	+16 49 52.1	17	399
1992	FQ2		1992	03	26.52951	11 17 24.61	+16 49 49.2		399
1992	MA	*	1992	06	22.56083	17 24 48.93	-22 39 02.5	16	399
1992	MA		1992	06	22.58340	17 24 47.83	-22 38 59.1		399
1992	MA		1992	06	25.49792	17 22 25.15	-22 36 51.0	16	399
1992	MA		1992	06	25.51331	17 22 24.38	-22 36 48.9		399
1992	MA		1992	06	25.52847	17 22 23.47	-22 36 49.0		399
1992	MB	*	1992	06	22.60175	17 40 46.05	-14 14 05.5	16	399
1992	MB		1992	06	22.61620	17 40 45.17	-14 14 05.4		399
1992	MB		1992	06	24.56667	17 38 46.25	-14 12 43.2	16	399
1992	MB		1992	06	24.58125	17 38 45.39	-14 12 42.6		399
2196	P-L		1991	10	19.75347	02 27 36.63	+17 06 48.1	17	399

2196	P-L	1991 10 19.76840	02 27 35.79	+17 06 41.9			399
2196	P-L	1991 10 29.48403	02 18 06.27	+16 19 29.5	17		399
2196	P-L	1991 10 29.49896	02 18 05.32	+16 19 24.3			399
2196	P-L	1991 10 31.47928	02 16 03.65	+16 08 39.4	17		399
2196	P-L	1991 10 31.49497	02 16 02.55	+16 08 32.2			399
2557	P-L	1991 10 29.44792	01 36 55.97	+12 23 35.0	17		399
2557	P-L	1991 10 29.46424	01 36 55.04	+12 23 30.4			399
2557	P-L	1991 10 31.44514	01 34 54.98	+12 15 19.0	17		399
2557	P-L	1991 10 31.46007	01 34 54.07	+12 15 16.0			399

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

1992	JN1	1992 06 02.63056	16 12 21.12	-11 17 11.5	17.0		402
1992	JN1	1992 06 02.64444	16 12 20.36	-11 17 15.4			402
1992	KE	1992 06 02.60938	15 57 36.97	-11 08 35.3	16.5		402
1992	KE	1992 06 02.62153	15 57 36.16	-11 08 34.1			402
1992	LR	1992 06 02.58264	15 49 47.43	-16 29 38.9	16.5		402
1992	LR	1992 06 02.60000	15 49 47.07	-16 29 24.4			402

410 Sengamine
T. Nomura, 1-1-8, Yamate, Tarumi-ku, Kobe 655, Japan
Observers K. Ito, T. Nomura
Measurer T. Nomura
0.20-m f/6.0 reflector
AGK3

1988	LA	1992 06 05.70956	16 44 48.05	-08 13 30.7	15.3	V	410
1988	LA	1992 06 05.71509	16 44 47.57	-08 13 32.9			410
1988	LA	1992 06 05.72888	16 44 46.87	-08 13 40.5			410
1990	XB1	1992 06 05.66868	15 59 32.48	-08 52 48.7	15.8	V	410
1990	XB1	1992 06 05.67285	15 59 32.22	-08 52 50.5			410
1990	XB1	1992 06 05.67707	15 59 32.11	-08 52 53.5			410

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

1978	SN7	1991 01 20.72152	11 12 58.89	-07 34 47.9			413
1981	EX13	1992 06 23.49318	16 10 20.92	-11 15 11.8			413
1981	EX13	1992 06 23.53485	16 10 19.56	-11 15 06.3			413
1985	RL1	1992 06 23.49318	16 04 24.51	-09 48 26.4			413
1985	RL1	1992 06 23.53485	16 04 22.91	-09 48 18.6			413
1986	RA	1992 06 19.60964	16 20 26.46	+15 36 16.7			413
1986	RA	1992 06 19.61215	16 20 26.29	+15 36 17.3			413
1987	SL	1992 05 24.57830	13 06 10.67	-51 07 12.5			413
1987	SL	1992 05 24.58038	13 06 10.36	-51 07 12.7			413
1987	SL	1992 06 19.55721	12 27 14.53	-50 34 50.4			413
1987	SL	1992 06 19.55883	12 27 14.47	-50 34 50.2			413
1988	RA	1992 06 19.70778	22 12 23.16	-45 19 59.8			413
1988	RA	1992 06 19.71285	22 12 23.12	-45 20 02.0			413
1988	RK	1991 05 18.55961	15 42 46.32	-01 57 33.3	18	V	413
1988	RK	1991 05 18.61169	15 42 43.39	-01 57 16.5			413
1989	PT	1986 09 11.70009	04 10 07.19	+13 11 54.4	18.5	V F	413
1989	PT	1992 06 23.49318	16 09 05.92	-09 56 40.0	17.5	V	413
1989	PT	1992 06 23.53485	16 09 04.32	-09 56 45.0			413

1991 GP12	*	1991	04	13.49519	11	49	45.74	-13	44	14.9	18 V	413
1991 GP12		1991	04	13.53685	11	49	43.39	-13	43	58.9		413
1991 GP12		1991	05	07.42412	11	36	34.24	-11	24	55.0	18.5 V	413
1991 GP12		1991	05	07.46579	11	36	33.59	-11	24	43.0		413
1991 JY		1992	06	19.36508	07	22	35.22	-72	40	35.1		413
1991 JY		1992	06	19.36788	07	22	36.08	-72	40	28.6		413
1991 TB1		1992	05	24.53255	11	13	41.49	-25	15	58.4		413
1991 TB1		1992	05	24.53450	11	13	41.65	-25	15	59.6		413
1991 VK		1992	05	24.56659	12	48	31.97	-16	22	29.4		413
1991 VK		1992	05	24.56850	12	48	32.04	-16	22	28.8		413
1992 AA		1992	05	24.51089	10	41	48.92	+19	27	29.5	V	413
1992 AA		1992	05	24.51279	10	41	49.08	+19	27	28.0	V	413
1992 BB		1992	05	24.49862	10	00	59.26	+11	03	51.8	I	413
1992 BB		1992	05	24.50072	10	00	59.67	+11	03	50.8	I	413
1992 CC1		1992	05	24.48322	09	54	09.74	+00	25	33.2		413
1992 CC1		1992	05	24.48829	09	54	09.98	+00	25	29.8		413
1992 EB1		1992	05	24.52726	10	55	56.43	-40	44	01.0		413
1992 EB1		1992	05	24.52922	10	55	56.67	-40	44	01.9		413
1992 EB1		1992	06	18.46285	12	02	13.92	-43	14	08.5		413
1992 EB1		1992	06	18.46549	12	02	14.40	-43	14	08.9		413
1992 EB1		1992	06	19.55087	12	05	35.22	-43	18	24.2	E	413
1992 EB1		1992	06	19.55394	12	05	35.88	-43	18	24.9	E	413
1992 FE		1992	05	24.51606	10	35	26.97	-00	30	16.9		413
1992 FE		1992	05	24.51804	10	35	27.15	-00	30	17.5		413
1992 FE		1992	06	18.45524	11	21	04.72	-03	21	37.4		413
1992 FE		1992	06	18.45775	11	21	05.04	-03	21	39.0		413
1992 FE		1992	06	19.40420	11	22	53.39	-03	29	26.0		413
1992 FE		1992	06	19.40755	11	22	53.82	-03	29	27.4		413
1992 FL1		1992	05	24.58451	13	44	55.85	-25	20	30.0		413
1992 FL1		1992	05	24.58654	13	44	55.92	-25	20	29.5		413
1992 FL1		1992	06	19.58252	14	12	06.81	-24	09	32.2		413
1992 FL1		1992	06	19.58510	14	12	07.02	-24	09	32.0		413
1992 HE		1992	05	09.56285	04	08	11.16	-77	45	46.1		413
1992 HE		1992	05	09.56733	04	08	11.69	-77	45	15.7		413
1992 JB		1992	05	24.60241	15	30	53.37	+11	38	25.1		413
1992 JB		1992	05	24.60436	15	30	53.37	+11	38	26.9		413
1992 JE		1992	05	24.59104	14	33	03.80	-02	57	27.6		413
1992 JE		1992	05	24.59300	14	33	03.69	-02	57	25.9		413
1992 LR		1992	05	21.58432	15	51	23.35	-18	51	31.9		413
1992 LR		1992	05	21.60372	15	51	22.87	-18	51	20.8		413
1992 LR		1992	06	05.57833	15	49	49.22	-15	45	58.4		413
1992 LR		1992	06	05.62000	15	49	48.73	-15	45	22.8		413
1992 LR		1992	06	23.49318	16	01	25.53	-10	36	13.6		413
1992 LR		1992	06	23.53485	16	01	28.08	-10	35	24.4		413
5332 T-2		1991	01	20.72152	10	57	30.14	-07	59	47.2		413
(814)		1992	06	23.51402	15	58	43.68	-09	40	48.9		413
(1309)		1992	06	23.51402	15	59	42.47	-11	05	19.4		413
(2050)		1992	06	22.74176	21	25	42.20	-47	38	18.8		413
(2050)		1992	06	22.80426	21	25	42.77	-47	39	47.9	15.5 V	413
(4884)		1992	06	23.49318	16	00	50.12	-11	17	36.2		413
(4884)		1992	06	23.53485	16	00	48.73	-11	17	40.9		413
(4953)		1992	06	19.66554	20	50	19.64	-44	07	45.3		413
(4953)		1992	06	19.66723	20	50	19.29	-44	07	49.1		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

1981 GD1		1992 05 02.56054	14 37 04.65	-15 56 23.9	18.5			474
1981 GD1		1992 05 02.59168	14 37 03.21	-15 56 15.0				474
1981 GD1		1992 05 04.48208	14 35 33.97	-15 47 15.6	18.4			474
1981 GD1		1992 05 04.51391	14 35 32.37	-15 47 06.5				474
1981 GD1		1992 05 29.49073	14 18 56.52	-13 59 41.9	18.7			474
1981 GD1		1992 05 29.52019	14 18 55.62	-13 59 35.8				474
1985 KA		1992 05 02.44411	12 37 48.92	-29 47 21.2	18.3			474
1985 KA		1992 05 02.46894	12 37 47.74	-29 46 59.8				474
1987 SL		1992 05 02.50696	14 01 59.04	-48 14 19.7	17.7			474
1987 SL		1992 05 02.52177	14 01 56.84	-48 14 32.3				474
1987 SL		1992 05 30.57905	12 52 47.87	-51 12 02.0	16.9			474
1987 SL		1992 05 30.58530	12 52 47.06	-51 12 01.3				474
1991 JY		1992 05 30.54433	00 10 55.33	-79 57 59.0	17.6			474
1991 JY		1992 05 30.55764	00 11 17.63	-79 58 46.2				474
1992 GA		1992 05 02.40140	12 46 40.61	-26 15 06.0	17.8			474
1992 GA		1992 05 02.41784	12 46 40.02	-26 15 00.5				474
1992 HE		1992 04 30.49456	16 26 53.78	-82 31 05.0	15.0			474
1992 HE		1992 04 30.49618	16 26 54.23	-82 31 18.9				474
1992 HE		1992 04 30.49861	16 26 54.85	-82 31 41.5				474
1992 HE		1992 04 30.50174	16 26 55.43	-82 32 08.9				474
1992 JO1	*	1992 05 02.56054	14 35 25.96	-15 48 50.7	18.6			474
1992 JO1		1992 05 02.59168	14 35 23.97	-15 48 43.4				474
1992 JO1		1992 05 04.48208	14 33 29.78	-15 41 02.1	18.3			474
1992 JO1		1992 05 04.51391	14 33 27.67	-15 40 54.6				474
(791)		1992 04 30.71782	23 05 29.76	-09 33 58.6	13.7		t	474
(791)		1992 04 30.73044	23 05 31.04	-09 33 54.7			t	474
(5143)		1992 04 30.71782	23 05 20.78	-09 17 51.6	17.1			474
(5143)		1992 04 30.73044	23 05 21.51	-09 17 42.7				474
(5143)		1992 05 02.75505	23 07 16.31	-08 55 29.0	16.9			474

493 Calar Alto
J. M. Baur, Via Zara 20, I-33083 Chions, Italy
Observer K. Birkle
Measurers K. Birkle, J. M. Baur
0.8-m f/3 Schmidt

(2772)		1991 02 23.17616	13 54 15.21	+00 55 56.2	17.5			493
(2772)		1991 02 23.19282	13 54 15.16	+00 56 03.1				493

511 Haute Provence
E. W. Elst, Royal Observatory, B-1180 Brussels, Belgium
Observers E. W. Elst, G. Traversa
Measurer E. W. Elst
0.6-m Schmidt

1981 EY17		1991 12 29.02604	06 38 07.15	+19 14 58.3				511
1981 EY17		1991 12 29.05799	06 38 04.95	+19 15 01.0				511
1989 EW1		1991 12 28.87535	06 01 45.94	+28 44 59.9				511
1989 EW1		1991 12 28.90799	06 01 43.49	+28 44 59.4				511
1989 EW1		1992 01 04.81979	05 53 57.72	+28 43 56.6				511
1989 EW1		1992 01 04.85868	05 53 55.16	+28 43 56.2				511
1991 CA		1991 02 16.97812	10 18 07.93	+09 31 37.5	17.2			511
1991 DB1		1991 02 12.05347	10 04 25.76	+08 01 30.9	17.9			511
1991 DB1		1991 02 12.08889	10 04 23.77	+08 01 51.8				511
1991 YM		1991 12 28.87535	06 03 57.81	+30 18 31.7				511
1991 YM		1991 12 28.90799	06 03 55.74	+30 18 41.5				511
1991 YM		1992 01 04.81979	05 57 00.12	+30 45 12.5				511
1991 YV		1991 12 29.02604	06 30 50.73	+18 01 29.8				511
1991 YV		1991 12 29.05799	06 30 48.66	+18 01 44.6				511
1991 YW		1991 12 29.02604	06 35 47.72	+17 51 09.2				511
1991 YW		1991 12 29.05799	06 35 45.57	+17 51 15.8				511

1991 YB1	1991 12 28.87535	05 53 38.75	+28 49 07.4		511
1991 YB1	1991 12 28.90799	05 53 36.30	+28 49 01.3		511
1991 YB1	1992 01 04.81979	05 46 26.00	+28 30 18.9		511
1991 YB1	1992 01 04.85868	05 46 23.50	+28 30 14.0		511
1991 YC1	1991 12 28.87535	06 00 41.63	+29 21 29.6		511
1991 YC1	1991 12 28.90799	06 00 39.18	+29 21 24.8		511
(583)	1991 12 29.02604	06 32 48.75	+19 02 13.2		511
(583)	1991 12 29.05799	06 32 46.95	+19 02 08.7		511
(884)	1992 01 04.81979	05 51 18.06	+28 57 19.2		511
(884)	1992 01 04.85868	05 51 16.69	+28 57 18.6		511
(1105)	1991 12 29.02604	06 38 03.51	+17 51 16.2		511
(1105)	1991 12 29.05799	06 38 01.69	+17 51 22.5		511
(1119)	1991 12 28.87535	06 05 17.79	+30 12 53.6		511
(1119)	1991 12 28.90799	06 05 15.74	+30 12 55.9		511
(1119)	1992 01 04.81979	05 57 56.33	+30 21 24.7		511
(1119)	1992 01 04.85868	05 57 54.11	+30 21 27.0		511
(1396)	1992 01 04.81979	06 00 19.78	+30 32 06.1		511
(1396)	1992 01 04.85868	06 00 16.95	+30 32 05.6		511
(2252)	1991 12 28.87535	06 06 55.27	+30 17 59.3		511
(2252)	1991 12 28.90799	06 06 53.21	+30 17 58.0		511
(2252)	1992 01 04.81979	05 59 32.63	+30 12 48.8		511
(2252)	1992 01 04.85868	05 59 30.21	+30 12 47.3		511
(3760)	1991 12 29.02604	06 35 52.07	+18 18 40.6		511
(3760)	1991 12 29.05799	06 35 49.94	+18 18 49.2		511
(3786)	1991 12 29.02604	06 29 52.80	+17 26 10.0		511
(3786)	1991 12 29.05799	06 29 50.70	+17 26 00.5		511

552 San Vittore
E. Colombini, Via S. Vittore 44, I-40136 Bologna, Italy
Observers C. Vacchi, G. Sassi
Measurers R. di Luca, V. Goretti, E. Colombini
0.45-m f/5 reflector
PPM, GSC

(1246)	1981 01 30.91458	08 58 17.11	+07 47 01.4		552
(1246)	1981 01 30.93056	08 58 16.02	+07 47 02.3		552
(1246)	1981 01 30.94097	08 58 15.50	+07 47 03.0		552
(2055)	1981 01 30.96389	10 45 56.81	+21 35 34.2		552
(2055)	1981 01 30.97917	10 45 55.77	+21 35 30.1		552
(2100)	1981 08 24.85903	21 22 18.19	+23 07 18.6		552
(2100)	1981 08 24.87639	21 22 12.95	+23 05 20.8		552

589 Santa Lucia Stroncone
A. Vagnozzi, Via Santa Lucia 68, I-05039 Stroncone (Terni), Italy
Observers A. Vagnozzi, V. Risoldi, G. Bernabei
0.50-m f/2.8 Ritchey-Chretien + CCD
GSC

1983 CE	1992 05 04.86597	13 25 10.40	+15 19 06.9		589
1983 CE	1992 05 04.87222	13 25 10.16	+15 19 06.6		589
1983 CE	1992 05 04.87778	13 25 09.90	+15 19 05.9		589
1988 NN	1992 06 20.91351	19 05 18.05	+01 45 12.5		589
1988 NN	1992 06 20.92549	19 05 17.43	+01 45 18.5		589
1988 NN	1992 06 20.93749	19 05 16.89	+01 45 24.6		589
1989 CJ1	1992 05 28.86875	15 46 03.20	+31 33 26.4		589
1989 CJ1	1992 05 28.87569	15 46 02.72	+31 33 24.7		589
1989 CJ1	1992 05 28.88403	15 46 02.14	+31 33 21.8		589
1989 CJ1	1992 05 28.89305	15 46 01.55	+31 33 19.3		589
1992 JB	1992 05 08.88958	15 27 21.29	+02 19 45.7		589
1992 JB	1992 05 08.89306	15 27 21.32	+02 19 58.5		589
1992 JB	1992 05 08.89722	15 27 21.37	+02 20 14.4		589

1992 JB	1992 05 09.92153	15 27 41.86	+03 22 58.1			589
1992 JB	1992 05 09.92917	15 27 41.89	+03 23 24.8			589
1992 JB	1992 05 09.93750	15 27 41.92	+03 23 54.3			589
1992 JB	1992 05 09.94176	15 27 41.96	+03 24 08.5			589
1992 JB	1992 05 09.95833	15 27 41.97	+03 25 07.5			589
1992 LR	1992 06 23.85966	16 01 57.83	-10 30 11.8			589
1992 LR	1992 06 23.87219	16 01 58.74	-10 29 56.3			589
1992 LR	1992 06 23.87499	16 01 58.91	-10 29 53.3			589
1992 LR	1992 06 23.88158	16 01 59.34	-10 29 46.6			589
1992 LR	1992 06 23.89187	16 02 00.03	-10 29 33.8			589
1992 LR	1992 06 25.92741	16 05 16.04	-09 48 43.7			589
1992 LR	1992 06 25.93853	16 05 16.73	-09 48 29.2			589
1992 LR	1992 06 26.84618	16 06 56.16	-09 29 52.7			589
1992 LR	1992 06 26.85035	16 06 56.53	-09 29 47.6			589
1992 LR	1992 06 26.87467	16 06 58.65	-09 29 18.2			589
1992 LR	1992 06 26.87893	16 06 59.09	-09 29 12.1			589
1992 LR	1992 06 27.85755	16 08 52.75	-09 08 54.0			589
1992 LR	1992 06 27.88162	16 08 55.12	-09 08 24.4			589
1992 LR	1992 06 27.89247	16 08 56.14	-09 08 09.5			589
1992 LR	1992 06 27.90243	16 08 57.16	-09 07 57.6			589
1992 LR	1992 06 27.91698	16 08 58.57	-09 07 39.4			589
1992 LR	1992 06 29.85987	16 13 09.90	-08 26 29.7			589
1992 LR	1992 06 29.86521	16 13 10.50	-08 26 22.8			589
1992 LR	1992 06 29.87355	16 13 11.46	-08 26 12.3			589
1992 LR	1992 06 29.87915	16 13 12.12	-08 26 05.0			589
1992 LR	1992 06 29.88505	16 13 12.79	-08 25 57.4			589
(5192)	1992 04 24.89375	14 22 16.02	+04 54 32.9			589
(5192)	1992 04 24.89791	14 22 15.83	+04 54 33.1			589
(5192)	1992 04 24.90417	14 22 15.58	+04 54 33.5			589
(5192)	1992 04 24.91250	14 22 15.12	+04 54 34.6			589
(5192)	1992 04 25.92292	14 21 28.64	+04 56 38.0			589
(5192)	1992 04 25.92986	14 21 28.32	+04 56 38.6			589
(5192)	1992 04 25.93611	14 21 28.03	+04 56 39.1			589
(5192)	1992 04 25.94097	14 21 27.81	+04 56 39.9			589
(5211)	1992 05 06.90556	13 52 49.38	+32 04 34.0			589
(5211)	1992 05 06.91389	13 52 48.91	+32 04 33.8			589
(5211)	1992 05 06.92569	13 52 48.20	+32 04 33.0			589
(5211)	1992 05 06.93333	13 52 47.82	+32 04 32.5			589
(5211)	1992 05 07.82083	13 52 00.39	+32 04 25.3			589
(5211)	1992 05 07.82708	13 52 00.01	+32 04 25.3			589
(5211)	1992 05 07.83958	13 51 59.38	+32 04 25.0			589
(5211)	1992 05 08.82083	13 51 08.19	+32 03 56.3			589
(5211)	1992 05 08.83403	13 51 07.46	+32 03 54.4			589
(5211)	1992 05 08.85347	13 51 06.40	+32 03 53.2			589
(5215)	1992 05 27.88541	15 15 20.10	+05 10 22.0			589
(5215)	1992 05 27.89028	15 15 19.86	+05 10 21.4			589
(5215)	1992 05 27.89514	15 15 19.65	+05 10 20.5			589
(5215)	1992 05 27.90000	15 15 19.39	+05 10 20.2			589
(5215)	1992 05 27.90972	15 15 18.92	+05 10 18.6			589
(5216)	1992 05 27.92639	16 13 03.41	+01 41 12.5			589
(5216)	1992 05 27.93055	16 13 03.16	+01 41 12.6			589
(5216)	1992 05 27.93472	16 13 02.95	+01 41 12.7			589
(5216)	1992 05 27.93889	16 13 02.72	+01 41 12.8			589
(5222)	1992 05 27.84028	16 38 25.39	+05 33 38.1			589
(5222)	1992 05 27.84375	16 38 25.18	+05 33 41.2			589
(5222)	1992 05 27.84722	16 38 25.01	+05 33 43.9			589
(5222)	1992 05 27.85069	16 38 24.80	+05 33 47.0			589
(5222)	1992 05 27.85764	16 38 24.40	+05 33 52.7			589
(5222)	1992 05 27.86944	16 38 23.72	+05 34 02.7			589

(5232)	1992 05 06.94792	15 17 00.09	+00 23 25.4		589
(5232)	1992 05 06.95208	15 16 59.99	+00 23 26.8		589
(5232)	1992 05 06.95694	15 16 59.66	+00 23 28.3		589

596 Colleverde di Guidonia
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GSC

1983 CE	1992 04 22.85198	13 33 35.57	+15 12 35.2		596
1983 CE	1992 04 22.86453	13 33 35.01	+15 12 37.7		596
1983 CE	1992 04 22.87198	13 33 34.61	+15 12 39.9		596
1983 CE	1992 04 24.81423	13 32 05.11	+15 16 48.8		596
1983 CE	1992 04 24.83302	13 32 04.22	+15 16 50.2		596
1988 EN	1992 05 06.82649	13 42 07.71	-01 37 37.1		596
1988 EN	1992 05 06.84236	13 42 06.99	-01 37 32.5		596
1988 EN	1992 05 06.84944	13 42 06.62	-01 37 29.1		596
1988 LA	1992 06 03.89147	16 46 36.87	-07 57 41.2		596
1988 LA	1992 06 03.90199	16 46 36.23	-07 57 45.9		596
1988 LA	1992 06 03.90710	16 46 35.90	-07 57 49.1		596
1988 SO1	1992 05 28.86219	16 00 27.60	-06 29 51.3		596
1988 SO1	1992 05 28.88712	16 00 26.44	-06 29 51.7		596
1990 VH1	1992 04 20.83542	13 01 25.43	+05 17 29.5		596
1990 VH1	1992 04 20.84906	13 01 24.71	+05 17 27.0		596
1990 VH1	1992 04 20.85906	13 01 24.09	+05 17 24.6		596
1990 VH1	1992 04 21.83132	13 00 27.86	+05 13 35.8		596
1990 VH1	1992 04 21.84840	13 00 26.87	+05 13 31.9		596
1990 XB1	1992 06 04.84869	16 00 13.48	-08 49 32.1		596
1990 XB1	1992 06 04.86752	16 00 12.44	-08 49 35.7		596
1990 XB1	1992 06 05.83723	15 59 24.22	-08 53 32.5		596
1990 XB1	1992 06 05.85099	15 59 23.52	-08 53 34.8		596
1990 XB1	1992 06 05.85875	15 59 23.17	-08 53 36.4		596
1991 AJ1	1992 04 20.87997	14 12 32.27	+09 38 42.9		596
1991 AJ1	1992 04 20.89285	14 12 31.68	+09 38 44.7		596
1991 AJ1	1992 04 20.90438	14 12 30.79	+09 38 46.4		596
1991 AJ1	1992 04 21.88135	14 11 37.07	+09 41 41.6		596
1991 AJ1	1992 04 21.89476	14 11 36.35	+09 41 42.7		596
1991 AJ1	1992 04 21.90250	14 11 35.97	+09 41 45.3		596
1992 JB	1992 05 08.89104	15 27 21.33	+02 19 51.1		596
1992 JB	1992 05 08.89632	15 27 21.37	+02 20 10.6		596
1992 JB	1992 05 08.90097	15 27 21.47	+02 20 29.7		596
1992 JB	1992 05 08.91687	15 27 21.51	+02 21 29.9		596
9546 P-L	1992 06 20.85458	17 37 43.07	-22 15 03.9		596
9546 P-L	1992 06 20.86913	17 37 42.38	-22 15 04.4		596
9546 P-L	1992 06 20.88180	17 37 41.66	-22 15 04.8		596
(5192)	1992 04 24.89858	14 22 15.81	+04 54 33.6		596
(5192)	1992 04 24.90448	14 22 15.73	+04 54 34.1		596
(5192)	1992 04 28.84528	14 19 14.39	+05 01 50.6		596
(5192)	1992 04 28.86278	14 19 13.63	+05 01 50.9		596
(5192)	1992 04 28.87698	14 19 13.16	+05 01 51.1		596
(5215)	1992 05 07.88368	15 32 14.66	+05 05 19.5		596
(5215)	1992 05 07.90385	15 32 13.64	+05 05 22.5		596
(5215)	1992 05 07.91580	15 32 12.95	+05 05 24.3		596
(5215)	1992 05 27.83680	15 15 22.40	+05 10 29.2		596
(5215)	1992 05 27.84680	15 15 21.93	+05 10 27.9		596
(5215)	1992 05 27.85260	15 15 21.63	+05 10 27.3		596
(5222)	1992 05 26.89846	16 39 17.71	+05 20 14.2		596
(5222)	1992 05 26.90707	16 39 17.16	+05 20 21.9		596
(5222)	1992 05 27.87960	16 38 23.12	+05 34 11.4		596
(5222)	1992 05 27.88715	16 38 22.71	+05 34 17.5		596

(5222)	1992 05 27.89427	16 38 22.31	+05 34 23.3		596
(5232)	1992 05 04.88247	15 18 33.09	+00 09 39.4		596
(5232)	1992 05 04.90437	15 18 31.97	+00 09 44.6		596
(5232)	1992 05 28.82910	15 01 13.93	+01 54 56.0		596
(5232)	1992 05 28.83948	15 01 13.69	+01 54 57.0		596

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0.25-m Schmidt, 0.5-m reflector + CCD

1966 CF	1992 04 23.41102	15 04 52.28	-01 17 54.4		657
1966 CF	1992 04 23.41427	15 04 52.15	-01 17 53.4		657
1966 CF	1992 04 23.42426	15 04 51.50	-01 17 50.6		657
1979 KR	1992 06 25.35550	19 38 54.55	-01 37 14.1		657
1979 KR	1992 06 25.35917	19 38 54.39	-01 37 14.1		657
1979 KR	1992 06 25.36279	19 38 54.22	-01 37 14.3		657
1979 KR	1992 06 26.32039	19 38 12.89	-01 35 22.6		657
1979 KR	1992 06 26.32557	19 38 12.60	-01 35 22.0		657
1979 KR	1992 06 26.32877	19 38 12.45	-01 35 21.5		657
1985 CA2	1992 04 24.25317	13 39 56.98	-01 01 51.9		657
1985 CA2	1992 04 24.25806	13 39 56.73	-01 01 51.3		657
1985 CA2	1992 04 24.26315	13 39 56.43	-01 01 49.5		657
1988 NN	1992 06 26.33444	19 01 10.62	+02 27 33.7		657
1988 NN	1992 06 26.33708	19 01 10.48	+02 27 34.6		657
1988 NN	1992 06 26.33980	19 01 10.36	+02 27 35.5		657
1992 AC	1992 06 22.26161	13 42 55.21	+14 11 20.6		657
1992 AC	1992 06 22.26646	13 42 55.66	+14 11 14.0		657
1992 JB	1992 05 12.43583	15 28 24.09	+05 36 40.5		657
1992 JB	1992 05 12.43807	15 28 23.99	+05 36 46.8		657
1992 JB	1992 05 12.44014	15 28 24.03	+05 36 52.5		657
1992 LR	1992 06 24.24024	16 02 31.99	-10 22 44.5		657
1992 LR	1992 06 24.24291	16 02 32.20	-10 22 40.4		657
1992 LR	1992 06 25.30853	16 04 12.65	-10 01 18.7		657
1992 LR	1992 06 25.31072	16 04 12.86	-10 01 15.7		657
1992 LR	1992 06 25.31285	16 04 13.01	-10 01 13.3		657
1992 LR	1992 06 25.31523	16 04 13.22	-10 01 10.5		657
1992 LR	1992 06 26.30372	16 05 55.36	-09 41 05.0		657
1992 LR	1992 06 26.30580	16 05 55.56	-09 41 02.6		657
1992 LR	1992 06 26.30809	16 05 55.77	-09 40 59.6		657
(17)	1992 03 09.45903	14 16 05.94	-04 59 36.4		657
(17)	1992 03 09.50556	14 16 05.84	-04 59 25.0		657
(90)	1992 02 27.22187	09 59 41.41	+15 27 21.6		657
(90)	1992 02 27.25868	09 59 39.81	+15 27 29.0		657
(126)	1992 02 27.22187	09 58 46.30	+16 15 37.5		657
(126)	1992 02 27.25868	09 58 44.26	+16 15 46.0		657
(342)	1991 10 05.37031	05 00 00.97	+22 39 42.4		657
(342)	1991 10 17.50556	05 04 11.50	+22 05 03.4		657
(348)	1992 05 22.28028	15 05 22.05	-07 56 52.5		657
(460)	1992 03 28.25955	11 02 00.72	+02 14 36.8		657
(460)	1992 03 28.34566	11 01 57.32	+02 15 05.8		657
(467)	1992 02 06.18993	08 09 27.48	+23 07 52.1		657
(492)	1991 12 15.37500	07 18 12.85	+24 03 20.0		657
(492)	1991 12 15.45278	07 18 09.17	+24 03 28.8		657
(528)	1992 03 09.45903	14 21 57.65	-06 12 23.7		657
(528)	1992 03 09.50556	14 21 56.87	-06 12 21.6		657
(560)	1992 04 08.38514	13 20 17.76	+06 07 22.9		657
(560)	1992 04 21.27639	13 09 45.06	+06 53 09.7		657
(715)	1992 01 05.22153	03 01 16.50	+23 58 56.9		657

(756)	1991 09 17.40354	01 15 32.21	+14 51 54.6		657
(768)	1991 10 06.32726	02 42 52.75	+11 37 18.3		657
(772)	1991 10 14.42153	07 04 14.75	+34 38 50.4		657
(842)	1991 10 03.31118	01 11 24.13	+12 13 23.5		657
(876)	1991 10 05.22500	00 24 44.37	-08 27 34.7		657
(876)	1991 10 05.30087	00 24 41.29	-08 28 10.0		657
(890)	1992 03 10.36639	13 31 03.46	-01 02 02.9		657
(890)	1992 03 10.40076	13 31 02.69	-01 01 48.8		657
(893)	1992 04 08.39556	13 14 15.54	+11 43 52.0		657
(893)	1992 04 21.28611	13 05 27.69	+12 51 04.0		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
(996)	1991 10 13.28750	00 35 51.27	+04 17 32.0		657
(1075)	1992 04 08.39556	13 11 02.96	+10 09 25.0		657
(1095)	1991 10 13.27778	00 29 00.77	-00 09 19.0		657
(1145)	1991 10 14.28212	01 27 40.21	+15 44 52.5		657
(1145)	1991 10 14.33420	01 27 37.02	+15 44 41.9		657
(1170)	1992 03 28.28524	11 50 41.66	+00 39 42.7		657
(1287)	1991 10 06.32726	02 41 10.31	+13 09 14.0		657
(1339)	1991 10 13.26042	00 14 21.70	+15 28 32.1		657
(1339)	1991 10 13.31319	00 14 19.21	+15 28 16.1		657
(1351)	1991 10 13.28750	00 38 13.90	+05 02 35.7		657
(1443)	1991 09 03.28854	22 57 15.04	-05 56 28.2		657
(1485)	1991 10 13.26042	00 15 38.82	+16 28 40.4		657
(1485)	1991 10 13.31319	00 15 36.46	+16 28 24.3		657
(1661)	1991 09 03.32118	22 37 06.26	-02 54 26.5		657
(1812)	1991 09 03.32118	22 33 03.11	-03 26 13.5		657
(1878)	1991 10 13.28750	00 36 18.87	+03 39 22.7		657
(2307)	1991 09 17.40354	01 15 14.11	+17 45 52.4		657
(2307)	1991 10 14.25851	00 56 17.02	+15 41 02.5		657
(2307)	1991 10 14.30712	00 56 14.73	+15 40 44.1		657
(2490)	1991 10 13.25278	00 07 42.47	+09 44 24.7		657
(2490)	1991 10 13.30556	00 07 40.39	+09 43 49.0		657
(2866)	1991 10 14.26615	01 16 16.28	+21 49 48.6		657
(2866)	1991 10 14.31667	01 16 13.41	+21 49 38.8		657
(2983)	1991 10 03.31118	01 02 48.25	+12 28 04.0		657
(3106)	1992 01 12.34375	08 45 49.30	+18 15 18.6		657
(3118)	1991 10 13.26875	00 12 13.64	+20 45 24.7		657
(3118)	1991 10 13.32153	00 12 11.02	+20 45 08.7		657
(3303)	1991 10 14.27448	01 22 48.60	+06 16 28.0		657
(3303)	1991 10 14.32656	01 22 46.05	+06 16 15.7		657
(3333)	1991 10 13.26042	00 14 15.61	+14 16 56.7		657
(3333)	1991 10 13.31319	00 14 13.55	+14 16 30.1		657
(3526)	1991 10 06.32726	02 33 41.71	+12 13 57.0		657
(3609)	1991 10 06.32726	02 36 34.18	+10 50 37.5		657
(3626)	1991 09 17.32472	23 45 05.82	+05 10 29.6		657
(3774)	1991 10 13.29792	00 30 58.07	+17 48 51.3		657
(3774)	1991 10 14.25017	00 30 14.44	+17 43 48.8		657
(3774)	1991 10 14.29948	00 30 12.20	+17 43 32.8		657
(3856)	1991 10 03.29676	00 51 50.10	+06 33 16.4		657
(3860)	1991 10 13.29792	00 24 11.72	+17 23 20.7		657
(3860)	1991 10 14.25017	00 23 27.47	+17 17 36.1		657
(3860)	1991 10 14.29948	00 23 25.11	+17 17 16.9		657
(3866)	1991 10 03.29660	00 49 40.03	+08 35 00.6		657
(3866)	1991 10 03.33826	00 49 38.18	+08 34 43.4		657
(3998)	1991 09 17.33444	23 42 59.80	-04 31 00.8		657
(4093)	1991 10 13.29792	00 28 19.83	+16 48 55.6		657
(4093)	1991 10 14.29948	00 27 36.56	+16 42 17.9		657
(4201)	1991 10 14.25851	00 59 42.67	+14 49 39.0		657

(4201)	1991 10 14.30712	00 59 40.46	+14 49 20.1			657
(4213)	1991 10 14.33420	01 26 08.51	+13 55 58.0			657
(4310)	1991 10 14.32656	01 19 32.74	+05 51 22.9			657
(4341)	1992 05 13.36979	16 22 37.25	+18 41 59.3			657
(4341)	1992 05 13.37139	16 22 36.87	+18 41 54.3			657
(4341)	1992 05 13.37396	16 22 36.18	+18 41 46.3			657
(4724)	1992 05 22.28028	15 03 44.55	-05 20 54.6			657
(4724)	1992 05 22.30111	15 03 43.32	-05 20 55.7			657
(4899)	1992 05 12.48201	18 52 43.88	+11 53 41.0			657
(4899)	1992 05 12.48374	18 52 43.95	+11 53 43.1			657
(4899)	1992 05 12.48568	18 52 44.01	+11 53 43.4			657
(5192)	1992 04 23.34775	14 23 26.84	+04 51 08.1			657
(5192)	1992 04 23.35201	14 23 26.65	+04 51 09.5			657
(5192)	1992 04 23.35458	14 23 26.50	+04 51 09.4			657
(5192)	1992 04 23.35675	14 23 26.40	+04 51 09.6			657
(5215)	1992 04 23.42740	15 43 04.88	+04 01 26.5			657
(5215)	1992 04 23.43419	15 43 04.63	+04 01 28.8			657
(5215)	1992 04 23.43683	15 43 04.52	+04 01 29.6			657
(5215)	1992 04 24.32843	15 42 30.86	+04 06 30.5			657
(5215)	1992 04 24.33155	15 42 30.74	+04 06 31.5			657
(5215)	1992 04 24.33519	15 42 30.59	+04 06 32.8			657
(5226)	1992 04 23.32575	13 54 11.04	+00 15 45.5			657
(5226)	1992 04 23.32832	13 54 10.85	+00 15 45.4			657
(5226)	1992 04 23.33205	13 54 10.69	+00 15 45.4			657

658 Dominion Astrophysical Observatory, Victoria
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, G. C. L. Aikman
1.85-m reflector + CCD
GSC

1986 RA	1992 05 04.39330	16 58 43.60	+06 06 43.0			658
1986 RA	1992 05 04.39619	16 58 43.59	+06 06 45.2			658
1986 RA	1992 05 04.39932	16 58 43.50	+06 06 48.9			658

675 Palomar
J. Gibson, OAO Corporation and Jet Propulsion Laboratory, MS 238-332, Pasadena, CA 91109, U.S.A. (1)
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E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. (6)
J. Mueller, Palomar Observatory, Palomar Mountain, CA 92060, U.S.A. (7)
9 = 3 + 6
Observers J. Alu (2, S), J. A. Brown (9, S), T. Gehrels (4, L), J. Gibson (1, C), E. Helin (2, S), H. E. Holt (9, S), C. T. Kowal (6, L), K. A. Lawler (9, S), K. Lawrence (2, S), G. J. Leonard (3, S), D. H. Levy (3, S), J. Mueller (7, L), P. Rose (2, S), C. S. Shoemaker (3, S), E. M. Shoemaker (3, S), J. Stiffler (9, S)
Measurers S. J. Bus (9), B. M. Cudnik (3), M. A. Dahm (9), J. Gibson (1), K. Lawrence (2), L. Lee (2), G. J. Leonard (9), P. Rose (2), C. S. Shoemaker (3), B. A. Skiff (7, 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, 1.6-m reflector + CCD (C)

1967 DA	1981 10 24.43576	03 01 31.73	+10 46 40.1	16.5 V	6	675
1967 DA	1981 10 25.43993	03 00 46.71	+10 42 10.7		6	675

1967	DA	1981	10	26.43438	03	00	01.20	+10	37	42.6	6	675
1971	FD	1971	04	16.18087	12	03	28.13	-01	06	38.9	20.0 4	675
1971	FD	1971	04	16.26458	12	03	25.04	-01	06	32.2	20.0 4	675
1971	RA	1981	10	24.48958	03	29	47.94	+12	31	00.6	16.0 V 6	675
1971	RA	1981	10	25.49166	03	28	48.58	+12	28	41.6	6	675
1971	UT1	1992	06	03.26632	15	19	55.38	-15	15	53.2	9	675
1971	UT1	1992	06	03.30208	15	19	53.88	-15	15	50.8	9	675
1971	UT1	1992	06	05.30694	15	18	31.60	-15	10	49.9	18.5 9	675
1971	UT1	1992	06	06.31476	15	17	51.59	-15	08	27.2	9	675
1972	RU3	1971	03	24.40486	12	33	35.92	+01	35	37.9	18.0 4	675
1978	CH	1992	06	03.26632	15	34	33.50	-10	38	28.9	9	675
1978	CH	1992	06	03.30208	15	34	32.10	-10	38	26.4	9	675
1978	CH	1992	06	05.30694	15	33	14.72	-10	36	26.3	17.5 9	675
1978	CH	1992	06	05.34358	15	33	13.38	-10	36	27.2	17.2 9	675
1978	CH	1992	06	06.31476	15	32	36.83	-10	35	32.6	9	675
1978	CH	1992	06	06.34601	15	32	35.61	-10	35	29.0	17.5 9	675
1978	RC9	1988	09	16.26719	22	56	25.27	-05	12	23.8	17.8 9	675
1978	RC9	1988	09	16.30347	22	56	23.15	-05	12	28.3	9	675
1978	SB3	1955	10	23.43542	04	39	30.09	+29	18	59.1	6	675
1978	SB3	1955	10	23.46111	04	39	29.52	+29	19	03.8	6	675
1978	VV9	1992	05	30.27639	15	17	04.61	-20	20	21.3	16.5 2	675
1978	VV9	1992	05	30.29913	15	17	03.51	-20	20	16.2	2	675
1978	VV9	1992	06	02.23090	15	15	04.65	-20	09	35.0	2	675
1978	VV9	1992	06	02.25191	15	15	03.91	-20	09	29.7	2	675
1979	OQ5	1991	09	13.42309	01	38	35.73	+17	05	44.4	18.2 9	675
1979	OQ5	1991	09	13.48073	01	38	34.03	+17	05	41.9	9	675
1979	SR	1951	08	07.28056	20	22	28.74	-04	25	50.9	6	675
1979	SR	1951	08	07.29965	20	22	28.00	-04	25	55.7	6	675
1979	SR	1951	09	22.14236	20	10	01.81	-08	45	50.7	6	675
1979	SR	1951	09	22.16181	20	10	02.19	-08	45	57.0	6	675
1979	SR	1955	05	22.28194	15	13	27.84	-11	51	43.2	6	675
1979	SR	1955	05	22.28958	15	13	27.37	-11	51	39.4	6	675
1980	LE1	1992	02	04.43733	10	13	39.51	-10	40	03.2	3	675
1980	LE1	1992	02	04.46944	10	13	38.10	-10	40	04.3	3	675
1980	LE1	1992	02	25.24983	09	55	54.40	-09	48	58.9	16.8 3	675
1980	LE1	1992	02	27.30469	09	54	06.74	-09	37	52.1	16.8 3	675
1980	LE1	1992	02	27.34358	09	54	04.60	-09	37	39.3	3	675
1980	LE1	1992	04	05.22917	09	35	29.58	-04	50	49.2	17.2 3	675
1980	LE1	1992	04	05.26372	09	35	29.56	-04	50	34.2	3	675
1980	LE1	1992	04	07.25711	09	35	35.49	-04	35	59.5	17.2 3	675
1981	EL4	1988	09	12.27066	22	34	28.71	-01	11	08.5	17.2 9	675
1981	EL4	1988	09	12.30625	22	34	27.03	-01	11	15.1	17.8 9	675
1981	EA5	1988	10	08.36111	03	07	00.83	+26	54	05.9	7	675
1981	EA5	1988	10	08.38889	03	07	00.21	+26	54	02.9	7	675
1981	EV8	1992	06	03.26632	15	36	09.45	-14	18	29.8	9	675
1981	EV8	1992	06	05.34358	15	34	14.41	-14	08	04.3	19.0 9	675
1981	EN17	1951	11	29.14097	23	43	20.93	-00	58	35.4	6	675
1981	EN17	1951	11	29.16667	23	43	22.59	-00	58	29.0	6	675
1981	EN17	1992	06	03.26632	15	31	33.55	-15	06	42.0	9	675
1981	EN17	1992	06	03.30208	15	31	31.55	-15	06	34.2	9	675
1981	EN17	1992	06	05.30694	15	29	43.27	-14	57	49.9	18.2 9	675
1981	EN17	1992	06	05.34358	15	29	41.28	-14	57	41.1	18.0 9	675
1981	EY30	1971	03	24.40486	12	30	14.78	-00	01	35.2	19.0 4	675
1981	QT	1988	09	10.30742	22	41	05.90	-05	59	38.3	9	675
1981	QT	1988	09	10.34444	22	41	03.85	-05	59	48.6	16.1 9	675
1981	TJ	1990	09	16.18038	21	30	52.31	-07	42	06.2	17.8 9	675
1981	TJ	1990	09	16.22465	21	30	51.06	-07	42	17.4	9	675
1981	TK	1986	01	12.38542	09	14	50.08	+59	39	32.8	18 3	675
1981	TK	1986	01	12.46753	09	14	39.83	+59	39	47.0	3	675

1981 TJ3		1981	10	25.38299	02	43	01.90	+10	56	40.2	15.0 V	6 675
1981 TJ3		1981	10	26.37674	02	42	16.78	+10	53	13.0		6 675
1981 UU11		1981	10	25.38299	02	32	36.33	+10	31	27.7	15.8 V	6 675
1981 UU11		1981	10	26.37674	02	31	50.44	+10	23	17.6		6 675
1981 UW11		1981	10	25.38299	02	35	20.63	+09	36	03.3	15.8 V	6 675
1981 UW11		1981	10	26.37674	02	34	25.51	+09	32	49.6		6 675
1981 US14		1981	10	25.38299	02	44	57.78	+12	35	36.1	15.8 V	6 675
1981 US14		1981	10	26.37674	02	44	01.26	+12	32	21.9		6 675
1981 UK21	*	1981	10	24.43576	02	57	20.65	+13	30	45.3	17.0 V	6 675
1981 UK21		1981	10	25.43993	02	56	36.13	+13	27	40.5		6 675
1981 UK21		1981	10	26.43438	02	55	51.42	+13	24	34.6		6 675
1981 UL21	*	1981	10	24.43576	02	57	44.67	+12	27	44.9	17.8 V	6 675
1981 UL21		1981	10	25.43993	02	57	01.25	+12	20	53.9		6 675
1981 UL21		1981	10	26.43438	02	56	17.66	+12	14	04.3		6 675
1981 UM21	*	1981	10	24.43576	02	58	18.50	+08	43	51.0	16.2 V	6 675
1981 UM21		1981	10	25.43993	02	57	19.81	+08	37	14.3		6 675
1981 UM21		1981	10	26.43438	02	56	20.98	+08	30	43.6		6 675
1981 UN21	*	1981	10	24.43576	02	58	39.95	+10	26	00.8	16.5 V	6 675
1981 UN21		1981	10	25.43993	02	57	41.14	+10	25	46.5		6 675
1981 UN21		1981	10	26.43438	02	56	41.47	+10	25	32.0		6 675
1981 UO21	*	1981	10	24.43576	02	59	02.05	+09	24	08.3	18.8 V	6 675
1981 UO21		1981	10	25.43993	02	58	26.84	+09	21	22.4		6 675
1981 UO21		1981	10	26.43438	02	57	51.58	+09	18	37.3		6 675
1981 UP21	*	1981	10	24.43576	02	59	33.79	+11	33	17.9	17.5 V	6 675
1981 UP21		1981	10	25.43993	02	58	00.67	+11	47	21.9		6 675
1981 UP21		1981	10	26.43438	02	56	26.67	+12	01	24.9		6 675
1981 UQ21	*	1981	10	24.43576	02	59	38.45	+08	36	41.0	17.5 V	6 675
1981 UQ21		1981	10	25.43993	02	58	46.22	+08	30	16.9		6 675
1981 UQ21		1981	10	26.43438	02	57	53.48	+08	24	00.6		6 675
1981 UR21	*	1981	10	24.43576	03	00	38.37	+11	40	43.3	16.8 V	6 675
1981 UR21		1981	10	25.43993	02	59	29.48	+11	45	03.7		6 675
1981 UR21		1981	10	26.43438	02	58	20.26	+11	49	22.6		6 675
1981 US21	*	1981	10	24.43576	03	01	09.76	+11	32	24.6	17.2 V	6 675
1981 US21		1981	10	25.43993	03	00	26.86	+11	11	44.1		6 675
1981 US21		1981	10	26.43438	02	59	43.21	+10	51	03.7		6 675
1981 UT21	*	1981	10	24.43576	03	02	11.07	+10	28	01.9	16.5 V	6 675
1981 UT21		1981	10	25.43993	03	01	22.63	+10	18	45.8		6 675
1981 UT21		1981	10	26.43438	03	00	33.47	+10	09	32.5		6 675
1981 UU21	*	1981	10	24.43576	03	02	11.44	+12	37	12.3	16.0 V	6 675
1981 UU21		1981	10	25.43993	03	01	13.14	+12	37	14.3		6 675
1981 UU21		1981	10	26.43438	03	00	14.53	+12	37	16.2		6 675
1981 UV21	*	1981	10	24.43576	03	02	22.89	+12	43	56.8	16.0 V	6 675
1981 UV21		1981	10	25.43993	03	01	28.04	+12	40	24.8		6 675
1981 UV21		1981	10	26.43438	03	00	32.39	+12	36	53.4		6 675
1981 UW21	*	1981	10	24.43576	03	02	52.74	+08	19	42.9	16.0 V	6 675
1981 UW21		1981	10	25.43993	03	02	05.23	+08	15	30.1		6 675
1981 UW21		1981	10	26.43438	03	01	17.26	+08	11	21.7		6 675
1981 UX21	*	1981	10	24.43576	03	04	14.66	+13	48	17.8	16.0 V	6 675
1981 UX21		1981	10	25.43993	03	03	18.11	+13	45	37.2		6 675
1981 UX21		1981	10	26.43438	03	02	21.36	+13	42	57.1		6 675
1981 UY21	*	1981	10	24.43576	03	04	20.68	+08	41	45.7	15.8 V	6 675
1981 UY21		1981	10	25.43993	03	03	25.55	+08	38	51.9		6 675
1981 UY21		1981	10	26.43438	03	02	29.64	+08	36	04.1		6 675
1981 UZ21	*	1981	10	24.43576	03	04	36.11	+12	03	55.4	18.0 V	6 675
1981 UZ21		1981	10	25.43993	03	03	42.39	+12	00	14.8		6 675
1981 UZ21		1981	10	26.43438	03	02	47.94	+11	56	34.4		6 675
1981 UA22	*	1981	10	24.43576	03	05	52.54	+09	49	36.7	17.0 V	6 675
1981 UA22		1981	10	25.43993	03	04	54.19	+09	47	46.6		6 675
1981 UA22		1981	10	26.43438	03	03	55.38	+09	45	58.2		6 675

1981 UB22	*	1981	10	24.43576	03	06	15.95	+09	04	42.6	16.2 V	6 675
1981 UB22		1981	10	25.43993	03	05	24.01	+08	56	20.3		6 675
1981 UB22		1981	10	26.43438	03	04	31.53	+08	48	04.8		6 675
1981 UC22	*	1981	10	24.43576	03	06	17.16	+08	07	35.7	18.0 V	6 675
1981 UC22		1981	10	25.43993	03	05	25.75	+08	01	44.1		6 675
1981 UC22		1981	10	26.43438	03	04	33.79	+07	55	57.9		6 675
1981 UD22	*	1981	10	24.43576	03	07	11.77	+07	52	00.6	16.2 V	6 675
1981 UD22		1981	10	25.43993	03	06	19.90	+07	44	59.9		6 675
1981 UD22		1981	10	26.43438	03	05	27.50	+07	38	05.8		6 675
1981 UE22	*	1981	10	24.43576	03	09	45.25	+11	14	12.8	17.5 V	6 675
1981 UE22		1981	10	25.43993	03	08	44.89	+11	10	28.5		6 675
1981 UE22		1981	10	26.43438	03	07	44.18	+11	06	46.4		6 675
1981 UF22	*	1981	10	24.43576	03	11	20.84	+11	24	16.8	17.2 V	6 675
1981 UF22		1981	10	25.43993	03	10	28.29	+11	20	09.4		6 675
1981 UF22		1981	10	26.43438	03	09	35.20	+11	16	04.0		6 675
1981 UG22	*	1981	10	24.43576	03	11	37.71	+08	42	32.5	18.0 V	6 675
1981 UG22		1981	10	25.43993	03	10	53.53	+08	40	13.3		6 675
1981 UG22		1981	10	26.43438	03	10	09.01	+08	37	57.2		6 675
1981 UH22	*	1981	10	24.43576	03	12	32.55	+12	46	33.4	17.5 V	6 675
1981 UH22		1981	10	25.43993	03	11	40.98	+12	40	50.4		6 675
1981 UH22		1981	10	26.43438	03	10	48.79	+12	35	08.0		6 675
1981 UJ22	*	1981	10	24.43576	03	13	09.33	+12	23	19.0	18.2 V	6 675
1981 UJ22		1981	10	25.43993	03	12	27.39	+12	22	23.0		6 675
1981 UJ22		1981	10	26.43438	03	11	44.60	+12	21	27.7		6 675
1981 UK22	*	1981	10	24.43576	03	13	36.40	+12	50	30.9	15.8 V	6 675
1981 UK22		1981	10	25.43993	03	12	49.70	+12	38	38.9		6 675
1981 UK22		1981	10	26.43438	03	12	02.35	+12	26	51.5		6 675
1981 UL22	*	1981	10	24.43576	03	14	07.71	+12	51	47.0	18.5 V	6 675
1981 UL22		1981	10	25.43993	03	13	10.20	+12	47	35.3		6 675
1981 UL22		1981	10	26.43438	03	12	12.37	+12	43	25.5		6 675
1981 UM22	*	1981	10	24.43576	03	14	16.27	+12	58	17.9	16.0 V	6 675
1981 UM22		1981	10	25.43993	03	13	34.68	+12	54	36.9		6 675
1981 UM22		1981	10	26.43438	03	12	52.75	+12	50	56.0		6 675
1981 UN22	*	1981	10	24.43576	03	14	54.62	+13	24	51.6	18.0 V	6 675
1981 UN22		1981	10	25.43993	03	14	00.15	+13	20	50.4		6 675
1981 UN22		1981	10	26.43438	03	13	04.81	+13	16	47.9		6 675
1981 UO22	*	1981	10	24.43576	03	15	05.37	+12	33	42.1	17.8 V	6 675
1981 UO22		1981	10	25.43993	03	14	24.05	+12	27	34.0		6 675
1981 UO22		1981	10	26.43438	03	13	42.19	+12	21	26.4		6 675
1981 UP22	*	1981	10	24.43576	03	15	38.75	+12	17	58.0	17.0 V	6 675
1981 UP22		1981	10	25.43993	03	14	36.35	+12	21	33.8		6 675
1981 UP22		1981	10	26.43438	03	13	33.26	+12	25	07.7		6 675
1981 UQ22	*	1981	10	24.43576	03	17	05.45	+11	51	12.1	18.0 V	6 675
1981 UQ22		1981	10	25.43993	03	16	11.63	+11	46	46.5		6 675
1981 UQ22		1981	10	26.43438	03	15	17.26	+11	42	22.5		6 675
1981 UR22	*	1981	10	24.43576	03	17	17.24	+11	33	31.5	16.2 V	6 675
1981 UR22		1981	10	25.43993	03	16	34.64	+11	29	21.3		6 675
1981 UR22		1981	10	26.43438	03	15	50.96	+11	25	13.4		6 675
1981 US22	*	1981	10	24.43576	03	17	21.34	+10	28	54.9	16.2 V	6 675
1981 US22		1981	10	25.43993	03	16	25.59	+10	28	09.5		6 675
1981 US22		1981	10	26.43438	03	15	28.95	+10	27	25.8		6 675
1981 UT22	*	1981	10	24.43576	03	18	16.15	+12	40	41.8	18.2 V	6 675
1981 UT22		1981	10	25.43993	03	17	37.02	+12	34	38.2		6 675
1981 UT22		1981	10	26.43438	03	16	57.41	+12	28	36.0		6 675
1981 UU22	*	1981	10	24.43576	03	18	28.99	+10	32	54.0	17.5 V	6 675
1981 UU22		1981	10	25.43993	03	17	44.16	+10	31	23.3		6 675
1981 UU22		1981	10	26.43438	03	16	59.15	+10	29	54.0		6 675
1981 UV22	*	1981	10	24.43576	03	18	34.10	+12	09	31.1	17.5 V	6 675
1981 UV22		1981	10	26.43438	03	17	07.89	+11	40	57.0		6 675

1981 UW22	*	1981	10	24.43576	03	18	54.60	+08	28	25.5	17.8 V	6 675
1981 UW22		1981	10	25.43993	03	17	52.94	+08	24	56.5		6 675
1981 UW22		1981	10	26.43438	03	16	50.72	+08	21	32.8		6 675
1981 UX22	*	1981	10	24.43576	03	18	54.67	+11	59	13.6	17.8 V	6 675
1981 UX22		1981	10	25.43993	03	18	06.24	+11	59	00.4		6 675
1981 UX22		1981	10	26.43438	03	17	17.27	+11	58	47.3		6 675
1981 UY22	*	1981	10	24.43576	03	18	58.95	+13	28	11.8	17.8 V	6 675
1981 UY22		1981	10	24.48958	03	18	56.34	+13	27	48.1		6 675
1981 UY22		1981	10	25.43993	03	18	11.09	+13	20	44.8		6 675
1981 UY22		1981	10	25.49166	03	18	08.60	+13	20	23.7		6 675
1981 UY22		1981	10	26.43438	03	17	23.02	+13	13	21.7		6 675
1981 UZ22	*	1981	10	24.43576	03	19	15.22	+10	03	12.5	17.5 V	6 675
1981 UZ22		1981	10	25.43993	03	18	35.13	+09	58	41.6		6 675
1981 UZ22		1981	10	26.43438	03	17	54.53	+09	54	12.3		6 675
1981 UA23	*	1981	10	24.43576	03	20	09.24	+13	21	11.9	17.2 V	6 675
1981 UA23		1981	10	24.48958	03	20	06.68	+13	21	04.0		6 675
1981 UA23		1981	10	25.43993	03	19	22.71	+13	18	38.7		6 675
1981 UA23		1981	10	25.49166	03	19	20.19	+13	18	31.3		6 675
1981 UA23		1981	10	26.43438	03	18	35.03	+13	16	05.5		6 675
1981 UB23	*	1981	10	24.43576	03	20	14.21	+12	39	21.9	16.0 V	6 675
1981 UB23		1981	10	24.48958	03	20	11.85	+12	39	09.6		6 675
1981 UB23		1981	10	25.43993	03	19	31.36	+12	35	42.4		6 675
1981 UB23		1981	10	25.49166	03	19	29.03	+12	35	30.5		6 675
1981 UB23		1981	10	26.43438	03	18	47.67	+12	32	04.1		6 675
1981 UC23	*	1981	10	24.43576	03	20	27.28	+13	43	35.5	18.5 V	6 675
1981 UC23		1981	10	24.48958	03	20	25.02	+13	43	18.4		6 675
1981 UC23		1981	10	25.43993	03	19	47.50	+13	38	11.1		6 675
1981 UC23		1981	10	25.49166	03	19	45.54	+13	37	55.8		6 675
1981 UC23		1981	10	26.43438	03	19	07.71	+13	32	50.0		6 675
1981 UD23	*	1981	10	24.48958	03	20	38.05	+14	53	17.4	16.8 V	6 675
1981 UD23		1981	10	25.49166	03	19	45.92	+14	51	01.8		6 675
1981 UE23	*	1981	10	24.48958	03	23	21.46	+15	27	29.1	17.0 V	6 675
1981 UE23		1981	10	25.49166	03	22	29.34	+15	30	03.8		6 675
1981 UF23	*	1981	10	24.48958	03	23	43.38	+14	36	08.6	17.0 V	6 675
1981 UF23		1981	10	25.49166	03	22	32.01	+14	41	01.8		6 675
1981 UG23	*	1981	10	24.48958	03	23	58.80	+14	23	39.9	17.5 V	6 675
1981 UG23		1981	10	25.49166	03	23	20.15	+14	17	00.0		6 675
1981 UH23	*	1981	10	24.48958	03	24	02.14	+15	39	26.8	17.5 V	6 675
1981 UH23		1981	10	25.49166	03	23	19.30	+15	36	35.7		6 675
1981 UJ23	*	1981	10	24.48958	03	25	04.82	+12	16	48.5	17.8 V	6 675
1981 UJ23		1981	10	25.49166	03	24	18.75	+12	15	48.4		6 675
1981 UK23	*	1981	10	24.48958	03	25	25.07	+12	25	50.5	16.2 V	6 675
1981 UK23		1981	10	25.49166	03	24	42.85	+12	23	45.4		6 675
1981 UL23	*	1981	10	24.48958	03	26	23.86	+14	03	12.0	18.2 V	6 675
1981 UL23		1981	10	25.49166	03	25	40.96	+13	59	46.6		6 675
1981 UM23	*	1981	10	24.48958	03	26	41.86	+12	27	48.8	16.5 V	6 675
1981 UM23		1981	10	25.49166	03	26	03.59	+12	26	31.0		6 675
1981 UN23	*	1981	10	24.48958	03	27	10.93	+11	41	18.4	18.2 V	6 675
1981 UN23		1981	10	25.49166	03	26	11.89	+11	38	15.8		6 675
1981 UO23	*	1981	10	24.48958	03	27	26.65	+13	40	30.4	18.5 V	6 675
1981 UO23		1981	10	25.49166	03	26	39.63	+13	39	17.3		6 675
1981 UP23	*	1981	10	24.48958	03	27	35.07	+10	28	09.4	16.5 V	6 675
1981 UP23		1981	10	25.49166	03	26	53.94	+10	25	40.2		6 675
1981 UQ23	*	1981	10	24.48958	03	27	49.45	+13	11	00.7	17.5 V	6 675
1981 UQ23		1981	10	25.49166	03	26	50.08	+13	06	53.9		6 675
1981 UR23	*	1981	10	24.48958	03	28	05.67	+12	50	12.9	18.2 V	6 675
1981 UR23		1981	10	25.49166	03	27	21.92	+12	48	57.4		6 675
1981 US23	*	1981	10	24.48958	03	28	09.40	+13	14	30.6	18.5 V	6 675
1981 US23		1981	10	25.49166	03	27	25.78	+13	09	31.8		6 675

1981 UT23	*	1981	10	24.48958	03	28	30.39	+13	41	58.0	18.5 V	6 675
1981 UT23		1981	10	25.49166	03	27	42.77	+13	37	16.7		6 675
1981 UU23	*	1981	10	24.48958	03	28	58.21	+12	59	09.2	17.2 V	6 675
1981 UU23		1981	10	25.49166	03	28	13.62	+12	53	19.4		6 675
1981 UV23	*	1981	10	24.48958	03	29	38.51	+14	36	11.4	15.0 V	6 675
1981 UV23		1981	10	25.49166	03	28	49.33	+14	38	38.6		6 675
1981 UW23	*	1981	10	24.48958	03	29	56.11	+11	41	28.7	15.8 V	6 675
1981 UW23		1981	10	25.49166	03	28	57.24	+11	44	14.4		6 675
1981 UX23	*	1981	10	24.48958	03	31	27.54	+15	15	37.0	17.5 V	6 675
1981 UX23		1981	10	25.49166	03	30	43.43	+15	14	49.0		6 675
1981 UY23	*	1981	10	24.48958	03	32	20.14	+10	45	34.3	17.8 V	6 675
1981 UY23		1981	10	25.49166	03	31	27.37	+10	45	20.1		6 675
1981 UZ23	*	1981	10	24.48958	03	32	42.30	+10	12	57.5	18.8 V	6 675
1981 UZ23		1981	10	25.49166	03	31	47.41	+10	14	50.4		6 675
1981 UA24	*	1981	10	24.48958	03	32	50.96	+10	57	43.5	18.0 V	6 675
1981 UA24		1981	10	25.49166	03	32	00.89	+10	56	12.1		6 675
1981 UB24	*	1981	10	24.48958	03	33	12.97	+14	41	16.5	18.0 V	6 675
1981 UB24		1981	10	25.49166	03	32	30.00	+14	38	21.6		6 675
1981 UC24	*	1981	10	24.48958	03	33	18.71	+14	13	08.8	17.8 V	6 675
1981 UC24		1981	10	25.49166	03	32	39.00	+14	07	25.0		6 675
1981 UD24	*	1981	10	24.48958	03	34	11.48	+11	54	38.7	17.8 V	6 675
1981 UD24		1981	10	25.49166	03	33	27.47	+11	50	53.3		6 675
1981 UE24	*	1981	10	24.48958	03	34	22.77	+12	36	39.2	18.0 V	6 675
1981 UE24		1981	10	25.49166	03	33	32.27	+12	32	54.3		6 675
1981 UF24	*	1981	10	24.48958	03	34	25.89	+14	28	30.6	18.0 V	6 675
1981 UF24		1981	10	25.49166	03	33	44.55	+14	25	27.4		6 675
1981 UG24	*	1981	10	24.48958	03	34	45.09	+15	32	32.5	18.0 V	6 675
1981 UG24		1981	10	25.49166	03	34	00.30	+15	31	16.0		6 675
1981 UH24	*	1981	10	24.48958	03	35	22.51	+10	30	53.7	17.5 V	6 675
1981 UH24		1981	10	25.49166	03	34	36.31	+10	26	43.0		6 675
1981 UJ24	*	1981	10	24.48958	03	36	14.95	+12	38	24.3	17.0 V	6 675
1981 UJ24		1981	10	25.49166	03	35	23.27	+12	36	18.9		6 675
1981 UK24	*	1981	10	24.48958	03	37	26.92	+10	16	20.2	17.8 V	6 675
1981 UK24		1981	10	25.49166	03	36	47.54	+10	10	00.9		6 675
1981 UL24	*	1981	10	24.48958	03	37	30.00	+11	27	22.3	17.2 V	6 675
1981 UL24		1981	10	25.49166	03	36	35.20	+11	23	56.6		6 675
1981 UM24	*	1981	10	24.48958	03	38	05.99	+11	26	50.6	18.0 V	6 675
1981 UM24		1981	10	25.49166	03	37	23.21	+11	17	41.4		6 675
1981 UN24	*	1981	10	24.48958	03	38	07.80	+09	52	09.4	17.5 V	6 675
1981 UN24		1981	10	25.49166	03	37	22.49	+09	51	14.1		6 675
1981 UO24	*	1981	10	24.48958	03	38	55.10	+15	02	10.6	17.8 V	6 675
1981 UO24		1981	10	25.49166	03	38	08.61	+15	01	20.4		6 675
1981 UP24	*	1981	10	24.48958	03	40	12.09	+14	12	13.6	17.2 V	6 675
1981 UP24		1981	10	25.49166	03	39	34.20	+14	10	14.3		6 675
1981 UQ24	*	1981	10	24.48958	03	40	18.52	+11	27	14.9	17.5 V	6 675
1981 UQ24		1981	10	25.49166	03	40	03.66	+11	20	43.1		6 675
1981 UR24	*	1981	10	24.48958	03	40	42.45	+14	16	51.9	17.5 V	6 675
1981 UR24		1981	10	25.49166	03	40	05.25	+14	09	52.9		6 675
1981 US24	*	1981	10	24.48958	03	41	10.24	+13	37	15.2	18.5 V	6 675
1981 US24		1981	10	25.49166	03	40	22.71	+13	32	48.3		6 675
1981 UT24	*	1981	10	24.48958	03	41	14.65	+13	49	09.0	18.0 V	6 675
1981 UT24		1981	10	25.49166	03	40	33.18	+13	48	43.3		6 675
1981 UU24	*	1981	10	24.48958	03	41	21.07	+13	46	53.1	18.0 V	6 675
1981 UU24		1981	10	25.49166	03	40	40.08	+13	39	53.8		6 675
1981 UV24	*	1981	10	24.48958	03	41	48.24	+15	56	43.2	18.5 V	6 675
1981 UV24		1981	10	25.49166	03	41	12.36	+15	54	31.2		6 675
1981 UW24	*	1981	10	24.48958	03	43	08.06	+12	51	16.5	16.2 V	6 675
1981 UW24		1981	10	25.49166	03	42	25.97	+12	42	07.9		6 675
1981 UX24	*	1981	10	25.38299	02	32	04.77	+12	33	01.1	16.5 V	6 675

1981 UX24		1981	10	26.37674	02	31	16.04	+12	28	45.2	6	675
1981 UY24	*	1981	10	25.38299	02	32	41.86	+09	17	56.6	17.5 V	6 675
1981 UY24		1981	10	26.37674	02	31	45.96	+09	12	49.7	6	675
1981 UZ24	*	1981	10	25.38299	02	33	31.34	+12	31	24.0	16.8 V	6 675
1981 UZ24		1981	10	26.37674	02	32	23.11	+12	30	44.4	6	675
1981 UA25	*	1981	10	25.38299	02	33	48.90	+11	26	19.7	17.5 V	6 675
1981 UA25		1981	10	26.37674	02	33	00.76	+11	21	08.4	6	675
1981 UB25	*	1981	10	25.38299	02	35	15.45	+09	27	41.4	18.0 V	6 675
1981 UB25		1981	10	26.37674	02	34	27.50	+09	20	21.9	6	675
1981 UC25	*	1981	10	25.38299	02	35	34.37	+12	48	41.6	17.5 V	6 675
1981 UC25		1981	10	26.37674	02	34	39.88	+12	45	48.3	6	675
1981 UD25	*	1981	10	25.38299	02	35	42.34	+07	54	11.1	15.8 V	6 675
1981 UD25		1981	10	26.37674	02	36	04.36	+08	13	15.1	6	675
1981 UE25	*	1981	10	25.38299	02	35	43.45	+11	44	07.1	17.0 V	6 675
1981 UE25		1981	10	26.37674	02	34	54.79	+11	40	17.2	6	675
1981 UF25	*	1981	10	25.38299	02	35	45.56	+12	56	36.7	17.5 V	6 675
1981 UF25		1981	10	26.37674	02	34	38.31	+12	58	25.1	6	675
1981 UG25	*	1981	10	25.38299	02	35	45.92	+10	44	26.0	17.8 V	6 675
1981 UG25		1981	10	26.37674	02	34	47.66	+10	41	39.9	6	675
1981 UH25	*	1981	10	25.38299	02	36	06.70	+10	47	43.2	17.5 V	6 675
1981 UH25		1981	10	26.37674	02	35	18.12	+10	43	20.1	6	675
1981 UJ25	*	1981	10	25.38299	02	36	58.26	+13	09	27.6	17.0 V	6 675
1981 UJ25		1981	10	26.37674	02	35	55.52	+13	10	35.0	6	675
1981 UK25	*	1981	10	25.38299	02	37	09.21	+12	23	05.9	17.0 V	6 675
1981 UK25		1981	10	26.37674	02	36	07.34	+12	20	09.5	6	675
1981 UL25	*	1981	10	25.38299	02	38	06.49	+12	18	08.8	16.5 V	6 675
1981 UL25		1981	10	26.37674	02	37	01.22	+12	17	43.6	6	675
1981 UM25	*	1981	10	25.38299	02	38	54.54	+13	10	30.6	17.5 V	6 675
1981 UM25		1981	10	26.37674	02	37	51.17	+13	08	34.6	6	675
1981 UN25	*	1981	10	25.38299	02	40	04.79	+08	20	56.4	17.5 V	6 675
1981 UN25		1981	10	26.37674	02	39	03.50	+08	19	22.2	6	675
1981 UO25	*	1981	10	25.38299	02	40	41.98	+09	13	19.6	16.0 V	6 675
1981 UO25		1981	10	26.37674	02	39	39.35	+09	08	41.1	6	675
1981 UP25	*	1981	10	25.38299	02	40	52.06	+12	09	32.1	17.0 V	6 675
1981 UP25		1981	10	26.37674	02	40	00.53	+12	03	15.4	6	675
1981 UQ25	*	1981	10	25.38299	02	41	40.46	+11	33	54.6	17.5 V	6 675
1981 UQ25		1981	10	26.37674	02	41	00.27	+11	26	33.4	6	675
1981 UR25	*	1981	10	25.38299	02	42	20.87	+13	04	10.1	16.8 V	6 675
1981 UR25		1981	10	26.37674	02	41	18.26	+13	02	23.9	6	675
1981 US25	*	1981	10	25.38299	02	42	44.83	+10	17	29.1	16.0 V	6 675
1981 US25		1981	10	26.37674	02	41	53.49	+10	06	25.4	6	675
1981 UT25	*	1981	10	25.38299	02	43	04.03	+08	09	25.8	17.8 V	6 675
1981 UT25		1981	10	26.37674	02	42	09.26	+08	14	16.3	6	675
1981 UU25	*	1981	10	25.38299	02	43	23.86	+12	13	50.6	17.8 V	6 675
1981 UU25		1981	10	26.37674	02	42	29.33	+12	13	29.7	6	675
1981 UV25	*	1981	10	25.38299	02	43	38.70	+07	44	41.8	17.0 V	6 675
1981 UV25		1981	10	26.37674	02	42	37.77	+07	46	14.3	6	675
1981 UW25	*	1981	10	25.38299	02	43	41.18	+10	11	46.2	16.5 V	6 675
1981 UW25		1981	10	26.37674	02	42	47.38	+10	09	06.6	6	675
1981 UX25	*	1981	10	25.38299	02	43	49.84	+07	46	43.5	17.5 V	6 675
1981 UX25		1981	10	26.37674	02	43	06.50	+07	40	24.4	6	675
1981 UY25	*	1981	10	25.38299	02	44	26.30	+11	24	58.5	17.5 V	6 675
1981 UY25		1981	10	26.37674	02	43	20.18	+11	25	26.3	6	675
1981 UZ25	*	1981	10	25.38299	02	44	27.07	+12	38	24.8	17.8 V	6 675
1981 UZ25		1981	10	26.37674	02	42	49.95	+12	46	07.8	6	675
1981 UA26	*	1981	10	25.38299	02	44	42.44	+12	37	13.3	17.2 V	6 675
1981 UA26		1981	10	26.37674	02	43	53.99	+12	32	52.1	6	675
1981 UB26	*	1981	10	25.38299	02	44	54.08	+11	17	32.8	17.8 V	6 675
1981 UB26		1981	10	26.37674	02	44	05.92	+11	11	35.4	6	675

1981 UC26	*	1981	10	25.38299	02	45	18.53	+10	35	25.9	16.8 V	6 675
1981 UC26		1981	10	26.37674	02	44	32.77	+10	30	44.0		6 675
1981 UD26	*	1981	10	25.38299	02	45	25.28	+08	03	35.9	17.0 V	6 675
1981 UD26		1981	10	26.37674	02	44	44.09	+07	34	06.6		6 675
1981 UE26	*	1981	10	25.38299	02	45	25.62	+11	23	41.1	16.0 V	6 675
1981 UE26		1981	10	26.37674	02	44	36.48	+11	20	10.3		6 675
1981 UF26	*	1981	10	25.38299	02	45	42.30	+13	08	31.4	17.5 V	6 675
1981 UF26		1981	10	26.37674	02	44	42.21	+13	04	42.2		6 675
1981 UG26	*	1981	10	25.38299	02	46	10.94	+11	52	00.4	17.5 V	6 675
1981 UG26		1981	10	26.37674	02	45	19.43	+11	44	39.0		6 675
1981 UH26	*	1981	10	25.38299	02	46	41.46	+11	31	09.3	18.0 V	6 675
1981 UH26		1981	10	26.37674	02	45	06.86	+11	42	40.9		6 675
1981 UJ26	*	1981	10	25.38299	02	46	43.33	+08	20	50.5	16.8 V	6 675
1981 UJ26		1981	10	26.37674	02	45	41.34	+08	22	07.1		6 675
1981 UK26	*	1981	10	25.38299	02	47	26.88	+13	21	16.8	17.5 V	6 675
1981 UK26		1981	10	26.37674	02	46	33.25	+13	21	07.5		6 675
1981 UL26	*	1981	10	25.38299	02	47	34.61	+11	25	51.9	17.5 V	6 675
1981 UL26		1981	10	26.37674	02	46	43.11	+11	20	07.0		6 675
1981 UM26	*	1981	10	25.38299	02	48	10.86	+12	59	30.1	17.0 V	6 675
1981 UM26		1981	10	26.37674	02	47	21.45	+12	55	49.0		6 675
1981 UN26	*	1981	10	25.38299	02	48	49.44	+10	14	17.3	17.5 V	6 675
1981 UN26		1981	10	26.37674	02	47	47.29	+10	13	11.1		6 675
1981 UO26	*	1981	10	25.38299	02	48	59.67	+08	21	34.3	17.0 V	6 675
1981 UO26		1981	10	26.37674	02	48	13.28	+08	13	31.3		6 675
1981 UP26	*	1981	10	25.38299	02	49	00.33	+09	19	58.5	16.0 V	6 675
1981 UP26		1981	10	26.37674	02	48	10.04	+09	08	47.4		6 675
1981 UQ26	*	1981	10	25.38299	02	49	00.73	+08	58	33.4	16.5 V	6 675
1981 UQ26		1981	10	26.37674	02	48	10.58	+08	51	06.6		6 675
1981 UR26	*	1981	10	25.38299	02	49	25.94	+09	42	02.3	16.5 V	6 675
1981 UR26		1981	10	26.37674	02	48	43.31	+09	33	28.9		6 675
1981 US26	*	1981	10	25.38299	02	50	03.61	+11	14	24.1	17.0 V	6 675
1981 US26		1981	10	26.37674	02	49	06.65	+11	14	47.9		6 675
1981 UT26	*	1981	10	25.38299	02	50	13.90	+08	55	09.6	17.5 V	6 675
1981 UT26		1981	10	26.37674	02	49	21.35	+08	54	32.3		6 675
1981 UU26	*	1981	10	25.38299	02	51	02.77	+11	04	35.8	18.0 V	6 675
1981 UU26		1981	10	26.37674	02	50	07.61	+10	57	07.4		6 675
1981 UV26	*	1981	10	25.38299	02	51	34.78	+12	51	51.7	16.8 V	6 675
1981 UV26		1981	10	26.37674	02	50	40.23	+12	49	35.9		6 675
1981 UW26	*	1981	10	25.38299	02	52	50.46	+10	07	50.4	17.0 V	6 675
1981 UW26		1981	10	26.37674	02	52	08.91	+10	01	27.4		6 675
1981 UX26	*	1981	10	25.38299	02	53	11.83	+11	11	37.2	16.8 V	6 675
1981 UX26		1981	10	26.37674	02	52	14.30	+11	09	18.5		6 675
1981 UY26	*	1981	10	25.38299	02	53	28.67	+08	18	52.5	15.5 V	6 675
1981 UY26		1981	10	26.37674	02	52	34.79	+08	15	36.3		6 675
1981 UZ26	*	1981	10	25.38299	02	53	48.19	+09	12	42.8	18.5 V	6 675
1981 UZ26		1981	10	26.37674	02	53	06.10	+08	48	26.3		6 675
1981 UA27	*	1981	10	25.38299	02	53	55.04	+11	55	47.5	16.5 V	6 675
1981 UA27		1981	10	26.37674	02	53	05.75	+11	50	19.7		6 675
1981 UB27	*	1981	10	25.38299	02	54	19.07	+10	08	18.3	16.5 V	6 675
1981 UB27		1981	10	26.37674	02	53	30.71	+10	06	03.8		6 675
1981 UC27		1981	10	24.43576	02	55	50.66	+12	28	09.0	17.0 V	6 675
1981 UC27	*	1981	10	25.38299	02	55	06.31	+12	20	37.5	17.0 V	6 675
1981 UC27		1981	10	26.37674	02	54	18.85	+12	12	42.0		6 675
1981 UD27		1981	10	24.43576	02	56	21.65	+12	44	13.6	19.0 V	6 675
1981 UD27	*	1981	10	25.38299	02	55	47.30	+12	41	31.3	18.8 V	6 675
1981 UD27		1981	10	26.37674	02	55	10.72	+12	38	41.3		6 675
1981 UE27		1981	10	24.43576	02	56	45.26	+12	04	20.2	17.5 V	6 675
1981 UE27	*	1981	10	25.38299	02	55	58.03	+11	59	34.2	17.5 V	6 675
1981 UE27		1981	10	25.43993	02	55	54.95	+11	59	17.0		6 675

1981 UE27		1981	10	26.37674	02	55	07.31	+11	54	33.8		6 675
1981 UF27		1981	10	24.43576	02	57	16.84	+10	50	37.7	18.0 V	6 675
1981 UF27	*	1981	10	25.38299	02	56	21.52	+10	49	27.8	17.8 V	6 675
1981 UF27		1981	10	25.43993	02	56	17.94	+10	49	23.2		6 675
1981 UF27		1981	10	26.37674	02	55	22.01	+10	48	13.5		6 675
1981 WR		1981	10	24.48958	03	41	58.93	+12	10	47.0	16.5 V	6 675
1981 WR		1981	10	25.49166	03	41	15.24	+12	07	29.2		6 675
1981 WE9		1981	10	24.43576	03	06	53.02	+13	40	00.7	16.2 V	6 675
1981 WE9		1981	10	25.43993	03	05	59.71	+13	33	54.5		6 675
1981 WE9		1981	10	26.43438	03	05	05.63	+13	27	49.2		6 675
1981 WJ9		1981	10	24.43576	03	07	53.20	+13	02	03.9	17.5 V	6 675
1981 WJ9		1981	10	25.43993	03	07	09.80	+12	55	25.6		6 675
1981 WJ9		1981	10	26.43438	03	06	25.69	+12	48	49.4		6 675
1983 JQ		1971	03	24.40486	12	38	30.94	+00	03	05.4	18.0	4 675
1985 RK6		1951	11	29.14097	23	44	39.13	-01	30	46.0		6 675
1985 RK6		1951	11	29.16667	23	44	40.01	-01	30	43.9		6 675
1986 QP2		1981	10	25.38299	02	36	58.17	+11	38	52.7	17.5 V	6 675
1986 QP2		1981	10	26.37674	02	36	10.31	+11	34	57.0		6 675
1986 UU		1992	06	03.30208	15	39	57.39	-17	56	03.5		9 675
1986 UU		1992	06	05.30694	15	37	53.80	-17	42	11.4	17.0	9 675
1986 UU		1992	06	05.34358	15	37	51.38	-17	41	56.0	16.8	9 675
1986 UU		1992	06	06.31476	15	36	53.37	-17	35	18.2	17.0	9 675
1986 UU		1992	06	06.34601	15	36	51.33	-17	35	06.4		9 675
1987 QT1		1991	09	15.45382	02	12	27.48	+20	00	20.4	18.2	9 675
1987 QT1		1991	09	15.50295	02	12	26.09	+20	00	24.6		9 675
1987 ST11		1971	03	24.40486	12	45	50.37	+01	22	41.0	18.0	4 675
1987 VB1		1954	11	23.15347	01	08	10.39	+11	19	53.0		6 675
1987 VB1		1954	11	23.17743	01	08	10.39	+11	19	58.9		6 675
1988 GD		1992	05	01.38438	15	18	50.62	-10	09	25.7	16.0	2 675
1988 GD		1992	05	01.40677	15	18	49.34	-10	09	21.2		2 675
1988 GD		1992	05	02.40990	15	17	54.53	-10	06	57.7		2 675
1988 GD		1992	05	02.43333	15	17	53.30	-10	06	57.0		2 675
1988 GD		1992	05	03.26424	15	17	07.97	-10	04	59.8		2 675
1988 GD		1992	05	30.27066	14	53	17.59	-09	38	55.6	16.5	2 675
1988 GD		1992	05	30.34010	14	53	14.59	-09	38	58.1		2 675
1988 GD		1992	06	01.24132	14	51	58.97	-09	40	51.8		2 675
1988 GD		1992	06	01.26667	14	51	57.99	-09	40	53.2		2 675
1988 GL		1992	04	03.39045	14	22	21.92	+08	35	42.7	17.0	3 675
1988 GL		1992	04	03.42483	14	22	20.23	+08	35	43.9		3 675
1988 GL		1992	04	05.46059	14	20	36.97	+08	36	38.2	17.0	3 675
1988 GL		1992	04	26.28455	13	59	02.54	+07	43	17.0	16.9	3 675
1988 GL		1992	04	26.31372	13	59	00.62	+07	43	07.0		3 675
1988 GL		1992	04	29.24844	13	55	51.45	+07	25	08.5	16.9	3 675
1988 KF		1992	05	28.19375	13	00	50.53	+09	37	57.5	17.0	2 675
1988 KF		1992	05	28.22135	13	00	50.36	+09	37	46.2		2 675
1988 KF		1992	05	31.18906	13	00	42.29	+09	19	02.3		2 675
1988 KF		1992	05	31.21285	13	00	42.19	+09	18	54.3		2 675
1988 LA		1992	06	03.36701	16	47	07.41	-07	53	18.1	15.3	3 675
1988 LA		1992	06	05.37674	16	45	07.81	-08	10	35.4		3 675
1988 LA		1992	06	05.40833	16	45	05.76	-08	10	51.3		3 675
1988 PM1		1981	10	24.48958	03	34	57.28	+15	25	50.1	17.0 V	6 675
1988 PM1		1981	10	25.49166	03	34	05.40	+15	21	18.1		6 675
1988 PG2		1988	09	10.31667	23	36	33.53	-06	40	50.1	17.2	9 675
1988 PG2		1988	09	10.35330	23	36	31.70	-06	41	07.9		9 675
1988 PG2		1988	09	11.33697	23	35	46.26	-06	48	38.5	18.2	9 675
1988 PG2		1988	09	11.37100	23	35	44.57	-06	48	54.7		9 675
1988 PG2		1988	09	12.33993	23	34	59.46	-06	56	19.7	17.8	9 675
1988 PG2		1988	09	12.38177	23	34	57.38	-06	56	39.4		9 675
1988 PG2		1988	09	16.35597	23	31	49.01	-07	26	36.0		9 675

1988	PG2	1988	09	16.38872	23	31	47.28	-07	26	50.6		9 675
1988	PG2	1988	10	07.25938	23	17	37.38	-09	27	50.3	18.2	9 675
1988	PG2	1988	10	07.28715	23	17	36.55	-09	27	54.9		9 675
1988	PX2	1988	09	10.30742	22	30	51.28	-03	12	57.2		9 675
1988	PX2	1988	09	10.34444	22	30	49.68	-03	13	14.8	16.4	9 675
1988	RE	1988	10	21.36257	01	21	12.97	+03	10	43.2		1 675
1988	RE	1988	10	21.36590	01	21	12.79	+03	10	33.3		1 675
1988	RE	1988	10	21.36894	01	21	12.64	+03	10	24.3		1 675
1988	RE	1988	10	22.30998	01	20	27.96	+02	24	03.7		1 675
1988	RE	1988	10	22.31446	01	20	27.73	+02	23	50.4		1 675
1988	RE	1988	10	22.31665	01	20	27.63	+02	23	44.4		1 675
1988	RE	1988	12	07.16588	01	18	32.06	-15	29	32.6		1 675
1988	RE	1988	12	07.16979	01	18	32.20	-15	29	33.8		1 675
1988	RE	1988	12	07.17491	01	18	32.39	-15	29	35.2		1 675
1988	RE	1989	01	02.13373	01	42	50.46	-15	10	42.3		1 675
1988	RE	1989	01	02.13826	01	42	50.70	-15	10	41.1		1 675
1988	RE	1989	01	02.16681	01	42	52.69	-15	10	33.5		1 675
1988	RE	1989	01	02.17134	01	42	52.98	-15	10	32.3		1 675
1988	RR2	1981	10	24.43576	03	11	12.70	+13	31	51.0	17.2 V	6 675
1988	RR2	1981	10	25.43993	03	10	16.21	+13	27	12.4		6 675
1988	RR2	1981	10	26.43438	03	09	19.31	+13	22	33.4		6 675
1988	RJ4	1988	09	10.30742	22	40	36.05	-05	44	31.7		9 675
1988	RJ4	1988	09	10.34444	22	40	34.24	-05	44	45.1	16.9	9 675
1988	RN4	1988	09	10.30742	22	44	04.15	-05	38	30.5		9 675
1988	RN4	1988	09	10.34444	22	44	01.77	-05	38	32.1	16.7	9 675
1988	RN4	1988	09	16.26719	22	38	16.23	-05	42	05.1		9 675
1988	RN4	1988	09	16.30347	22	38	14.23	-05	42	05.7		9 675
1988	RN5	1988	09	12.27066	22	42	49.79	-03	46	18.7	17.8	9 675
1988	RN5	1988	09	12.30625	22	42	48.14	-03	46	30.6		9 675
1988	RN5	1988	09	16.26719	22	39	54.39	-04	06	44.7	18.0	9 675
1988	RN5	1988	09	16.30347	22	39	52.74	-04	06	56.2		9 675
1988	RO5	1988	09	10.30742	22	44	58.00	-02	41	25.2		9 675
1988	RO5	1988	09	10.34444	22	44	55.78	-02	41	27.8	17.8	9 675
1988	RO5	1988	09	12.27066	22	43	03.46	-02	44	35.6	17.8	9 675
1988	RO5	1988	09	12.30625	22	43	01.30	-02	44	38.6		9 675
1988	RO5	1988	09	16.26719	22	39	15.97	-02	51	10.3	17.8	9 675
1988	RO5	1988	09	16.30347	22	39	13.84	-02	51	14.4		9 675
1988	RQ5	1988	09	10.30742	22	51	33.45	-04	23	29.6		9 675
1988	RQ5	1988	09	10.34444	22	51	31.69	-04	23	43.5		9 675
1988	RQ5	1988	09	12.27066	22	50	05.85	-04	35	11.8	17.5	9 675
1988	RQ5	1988	09	12.30625	22	50	04.19	-04	35	24.7		9 675
1988	RQ5	1988	09	16.26719	22	47	12.74	-04	58	41.6	17.8	9 675
1988	RQ5	1988	09	16.30347	22	47	11.08	-04	58	53.5		9 675
1988	RJ6	1988	09	16.26719	23	03	05.47	-02	20	16.6	17.5	9 675
1988	RJ6	1988	09	16.30347	23	03	03.24	-02	20	22.3		9 675
1988	RT6	1988	09	10.30742	22	59	21.13	-03	49	37.2		9 675
1988	RT6	1988	09	12.27066	22	57	57.82	-04	15	15.2	16.5	9 675
1988	RT6	1988	09	16.26719	22	55	14.03	-05	06	40.6	16.5	9 675
1988	RT6	1988	09	16.30347	22	55	12.50	-05	07	08.2		9 675
1988	RU6	1988	09	12.27066	22	59	18.09	-04	48	59.5	18.0	9 675
1988	RU6	1988	09	12.30625	22	59	16.29	-04	49	10.9		9 675
1988	RU6	1988	09	16.26719	22	56	04.59	-05	11	46.1	18.0	9 675
1988	RU6	1988	09	16.30347	22	56	02.76	-05	11	57.8		9 675
1988	RT12	1988	09	12.27066	23	01	54.32	-01	31	50.8	19.5	9 675
1988	RT12	1988	09	12.30625	23	01	53.23	-01	31	59.0		9 675
1988	RT12	1988	09	16.26719	22	59	58.78	-01	48	17.0	18.8	9 675
1988	RT12	1988	09	16.30347	22	59	57.66	-01	48	26.7		9 675
1988	VD7	1981	10	24.43576	02	57	01.10	+09	47	59.4	15.0 V	6 675
1988	VD7	1981	10	25.38299	02	56	00.47	+09	46	56.4	14.8 V	6 675

1988	VD7	1981	10	25.43993	02	55	56.69	+09	46	51.9		6 675
1988	VD7	1981	10	26.37674	02	54	56.01	+09	45	51.3		6 675
1989	AM	1992	01	09.51667	09	08	40.78	+49	49	53.3	16	2 675
1989	AM	1992	01	09.55156	09	08	38.00	+49	50	37.8		2 675
1989	AU1	1992	04	03.44774	14	51	39.88	-19	52	52.9	18.1	3 675
1989	AU1	1992	04	03.47847	14	51	39.03	-19	52	49.3		3 675
1989	AU1	1992	04	05.44080	14	50	54.51	-19	49	20.6		3 675
1989	AU1	1992	04	05.47535	14	50	53.61	-19	49	15.2		3 675
1989	AU1	1992	04	24.35833	14	42	23.38	-19	06	12.3	18	3 675
1989	AU1	1992	04	26.32760	14	41	24.53	-19	00	56.2		3 675
1989	AU1	1992	04	26.35694	14	41	23.90	-19	00	50.0		3 675
1989	AU1	1992	04	29.34427	14	39	53.79	-18	52	35.9		3 675
1989	AU1	1992	06	03.21909	14	24	19.64	-17	14	13.1	18.2	3 675
1989	AU1	1992	06	05.24219	14	23	40.64	-17	09	15.7		3 675
1989	AU1	1992	06	05.27309	14	23	40.16	-17	09	11.6		3 675
1989	BB1	1992	04	03.46233	14	57	18.72	-06	39	33.6		3 675
1989	BB1	1992	04	03.49337	14	57	18.04	-06	39	29.6		3 675
1989	BB1	1992	04	05.48282	14	56	29.39	-06	36	52.2		3 675
1989	BB1	1992	04	24.35243	14	47	12.88	-06	12	55.9	17.9	3 675
1989	BB1	1992	04	24.37899	14	47	11.92	-06	12	53.6		3 675
1989	BB1	1992	04	26.34983	14	46	06.96	-06	10	45.6		3 675
1989	BB1	1992	06	03.22714	14	26	47.15	-06	04	27.3	18.1	3 675
1989	BB1	1992	06	03.27431	14	26	46.19	-06	04	30.3		3 675
1989	BB1	1992	06	05.25035	14	26	01.65	-06	06	31.4		3 675
1989	BB1	1992	06	05.27986	14	26	01.03	-06	06	35.0		3 675
1989	BS1	1991	09	13.42309	01	51	45.37	+14	20	02.3	17.2	9 675
1989	BS1	1991	09	13.48073	01	51	44.23	+14	20	01.7		9 675
1989	BS1	1991	09	14.49688	01	51	28.95	+14	21	05.5		9 675
1989	BS1	1991	09	15.45382	01	51	12.65	+14	21	51.5	17.5	9 675
1989	BS1	1991	09	15.50295	01	51	11.73	+14	21	54.3		9 675
1989	CY2	1991	09	14.49688	02	07	00.24	+16	35	00.9		9 675
1989	CY2	1991	09	15.45382	02	06	54.87	+16	33	11.8	18.5	9 675
1989	CY2	1991	09	15.50295	02	06	54.53	+16	33	06.6		9 675
1989	EO11	1992	04	25.39566	16	02	07.62	+10	23	48.1	18.0	3 675
1989	EO11	1992	04	25.42014	16	02	06.92	+10	23	52.7		3 675
1989	EO11	1992	04	29.39844	16	00	27.32	+10	38	07.9		3 675
1989	EO11	1992	04	29.43316	16	00	26.45	+10	38	15.3		3 675
1989	EO11	1992	06	03.31631	15	43	37.94	+11	32	05.0		3 675
1989	EO11	1992	06	03.34583	15	43	37.03	+11	32	02.3		3 675
1989	EO11	1992	06	05.32188	15	42	42.68	+11	30	48.5		3 675
1989	EO11	1992	06	05.35815	15	42	41.68	+11	30	45.2		3 675
1989	NO	1992	05	27.18889	13	11	41.50	-14	18	55.5		2 675
1989	NO	1992	05	27.21076	13	11	41.44	-14	18	54.5		2 675
1989	NO	1992	05	30.19271	13	11	31.53	-14	17	49.7	16.5	2 675
1989	NO	1992	05	30.20868	13	11	31.46	-14	17	49.0		2 675
1989	SO8	1990	11	13.40868	04	14	04.98	+20	39	52.8	18.5	9 675
1989	SO8	1990	11	13.45330	04	14	02.82	+20	39	49.2		9 675
1989	UZ4	1981	10	24.43576	03	07	32.40	+07	45	37.3	15.5 V	6 675
1989	UZ4	1981	10	25.43993	03	06	47.58	+07	39	28.2		6 675
1989	VT1	1992	06	03.26632	15	18	02.00	-14	15	10.8		9 675
1989	VT1	1992	06	03.30208	15	18	00.42	-14	15	07.2		9 675
1989	VT1	1992	06	05.30694	15	16	38.42	-14	11	51.0	17.5	9 675
1989	VT1	1992	06	05.34358	15	16	36.98	-14	11	49.0		9 675
1989	VT1	1992	06	06.31476	15	15	58.74	-14	10	19.1	17.5	9 675
1989	YH	1988	09	10.30742	22	46	01.96	+00	46	58.4		9 675
1989	YH	1988	09	10.34444	22	45	59.88	+00	46	52.1		9 675
1989	YH	1988	09	12.27066	22	44	17.83	+00	42	00.5	16.5	9 675
1989	YH	1988	09	12.30625	22	44	15.89	+00	41	55.1		9 675
1989	YH	1988	09	16.26719	22	40	51.94	+00	31	20.4	16.5	9 675

1989	YH		1988	09	16.30347	22	40	50.08	+00	31	14.8			9	675
1989	YK8		1992	06	03.26632	15	42	38.19	-10	51	43.4			9	675
1989	YK8		1992	06	03.30208	15	42	36.55	-10	51	41.9			9	675
1989	YK8		1992	06	06.31476	15	40	27.89	-10	50	50.3	16.5		9	675
1989	YK8		1992	06	06.34601	15	40	26.51	-10	50	49.4			9	675
1990	KG2		1981	10	25.38299	02	48	15.79	+08	26	51.2	16.0	V	6	675
1990	KG2		1981	10	26.37674	02	47	31.26	+08	20	12.6			6	675
1990	TZ		1992	05	27.28021	14	40	24.97	-21	00	54.3	15.0		2	675
1990	TZ		1992	05	27.30295	14	40	23.98	-21	00	39.5			2	675
1990	TZ		1992	05	31.31354	14	37	44.33	-20	13	30.7			2	675
1990	UR1		1992	05	27.27483	14	58	14.62	-15	53	16.6	17.0		2	675
1990	UR1		1992	05	27.29722	14	58	13.50	-15	52	56.7			2	675
1990	UR1		1992	05	30.23837	14	55	28.50	-15	07	02.5			2	675
1990	UR1		1992	05	31.31944	14	54	31.04	-14	50	33.7			2	675
1990	UR1		1992	05	31.34288	14	54	29.89	-14	50	12.1			2	675
1990	VC15		1981	10	24.43576	03	16	11.33	+13	41	22.3	16.2	V	6	675
1990	VC15		1981	10	25.43993	03	15	26.26	+13	36	31.0			6	675
1990	VC15		1981	10	26.43438	03	14	40.57	+13	31	40.8			6	675
1990	XB1		1992	05	27.36615	16	07	37.89	-08	19	11.0	14.5		2	675
1990	XB1		1992	05	27.38802	16	07	36.73	-08	19	15.5			2	675
1990	XB1		1992	05	30.33438	16	04	58.85	-08	28	55.5			2	675
1990	XB1		1992	05	30.36302	16	04	57.29	-08	29	01.1			2	675
1991	BY		1988	09	10.30742	23	03	14.76	-02	09	13.4			9	675
1991	BY		1988	09	10.34444	23	03	12.77	-02	09	16.1	16.1		9	675
1991	BY		1988	09	12.27066	23	01	34.92	-02	11	30.6	16.5		9	675
1991	BY		1988	09	12.30625	23	01	33.05	-02	11	33.1			9	675
1991	BY		1988	09	16.26719	22	58	14.43	-02	16	16.4	16.8		9	675
1991	BY		1988	09	16.30347	22	58	12.58	-02	16	18.8			9	675
1991	BY2		1991	02	09.18906	08	07	44.66	+21	18	41.4	17		3	675
1991	BY2		1991	02	09.21910	08	07	41.73	+21	18	20.3			3	675
1991	BH4		1991	02	11.20972	08	30	34.05	+19	21	58.4	17.2		9	675
1991	BH4		1991	02	11.23958	08	30	32.46	+19	21	58.3			9	675
1991	CM5	*	1991	02	09.18906	08	07	32.70	+23	17	29.7	16.7		3	675
1991	CM5		1991	02	09.21910	08	07	30.54	+23	18	04.9			3	675
1991	CM5		1991	02	10.20434	08	06	27.08	+23	37	26.0			3	675
1991	CM5		1991	02	10.23247	08	06	24.98	+23	38	02.3			3	675
1991	HH		1988	09	16.30347	22	48	43.53	+02	02	19.1	16.5		9	675
1991	JP		1991	06	12.20538	14	00	26.94	-04	23	35.9	17.2		3	675
1991	JP		1991	06	12.31701	14	00	28.72	-04	23	17.3			3	675
1991	KC		1989	01	10.35816	08	27	59.85	+18	53	01.2	16.5		3	675
1991	KC		1989	01	10.39948	08	27	58.47	+18	53	15.4			3	675
1991	KC		1989	01	14.41458	08	25	39.46	+19	19	34.3			3	675
1991	KC		1989	01	14.44583	08	25	38.35	+19	19	47.2			3	675
1991	KC		1990	01	26.48681	11	42	15.04	+28	52	43.7	17.2		3	675
1991	KC		1990	01	26.53958	11	42	14.44	+28	53	07.7			3	675
1991	KC		1990	01	28.51319	11	41	53.86	+29	10	00.0			3	675
1991	KC		1990	01	28.54601	11	41	53.27	+29	10	15.9			3	675
1991	KC		1992	04	26.40226	16	31	58.51	+15	25	06.0	17.8		3	675
1991	KC		1992	04	27.38194	16	31	34.99	+15	27	59.4			3	675
1991	KC		1992	04	27.42361	16	31	34.04	+15	28	08.0			3	675
1991	KC		1992	06	03.33003	16	12	59.76	+15	55	53.9	17.8		3	675
1991	KC		1992	06	03.36354	16	12	58.72	+15	55	49.4			3	675
1991	KC		1992	06	05.37222	16	11	55.83	+15	52	14.5			3	675
1991	KC		1992	06	05.40434	16	11	54.83	+15	52	09.2			3	675
1991	PZ18	*	1991	08	07.40035	22	43	56.50	+06	20	50.6	17.0		9	675
1991	PZ18		1991	08	07.43166	22	43	55.49	+06	20	51.3			9	675
1991	PZ18		1991	09	12.28472	22	19	18.43	+03	56	49.4	17.2		9	675
1991	PZ18		1991	09	12.32465	22	19	16.79	+03	56	32.7	16.8		9	675
1991	RQ17		1991	09	15.36128	23	43	32.50	+00	45	43.7			9	675

1991	RR26		1991	09	13.42309	01	51	46.94	+14	28	05.7	18.0	9	675
1991	RR26		1991	09	13.48073	01	51	45.45	+14	28	14.8		9	675
1991	RR26		1991	09	14.49688	01	51	21.79	+14	30	29.5		9	675
1991	RR26		1991	09	15.45382	01	50	57.57	+14	32	25.2	18.0	9	675
1991	RR26		1991	09	15.50295	01	50	56.03	+14	32	29.9		9	675
1991	SG1		1991	09	13.42309	01	57	18.59	+21	52	31.6	17.0	9	675
1991	SG1		1991	09	13.48073	01	57	17.67	+21	52	34.6		9	675
1991	SG1		1991	09	14.49688	01	57	02.50	+21	53	36.2		9	675
1991	SG1		1991	09	15.45382	01	56	46.63	+21	54	22.8	17.2	9	675
1991	SG1		1991	09	15.50295	01	56	45.68	+21	54	25.0		9	675
1991	SB4		1991	09	13.42309	01	40	28.76	+19	16	58.6	16.5	9	675
1991	SB4		1991	09	13.48073	01	40	26.84	+19	17	20.0		9	675
1991	SB4	*	1991	09	17.48420	01	38	05.76	+19	41	13.0	16.5	9	675
1991	SB4		1991	09	17.51667	01	38	04.44	+19	41	23.5		9	675
1991	UA		1991	09	13.42309	02	04	17.81	+14	13	40.8	18.2	9	675
1991	UA		1991	09	13.48073	02	04	17.02	+14	13	41.0		9	675
1991	UA		1991	09	14.49688	02	04	04.02	+14	13	38.4	18.0	9	675
1991	UA		1991	09	15.45382	02	03	50.70	+14	13	30.2	18.0	9	675
1991	UF		1991	09	13.42309	02	08	39.99	+17	29	33.2	18.0	9	675
1991	UF		1991	09	13.48073	02	08	39.66	+17	29	37.0		9	675
1991	UF		1991	09	14.49688	02	08	36.09	+17	30	46.5		9	675
1991	UF		1991	09	15.45382	02	08	30.80	+17	31	40.1	17.8	9	675
1991	UF		1991	09	15.50295	02	08	30.35	+17	31	43.3		9	675
1991	UK		1991	09	13.42309	02	10	44.90	+16	36	17.8	18.0	9	675
1991	UK		1991	09	13.48073	02	10	44.59	+16	36	19.0		9	675
1991	UK		1991	09	14.49688	02	10	41.15	+16	36	51.4	18.2	9	675
1991	UK		1991	09	15.45382	02	10	36.24	+16	37	11.7	17.8	9	675
1991	UP		1991	09	15.45382	02	12	46.04	+17	09	07.6	18.2	9	675
1991	UP		1991	09	15.50295	02	12	46.08	+17	09	06.5		9	675
1991	UM1		1991	09	13.42309	02	06	02.25	+18	13	33.9	16.8	9	675
1991	UM1		1991	09	13.48073	02	06	01.36	+18	13	48.1		9	675
1991	UM1		1991	09	14.49688	02	05	48.11	+18	18	02.8	16.5	9	675
1991	UM1		1991	09	15.45382	02	05	33.49	+18	21	50.2	17.0	9	675
1991	UM1		1991	09	15.50295	02	05	32.50	+18	22	00.2		9	675
1992	GZ		1992	06	03.19114	14	11	19.73	-16	59	32.4	16.7	3	675
1992	GZ		1992	06	03.21909	14	11	19.33	-16	59	30.4		3	675
1992	GZ		1992	06	05.24219	14	11	01.29	-16	57	22.9		3	675
1992	GZ		1992	06	05.27309	14	11	01.01	-16	57	21.8		3	675
1992	HM		1992	06	04.22204	12	59	42.72	+03	07	43.1	17.9	3	675
1992	HM		1992	06	05.20260	12	59	37.71	+02	49	25.8		3	675
1992	HM		1992	06	05.23246	12	59	37.52	+02	48	51.6		3	675
1992	HS3		1992	06	03.19114	14	23	48.17	-16	16	26.8	18.3	3	675
1992	HS3		1992	06	03.21909	14	23	47.45	-16	16	26.3		3	675
1992	HS3		1992	06	05.24219	14	23	07.53	-16	12	29.8		3	675
1992	HS3		1992	06	05.27309	14	23	06.89	-16	12	27.7		3	675
1992	JA		1992	06	02.18125	14	52	08.14	-13	08	54.6	15.5	2	675
1992	JA		1992	06	02.34618	14	52	04.35	-13	05	36.1		2	675
1992	JA		1992	06	03.24479	14	51	47.66	-12	47	41.1	17.6	3	675
1992	JA		1992	06	03.28785	14	51	46.63	-12	46	49.3		3	675
1992	JA		1992	06	05.29253	14	51	14.25	-12	08	03.1		3	675
1992	JE		1992	06	03.22714	14	26	02.07	-00	57	45.2	17.3	3	675
1992	JE		1992	06	03.27431	14	26	00.15	-00	57	17.1		3	675
1992	JE		1992	06	05.25035	14	25	00.69	-00	37	10.6		3	675
1992	JE		1992	06	05.27986	14	24	59.76	-00	36	53.4		3	675
1992	JN1		1992	06	08.30156	16	06	38.53	-11	43	26.8	16.5	9	675
1992	JN1		1992	06	08.34045	16	06	36.14	-11	43	38.2	16.8	9	675
1992	KC		1992	06	03.26632	15	34	00.76	-12	17	20.3		9	675
1992	KC		1992	06	03.30208	15	33	59.05	-12	17	14.7		9	675
1992	KC		1992	06	05.30694	15	32	31.08	-12	12	03.6	17.5	9	675

1992	KC		1992	06	05.34358	15	32	29.29	-12	11	57.1		9	675
1992	KC		1992	06	06.31476	15	31	49.13	-12	09	42.8	17.5	9	675
1992	KC		1992	06	06.34601	15	31	47.82	-12	09	38.2		9	675
1992	KP	*	1992	05	27.36615	16	20	03.03	-08	05	39.3	16.5	2	675
1992	KP		1992	05	27.38802	16	20	01.92	-08	05	18.5		2	675
1992	KP		1992	05	30.33438	16	17	52.05	-07	21	44.9		2	675
1992	KP		1992	05	30.36302	16	17	50.66	-07	21	19.0		2	675
1992	KQ	*	1992	05	29.39705	17	13	46.80	-09	51	12.4	16.0	2	675
1992	KQ		1992	05	29.42691	17	13	45.51	-09	51	17.8		2	675
1992	KQ		1992	06	02.35729	17	10	05.74	-10	08	10.6		2	675
1992	KQ		1992	06	02.37274	17	10	04.86	-10	08	15.2		2	675
1992	KR	*	1992	05	31.43681	17	50	34.70	+01	02	09.0	16.0	2	675
1992	KR		1992	05	31.45868	17	50	33.61	+01	02	18.3		2	675
1992	KR		1992	06	02.38351	17	49	03.65	+01	16	25.9		2	675
1992	KR		1992	06	02.39965	17	49	02.83	+01	16	31.8		2	675
1992	KS	*	1992	05	27.42240	17	17	27.34	-20	55	18.3	16.5	2	675
1992	KS		1992	05	28.40295	17	16	34.67	-20	49	42.3		2	675
1992	KS		1992	05	30.42240	17	14	43.50	-20	38	04.0		2	675
1992	KS		1992	05	30.45000	17	14	41.93	-20	37	53.7		2	675
1992	KT	*	1992	05	29.34271	16	39	27.02	-20	53	42.6	16.5	2	675
1992	KT		1992	05	29.36424	16	39	25.84	-20	53	33.7		2	675
1992	KT		1992	06	01.38403	16	36	45.08	-20	33	46.3		2	675
1992	KT		1992	06	01.40608	16	36	43.84	-20	33	39.3		2	675
1992	LC	*	1992	06	04.19306	12	34	18.18	+01	04	01.8	16.0	3	675
1992	LC		1992	06	04.22205	12	34	26.56	+01	01	21.3		3	675
1992	LC		1992	06	05.20260	12	39	21.63	-00	23	39.9	16.0	3	675
1992	LC		1992	06	05.23246	12	39	30.13	-00	26	12.5		3	675
1992	LC		1992	06	06.18871	12	44	06.10	-01	44	56.0		3	675
1992	LC		1992	06	06.21684	12	44	13.74	-01	47	11.2		3	675
1992	LD	*	1992	06	01.37240	16	05	04.03	+10	55	19.2	16.7	2	675
1992	LD		1992	06	01.39531	16	05	03.37	+10	55	17.4		2	675
1992	LD		1992	06	02.33559	16	04	34.76	+10	54	09.7		2	675
1992	LE	*	1992	06	03.38924	17	29	11.41	+03	30	02.9	16.8	9	675
1992	LE		1992	06	03.41892	17	29	10.23	+03	30	06.9		9	675
1992	LE		1992	06	04.36684	17	28	30.90	+03	31	17.6	17.0	9	675
1992	LE		1992	06	04.39670	17	28	29.67	+03	31	19.4		9	675
1992	LE		1992	06	08.41545	17	25	36.92	+03	33	07.4	17.0	9	675
1992	LE		1992	06	08.44688	17	25	35.46	+03	33	09.0		9	675
1992	LF	*	1992	06	04.36684	17	21	51.34	+04	21	04.2	18.2	9	675
1992	LF		1992	06	04.39670	17	21	49.96	+04	21	06.8		9	675
1992	LF		1992	06	08.41545	17	18	49.99	+04	23	06.4	18.0	9	675
1992	LF		1992	06	08.44688	17	18	48.46	+04	23	07.2		9	675
1992	LG	*	1992	06	03.26632	15	23	34.83	-14	14	53.7	16.8	9	675
1992	LG		1992	06	03.30208	15	23	32.89	-14	14	51.3		9	675
1992	LG		1992	06	05.30694	15	21	54.67	-14	13	22.8	17.2	9	675
1992	LG		1992	06	05.34358	15	21	53.20	-14	13	22.9	17.0	9	675
1992	LG		1992	06	06.31476	15	21	07.62	-14	12	48.5	17.0	9	675
1992	LG		1992	06	06.34601	15	21	06.18	-14	12	48.4	17.5	9	675
1992	LH	*	1992	06	03.26632	15	31	45.37	-11	22	18.4	17.2	9	675
1992	LH		1992	06	03.30208	15	31	43.65	-11	22	10.5		9	675
1992	LH		1992	06	05.30694	15	30	14.05	-11	13	36.7		9	675
1992	LH		1992	06	05.34358	15	30	12.37	-11	13	26.0	17.2	9	675
1992	LH		1992	06	06.31476	15	29	30.52	-11	09	28.3	17.2	9	675
1992	LH		1992	06	06.34601	15	29	29.07	-11	09	21.1	17.8	9	675
1992	LJ	*	1992	06	03.26632	15	32	27.95	-11	19	15.4	17.5	9	675
1992	LJ		1992	06	03.30208	15	32	26.26	-11	19	12.8		9	675
1992	LJ		1992	06	05.30694	15	30	59.72	-11	17	42.7	17.0	9	675
1992	LJ		1992	06	05.34358	15	30	58.26	-11	17	40.9		9	675
1992	LJ		1992	06	06.31476	15	30	18.29	-11	17	10.8	17.0	9	675

1992	LJ		1992	06	06.34601	15	30	16.95	-11	17	10.0	17.2	9	675
1992	LK	*	1992	06	03.26632	15	34	17.86	-16	36	19.7	17.0	9	675
1992	LK		1992	06	03.30208	15	34	15.58	-16	36	23.9		9	675
1992	LK		1992	06	05.30694	15	32	18.45	-16	41	10.8	16.8	9	675
1992	LK		1992	06	06.31476	15	31	21.56	-16	43	42.4	17.0	9	675
1992	LK		1992	06	06.34601	15	31	19.75	-16	43	46.8		9	675
1992	LL	*	1992	06	03.26632	15	35	31.61	-14	18	38.8	17.6	9	675
1992	LL		1992	06	03.30208	15	35	29.23	-14	18	44.3		9	675
1992	LL		1992	06	05.30694	15	33	43.95	-14	24	11.6	17.5	9	675
1992	LL		1992	06	05.34358	15	33	42.02	-14	24	18.7	17.8	9	675
1992	LL		1992	06	06.31476	15	32	53.08	-14	27	08.9	17.5	9	675
1992	LL		1992	06	06.34601	15	32	51.50	-14	27	13.1	17.8	9	675
1992	LM	*	1992	06	03.26632	15	39	41.16	-17	17	50.2	17.4	9	675
1992	LM		1992	06	03.30208	15	39	39.17	-17	17	50.1		9	675
1992	LM		1992	06	05.30694	15	37	57.60	-17	17	46.7	17.5	9	675
1992	LM		1992	06	05.34358	15	37	55.74	-17	17	46.3		9	675
1992	LM		1992	06	06.31476	15	37	07.98	-17	17	50.1	17.2	9	675
1992	LM		1992	06	06.34601	15	37	06.23	-17	17	50.6	17.5	9	675
1992	LN	*	1992	06	03.26632	15	40	29.13	-13	46	28.2	16.9	9	675
1992	LN		1992	06	03.30208	15	40	27.10	-13	46	31.4		9	675
1992	LN		1992	06	05.30694	15	38	39.61	-13	50	04.9	17.0	9	675
1992	LN		1992	06	05.34358	15	38	37.66	-13	50	09.6		9	675
1992	LN		1992	06	06.31476	15	37	47.37	-13	52	00.7	17.2	9	675
1992	LN		1992	06	06.34601	15	37	45.69	-13	52	04.7		9	675
1992	LO	*	1992	06	03.26632	15	43	50.44	-11	31	25.9	18.0	9	675
1992	LO		1992	06	03.30208	15	43	48.74	-11	31	17.4		9	675
1992	LO		1992	06	05.34358	15	42	21.24	-11	22	30.9	17.8	9	675
1992	LO		1992	06	06.31476	15	41	41.96	-11	18	38.0	17.8	9	675
1992	LO		1992	06	06.34601	15	41	40.54	-11	18	31.5	18.0	9	675
1992	LP	*	1992	06	03.26632	15	45	07.11	-16	34	16.2	17.7	9	675
1992	LP		1992	06	03.30208	15	45	04.79	-16	34	12.4		9	675
1992	LP		1992	06	05.30694	15	43	02.06	-16	30	45.7	17.2	9	675
1992	LP		1992	06	05.34358	15	42	59.62	-16	30	40.7		9	675
1992	LP		1992	06	06.31476	15	42	01.84	-16	29	08.2	17.5	9	675
1992	LP		1992	06	06.34601	15	41	59.92	-16	29	05.6		9	675
1992	LQ	*	1992	06	03.26632	15	48	22.54	-16	10	45.5	17.0	9	675
1992	LQ		1992	06	03.30208	15	48	20.59	-16	10	48.8		9	675
1992	LQ		1992	06	05.30694	15	46	39.54	-16	13	56.8	17.8	9	675
1992	LQ		1992	06	05.34358	15	46	37.59	-16	14	01.6	17.5	9	675
1992	LQ		1992	06	06.31476	15	45	49.77	-16	15	36.0	17.5	9	675
1992	LQ		1992	06	06.34601	15	45	48.25	-16	15	39.1	17.8	9	675
1992	LR		1992	05	27.33704	15	50	26.57	-17	49	54.8	16.0	2	675
1992	LR		1992	05	27.35920	15	50	25.75	-17	49	36.6		2	675
1992	LR		1992	05	30.36910	15	50	01.39	-17	12	28.6		2	675
1992	LR		1992	05	30.39080	15	50	00.86	-17	12	12.4		2	675
1992	LR	*	1992	06	03.26632	15	49	46.52	-16	20	04.5	16.6	9	675
1992	LR		1992	06	03.30208	15	49	45.92	-16	19	34.5		9	675
1992	LR		1992	06	05.30694	15	49	48.35	-15	50	45.4	16.8	9	675
1992	LR		1992	06	05.34358	15	49	47.85	-15	50	12.2	16.2	9	675
1992	LR		1992	06	06.31476	15	49	53.05	-15	35	48.8	16.5	9	675
1992	LR		1992	06	06.34601	15	49	52.76	-15	35	19.9	16.8	9	675
1992	LR		1992	06	08.30156	15	50	11.03	-15	05	28.9	17.0	9	675
1992	LR		1992	06	08.34045	15	50	10.89	-15	04	51.4	16.8	9	675
1992	LS	*	1992	06	03.26632	15	50	08.39	-15	11	17.1	17.5	9	675
1992	LS		1992	06	03.30208	15	50	06.39	-15	11	07.2		9	675
1992	LS		1992	06	05.30694	15	48	24.56	-15	03	17.3	17.5	9	675
1992	LS		1992	06	06.31476	15	47	34.78	-14	59	30.1	17.5	9	675
1992	LS		1992	06	06.34601	15	47	33.15	-14	59	23.7		9	675
1992	LT	*	1992	06	05.30694	15	36	54.90	-11	27	19.3	18.2	9	675

1992	LT		1992	06	05.34358	15	36	53.21	-11	27	18.3	17.8	9 675
1992	LT		1992	06	06.31476	15	36	09.39	-11	24	21.9	18.0	9 675
1992	LT		1992	06	06.34601	15	36	07.81	-11	24	15.4		9 675
1992	MC	*	1992	06	27.31806	17	57	58.87	+01	06	04.3	17.0	3 675
1992	MC		1992	06	27.34826	17	57	57.27	+01	06	00.5		3 675
1992	MC		1992	06	29.32326	17	56	12.82	+01	01	00.6		3 675
1992	MC		1992	06	29.35139	17	56	11.30	+01	00	55.9		3 675
1992	MC		1992	06	30.31476	17	55	20.86	+00	58	08.8		3 675
1992	MC		1992	06	30.34271	17	55	19.34	+00	58	03.6		3 675
1992	MD	*	1992	06	29.43038	21	36	55.57	-08	51	20.2	17.6	3 675
1992	MD		1992	06	29.45763	21	36	55.76	-08	51	35.4		3 675
1992	MD		1992	06	30.43837	21	37	03.65	-09	01	15.3		3 675
1992	MD		1992	06	30.46441	21	37	03.72	-09	01	30.6		3 675
2527	P-L		1988	09	10.30742	22	38	15.22	+01	36	57.5		9 675
2527	P-L		1988	09	10.34444	22	38	13.70	+01	36	32.9		9 675
2527	P-L		1988	09	12.27066	22	37	00.99	+01	15	07.7	17.5	9 675
2527	P-L		1988	09	12.30625	22	36	59.56	+01	14	44.0		9 675
2527	P-L		1988	09	16.26719	22	34	35.96	+00	29	56.4	17.5	9 675
2527	P-L		1988	09	16.30347	22	34	34.65	+00	29	32.5		9 675
2559	P-L	*	1960	09	24.46184	00	56	46.11	+01	33	09.7	18.4	4 675
2559	P-L		1960	09	26.37988	00	55	00.09	+01	22	13.7		4 675
2559	P-L		1960	09	28.43822	00	53	03.62	+01	10	25.4		4 675
2559	P-L		1960	09	29.39514	00	52	08.92	+01	04	55.9		4 675
2559	P-L		1960	10	17.31529	00	35	03.08	-00	29	40.5		4 675
2559	P-L		1960	10	22.26809	00	30	50.65	-00	50	02.4		4 675
2559	P-L		1960	10	25.30351	00	28	29.21	-01	00	37.5		4 675
2559	P-L		1960	10	26.35766	00	27	42.73	-01	03	56.9		4 675
2763	P-L	*	1960	09	24.46184	01	00	59.93	+03	05	32.8	19.8	4 675
2763	P-L		1960	09	26.37988	00	59	35.97	+02	56	18.1		4 675
2763	P-L		1960	09	28.43822	00	58	03.65	+02	46	16.0		4 675
2763	P-L		1960	10	25.30351	00	38	01.87	+00	46	25.9		4 675
2763	P-L		1960	10	26.35766	00	37	22.14	+00	42	55.6		4 675
3074	P-L		1991	09	13.42309	02	07	10.72	+18	26	31.8	18.8	9 675
3074	P-L		1991	09	14.49688	02	06	52.23	+18	24	02.5		9 675
3074	P-L		1991	09	15.45382	02	06	34.75	+18	21	43.7	18.5	9 675
3074	P-L		1991	09	15.50295	02	06	33.80	+18	21	35.1		9 675
4050	P-L	*	1960	09	24.37573	00	28	46.76	+07	48	51.7	18.4	4 675
4050	P-L		1960	09	25.42780	00	28	02.31	+07	41	06.9		4 675
4050	P-L		1960	09	26.30558	00	27	25.32	+07	34	33.2		4 675
4050	P-L		1960	09	28.36808	00	25	57.21	+07	18	58.1		4 675
4050	P-L		1960	10	17.27085	00	13	13.94	+04	52	37.3		4 675
4050	P-L		1960	10	22.22293	00	10	30.24	+04	16	40.1		4 675
4050	P-L		1960	10	24.35836	00	09	26.75	+04	01	57.8		4 675
4050	P-L		1960	10	26.32573	00	08	32.77	+03	48	47.2		4 675
4822	P-L	*	1960	09	24.41183	00	32	28.85	+00	02	09.7	19.0	4 675
4822	P-L		1960	09	26.31530	00	31	01.86	-00	08	33.9		4 675
4822	P-L		1960	09	27.40836	00	30	11.47	-00	14	41.6		4 675
4822	P-L		1960	09	28.39725	00	29	25.77	-00	20	14.2		4 675
4822	P-L		1960	10	22.23406	00	12	45.61	-02	13	03.1		4 675
4822	P-L		1960	10	25.25350	00	11	09.80	-02	22	43.4		4 675
4822	P-L		1960	10	26.31531	00	10	38.52	-02	25	48.0		4 675
6034	P-L		1981	10	24.48958	03	30	17.54	+13	12	35.5	17.2 V	6 675
6034	P-L		1981	10	25.49166	03	29	31.81	+13	04	54.8		6 675
6242	P-L		1991	09	13.42309	02	06	07.76	+16	00	57.7	19.0	9 675
6328	P-L		1971	03	24.40486	12	23	59.63	-02	08	03.6	18.0	4 675
6568	P-L		1991	09	15.36128	00	02	10.76	-00	14	49.3	17.8	9 675
6568	P-L		1991	09	15.39861	00	02	08.47	-00	14	58.1		9 675
6581	P-L		1991	04	17.15903	11	24	35.80	+03	11	11.7	18.2	3 675
6581	P-L		1991	04	17.19045	11	24	35.21	+03	11	14.3		3 675

6583	P-L	*	1960	09	24.35002	23	58	19.66	-01	08	13.4	18.1	4 675
6583	P-L		1960	09	26.28543	23	56	35.80	-01	24	14.4		4 675
6583	P-L		1960	09	27.34237	23	55	39.14	-01	32	54.1		4 675
6583	P-L		1960	09	28.33822	23	54	46.35	-01	41	00.5		4 675
6583	P-L		1960	10	17.22501	23	40	38.45	-03	53	13.6		4 675
6583	P-L		1960	10	22.16324	23	38	13.79	-04	17	30.5		4 675
6583	P-L		1960	10	24.23753	23	37	25.35	-04	26	06.1		4 675
6583	P-L		1960	10	26.27157	23	36	45.19	-04	33	34.3		4 675
7075	P-L		1981	10	25.38299	02	31	45.29	+11	27	45.5	16.5 V	6 675
7075	P-L		1981	10	26.37674	02	30	59.19	+11	19	59.3		6 675
7610	P-L	*	1960	10	17.28198	00	14	24.41	-05	29	21.8	19.2	4 675
7610	P-L		1960	10	22.23406	00	10	45.95	-05	47	31.9		4 675
7610	P-L		1960	10	25.25350	00	08	47.86	-05	56	17.7		4 675
7610	P-L		1960	10	26.31531	00	08	09.16	-05	58	56.0		4 675
9544	P-L		1960	09	24.35002	23	50	02.70	-03	20	08.7		4 675
9544	P-L	*	1960	10	17.22501	23	34	52.42	-05	44	24.1	19.0	4 675
9544	P-L		1960	10	22.16324	23	33	02.25	-06	03	03.2		4 675
9544	P-L		1960	10	24.23753	23	32	27.65	-06	09	18.1		4 675
9544	P-L		1960	10	26.27157	23	32	00.62	-06	14	31.7		4 675
2291	T-1		1971	03	24.37118	12	20	13.79	+03	56	12.3		4 675
2291	T-1		1971	03	25.24340	12	19	28.45	+04	00	51.8		4 675
2291	T-1	*	1971	03	25.28715	12	19	26.11	+04	01	05.2	18.2	4 675
2291	T-1		1971	03	26.25208	12	18	35.24	+04	06	15.0		4 675
2291	T-1		1971	03	27.31181	12	17	39.23	+04	11	49.3		4 675
2291	T-1		1971	04	02.41285	12	12	19.60	+04	42	28.3		4 675
4114	T-1		1971	03	24.40486	12	28	33.03	+03	12	30.0		4 675
4114	T-1		1971	03	26.31007	12	26	50.46	+03	23	00.5		4 675
4114	T-1	*	1971	03	26.34896	12	26	48.21	+03	23	13.3	17.2	4 675
4114	T-1		1971	03	27.35208	12	25	53.51	+03	28	35.0		4 675
4114	T-1		1971	04	02.41285	12	20	25.17	+03	58	56.3		4 675
4114	T-1		1971	04	16.16458	12	09	29.43	+04	45	53.1		4 675
4114	T-1		1971	04	16.25069	12	09	25.84	+04	46	03.3		4 675
4114	T-1		1971	05	13.17535	12	02	32.77	+04	15	53.0		4 675
4114	T-1		1971	05	14.20694	12	02	44.61	+04	11	30.6		4 675
2224	T-2		1971	03	24.40486	12	36	00.72	-01	41	14.7	19.0	4 675
2908	T-2		1981	10	24.48958	03	43	32.58	+14	39	18.6	18.5 V	6 675
2908	T-2		1981	10	25.49166	03	42	49.38	+14	33	52.0		6 675
2908	T-2		1988	09	10.30742	23	04	05.91	-01	04	09.1		9 675
2908	T-2		1988	09	12.27066	23	02	26.29	-01	19	03.2	18.2	9 675
2908	T-2		1988	09	12.30625	23	02	24.44	-01	19	21.8	18.8	9 675
2908	T-2		1988	09	16.26719	22	59	07.30	-01	49	33.6	18.5	9 675
2908	T-2		1988	09	16.30347	22	59	05.43	-01	49	49.7		9 675
3060	T-2		1981	10	25.38299	02	47	23.53	+13	17	39.9	17.5 V	6 675
3060	T-2		1981	10	26.37674	02	46	26.77	+13	14	11.9		6 675
3212	T-2		1981	10	24.43576	03	13	05.58	+07	58	04.5	18.2 V	6 675
3212	T-2		1981	10	25.43993	03	12	20.99	+07	50	45.5		6 675
3212	T-2		1981	10	26.43438	03	11	35.59	+07	43	32.1		6 675
4047	T-2		1971	04	16.22812	12	24	37.34	-03	43	33.6	18.5	4 675
4047	T-2		1971	04	16.30139	12	24	33.14	-03	43	38.4		4 675
4047	T-2		1971	05	14.19427	12	08	10.20	-04	43	31.1	18.5	4 675
4047	T-2		1971	05	14.24549	12	08	09.34	-04	43	41.2		4 675
2141	T-3		1988	09	16.26719	22	34	38.60	-00	20	08.5	17.2	9 675
2141	T-3		1988	09	16.30347	22	34	36.70	-00	20	20.8		9 675
3100	T-3		1981	10	25.38299	02	53	02.53	+12	03	43.5	19.0 V	6 675
3100	T-3		1981	10	26.37674	02	52	07.53	+11	58	52.9		6 675
3268	T-3		1977	10	07.27031	01	24	38.52	+10	05	07.8		4 675
3268	T-3		1977	10	11.28819	01	21	00.72	+09	31	59.6		4 675
3268	T-3		1977	10	11.35642	01	20	56.99	+09	31	25.6		4 675
3268	T-3		1977	10	12.28681	01	20	06.05	+09	23	38.9		4 675

3268	T-3		1977	10	12.35347	01	20	02.32	+09	23	03.6			4	675
3268	T-3	*	1977	10	16.27309	01	16	26.88	+08	49	51.5	19.8		4	675
3268	T-3		1977	10	16.33872	01	16	23.09	+08	49	18.5			4	675
3268	T-3		1977	10	17.27552	01	15	32.00	+08	41	22.4			4	675
3268	T-3		1977	10	17.34236	01	15	28.20	+08	40	47.6			4	675
3268	T-3		1977	10	21.39792	01	11	50.00	+08	06	33.7			4	675
3268	T-3		1977	10	21.45799	01	11	46.73	+08	06	02.9			4	675
3355	T-3		1977	10	07.25868	01	19	46.82	+09	22	15.2			4	675
3355	T-3		1977	10	07.27031	01	19	46.13	+09	22	09.2			4	675
3355	T-3		1977	10	11.27743	01	16	40.57	+08	51	37.8			4	675
3355	T-3		1977	10	11.28819	01	16	39.86	+08	51	32.6			4	675
3355	T-3		1977	10	11.34375	01	16	37.39	+08	51	06.1			4	675
3355	T-3		1977	10	11.35642	01	16	36.51	+08	51	02.6			4	675
3355	T-3		1977	10	12.28681	01	15	53.54	+08	43	52.1			4	675
3355	T-3		1977	10	12.35347	01	15	50.24	+08	43	21.3			4	675
3355	T-3	*	1977	10	16.27309	01	12	48.47	+08	13	10.3	19.4		4	675
3355	T-3		1977	10	16.33872	01	12	45.35	+08	12	39.9			4	675
3355	T-3		1977	10	17.27552	01	12	02.39	+08	05	27.2			4	675
3355	T-3		1977	10	17.34236	01	11	59.17	+08	04	58.3			4	675
3355	T-3		1977	10	21.39792	01	08	56.51	+07	34	10.9			4	675
3355	T-3		1977	10	21.45799	01	08	53.80	+07	33	44.7			4	675
3474	T-3		1981	10	25.38299	02	35	12.07	+13	12	47.8	18.8	V	6	675
3474	T-3		1981	10	26.37674	02	34	14.00	+13	09	02.4			6	675
4045	T-3		1981	10	24.48958	03	43	19.42	+11	18	24.3	18.5	V	6	675
4045	T-3		1981	10	25.49166	03	42	31.78	+11	14	51.1			6	675
4074	T-3		1981	10	24.48958	03	37	18.23	+15	17	36.6	18.8	V	6	675
4074	T-3		1981	10	25.49166	03	36	30.02	+15	14	51.0			6	675
4314	T-3	*	1977	10	16.28368	01	32	25.68	+04	17	42.9	17.9		4	675
4314	T-3		1977	10	16.34931	01	32	22.30	+04	17	23.6			4	675
4314	T-3		1977	10	17.28628	01	31	36.50	+04	12	49.1			4	675
4314	T-3		1977	10	17.35313	01	31	33.04	+04	12	30.5			4	675
4314	T-3		1977	10	21.38698	01	28	16.33	+03	53	31.2			4	675
4314	T-3		1977	10	21.44705	01	28	13.36	+03	53	14.4			4	675
4314	T-3		1977	10	22.38542	01	27	28.14	+03	49	02.0			4	675
4314	T-3		1977	10	22.44878	01	27	25.10	+03	48	45.1			4	675
(88)			1991	09	13.42309	02	09	49.49	+20	56	13.7			9	675
(88)			1991	09	13.48073	02	09	48.44	+20	56	15.1			9	675
(88)			1991	09	14.49688	02	09	31.45	+20	56	40.0			9	675
(88)			1991	09	15.45382	02	09	14.03	+20	56	53.5			9	675
(88)			1991	09	15.50295	02	09	13.02	+20	56	53.8			9	675
(205)			1981	10	24.48958	03	27	25.49	+14	59	34.3			6	675
(205)			1981	10	25.49166	03	26	43.79	+14	52	26.3			6	675
(242)			1981	10	24.43576	03	00	49.99	+12	56	05.3			6	675
(242)			1981	10	25.43993	03	00	05.90	+12	48	28.0			6	675
(242)			1981	10	26.43438	02	59	21.49	+12	40	52.4			6	675
(301)			1992	06	08.30156	16	20	26.69	-13	42	58.4			9	675
(301)			1992	06	08.34045	16	20	24.61	-13	42	56.6			9	675
(383)			1981	10	25.38299	02	39	05.89	+11	45	07.9			6	675
(383)			1981	10	26.37674	02	38	19.05	+11	41	52.8			6	675
(393)			1991	09	13.42309	01	57	59.22	+19	42	02.4			9	675
(393)			1991	09	13.48073	01	57	58.11	+19	41	38.4			9	675
(393)			1991	09	14.49688	01	57	39.59	+19	34	29.8			9	675
(393)			1991	09	15.45382	01	57	20.62	+19	27	31.5			9	675
(393)			1991	09	15.50295	01	57	19.50	+19	27	09.3			9	675
(403)			1991	09	13.42309	01	53	16.93	+21	13	26.2			9	675
(403)			1991	09	13.48073	01	53	15.69	+21	13	22.0			9	675
(403)			1991	09	14.49688	01	52	54.62	+21	12	08.3			9	675
(403)			1991	09	15.45382	01	52	33.57	+21	10	49.7			9	675
(403)			1991	09	15.50295	01	52	32.37	+21	10	45.6			9	675

(444)	1988	09	10.30742	22	38	09.20	+01	46	06.2	9 675
(444)	1988	09	10.34444	22	38	07.63	+01	45	43.8	9 675
(444)	1988	09	12.27066	22	36	53.94	+01	26	24.9	9 675
(444)	1988	09	12.30625	22	36	52.51	+01	26	04.0	9 675
(444)	1988	09	16.26719	22	34	29.08	+00	45	54.9	9 675
(444)	1988	09	16.30347	22	34	27.76	+00	45	33.1	9 675
(579)	1992	06	03.26632	15	36	05.78	-12	54	05.6	9 675
(579)	1992	06	03.30208	15	36	04.02	-12	54	08.4	9 675
(579)	1992	06	05.30694	15	34	29.66	-12	56	36.6	9 675
(579)	1992	06	05.34358	15	34	27.91	-12	56	39.2	9 675
(579)	1992	06	06.31476	15	33	43.41	-12	57	57.9	9 675
(579)	1992	06	06.34601	15	33	41.93	-12	58	00.5	9 675
(638)	1981	10	24.43576	03	12	47.74	+07	50	45.8	6 675
(638)	1981	10	25.43993	03	11	59.77	+07	47	21.7	6 675
(638)	1981	10	26.43438	03	11	11.53	+07	44	00.3	6 675
(714)	1992	06	03.26632	15	49	07.35	-15	58	30.2	9 675
(714)	1992	06	03.30208	15	49	05.45	-15	58	14.4	9 675
(714)	1992	06	05.30694	15	47	26.40	-15	43	19.7	9 675
(714)	1992	06	05.34358	15	47	24.52	-15	43	03.1	9 675
(714)	1992	06	06.31476	15	46	37.97	-15	35	58.1	9 675
(714)	1992	06	06.34601	15	46	36.42	-15	35	44.9	9 675
(723)	1992	06	03.26632	15	36	51.76	-12	09	42.1	9 675
(723)	1992	06	03.30208	15	36	50.17	-12	09	37.7	9 675
(723)	1992	06	05.30694	15	35	25.11	-12	05	46.0	9 675
(723)	1992	06	05.34358	15	35	23.52	-12	05	41.4	9 675
(723)	1992	06	06.31476	15	34	43.46	-12	03	57.1	9 675
(723)	1992	06	06.34601	15	34	42.12	-12	03	53.7	9 675
(758)	1992	06	03.26632	15	22	19.75	-12	34	39.2	9 675
(758)	1992	06	03.30208	15	22	18.32	-12	34	36.8	9 675
(758)	1992	06	05.30694	15	21	00.39	-12	32	27.3	9 675
(758)	1992	06	05.34358	15	20	58.78	-12	32	24.7	9 675
(758)	1992	06	06.31476	15	20	22.27	-12	31	29.5	9 675
(758)	1992	06	06.34601	15	20	21.06	-12	31	28.2	9 675
(836)	1981	10	24.43576	03	06	18.90	+13	58	35.9	6 675
(836)	1981	10	25.43993	03	05	32.33	+13	50	10.0	6 675
(836)	1981	10	26.43438	03	04	44.90	+13	41	45.2	6 675
(849)	1992	06	03.26632	15	41	15.83	-12	04	40.1	9 675
(849)	1992	06	03.30208	15	41	14.30	-12	04	21.3	9 675
(849)	1992	06	05.30694	15	39	52.23	-11	47	02.0	9 675
(849)	1992	06	05.34358	15	39	50.64	-11	46	44.2	9 675
(849)	1992	06	06.31476	15	39	12.23	-11	38	31.3	9 675
(849)	1992	06	06.34601	15	39	10.97	-11	38	16.2	9 675
(885)	1992	06	03.26632	15	21	16.83	-13	36	52.5	9 675
(885)	1992	06	03.30208	15	21	15.26	-13	36	48.7	9 675
(885)	1992	06	05.30694	15	19	52.64	-13	32	41.9	9 675
(885)	1992	06	05.34358	15	19	51.01	-13	32	36.3	9 675
(885)	1992	06	06.31476	15	19	12.28	-13	30	42.7	9 675
(885)	1992	06	06.34601	15	19	11.02	-13	30	39.4	9 675
(923)	1991	09	13.42309	02	06	37.65	+14	04	54.7	9 675
(923)	1991	09	13.48073	02	06	37.88	+14	04	26.7	9 675
(929)	1988	09	16.26719	23	01	14.89	+00	28	51.3	9 675
(929)	1988	09	16.30347	23	01	12.83	+00	28	35.6	9 675
(1082)	1992	06	03.26632	15	20	50.21	-15	39	19.1	9 675
(1082)	1992	06	03.30208	15	20	48.66	-15	39	13.1	9 675
(1082)	1992	06	05.30694	15	19	25.41	-15	34	39.1	9 675
(1082)	1992	06	05.34358	15	19	23.86	-15	34	34.3	9 675
(1082)	1992	06	06.31476	15	18	44.91	-15	32	27.1	9 675
(1082)	1992	06	06.34601	15	18	43.56	-15	32	23.0	9 675
(1092)	1991	09	13.42309	02	02	21.26	+19	55	32.0	9 675

(1092)		1991	09	13.48073	02	02	19.95	+19	55	33.3	9 675
(1092)		1991	09	14.49688	02	01	57.02	+19	55	56.7	9 675
(1092)		1991	09	15.45382	02	01	34.21	+19	56	10.5	9 675
(1092)		1991	09	15.50295	02	01	32.94	+19	56	10.9	9 675
(1143)		1992	06	03.26632	15	22	12.94	-17	30	06.7	9 675
(1143)		1992	06	03.30208	15	22	11.96	-17	30	02.1	9 675
(1143)		1992	06	05.30694	15	21	19.24	-17	26	19.7	9 675
(1143)		1992	06	05.34358	15	21	18.23	-17	26	15.9	9 675
(1143)		1992	06	06.31476	15	20	53.38	-17	24	31.8	9 675
(1143)		1992	06	06.34601	15	20	52.59	-17	24	26.4	9 675
(1145)		1991	09	13.42309	01	53	09.50	+16	32	50.1	9 675
(1145)		1991	09	13.48073	01	53	07.70	+16	32	52.3	9 675
(1145)		1991	09	14.49688	01	52	36.61	+16	33	39.0	9 675
(1145)		1991	09	15.45382	01	52	05.89	+16	34	13.5	9 675
(1145)		1991	09	15.50295	01	52	04.16	+16	34	15.1	9 675
(1154)		1981	10	24.48958	03	21	46.85	+14	33	44.8	6 675
(1154)		1981	10	25.49166	03	21	06.73	+14	31	32.0	6 675
(1167)		1992	06	03.26632	15	24	56.17	-16	34	26.1	9 675
(1167)		1992	06	03.30208	15	24	54.76	-16	34	17.7	9 675
(1167)		1992	06	05.30694	15	23	40.50	-16	27	10.5	9 675
(1167)		1992	06	05.34358	15	23	39.10	-16	27	03.5	9 675
(1167)		1992	06	06.31476	15	23	04.43	-16	23	42.0	9 675
(1167)		1992	06	06.34601	15	23	03.26	-16	23	35.1	9 675
(1309)		1988	09	16.26719	22	47	16.41	+02	27	57.7	9 675
(1309)		1988	09	16.30347	22	47	14.95	+02	27	43.1	9 675
(1309)		1992	06	08.30156	16	08	57.10	-11	35	37.6	9 675
(1309)		1992	06	08.34045	16	08	55.42	-11	35	31.9	9 675
(1316)		1992	06	03.26632	15	25	16.25	-17	34	39.2	9 675
(1316)		1992	06	05.30694	15	23	28.16	-17	15	37.3	9 675
(1316)		1992	06	05.34358	15	23	26.26	-17	15	14.1	9 675
(1338)		1988	09	10.30742	22	42	03.30	-05	23	24.5	9 675
(1338)		1988	09	10.34444	22	42	00.91	-05	23	32.9	9 675
(1338)		1988	09	12.27066	22	40	04.77	-05	30	25.7	9 675
(1338)		1988	09	12.30625	22	40	02.57	-05	30	33.1	9 675
(1433)		1988	09	10.30742	22	57	12.95	-00	36	24.9	9 675
(1433)		1988	09	10.34444	22	57	10.81	-00	36	30.4	9 675
(1433)		1988	09	12.27066	22	55	25.79	-00	41	00.2	9 675
(1433)		1988	09	12.30625	22	55	23.78	-00	41	05.3	9 675
(1433)		1988	09	16.26719	22	51	51.45	-00	50	43.2	9 675
(1433)		1988	09	16.30347	22	51	49.47	-00	50	48.2	9 675
(1438)		1988	09	10.30742	22	47	48.04	-04	07	07.9	9 675
(1438)		1988	09	10.34444	22	47	46.32	-04	07	19.7	9 675
(1438)		1988	09	12.27066	22	46	25.06	-04	16	33.1	9 675
(1438)		1988	09	12.30625	22	46	23.49	-04	16	43.2	9 675
(1438)		1988	09	16.26719	22	43	41.91	-04	35	31.6	9 675
(1438)		1988	09	16.30347	22	43	40.37	-04	35	41.9	9 675
(1458)		1988	09	12.27066	23	03	33.63	-00	14	11.6	9 675
(1458)		1988	09	12.30625	23	03	31.92	-00	14	37.2	9 675
(1458)		1988	09	16.26719	23	00	46.24	-01	00	23.9	9 675
(1458)		1988	09	16.30347	23	00	44.68	-01	00	48.9	9 675
(1523)		1991	09	13.42309	01	41	09.43	+16	42	27.6	9 675
(1523)		1991	09	13.48073	01	41	07.56	+16	42	30.0	9 675
(1523)		1991	09	14.49688	01	40	35.50	+16	43	06.8	9 675
(1523)		1991	09	15.45382	01	40	03.78	+16	43	31.4	9 675
(1523)		1991	09	15.50295	01	40	02.00	+16	43	32.3	9 675
(1554)		1991	09	13.42309	01	57	40.40	+20	16	19.7	9 675
(1554)		1991	09	13.48073	01	57	40.04	+20	16	02.9	9 675
(1554)		1991	09	14.49688	01	57	34.67	+20	11	07.8	9 675
(1554)		1991	09	15.45382	01	57	28.01	+20	06	13.6	9 675

(1554)		1991	09	15.50295	01	57	27.49	+20	05	57.5		9	675
(1562)		1981	10	24.43576	03	06	29.15	+08	58	02.0		6	675
(1562)		1981	10	25.43993	03	05	32.39	+08	52	54.5		6	675
(1562)		1981	10	26.43438	03	04	35.15	+08	47	50.9		6	675
(1655)		1992	06	08.30156	16	02	23.75	-10	49	25.0		9	675
(1655)		1992	06	08.34045	16	02	21.84	-10	49	24.4		9	675
(1662)		1971	05	13.18941	11	45	53.50	-02	22	13.2	17.5	4	675
(1662)		1971	05	14.21962	11	45	47.30	-02	21	12.4	17.5	4	675
(1759)		1981	10	25.38299	02	45	28.90	+07	32	24.4		6	675
(1759)		1981	10	26.37674	02	44	44.25	+07	26	23.7		6	675
(1767)		1988	09	10.30742	22	35	34.48	-00	33	05.5		9	675
(1767)		1988	09	10.34444	22	35	32.92	-00	33	23.4		9	675
(1767)		1988	09	12.27066	22	34	18.04	-00	48	47.3		9	675
(1767)		1988	09	12.30625	22	34	16.62	-00	49	04.2		9	675
(1767)		1988	09	16.26719	22	31	49.62	-01	20	45.4		9	675
(1767)		1988	09	16.30347	22	31	48.22	-01	21	02.6		9	675
(1771)		1992	06	08.30156	15	58	51.32	-14	46	18.1		9	675
(1771)		1992	06	08.34045	15	58	49.53	-14	46	18.9	16.5	9	675
(1778)		1992	06	08.34045	15	57	33.20	-17	57	21.8	16.5	9	675
(1917)		1954	05	06.42014	16	42	51.36	+07	16	47.6		6	675
(1917)		1954	05	06.42431	16	42	51.21	+07	16	50.1		6	675
(1917)		1954	05	06.42847	16	42	51.09	+07	16	51.9		6	675
(1917)		1992	06	03.39496	17	57	27.53	+17	05	29.9	17.8	9	675
(1917)		1992	06	03.42447	17	57	25.66	+17	05	54.4		9	675
(1917)		1992	06	08.42725	17	52	02.87	+18	10	54.0		9	675
(1917)		1992	06	08.45815	17	52	00.68	+18	11	17.9		9	675
(1928)		1992	06	03.26632	15	36	01.27	-12	24	31.3		9	675
(1928)		1992	06	03.30208	15	35	59.26	-12	24	24.2		9	675
(1928)		1992	06	05.30694	15	34	15.10	-12	17	59.3		9	675
(1928)		1992	06	05.34358	15	34	13.09	-12	17	53.3		9	675
(1928)		1992	06	06.31476	15	33	24.20	-12	14	56.5		9	675
(1928)		1992	06	06.34601	15	33	22.61	-12	14	51.2		9	675
(1929)		1981	10	24.43576	03	03	58.20	+11	23	26.2		6	675
(1929)		1981	10	25.43993	03	02	59.91	+11	21	56.4		6	675
(1929)		1981	10	26.43438	03	02	01.09	+11	20	28.0		6	675
(1960)		1992	06	01.36649	15	55	28.92	-31	14	38.6	14.5	2	675
(1960)		1992	06	02.28038	15	54	30.15	-31	14	33.3		2	675
(1960)		1992	06	02.30313	15	54	28.61	-31	14	33.2		2	675
(2002)		1981	10	25.38299	02	54	50.26	+07	25	51.0		6	675
(2002)		1981	10	26.37674	02	53	58.07	+07	18	33.8		6	675
(2002)		1988	09	10.30742	22	47	35.51	-03	43	20.2	16.5	9	675
(2002)		1988	09	10.34444	22	47	33.59	-03	43	40.8		9	675
(2002)		1988	09	12.27066	22	46	01.34	-04	01	15.4		9	675
(2002)		1988	09	12.30625	22	45	59.56	-04	01	33.4		9	675
(2002)		1988	09	16.26719	22	42	56.84	-04	37	08.9		9	675
(2002)		1988	09	16.30347	22	42	55.14	-04	37	28.6		9	675
(2017)		1981	10	24.43576	03	00	19.12	+10	19	58.4		6	675
(2017)		1981	10	25.43993	02	59	19.87	+10	13	09.6		6	675
(2017)		1981	10	26.43438	02	58	20.37	+10	06	24.5		6	675
(2034)		1951	11	29.14097	23	44	51.40	-00	37	51.9		6	675
(2034)		1951	11	29.16667	23	44	52.26	-00	37	38.9		6	675
(2039)		1992	06	03.26632	15	41	28.82	-17	32	16.1		9	675
(2039)		1992	06	03.30208	15	41	27.10	-17	32	09.4		9	675
(2039)		1992	06	05.30694	15	40	00.60	-17	28	58.3		9	675
(2039)		1992	06	05.34358	15	39	58.84	-17	28	59.2		9	675
(2039)		1992	06	06.31476	15	39	17.96	-17	27	27.2		9	675
(2039)		1992	06	06.34601	15	39	16.58	-17	27	23.2	17.8	9	675
(2041)		1992	06	08.30156	16	02	42.09	-16	53	02.4		9	675
(2060)		1981	10	24.48958	03	19	31.85	+15	36	46.3		6	675

(2060)	1981 10 25.49166	03 19 20.58	+15 35 53.7			6	675
(2071)	1988 09 10.30742	23 03 30.46	-00 23 06.5			9	675
(2071)	1988 09 10.34444	23 03 28.21	-00 23 16.9			9	675
(2071)	1988 09 11.28485	23 02 34.94	-00 27 12.3			9	675
(2071)	1988 09 11.31940	23 02 32.90	-00 27 20.7			9	675
(2071)	1988 09 12.27066	23 01 39.15	-00 31 23.6			9	675
(2071)	1988 09 12.30625	23 01 37.01	-00 31 33.2			9	675
(2071)	1988 09 16.26719	22 58 00.08	-00 48 37.3			9	675
(2071)	1988 09 16.30347	22 57 58.07	-00 48 46.5			9	675
(2132)	1992 06 03.26632	15 34 04.41	-15 53 27.1			9	675
(2132)	1992 06 03.30208	15 34 02.58	-15 53 25.6			9	675
(2132)	1992 06 05.30694	15 32 27.51	-15 51 49.8			9	675
(2132)	1992 06 05.34358	15 32 25.78	-15 51 48.1			9	675
(2132)	1992 06 06.31476	15 31 41.02	-15 51 06.7			9	675
(2132)	1992 06 06.34601	15 31 39.54	-15 51 05.9			9	675
(2380)	1991 09 13.42309	02 05 14.12	+15 18 15.6			9	675
(2380)	1991 09 13.48073	02 05 13.27	+15 18 17.3			9	675
(2380)	1991 09 14.49688	02 04 59.88	+15 18 52.4			9	675
(2380)	1991 09 15.45382	02 04 45.50	+15 19 15.0			9	675
(2380)	1991 09 15.50295	02 04 44.58	+15 19 15.8			9	675
(2409)	1992 06 03.26632	15 24 35.02	-12 29 58.7			9	675
(2409)	1992 06 03.30208	15 24 32.98	-12 29 53.9			9	675
(2409)	1992 06 05.30694	15 22 43.44	-12 25 33.5			9	675
(2409)	1992 06 05.34358	15 22 41.28	-12 25 28.5			9	675
(2409)	1992 06 06.34601	15 21 48.48	-12 23 29.8		16.8	9	675
(2476)	1992 06 03.26632	15 50 57.16	-14 42 13.8			9	675
(2476)	1992 06 03.30208	15 50 55.28	-14 42 16.2			9	675
(2476)	1992 06 05.30694	15 49 16.25	-14 43 42.4			9	675
(2476)	1992 06 05.34358	15 49 14.60	-14 43 43.4			9	675
(2476)	1992 06 06.31476	15 48 27.37	-14 44 30.9			9	675
(2476)	1992 06 06.34601	15 48 25.78	-14 44 31.1			9	675
(2500)	1981 10 25.38299	02 31 12.25	+12 20 58.1			6	675
(2525)	1981 10 25.38299	02 37 24.70	+11 43 35.7			6	675
(2525)	1981 10 26.37674	02 36 36.84	+11 40 28.6			6	675
(2609)	1988 09 10.30742	22 36 25.44	-02 06 56.7			9	675
(2609)	1988 09 10.34444	22 36 23.11	-02 07 06.9			9	675
(2609)	1988 09 12.27066	22 34 30.51	-02 15 37.4			9	675
(2609)	1988 09 12.30625	22 34 28.36	-02 15 46.9			9	675
(2609)	1988 09 16.26719	22 30 46.54	-02 33 13.3			9	675
(2609)	1988 09 16.30347	22 30 44.54	-02 33 23.3			9	675
(2644)	1954 11 23.15347	01 07 36.92	+10 44 40.9			6	675
(2644)	1954 11 23.17743	01 07 36.66	+10 44 41.4			6	675
(2645)	1991 09 13.42309	01 49 37.81	+21 30 42.8			9	675
(2645)	1991 09 13.48073	01 49 36.04	+21 31 09.8			9	675
(2645)	1991 09 14.49688	01 49 06.52	+21 39 07.0			9	675
(2659)	1992 06 03.26632	15 33 58.17	-17 16 55.9			9	675
(2659)	1992 06 03.30208	15 33 56.54	-17 16 54.1			9	675
(2659)	1992 06 05.30694	15 32 32.82	-17 12 23.3			9	675
(2659)	1992 06 05.34358	15 32 31.21	-17 12 18.8			9	675
(2659)	1992 06 06.31476	15 31 51.96	-17 10 11.1			9	675
(2659)	1992 06 06.34601	15 31 50.66	-17 10 08.0			9	675
(2664)	1992 06 05.30694	15 38 16.27	-14 17 29.3			9	675
(2664)	1992 06 05.34358	15 38 14.21	-14 17 23.9			9	675
(2664)	1992 06 06.31476	15 37 22.40	-14 14 47.1			9	675
(2664)	1992 06 06.34601	15 37 20.69	-14 14 41.4			9	675
(2751)	1988 09 10.30742	22 59 57.27	-03 42 16.6			9	675
(2751)	1988 09 10.34444	22 59 55.07	-03 42 30.5		16.2	9	675
(2751)	1988 09 12.27066	22 58 07.79	-03 53 58.1			9	675
(2751)	1988 09 12.30625	22 58 05.85	-03 54 11.9			9	675

(2751)		1988	09	16.26719	22	54	28.76	-04	17	44.4		9 675
(2751)		1988	09	16.30347	22	54	26.71	-04	17	57.0		9 675
(2752)		1981	10	25.38299	02	45	44.97	+07	23	12.9		6 675
(2752)		1981	10	26.37674	02	45	01.44	+07	15	51.6		6 675
(2832)		1981	10	24.48958	03	30	08.47	+12	56	19.6		6 675
(2832)		1981	10	25.49166	03	29	22.63	+12	51	32.8		6 675
(2927)		1992	06	04.30035	15	42	21.66	+08	05	22.9		9 675
(2927)		1992	06	04.32934	15	42	20.22	+08	05	21.2		9 675
(2932)		1992	06	08.30156	16	00	43.47	-17	35	42.1		9 675
(2932)		1992	06	08.34045	16	00	41.82	-17	35	38.6		9 675
(2953)		1988	09	10.30742	22	59	17.38	-04	40	43.4		9 675
(2953)		1988	09	10.34444	22	59	15.52	-04	40	55.6		9 675
(2953)		1988	09	12.27066	22	57	44.68	-04	50	33.1		9 675
(2953)		1988	09	12.30625	22	57	42.99	-04	50	44.1		9 675
(2953)		1988	09	16.26719	22	54	40.35	-05	10	14.7		9 675
(2953)		1988	09	16.30347	22	54	38.57	-05	10	25.5		9 675
(3084)		1981	10	25.38299	02	42	15.69	+11	35	09.5		6 675
(3084)		1981	10	26.37674	02	41	19.74	+11	28	18.3		6 675
(3107)		1988	09	10.30742	22	55	45.57	-02	59	40.1		9 675
(3107)		1988	09	10.34444	22	55	43.59	-02	59	51.3		9 675
(3107)		1988	09	12.27066	22	54	11.69	-03	09	22.3		9 675
(3107)		1988	09	12.30625	22	54	09.87	-03	09	32.9		9 675
(3107)		1988	09	16.26719	22	51	10.88	-03	28	50.6		9 675
(3107)		1988	09	16.30347	22	51	09.16	-03	29	00.9		9 675
(3138)		1991	09	13.42309	01	47	47.21	+15	04	54.4		9 675
(3138)		1991	09	13.48073	01	47	45.82	+15	04	43.2		9 675
(3138)		1991	09	14.49688	01	47	19.71	+15	01	45.2		9 675
(3138)		1991	09	15.45382	01	46	53.63	+14	58	47.0		9 675
(3138)		1991	09	15.50295	01	46	52.21	+14	58	36.7		9 675
(3147)		1988	09	10.30742	22	51	17.69	-02	32	28.9		9 675
(3147)		1988	09	10.34444	22	51	15.68	-02	32	42.8	17.8	9 675
(3147)		1988	09	12.27066	22	49	38.42	-02	44	37.6		9 675
(3147)		1988	09	12.30625	22	49	36.57	-02	44	50.8		9 675
(3147)		1988	09	16.26719	22	46	20.46	-03	09	25.5		9 675
(3147)		1988	09	16.30347	22	46	18.70	-03	09	39.2		9 675
(3195)		1988	09	12.27066	22	59	02.68	-05	06	39.1		9 675
(3195)		1988	09	12.30625	22	59	00.93	-05	06	47.7		9 675
(3195)		1988	09	16.26719	22	56	01.11	-05	25	22.7		9 675
(3195)		1988	09	16.30347	22	55	59.39	-05	25	32.0		9 675
(3302)		1981	10	25.38299	02	33	42.05	+09	42	58.1		6 675
(3302)		1981	10	26.37674	02	32	46.38	+09	37	26.0		6 675
(3363)		1981	10	25.38299	02	44	40.02	+12	50	05.2		6 675
(3363)		1981	10	26.37674	02	43	50.92	+12	45	06.0		6 675
(3408)		1981	10	24.43576	03	18	45.71	+12	43	34.4		6 675
(3408)		1981	10	24.48958	03	18	42.67	+12	43	20.3		6 675
(3408)		1981	10	25.43993	03	17	50.93	+12	39	14.4		6 675
(3408)		1981	10	25.49166	03	17	47.93	+12	39	00.1		6 675
(3408)		1981	10	26.43438	03	16	55.46	+12	34	55.5		6 675
(3412)		1988	09	10.30742	22	47	28.29	-04	06	44.3		9 675
(3412)		1988	09	10.34444	22	47	25.92	-04	06	55.8		9 675
(3412)		1988	09	12.27066	22	45	32.05	-04	15	57.6		9 675
(3412)		1988	09	12.30625	22	45	29.86	-04	16	07.4		9 675
(3412)		1988	09	16.26719	22	41	42.94	-04	34	28.9		9 675
(3412)		1988	09	16.30347	22	41	40.79	-04	34	38.8		9 675
(3413)		1991	09	13.42309	01	57	52.86	+20	47	06.6		9 675
(3413)		1991	09	13.48073	01	57	51.18	+20	47	09.4	18.2	9 675
(3413)		1991	09	14.49688	01	57	22.21	+20	48	08.5		9 675
(3413)		1991	09	15.45382	01	56	53.33	+20	48	54.2		9 675
(3413)		1991	09	15.50295	01	56	51.85	+20	48	55.5		9 675

(3434)		1981	10	25.38299	02	46	56.09	+10	57	00.0			6	675
(3434)		1981	10	26.37674	02	46	01.40	+10	54	01.7			6	675
(3485)		1991	09	13.42309	01	52	15.76	+14	09	30.7		16.8	9	675
(3485)		1991	09	13.48073	01	52	14.18	+14	09	26.9			9	675
(3485)		1991	09	14.49688	01	51	46.96	+14	08	16.7			9	675
(3485)		1991	09	15.45382	01	51	20.04	+14	06	58.5			9	675
(3485)		1991	09	15.50295	01	51	18.47	+14	06	54.0			9	675
(3491)		1992	06	03.26632	15	33	32.39	-13	14	38.9			9	675
(3491)		1992	06	03.30208	15	33	30.73	-13	14	34.9			9	675
(3491)		1992	06	05.30694	15	32	01.12	-13	10	19.3			9	675
(3491)		1992	06	05.34358	15	31	59.46	-13	10	15.3			9	675
(3491)		1992	06	06.34601	15	31	15.94	-13	08	14.5		17.5	9	675
(3502)		1981	10	24.43576	03	07	01.66	+13	39	59.9			6	675
(3502)		1981	10	25.43993	03	06	15.19	+13	36	50.0			6	675
(3502)		1981	10	26.43438	03	05	28.47	+13	33	41.3			6	675
(3511)		1991	09	13.42309	02	08	16.35	+19	35	44.0		17.0	9	675
(3511)		1991	09	13.48073	02	08	15.73	+19	35	38.9			9	675
(3511)		1991	09	14.49688	02	08	06.03	+19	34	05.8			9	675
(3511)		1991	09	15.45382	02	07	55.49	+19	32	28.5		17.0	9	675
(3511)		1991	09	15.50295	02	07	54.83	+19	32	23.3			9	675
(3522)		1981	10	24.43576	03	10	26.33	+12	53	19.5			6	675
(3522)		1981	10	25.43993	03	09	44.35	+12	45	54.2			6	675
(3522)		1981	10	26.43438	03	09	01.93	+12	38	31.4			6	675
(3581)		1981	10	26.43438	03	13	50.13	+13	45	31.2			6	675
(3623)		1981	10	25.38299	02	52	31.15	+11	32	15.8			6	675
(3623)		1981	10	26.37674	02	51	41.96	+11	28	27.4			6	675
(3625)		1991	09	13.42309	01	47	04.42	+14	30	58.1			9	675
(3625)		1991	09	13.48073	01	47	03.17	+14	30	49.2			9	675
(3625)		1991	09	14.49688	01	46	41.48	+14	28	03.9			9	675
(3625)		1991	09	15.45382	01	46	19.86	+14	25	19.9			9	675
(3625)		1991	09	15.50295	01	46	18.64	+14	25	11.1			9	675
(3670)		1981	10	24.48958	03	30	44.45	+10	06	49.3			6	675
(3670)		1981	10	25.49166	03	29	59.47	+10	03	43.6			6	675
(3706)		1981	10	24.43576	03	18	15.69	+11	23	32.6			6	675
(3706)		1981	10	25.43993	03	17	25.78	+11	18	33.1			6	675
(3706)		1981	10	26.43438	03	16	34.78	+11	13	34.8			6	675
(3743)		1981	10	24.48958	03	20	15.50	+13	49	06.7			6	675
(3743)		1981	10	25.43993	03	19	22.61	+13	44	18.4			6	675
(3743)		1981	10	25.49166	03	19	19.61	+13	44	03.3			6	675
(3743)		1981	10	26.43438	03	18	26.06	+13	39	13.8			6	675
(3889)		1981	10	24.48958	03	25	35.54	+12	38	29.8			6	675
(3889)		1981	10	25.49166	03	24	48.14	+12	35	12.8			6	675
(3911)		1992	06	08.30156	16	00	12.24	-11	13	06.8			9	675
(3911)		1992	06	08.34045	16	00	10.47	-11	12	58.4			9	675
(3929)		1981	10	24.43576	03	07	41.50	+12	24	16.5			6	675
(3929)		1981	10	25.43993	03	06	50.98	+12	19	13.0			6	675
(3929)		1981	10	26.43438	03	05	59.76	+12	14	12.4			6	675
(3942)		1951	11	29.14097	23	42	50.72	-01	40	13.8			6	675
(3942)		1951	11	29.16667	23	42	51.85	-01	40	03.2			6	675
(3949)		1988	09	16.26719	23	00	58.40	+00	53	34.6			9	675
(3949)		1988	09	16.30347	23	00	56.25	+00	53	17.5			9	675
(3953)		1992	06	03.26632	15	27	55.64	-10	58	54.8			9	675
(3953)		1992	06	03.30208	15	27	53.51	-10	58	50.9			9	675
(3953)		1992	06	05.30694	15	26	02.87	-10	55	57.7			9	675
(3953)		1992	06	05.34358	15	26	00.92	-10	55	50.9			9	675
(3953)		1992	06	06.31476	15	25	08.83	-10	54	41.4			9	675
(3953)		1992	06	06.34601	15	25	07.17	-10	54	39.4		17.8	9	675
(3957)		1992	06	03.26632	15	40	40.31	-11	46	53.6			9	675
(3957)		1992	06	05.30694	15	39	11.33	-11	41	27.0			9	675

(3957)		1992	06	05.34358	15	39	09.45	-11	41	26.1		9	675
(3957)		1992	06	06.31476	15	38	28.54	-11	38	55.6		9	675
(3957)		1992	06	06.34601	15	38	27.17	-11	38	50.8		9	675
(4019)		1954	11	23.15347	01	02	50.55	+09	58	07.7	17.8	6	675
(4019)		1954	11	23.17743	01	02	50.51	+09	58	07.7		6	675
(4024)		1981	10	25.38299	02	53	32.68	+12	39	24.0		6	675
(4024)		1981	10	26.37674	02	52	29.83	+12	38	28.3		6	675
(4035)		1992	06	03.26632	15	31	49.31	-17	52	56.0		9	675
(4035)		1992	06	03.30208	15	31	48.28	-17	52	49.6		9	675
(4035)		1992	06	05.30694	15	30	54.28	-17	47	31.1		9	675
(4035)		1992	06	05.34358	15	30	53.20	-17	47	26.0		9	675
(4035)		1992	06	06.31476	15	30	27.78	-17	44	51.8		9	675
(4035)		1992	06	06.34601	15	30	26.81	-17	44	48.9	17.5	9	675
(4048)		1954	11	23.15347	00	59	52.13	+10	48	28.0		6	675
(4048)		1954	11	23.17743	00	59	52.32	+10	48	32.2		6	675
(4108)		1951	11	29.14097	23	41	33.17	-01	54	44.8		6	675
(4108)		1951	11	29.16667	23	41	33.56	-01	54	42.3		6	675
(4150)		1981	10	24.48958	03	25	21.56	+12	46	58.7		6	675
(4150)		1981	10	25.49166	03	24	25.18	+12	42	51.3		6	675
(4213)		1991	09	13.42309	01	48	03.09	+15	59	41.2		9	675
(4213)		1991	09	13.48073	01	48	01.77	+15	59	36.6		9	675
(4213)		1991	09	14.49688	01	47	39.40	+15	58	17.2		9	675
(4213)		1991	09	15.45382	01	47	16.87	+15	56	51.7		9	675
(4213)		1991	09	15.50295	01	47	15.59	+15	56	46.8		9	675
(4241)		1988	09	10.30742	22	56	02.20	-05	10	10.4		9	675
(4241)		1988	09	10.34444	22	56	00.50	-05	10	21.3	19.0	9	675
(4241)		1988	09	12.27066	22	54	32.52	-05	19	41.1	19.0	9	675
(4241)		1988	09	12.30625	22	54	30.77	-05	19	52.6		9	675
(4241)		1988	09	16.26719	22	51	34.14	-05	38	44.9		9	675
(4241)		1988	09	16.30347	22	51	32.62	-05	38	53.5		9	675
(4264)		1992	06	08.30156	16	11	06.20	-16	04	24.4		9	675
(4264)		1992	06	08.34045	16	11	04.00	-16	04	14.9	18.0	9	675
(4273)		1992	06	08.30156	16	03	08.94	-16	24	27.4		9	675
(4273)		1992	06	08.34045	16	03	06.60	-16	24	21.7	18.0	9	675
(4302)		1981	10	24.43576	03	20	54.78	+09	53	27.0		6	675
(4302)		1981	10	24.48958	03	20	51.85	+09	53	08.9		6	675
(4302)		1981	10	25.43993	03	20	04.34	+09	48	22.9		6	675
(4302)		1981	10	25.49166	03	20	01.50	+09	48	05.5		6	675
(4302)		1981	10	26.43438	03	19	13.36	+09	43	21.2		6	675
(4341)		1992	06	04.30035	15	27	16.45	+04	14	49.2		9	675
(4341)		1992	06	04.32934	15	27	14.17	+04	13	58.8		9	675
(4377)		1988	09	10.30742	22	39	01.40	-04	19	02.5		9	675
(4377)		1988	09	10.34444	22	38	59.34	-04	19	16.4		9	675
(4377)		1988	09	12.27066	22	37	19.74	-04	31	03.7		9	675
(4377)		1988	09	12.30625	22	37	17.88	-04	31	16.1		9	675
(4391)		1981	10	24.43576	02	55	38.58	+12	12	13.0		6	675
(4391)		1981	10	25.38299	02	54	44.26	+12	05	43.7		6	675
(4391)		1981	10	26.37674	02	53	46.54	+11	58	55.5		6	675
(4418)		1981	10	24.43576	03	16	33.40	+11	33	10.1		6	675
(4418)		1981	10	25.43993	03	15	44.99	+11	24	53.8		6	675
(4418)		1981	10	26.43438	03	14	56.17	+11	16	41.4		6	675
(4484)		1992	06	04.30035	15	36	59.27	+02	10	41.6		9	675
(4484)		1992	06	04.32934	15	36	57.61	+02	10	29.9		9	675
(4520)		1989	03	07.18125	07	57	26.81	+24	31	47.4	17	3	675
(4520)		1989	03	07.22083	07	57	26.24	+24	31	47.9		3	675
(4520)		1989	03	08.14757	07	57	15.36	+24	32	07.7		3	675
(4520)		1989	03	08.18125	07	57	14.67	+24	32	05.7		3	675
(4546)		1981	10	24.48958	03	29	59.09	+13	44	32.6		6	675
(4546)		1981	10	25.49166	03	29	14.35	+13	37	50.5		6	675

(4664)		1951	11	29.14097	23	40	37.85	-00	51	23.4		6	675
(4707)		1988	09	10.30742	22	36	48.44	-03	42	00.9		9	675
(4707)		1988	09	10.34444	22	36	47.22	-03	42	06.7	16.8	9	675
(4707)		1988	09	12.27066	22	35	47.77	-03	46	44.3		9	675
(4707)		1988	09	12.30625	22	35	46.68	-03	46	50.2		9	675
(4707)		1988	09	16.26719	22	33	47.75	-03	56	18.2		9	675
(4707)		1988	09	16.30347	22	33	46.64	-03	56	22.8		9	675
(4817)		1992	06	08.34045	16	01	41.66	-17	17	29.7	18.5	9	675
(4822)		1971	03	24.40486	12	37	29.23	+01	01	46.6	18.0	4	675
(4823)		1951	11	29.14097	23	43	20.77	-00	28	45.4		6	675
(4823)		1951	11	29.16667	23	43	22.16	-00	28	36.3		6	675
(4829)		1988	09	10.30742	22	40	48.82	+01	40	14.7		9	675
(4829)		1988	09	10.34444	22	40	47.73	+01	40	09.2	18.5	9	675
(4829)		1988	09	12.27066	22	39	53.29	+01	32	47.1		9	675
(4829)		1988	09	12.30625	22	39	52.19	+01	32	39.9		9	675
(4829)		1988	09	16.26719	22	38	03.16	+01	17	17.6		9	675
(4829)		1988	09	16.30347	22	38	02.17	+01	17	10.1		9	675
(4836)		1992	06	08.30156	16	05	31.45	-13	27	13.5		9	675
(4836)		1992	06	08.34045	16	05	30.26	-13	27	16.4	17.8	9	675
(4856)		1988	09	16.26719	22	44	40.60	+02	27	14.1		9	675
(4856)		1988	09	16.30347	22	44	38.97	+02	26	50.4		9	675
(4858)		1988	09	12.27066	22	59	32.36	-04	37	04.9		9	675
(4858)		1988	09	12.30625	22	59	30.05	-04	37	14.8		9	675
(4858)		1988	09	16.26719	22	55	26.97	-04	55	30.3		9	675
(4858)		1988	09	16.30347	22	55	24.69	-04	55	39.7		9	675
(4867)		1988	09	10.30742	22	55	10.86	+00	17	06.2		9	675
(4867)		1988	09	10.34444	22	55	09.46	+00	17	04.7		9	675
(4867)		1988	09	12.27066	22	54	01.42	+00	15	32.8		9	675
(4867)		1988	09	12.30625	22	54	00.13	+00	15	31.2		9	675
(4867)		1988	09	16.26719	22	51	42.10	+00	12	10.2		9	675
(4867)		1988	09	16.30347	22	51	40.80	+00	12	08.3		9	675
(4884)		1992	06	08.30156	16	11	31.44	-11	08	24.2		9	675
(4884)		1992	06	08.34045	16	11	29.27	-11	08	21.5		9	675
(4885)		1981	10	24.48958	03	32	59.95	+15	00	25.3		6	675
(4885)		1981	10	25.49166	03	32	09.43	+14	56	09.6		6	675
(4908)		1988	09	10.30742	22	32	42.45	-03	47	06.1		9	675
(4908)		1988	09	10.34444	22	32	41.00	-03	47	27.4		9	675
(4988)		1971	04	02.40000	12	16	19.65	-01	42	19.8	18.0	4	675
(4997)		1991	09	13.42309	01	58	46.06	+16	03	41.8		9	675
(4997)		1991	09	13.48073	01	58	43.38	+16	04	41.3		9	675
(4997)		1991	09	14.49688	01	57	57.00	+16	22	17.9		9	675
(4997)		1991	09	15.45382	01	57	10.99	+16	38	57.1		9	675
(4997)		1991	09	15.50295	01	57	08.42	+16	39	48.3		9	675
(5061)		1991	09	13.42309	02	02	03.25	+20	27	57.1	18.5	9	675
(5061)		1991	09	13.48073	02	02	02.29	+20	27	53.5		9	675
(5061)		1991	09	14.49688	02	01	45.59	+20	26	37.2		9	675
(5061)		1991	09	15.45382	02	01	28.76	+20	25	15.5		9	675
(5061)		1991	09	15.50295	02	01	27.79	+20	25	11.2		9	675
(5116)		1971	03	24.40486	12	31	00.98	+00	18	53.1	18.0	4	675
(5123)		1992	06	03.26632	15	29	22.78	-15	05	32.2		9	675
(5123)		1992	06	03.30208	15	29	21.70	-15	05	31.8		9	675
(5123)		1992	06	05.30694	15	28	25.76	-15	04	10.9		9	675
(5123)		1992	06	05.34358	15	28	24.77	-15	04	09.7		9	675
(5123)		1992	06	06.31476	15	27	58.27	-15	03	34.2		9	675
(5123)		1992	06	06.34601	15	27	57.31	-15	03	32.1	17.8	9	675
(5134)		1981	10	24.48958	03	31	52.90	+10	09	35.2		6	675
(5134)		1981	10	25.49166	03	31	07.24	+10	07	21.5		6	675
(5171)		1991	09	13.42309	01	58	37.85	+22	08	29.0		9	675
(5196)		1991	09	13.42309	02	02	37.79	+16	46	47.8	18.2	9	675

(5196)	1991 09 13.48073	02 02 36.29	+16 47 00.3		9	675
(5196)	1991 09 14.49688	02 02 10.44	+16 50 33.2		9	675
(5196)	1991 09 15.45382	02 01 44.68	+16 53 48.8	18.2	9	675
(5196)	1991 09 15.50295	02 01 43.24	+16 53 57.3		9	675
(5209)	1955 04 20.16111	10 26 35.13	+05 27 06.6		6	675
(5209)	1955 04 20.18611	10 26 34.89	+05 27 06.4		6	675

690 Lowell Observatory
E. Bowell, Lowell Observatory, 1400 West Mars Hill Road,
Flagstaff, AZ 86001, U.S.A.
Observers R. Burnham, C. Slaughter, C. W. Tombaugh
Measurer C. M. Olmstead
0.33-m photographic telescope

1991 CT1	1930 12 14.20069	02 59 14.64	+27 02 35.5		U	690

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

1940 ED	1991 10 08.36989	01 10 12.08	+05 44 26.5	17.8 V		691
1940 ED	1991 10 08.39112	01 10 10.84	+05 44 17.2			691
1940 ED	1991 10 08.41164	01 10 09.65	+05 44 08.1			691
1955 UN1	1991 10 05.40578	00 58 51.65	+02 23 43.2			691
1955 UN1	1991 10 05.42697	00 58 50.09	+02 23 50.7	14.7 V		691
1955 UN1	1991 10 05.44784	00 58 48.57	+02 23 58.3			691
1972 RX1	1991 09 15.42817	00 18 01.91	+01 52 27.2	16.8 V		691
1972 RX1	1991 09 15.45072	00 18 00.95	+01 52 16.8			691
1972 RX1	1991 09 15.47265	00 17 59.95	+01 52 06.8			691
1972 RY3	1991 10 02.40507	00 42 17.88	-01 31 42.5	16.8 V		691
1972 RY3	1991 10 02.42581	00 42 16.92	-01 31 45.5			691
1972 RY3	1991 10 02.44666	00 42 15.95	-01 31 48.6			691
1973 SQ3	1991 10 05.17388	00 15 43.68	+02 04 31.9	16.4 V		691
1973 SQ3	1991 10 05.19438	00 15 42.73	+02 04 19.4			691
1973 SQ3	1991 10 05.21619	00 15 41.71	+02 04 06.3			691
1975 TR2	1991 10 02.40239	00 38 26.31	-01 34 35.3	16.8 V		691
1975 TR2	1991 10 02.42314	00 38 25.37	-01 34 42.2			691
1975 TR2	1991 10 02.44399	00 38 24.42	-01 34 49.3			691
1976 QP	1991 10 09.29281	00 48 24.10	+06 56 12.3			691
1976 QP	1991 10 09.31336	00 48 22.91	+06 56 04.2			691
1976 QP	1991 10 09.33378	00 48 21.76	+06 55 56.0	17.2 V		691
1977 EC2	1991 10 04.44902	02 12 06.67	+13 09 08.8			691
1977 EC2	1991 10 04.47050	02 12 05.87	+13 09 04.6	17.7 V		691
1977 EC2	1991 10 04.49638	02 12 04.90	+13 08 59.7			691
1977 EW5	1991 09 14.33929	23 45 21.28	+01 05 22.1	17.3 V		691
1977 EW5	1991 09 14.37551	23 45 19.50	+01 05 15.2			691
1977 EW5	1991 09 14.39582	23 45 18.51	+01 05 11.5			691
1978 SM5	1991 10 05.32314	00 54 00.51	+01 30 05.4			691
1978 SM5	1991 10 05.34380	00 53 59.36	+01 30 00.1	17.2 V		691
1978 SM5	1991 10 05.36432	00 53 58.24	+01 29 54.9			691
1979 HH3	1991 10 14.23318	00 16 16.82	-05 30 40.5	17.6 V		691
1979 HH3	1991 10 14.24982	00 16 15.90	-05 30 42.0			691
1979 HH3	1991 10 14.26632	00 16 14.99	-05 30 43.8			691
1979 MK3	1991 10 14.23904	00 24 44.82	-05 14 20.7	18.5 V		691
1979 MK3	1991 10 14.25568	00 24 44.12	-05 14 25.5			691
1979 MK3	1991 10 14.27219	00 24 43.45	-05 14 29.9			691
1980 DD1	1991 10 02.33547	00 37 11.34	-02 09 37.7	17.2 V		691
1980 DD1	1991 10 02.35577	00 37 10.23	-02 09 41.0			691

1980 DD1	1991 10 02.37618	00 37 09.11	-02 09 44.0					691
1980 TE7	1991 10 07.30153	00 55 45.74	+04 24 38.3	15.5	V			691
1980 TE7	1991 10 07.32181	00 55 44.74	+04 24 24.9					691
1980 TE7	1991 10 07.34232	00 55 43.71	+04 24 10.4					691
1981 EH11	1991 09 09.38114	23 11 47.81	-04 02 04.5					691
1981 EH11	1991 09 09.40204	23 11 46.37	-04 02 00.9	16.3	V			691
1981 EH11	1991 09 09.42275	23 11 44.95	-04 01 57.4					691
1981 EW21	1991 10 06.23183	00 16 21.69	+02 44 10.7					691
1981 EW21	1991 10 06.25252	00 16 20.63	+02 44 03.6	18.9	V			691
1981 EW21	1991 10 06.27296	00 16 19.57	+02 43 56.4					691
1981 EZ23	1991 09 14.33993	23 46 17.41	+01 27 06.8	20.3	V			691
1981 EZ23	1991 09 14.37616	23 46 15.56	+01 26 53.2					691
1981 EZ23	1991 09 14.39647	23 46 14.54	+01 26 45.8					691
1981 EV24	1991 09 08.19023	23 07 30.82	-06 53 27.3	19.7	V			691
1981 EV24	1991 09 08.21125	23 07 29.66	-06 53 32.2					691
1981 EV24	1991 09 08.23212	23 07 28.52	-06 53 37.9					691
1982 QM	1991 10 14.16847	00 19 20.25	-05 41 25.7					691
1982 QM	1991 10 14.18902	00 19 19.52	-05 41 32.4	16.6	V			691
1982 QM	1991 10 14.21361	00 19 18.59	-05 41 40.9					691
1982 QM	1991 10 14.23527	00 19 17.84	-05 41 48.3	16.6	V			691
1982 QM	1991 10 14.25191	00 19 17.22	-05 41 54.1					691
1982 QM	1991 10 14.26842	00 19 16.58	-05 41 59.6					691
1983 HJ	1991 10 07.31063	01 08 54.20	+04 12 51.4					691
1983 HJ	1991 10 07.33092	01 08 53.29	+04 12 45.9	17.8	V			691
1983 HJ	1991 10 07.35143	01 08 52.37	+04 12 40.3					691
1984 SZ5	1991 10 02.20173	00 07 36.60	-01 48 36.5					691
1984 SZ5	1991 10 02.22238	00 07 35.20	-01 48 37.6	17.4	V			691
1984 SZ5	1991 10 02.24258	00 07 33.81	-01 48 37.9					691
1984 UD3	1991 10 05.11299	23 26 15.09	+02 04 05.3	17.0	V			691
1984 UD3	1991 10 05.13476	23 26 14.20	+02 03 53.2					691
1984 UD3	1991 10 05.15768	23 26 13.26	+02 03 40.3					691
1985 CE2	1991 10 03.38362	00 33 23.43	-00 47 00.5					691
1985 CE2	1991 10 03.40514	00 33 22.20	-00 47 09.9	17.2	V			691
1985 CE2	1991 10 03.42558	00 33 21.14	-00 47 18.7					691
1986 CD2	1991 10 06.23492	00 20 49.30	+03 15 50.3	17.6	V			691
1986 CD2	1991 10 06.25560	00 20 47.95	+03 15 46.0					691
1986 CD2	1991 10 06.27605	00 20 46.64	+03 15 41.7					691
1986 RT2	1992 04 07.16217	11 39 06.71	+01 02 21.9					691
1986 RT2	1992 04 07.18697	11 39 05.52	+01 02 28.6	18.0	V			691
1986 RT2	1992 04 07.21464	11 39 04.16	+01 02 36.1					691
1986 VF5	1991 10 06.16960	00 20 11.78	+03 41 52.0	16.8	V			691
1986 VF5	1991 10 06.19034	00 20 10.67	+03 41 49.9					691
1986 VF5	1991 10 06.21085	00 20 09.55	+03 41 47.6					691
1986 WP8	1991 10 05.39482	00 43 02.31	+02 29 44.7	17.6	V			691
1986 WP8	1991 10 05.41602	00 43 01.36	+02 29 38.3					691
1986 WP8	1991 10 05.43690	00 43 00.42	+02 29 31.6					691
1987 DK6	1991 09 13.38630	23 40 47.07	+00 14 34.3	17.4	V			691
1987 DK6	1991 09 13.40852	23 40 45.63	+00 14 27.0					691
1987 DK6	1991 09 13.43120	23 40 44.14	+00 14 20.0					691
1987 QF3	1991 10 01.32913	00 39 51.36	-03 55 17.5	17.3	V			691
1987 QF3	1991 10 01.34942	00 39 50.24	-03 55 26.1					691
1987 QF3	1991 10 01.36979	00 39 49.15	-03 55 34.9					691
1987 QW7	1991 09 12.23366	23 08 09.60	-01 50 19.3					691
1987 QW7	1991 09 12.25580	23 08 08.46	-01 50 27.9	16.6	V			691
1987 QW7	1991 09 12.27813	23 08 07.32	-01 50 35.7					691
1987 SR1	1991 09 13.12741	22 29 27.72	-01 28 45.7	16.6	V			691
1987 SR1	1991 09 13.17328	22 29 25.90	-01 29 18.7					691
1987 SR1	1991 09 13.20637	22 29 24.64	-01 29 40.9					691
1987 SV11	1991 10 04.44235	02 02 28.45	+13 20 22.8					691

1987 SV11	1991	10	04.46382	02	02	27.34	+13	20	19.7	17.1 V 691
1987 SV11	1991	10	04.48970	02	02	25.99	+13	20	16.4	691
1987 UJ	1991	10	08.17523	00	32	49.26	+06	26	23.7	16.7 V 691
1987 UJ	1991	10	08.19419	00	32	48.24	+06	26	19.0	691
1987 UJ	1991	10	08.21342	00	32	47.19	+06	26	14.1	691
1987 VC1	1991	10	13.44236	01	51	08.89	+10	37	41.0	16.4 V 691
1987 VC1	1991	10	13.46468	01	51	07.63	+10	37	37.5	691
1987 VC1	1991	10	13.48713	01	51	06.36	+10	37	33.9	691
1988 AE5	1991	10	07.24194	01	39	50.52	-02	38	23.5	17.4 V 691
1988 AE5	1991	10	07.26402	01	39	49.57	-02	38	32.3	691
1988 AE5	1991	10	07.28362	01	39	48.73	-02	38	40.0	691
1988 XT	1991	10	10.31122	01	11	50.98	+08	53	32.9	17.1 V 691
1988 XT	1991	10	10.33183	01	11	49.70	+08	53	24.9	691
1988 XT	1991	10	10.35244	01	11	48.42	+08	53	17.1	691
1988 XZ	1991	09	13.12458	22	24	55.57	-01	34	28.9	691
1988 XZ	1991	09	13.17046	22	24	53.39	-01	34	44.5	691
1988 XZ	1991	09	13.20354	22	24	51.48	-01	34	55.5	18.0 V 691
1989 CD	1991	10	05.32225	00	52	43.99	+01	58	22.0	691
1989 CD	1991	10	05.34291	00	52	42.78	+01	58	14.9	16.6 V 691
1989 CD	1991	10	05.36344	00	52	41.58	+01	58	07.4	691
1989 EC3	1991	09	30.10338	22	24	40.62	-05	36	53.4	18.1 V 691
1989 EC3	1991	09	30.12058	22	24	40.08	-05	37	01.0	691
1990 DX	1991	09	13.22695	22	59	44.53	-01	08	03.3	16.7 V 691
1990 DX	1991	09	13.24909	22	59	43.29	-01	08	09.4	691
1990 DX	1991	09	13.27141	22	59	42.05	-01	08	16.2	691
1990 DM3	1991	09	15.42895	00	19	09.13	+02	14	22.9	691
1990 DM3	1991	09	15.45149	00	19	07.75	+02	14	18.4	18.0 V 691
1990 DM3	1991	09	15.47342	00	19	06.34	+02	14	14.0	691
1991 PT1	1991	09	08.12538	21	04	25.46	-12	41	50.9	691
1991 PT1	1991	09	08.14691	21	04	24.78	-12	41	57.4	18.8 V 691
1991 PT1	1991	09	08.16828	21	04	24.11	-12	42	02.9	691
1991 PD10	1991	09	30.10863	22	32	14.75	-05	24	25.9	691
1991 PD10	1991	09	30.12582	22	32	14.02	-05	24	27.8	17.4 V 691
1991 PD10	1991	09	30.14474	22	32	13.23	-05	24	29.3	691
1991 PR10	1991	09	14.26010	23	12	23.72	-00	06	29.0	16.6 V 691
1991 PR10	1991	09	14.28042	23	12	22.67	-00	06	40.4	691
1991 PR10	1991	09	14.29962	23	12	21.70	-00	06	51.7	691
1991 PX10	1991	09	15.24090	23	43	12.98	+02	17	11.9	17.1 V 691
1991 PX10	1991	09	15.26112	23	43	12.16	+02	16	55.4	691
1991 PX10	1991	09	15.28121	23	43	11.38	+02	16	38.4	691
1991 PY10	1991	09	14.33097	23	33	21.19	+01	30	58.9	16.8 V 691
1991 PY10	1991	09	14.36720	23	33	19.55	+01	30	39.5	691
1991 PY10	1991	09	14.38751	23	33	18.63	+01	30	28.8	691
1991 PA11	1991	09	15.24108	23	43	28.43	+01	58	11.0	15.3 V 691
1991 PA11	1991	09	15.26130	23	43	27.57	+01	57	58.6	691
1991 PA11	1991	09	15.28139	23	43	26.71	+01	57	46.1	691
1991 PE11	1991	09	05.26486	22	35	48.80	-09	07	04.7	17.1 V 691
1991 PE11	1991	09	05.28534	22	35	47.72	-09	07	07.2	691
1991 PE11	1991	09	05.31410	22	35	46.14	-09	07	11.3	691
1991 PA12	1991	09	15.11336	22	36	02.77	+01	34	00.3	16.9 V 691
1991 PA12	1991	09	15.13352	22	36	01.79	+01	33	53.2	691
1991 PA12	1991	09	15.15389	22	36	00.75	+01	33	45.6	691
1991 PC12	1991	09	15.12193	22	48	25.02	+01	13	40.7	17.7 V 691
1991 PC12	1991	09	15.14210	22	48	24.38	+01	13	23.2	691
1991 PC12	1991	09	15.16247	22	48	23.71	+01	13	04.5	691
1991 PO13	1991	09	04.27075	22	30	04.53	-11	27	40.0	691
1991 PO13	1991	09	04.29148	22	30	03.27	-11	27	40.2	691
1991 PO13	1991	09	04.31321	22	30	01.92	-11	27	40.9	16.8 V 691
1991 PK15	1991	09	09.21233	22	48	30.39	-04	16	06.8	691

1991 PK15	1991 09 09.23380	22 48 29.24	-04 16 10.0	16.3 V	691
1991 PK15	1991 09 09.25441	22 48 28.14	-04 16 12.3		691
1991 PM15	1991 09 09.20448	22 37 10.57	-04 15 05.5	17.1 V	691
1991 PM15	1991 09 09.22595	22 37 09.42	-04 15 10.1		691
1991 PM15	1991 09 09.24656	22 37 08.33	-04 15 14.4		691
1991 PH16	1991 09 15.34779	23 40 23.99	+02 41 30.1	17.1 V	691
1991 PH16	1991 09 15.38098	23 40 21.77	+02 41 27.1		691
1991 PH16	1991 09 15.40286	23 40 20.32	+02 41 25.4		691
1991 PH16	1991 10 05.10944	23 21 07.17	+02 07 19.4	17.5 V	691
1991 PH16	1991 10 05.13120	23 21 06.09	+02 07 17.6		691
1991 PH16	1991 10 05.15412	23 21 04.93	+02 07 15.2		691
1991 PX17	1991 09 04.33737	22 57 21.61	-11 04 03.3	16.7 V	691
1991 PX17	1991 09 04.35805	22 57 20.23	-11 04 06.0		691
1991 PX17	1991 09 04.37898	22 57 18.87	-11 04 08.9		691
1991 PN18	1991 09 15.12153	22 47 50.58	+01 08 20.5	16.3 V	691
1991 PN18	1991 09 15.14169	22 47 49.34	+01 08 14.1		691
1991 PN18	1991 09 15.16206	22 47 48.09	+01 08 07.1		691
1991 QD	1991 09 12.14294	22 22 27.78	-01 45 32.1	15.6 V	691
1991 QD	1991 09 12.16669	22 22 26.39	-01 45 33.9		691
1991 QD	1991 09 12.18883	22 22 25.07	-01 45 36.8		691
1991 RJ	1991 09 14.25990	23 12 05.60	+00 11 37.1	16.3 V	691
1991 RJ	1991 09 14.28021	23 12 04.26	+00 11 38.3		691
1991 RJ	1991 09 14.29940	23 12 03.01	+00 11 39.1		691
1991 RV	1991 09 30.27247	23 56 09.78	-06 11 38.5		691
1991 RV	1991 09 30.29302	23 56 08.88	-06 11 45.3	17.0 V	691
1991 RV	1991 09 30.31375	23 56 07.98	-06 11 51.8		691
1991 RB1	1991 10 09.10932	23 34 28.36	+07 56 08.7	17.0 V	691
1991 RB1	1991 10 09.12970	23 34 27.61	+07 56 00.4		691
1991 RB1	1991 10 09.15015	23 34 26.90	+07 55 52.2		691
1991 RF1	1991 09 08.20017	23 21 51.66	-06 24 00.9		691
1991 RF1	1991 09 08.22118	23 21 50.46	-06 24 11.0	17.4 V	691
1991 RF1	1991 09 08.24206	23 21 49.28	-06 24 21.5		691
1991 RG1	1991 09 08.20143	23 23 41.06	-06 43 40.3		691
1991 RG1	1991 09 08.22245	23 23 39.96	-06 43 45.9		691
1991 RG1	1991 09 08.24332	23 23 38.78	-06 43 51.7	17.5 V	691
1991 RC2	1991 09 12.23174	23 05 23.21	-02 07 45.7	17.2 V	691
1991 RC2	1991 09 12.25388	23 05 21.74	-02 07 48.5		691
1991 RC2	1991 09 12.27620	23 05 20.26	-02 07 51.3		691
1991 RD2	1991 09 10.32797	23 15 23.46	-03 30 39.9	17.4 V	691
1991 RD2	1991 09 10.34843	23 15 22.45	-03 30 45.6		691
1991 RD2	1991 09 10.37247	23 15 21.27	-03 30 52.6		691
1991 RM2	1991 10 01.39471	00 43 29.57	-02 45 17.7	15.6 V	691
1991 RM2	1991 10 01.41508	00 43 28.72	-02 45 33.9		691
1991 RM2	1991 10 01.43549	00 43 27.90	-02 45 50.1		691
1991 RN4	1991 09 08.37850	23 05 51.69	-07 14 25.8	16.6 V	691
1991 RN4	1991 09 08.39990	23 05 50.71	-07 14 39.2		691
1991 RN4	1991 09 08.42040	23 05 49.71	-07 14 53.0		691
1991 RR4	1991 10 11.24238	00 42 10.30	+09 41 38.0		691
1991 RR4	1991 10 11.26290	00 42 09.05	+09 41 32.7	16.3 V	691
1991 RR4	1991 10 11.28360	00 42 07.77	+09 41 28.2		691
1991 RS4	1991 10 10.24240	00 45 42.38	+08 08 36.7	18.0 V	691
1991 RS4	1991 10 10.26371	00 45 41.23	+08 08 30.6		691
1991 RS4	1991 10 10.28512	00 45 40.09	+08 08 25.1		691
1991 RU4	1991 10 09.18560	00 51 14.63	+07 57 04.2	17.3 V	691
1991 RU4	1991 10 09.20852	00 51 13.62	+07 56 53.4		691
1991 RU4	1991 10 09.22994	00 51 12.69	+07 56 44.0		691
1991 RV4	1991 10 10.24435	00 48 31.18	+08 15 37.3		691
1991 RV4	1991 10 10.26566	00 48 30.08	+08 15 29.0	18.0 V	691
1991 RV4	1991 10 10.28707	00 48 28.97	+08 15 21.0		691

1991 RY4	1991 10 09.29529	00 51 58.94	+07 04 10.0				691
1991 RY4	1991 10 09.31584	00 51 57.85	+07 04 03.1	17.7	V		691
1991 RY4	1991 10 09.33627	00 51 56.89	+07 03 55.4				691
1991 RA5	1991 10 10.24246	00 45 47.17	+08 38 55.2	18.2	V		691
1991 RA5	1991 10 10.26377	00 45 45.82	+08 38 49.0				691
1991 RA5	1991 10 10.28517	00 45 44.44	+08 38 43.3				691
1991 RA5	1992 01 02.07814	00 45 14.95	+08 44 31.4	20.0	V		691
1991 RA5	1992 01 02.09848	00 45 16.21	+08 44 39.1				691
1991 RA5	1992 01 02.11943	00 45 17.68	+08 44 46.3				691
1991 RK5	1991 10 05.25204	00 30 32.36	+01 54 56.6				691
1991 RK5	1991 10 05.28064	00 30 30.80	+01 54 54.7	16.5	V		691
1991 RK5	1991 10 05.30117	00 30 29.67	+01 54 53.2				691
1991 RN5	1991 10 03.38360	00 33 19.12	-00 50 21.7	17.2	V		691
1991 RN5	1991 10 03.40512	00 33 17.97	-00 50 30.8				691
1991 RN5	1991 10 03.42556	00 33 16.97	-00 50 39.8				691
1991 RO5	1991 10 01.31932	00 25 36.88	-03 30 39.0				691
1991 RO5	1991 10 01.33961	00 25 35.69	-03 30 41.5				691
1991 RO5	1991 10 01.35999	00 25 34.27	-03 30 41.5	17.9	V		691
1991 RP5	1991 10 01.38443	00 28 39.66	-02 43 09.6				691
1991 RP5	1991 10 01.40481	00 28 38.85	-02 43 22.0	17.7	V		691
1991 RP5	1991 10 01.42522	00 28 38.03	-02 43 34.5				691
1991 RT5	1991 10 01.32438	00 33 00.31	-03 26 23.9	16.4	V		691
1991 RT5	1991 10 01.34467	00 32 59.01	-03 26 25.2				691
1991 RT5	1991 10 01.36504	00 32 57.71	-03 26 26.4				691
1991 RA6	1991 10 14.23537	00 19 26.29	-05 28 06.4				691
1991 RA6	1991 10 14.25200	00 19 25.41	-05 28 07.7	17.4	V		691
1991 RA6	1991 10 14.26851	00 19 24.52	-05 28 08.7				691
1991 RE6	1991 10 02.40844	00 47 09.93	-01 40 10.8	17.6	V		691
1991 RE6	1991 10 02.42918	00 47 08.82	-01 40 13.4				691
1991 RE6	1991 10 02.45003	00 47 07.69	-01 40 16.3				691
1991 RF6	1991 10 01.39264	00 40 31.01	-02 46 15.3	16.5	V		691
1991 RF6	1991 10 01.41302	00 40 29.98	-02 46 22.5				691
1991 RF6	1991 10 01.43343	00 40 28.94	-02 46 30.0				691
1991 RN6	1991 09 08.19451	23 13 41.76	-06 42 04.7	16.7	V		691
1991 RN6	1991 09 08.21553	23 13 40.99	-06 42 24.2				691
1991 RN6	1991 09 08.23641	23 13 40.21	-06 42 43.7				691
1991 RL8	1991 10 07.30587	01 02 01.91	+04 31 46.7				691
1991 RL8	1991 10 07.32615	01 02 00.55	+04 31 47.7	16.6	V		691
1991 RL8	1991 10 07.34666	01 01 59.17	+04 31 48.6				691
1991 RU8	1991 10 06.23620	00 22 39.98	+02 48 02.2	17.4	V		691
1991 RU8	1991 10 06.25688	00 22 38.78	+02 47 56.7				691
1991 RU8	1991 10 06.27733	00 22 37.60	+02 47 50.9				691
1991 RY8	1991 10 06.23910	00 26 50.94	+03 05 55.6	16.4	V		691
1991 RY8	1991 10 06.25978	00 26 49.68	+03 05 51.9				691
1991 RY8	1991 10 06.28022	00 26 48.43	+03 05 48.3				691
1991 RB9	1991 10 06.24525	00 35 43.98	+03 08 07.5	17.4	V		691
1991 RB9	1991 10 06.26594	00 35 42.96	+03 08 00.4				691
1991 RB9	1991 10 06.28638	00 35 41.98	+03 07 53.5				691
1991 RC9	1991 10 05.18533	00 32 15.11	+02 07 15.9	17.2	V		691
1991 RC9	1991 10 05.20582	00 32 13.83	+02 07 12.2				691
1991 RC9	1991 10 05.22763	00 32 12.46	+02 07 07.6				691
1991 RG9	1991 10 07.17886	00 35 23.12	+05 02 05.6	16.3	V		691
1991 RG9	1991 10 07.20034	00 35 21.87	+05 01 55.4				691
1991 RG9	1991 10 07.22073	00 35 20.69	+05 01 45.5				691
1991 RL9	1991 10 08.29560	00 46 06.73	+06 19 59.6	17.3	V		691
1991 RL9	1991 10 08.31720	00 46 05.62	+06 19 51.0				691
1991 RN10	1991 10 09.18577	00 51 29.03	+07 34 32.5				691
1991 RN10	1991 10 09.20868	00 51 27.72	+07 34 29.0	16.0	V		691
1991 RN10	1991 10 09.23010	00 51 26.53	+07 34 25.4				691

1991 RN10	1992 01 02.07979	00 47 37.73	+09 00 09.5	18.3 V	691
1991 RN10	1992 01 02.10012	00 47 38.82	+09 00 17.0		691
1991 RN10	1992 01 02.12107	00 47 40.11	+09 00 24.2		691
1991 RR10	1991 10 10.30206	00 58 37.94	+09 13 07.3	17.7 V	691
1991 RR10	1991 10 10.32267	00 58 36.56	+09 13 05.7		691
1991 RR10	1991 10 10.34328	00 58 35.18	+09 13 03.9		691
1991 RV10	1991 10 07.31033	01 08 27.97	+04 10 52.7	17.5 V	691
1991 RV10	1991 10 07.33061	01 08 26.95	+04 10 48.9		691
1991 RV10	1991 10 07.35112	01 08 25.92	+04 10 44.6		691
1991 RD13	1991 10 06.10363	23 44 25.15	+03 31 37.5		691
1991 RD13	1991 10 06.12430	23 44 24.37	+03 31 33.0	18.1 V	691
1991 RD13	1991 10 06.14687	23 44 23.49	+03 31 28.1		691
1991 RL13	1991 10 06.10440	23 45 31.92	+03 36 02.6	17.8 V	691
1991 RL13	1991 10 06.12506	23 45 30.97	+03 35 56.3		691
1991 RL13	1991 10 06.14764	23 45 29.91	+03 35 49.4		691
1991 RN13	1991 10 09.11660	23 44 59.15	+07 58 18.0		691
1991 RN13	1991 10 09.13698	23 44 58.32	+07 58 10.1	17.6 V	691
1991 RN13	1991 10 09.15742	23 44 57.46	+07 58 01.3		691
1991 RV13	1991 10 07.09973	23 50 28.89	+05 02 31.8		691
1991 RV13	1991 10 07.12030	23 50 28.01	+05 02 20.8	17.0 V	691
1991 RV13	1991 10 07.14409	23 50 26.95	+05 02 07.8		691
1991 RA14	1991 10 07.10206	23 53 51.28	+05 00 06.5		691
1991 RA14	1991 10 07.12264	23 53 50.45	+05 00 03.9	17.9 V	691
1991 RA14	1991 10 07.14642	23 53 49.46	+05 00 01.1		691
1991 RF14	1991 10 06.11729	00 04 08.57	+03 47 04.8	16.8 V	691
1991 RF14	1991 10 06.13796	00 04 07.58	+03 46 52.8		691
1991 RF14	1991 10 06.16053	00 04 06.50	+03 46 39.1		691
1991 RG14	1991 10 08.10779	23 26 46.26	+06 37 17.9	17.5 V	691
1991 RG14	1991 10 08.12832	23 26 45.14	+06 37 19.1		691
1991 RG14	1991 10 08.14962	23 26 43.97	+06 37 21.1		691
1991 RV14	1991 09 15.41983	00 05 59.12	+02 14 57.9	17.5 V	691
1991 RV14	1991 09 15.44237	00 05 58.04	+02 14 48.7		691
1991 RV14	1991 09 15.46430	00 05 56.78	+02 14 43.6		691
1991 RA15	1991 09 13.30566	23 46 54.51	-01 29 02.7		691
1991 RA15	1991 09 13.32781	23 46 53.60	-01 29 10.8	17.4 V	691
1991 RA15	1991 09 13.36403	23 46 51.93	-01 29 21.0		691
1991 RG15	1991 09 15.24815	23 53 40.83	+01 55 28.5		691
1991 RG15	1991 09 15.26837	23 53 39.84	+01 55 23.6		691
1991 RG15	1991 09 15.28845	23 53 38.77	+01 55 19.5	17.7 V	691
1991 RH15	1991 09 15.24818	23 53 43.79	+02 11 59.7		691
1991 RH15	1991 09 15.26840	23 53 42.72	+02 11 49.6	17.1 V	691
1991 RH15	1991 09 15.28848	23 53 41.64	+02 11 38.4		691
1991 RM15	1991 09 15.39163	23 55 43.88	+02 57 27.7		691
1991 RM15	1991 09 15.41350	23 55 42.65	+02 57 22.2	16.5 V	691
1991 RB16	1991 09 30.19975	23 55 59.74	-05 22 18.4	17.5 V	691
1991 RB16	1991 09 30.22105	23 55 58.51	-05 22 21.4		691
1991 RB16	1991 09 30.24157	23 55 57.32	-05 22 24.2		691
1991 RD16	1991 09 30.20271	00 00 15.88	-05 32 11.4		691
1991 RD16	1991 09 30.22401	00 00 14.92	-05 32 22.3	17.6 V	691
1991 RD16	1991 09 30.24454	00 00 14.00	-05 32 33.4		691
1991 RH16	1991 10 01.23973	00 01 06.71	-03 46 01.1		691
1991 RH16	1991 10 01.26646	00 01 05.39	-03 46 13.9	17.1 V	691
1991 RH16	1991 10 01.28311	00 01 04.58	-03 46 21.9		691
1991 RO16	1991 09 30.28151	00 09 13.42	-06 12 56.2	17.6 V	691
1991 RO16	1991 09 30.30207	00 09 12.33	-06 12 59.6		691
1991 RO16	1991 09 30.32279	00 09 11.24	-06 13 03.1		691
1991 RQ16	1991 09 30.28222	00 10 14.90	-06 14 56.4		691
1991 RQ16	1991 09 30.30278	00 10 13.85	-06 15 01.2	17.9 V	691
1991 RQ16	1991 09 30.32350	00 10 12.76	-06 15 06.0		691

1991	RU16	1991	09	30.21037	00	11	19.33	-05	26	47.1	18.0 V	691
1991	RU16	1991	09	30.23166	00	11	17.99	-05	26	47.8		691
1991	RU16	1991	09	30.25219	00	11	16.71	-05	26	49.3		691
1991	RA17	1991	09	29.36826	00	16	58.22	-06	45	18.8	16.5 V	691
1991	RA17	1991	09	29.38941	00	16	56.87	-06	45	19.3		691
1991	RA17	1991	09	29.41059	00	16	55.51	-06	45	19.9		691
1991	RN17	1991	09	13.38797	23	43	12.02	+00	01	34.8	16.8 V	691
1991	RN17	1991	09	13.41020	23	43	11.19	+00	01	16.3		691
1991	RN17	1991	09	13.43288	23	43	10.36	+00	00	56.9		691
1991	RP17	1991	09	13.38866	23	44	11.59	-00	10	55.2	17.2 V	691
1991	RP17	1991	09	13.41088	23	44	09.95	-00	10	53.4		691
1991	RP17	1991	09	13.43355	23	44	08.36	-00	10	51.8		691
1991	RQ17	1991	10	05.10882	23	20	13.73	+02	03	50.1		691
1991	RQ17	1991	10	05.13058	23	20	12.26	+02	03	55.9	17.7 V	691
1991	RQ17	1991	10	05.15349	23	20	10.64	+02	03	59.8		691
1991	RT17	1991	09	12.24016	23	17	33.02	-01	54	20.2	17.0 V	691
1991	RT17	1991	09	12.26231	23	17	32.00	-01	54	27.1		691
1991	RT17	1991	09	12.28463	23	17	30.95	-01	54	33.6		691
1991	RW17	1991	09	13.24182	23	21	12.73	-01	18	56.2	16.7 V	691
1991	RW17	1991	09	13.26396	23	21	11.48	-01	19	06.8		691
1991	RW17	1991	09	13.28628	23	21	10.24	-01	19	17.1		691
1991	RZ17	1991	09	13.29262	23	28	04.74	-01	31	50.0	17.6 V	691
1991	RZ17	1991	09	13.31476	23	28	03.70	-01	32	05.1		691
1991	RZ17	1991	09	13.35098	23	28	01.99	-01	32	30.7		691
1991	RB18	1991	09	13.37836	23	29	19.90	+00	11	14.4		691
1991	RB18	1991	09	13.40059	23	29	18.63	+00	11	11.6	18.1 V	691
1991	RB18	1991	09	13.42327	23	29	17.36	+00	11	07.5		691
1991	RJ18	1991	09	13.38245	23	35	14.05	+00	07	47.7	17.9 V	691
1991	RJ18	1991	09	13.40468	23	35	12.92	+00	07	42.4		691
1991	RJ18	1991	09	13.42736	23	35	11.77	+00	07	37.0		691
1991	RC19	1991	10	05.10535	23	15	13.15	+02	07	48.6	17.1 V	691
1991	RC19	1991	10	05.12712	23	15	12.34	+02	07	44.3		691
1991	RC19	1991	10	05.15004	23	15	11.46	+02	07	39.4		691
1991	RE19	1991	09	15.34164	23	31	30.81	+02	32	51.2	16.6 V	691
1991	RE19	1991	09	15.37483	23	31	28.80	+02	32	46.3		691
1991	RE19	1991	09	15.39671	23	31	27.46	+02	32	43.7		691
1991	RK19	1991	09	15.23501	23	34	42.59	+01	46	55.2	17.6 V	691
1991	RK19	1991	09	15.25523	23	34	41.65	+01	46	48.5		691
1991	RK19	1991	09	15.27531	23	34	40.70	+01	46	42.5		691
1991	RQ19	1991	10	05.11141	23	23	57.55	+02	36	49.9	18.1 V	691
1991	RQ19	1991	10	05.13317	23	23	56.79	+02	36	45.3		691
1991	RQ19	1991	10	05.15610	23	23	55.99	+02	36	40.7		691
1991	RS19	1991	10	05.11186	23	24	37.08	+02	24	06.9		691
1991	RS19	1991	10	05.13362	23	24	36.13	+02	24	04.4		691
1991	RS19	1991	10	05.15655	23	24	35.16	+02	24	01.4	17.9 V	691
1991	RW19	1991	09	15.34853	23	41	28.27	+02	48	39.1	16.7 V	691
1991	RW19	1991	09	15.38173	23	41	26.41	+02	48	25.9		691
1991	RW19	1991	09	15.40361	23	41	25.18	+02	48	17.4		691
1991	RC20	1991	09	15.35213	23	46	39.33	+02	47	34.1		691
1991	RC20	1991	09	15.38532	23	46	37.35	+02	47	18.2	17.0 V	691
1991	RC20	1991	09	15.40719	23	46	36.06	+02	47	07.6		691
1991	RE20	1991	09	15.35382	23	49	05.75	+02	49	26.3	17.2 V	691
1991	RE20	1991	09	15.38701	23	49	03.80	+02	49	22.9		691
1991	RE20	1991	09	15.40889	23	49	02.54	+02	49	21.1		691
1991	RE20	1991	10	05.11638	23	31	08.83	+02	10	58.6		691
1991	RE20	1991	10	05.13815	23	31	07.78	+02	10	56.5	17.8 V	691
1991	RE20	1991	10	05.16107	23	31	06.58	+02	10	53.6		691
1991	RJ20	1991	09	30.26915	23	51	22.48	-06	22	42.9	17.4 V	691
1991	RJ20	1991	09	30.28971	23	51	21.58	-06	22	50.0		691

1991 RJ20		1991	09	30.31043	23	51	20.67	-06 22 56.7	691
1991 RR21		1991	09	08.26346	23	19	54.91	-08 25 37.4	17.3 V 691
1991 RR21		1991	09	08.28391	23	19	53.93	-08 25 44.7	691
1991 RR21		1991	09	08.30710	23	19	52.81	-08 25 52.6	691
1991 RE23		1991	09	17.27414	23	35	48.76	-09 02 45.2	691
1991 RE23		1991	09	17.28536	23	35	48.24	-09 02 50.7	691
1991 RE23		1991	09	17.29566	23	35	47.74	-09 02 55.2	17.4 V 691
1991 RK23		1991	09	17.27762	23	40	49.99	-09 05 39.8	17.2 V 691
1991 RK23		1991	09	17.28884	23	40	49.31	-09 05 43.9	691
1991 RK23		1991	09	17.29913	23	40	48.69	-09 05 47.9	691
1991 RK23		1991	10	02.15764	23	27	50.72	-10 17 23.1	17.6 V 691
1991 RK23		1991	10	02.17306	23	27	49.98	-10 17 26.3	691
1991 RK23		1991	10	02.18654	23	27	49.33	-10 17 28.9	691
1991 RM23		1991	09	17.27830	23	41	48.71	-09 05 39.9	691
1991 RM23		1991	09	17.28952	23	41	48.15	-09 05 45.3	17.3 V 691
1991 RM23		1991	09	17.29981	23	41	47.62	-09 05 50.3	691
1991 RP23		1991	10	02.15649	23	26	11.59	-10 03 35.8	18.0 V 691
1991 RP23		1991	10	02.17191	23	26	10.70	-10 03 33.9	691
1991 RP23		1991	10	02.18539	23	26	09.95	-10 03 32.5	691
1991 RP23		1991	10	16.19298	23	15	18.55	-09 23 41.3	691
1991 RP23		1991	10	16.20581	23	15	18.07	-09 23 38.4	691
1991 RP23		1991	10	16.21841	23	15	17.58	-09 23 35.6	18.4 V 691
1991 RX23		1991	09	08.25562	23	08	36.32	-08 30 44.5	17.7 V 691
1991 RX23		1991	09	08.27608	23	08	35.25	-08 30 47.4	691
1991 RX23		1991	09	08.29926	23	08	34.04	-08 30 50.3	691
1991 RB24		1991	09	08.25805	23	12	06.56	-08 31 15.5	17.0 V 691
1991 RB24		1991	09	08.27850	23	12	05.47	-08 31 25.9	691
1991 RB24		1991	09	08.30169	23	12	04.23	-08 31 36.5	691
1991 RB24		1991	09	12.30237	23	08	42.66	-09 02 33.5	17.2 V 691
1991 RB24		1991	09	12.31273	23	08	42.11	-09 02 38.2	691
1991 RB24		1991	09	12.32254	23	08	41.59	-09 02 42.5	691
1991 RB25		1991	10	07.23804	01	34	12.96	-02 38 00.2	16.8 V 691
1991 RB25		1991	10	07.26012	01	34	11.67	-02 38 03.4	691
1991 RB25		1991	10	07.27972	01	34	10.52	-02 38 06.5	691
1991 RG25		1991	10	07.44788	01	51	33.94	-04 06 51.1	16.9 V 691
1991 RG25		1991	10	07.46466	01	51	33.06	-04 06 55.7	691
1991 RG25		1991	10	07.48160	01	51	32.19	-04 06 59.9	691
1991 RZ26		1991	10	06.44040	01	20	55.44	+03 46 23.8	691
1991 RZ26		1991	10	06.46095	01	20	54.35	+03 46 20.5	17.9 V 691
1991 RZ26		1991	10	06.48139	01	20	53.30	+03 46 17.3	691
1991 RC27		1991	10	06.44269	01	24	13.96	+03 29 14.0	16.7 V 691
1991 RC27		1991	10	06.46323	01	24	12.61	+03 29 17.2	691
1991 RC27		1991	10	06.48367	01	24	11.24	+03 29 19.5	691
1991 RC27		1991	10	07.36826	01	23	14.20	+03 31 29.9	16.5 V 691
1991 RC27		1991	10	07.38894	01	23	12.81	+03 31 32.7	691
1991 RC27		1991	10	07.40928	01	23	11.44	+03 31 35.7	691
1991 RZ27	*	1991	09	08.25807	23	12	08.39	-08 48 22.3	19.8 V 691
1991 RZ27		1991	09	08.27852	23	12	07.20	-08 48 30.0	691
1991 RZ27		1991	09	08.30171	23	12	05.79	-08 48 36.6	691
1991 RZ27		1991	09	12.30225	23	08	20.95	-09 10 00.9	691
1991 RZ27		1991	09	12.31261	23	08	20.36	-09 10 04.0	20.2 V 691
1991 RZ27		1991	09	12.32241	23	08	19.75	-09 10 07.1	691
1991 RA28	*	1991	09	08.25850	23	12	45.63	-08 39 02.7	691
1991 RA28		1991	09	08.27895	23	12	44.52	-08 39 05.6	19.8 V 691
1991 RA28		1991	09	08.30214	23	12	43.16	-08 39 08.3	691
1991 RA28		1991	09	12.30248	23	09	01.59	-08 47 42.9	20.1 V 691
1991 RA28		1991	09	12.31284	23	09	01.00	-08 47 44.9	691
1991 RA28		1991	09	12.32265	23	09	00.44	-08 47 45.4	691
1991 RB28	*	1991	09	08.26127	23	16	45.07	-08 52 07.9	691

1991 RB28		1991	09	08.28172	23	16	43.95	-08	52	17.3	19.4 V	691
1991 RB28		1991	09	08.30491	23	16	42.72	-08	52	27.6		691
1991 RB28		1991	09	12.30528	23	13	13.77	-09	20	53.1	19.7 V	691
1991 RB28		1991	09	12.31564	23	13	13.16	-09	20	58.2		691
1991 RB28		1991	09	12.32544	23	13	12.65	-09	21	01.8		691
1991 RC28	*	1991	09	08.26160	23	17	13.92	-08	25	35.2	18.4 V	691
1991 RC28		1991	09	08.28205	23	17	13.05	-08	25	45.1		691
1991 RC28		1991	09	08.30524	23	17	12.08	-08	25	56.1		691
1991 RC28		1991	09	08.32446	23	17	11.24	-08	26	05.3		691
1991 RC28		1991	09	08.34528	23	17	10.35	-08	26	14.9	17.9 V	691
1991 RC28		1991	09	08.36150	23	17	09.64	-08	26	22.8		691
1991 RC28		1991	09	10.24333	23	15	50.79	-08	41	18.1	18.6 V	691
1991 RC28		1991	09	10.25640	23	15	50.21	-08	41	24.2		691
1991 RC28		1991	09	10.26502	23	15	49.83	-08	41	28.5		691
1991 RC28		1991	09	12.30609	23	14	24.08	-08	57	29.3	18.4 V	691
1991 RC28		1991	09	12.31645	23	14	23.64	-08	57	33.9		691
1991 RC28		1991	09	12.32625	23	14	23.22	-08	57	38.3		691
1991 RC28		1991	09	15.29565	23	12	19.30	-09	20	30.6		691
1991 RC28		1991	09	15.30631	23	12	18.85	-09	20	35.3	18.4 V	691
1991 RC28		1991	09	15.31694	23	12	18.40	-09	20	40.5		691
1991 RC28		1991	09	17.30628	23	10	56.42	-09	35	38.8		691
1991 RC28		1991	09	17.32122	23	10	55.79	-09	35	45.7	18.8 V	691
1991 RC28		1991	09	17.33163	23	10	55.37	-09	35	49.8		691
1991 RD28	*	1991	09	08.26180	23	17	31.20	-08	43	17.0		691
1991 RD28		1991	09	08.28225	23	17	29.86	-08	43	21.2	19.8 V	691
1991 RD28		1991	09	08.30543	23	17	28.32	-08	43	26.2		691
1991 RD28		1991	09	08.32464	23	17	27.04	-08	43	29.6		691
1991 RD28		1991	09	08.34546	23	17	25.63	-08	43	33.1	19.6 V	691
1991 RD28		1991	09	08.36167	23	17	24.57	-08	43	37.1		691
1991 RD28		1991	09	08.45468	23	17	18.39	-08	43	54.3		691
1991 RD28		1991	09	08.46321	23	17	17.86	-08	43	56.0	19.9 V	691
1991 RD28		1991	09	08.47053	23	17	17.40	-08	43	56.3		691
1991 RD28		1991	09	10.24302	23	15	24.51	-08	49	27.8		691
1991 RD28		1991	09	10.25610	23	15	23.65	-08	49	30.4	20.1 V	691
1991 RD28		1991	09	10.26471	23	15	23.07	-08	49	31.7		691
1991 RD28		1991	09	12.30527	23	13	12.83	-08	55	36.9		691
1991 RD28		1991	09	12.31562	23	13	12.13	-08	55	38.7	20.1 V	691
1991 RD28		1991	09	12.32542	23	13	11.49	-08	55	40.0		691
1991 RE28	*	1991	09	08.26181	23	17	32.37	-08	49	26.6	18.0 V	691
1991 RE28		1991	09	08.28227	23	17	31.41	-08	49	32.3		691
1991 RE28		1991	09	08.30546	23	17	30.31	-08	49	38.5		691
1991 RE28		1991	09	10.24347	23	16	02.72	-08	58	16.9	18.3 V	691
1991 RE28		1991	09	10.25654	23	16	02.09	-08	58	20.5		691
1991 RE28		1991	09	10.26515	23	16	01.69	-08	58	22.7		691
1991 RE28		1991	09	12.30615	23	14	28.87	-09	07	19.0	18.2 V	691
1991 RE28		1991	09	12.31650	23	14	28.40	-09	07	21.7		691
1991 RE28		1991	09	12.32631	23	14	27.93	-09	07	24.0		691
1991 RF28	*	1991	09	08.26336	23	19	46.79	-08	46	56.1		691
1991 RF28		1991	09	08.28382	23	19	45.65	-08	47	04.4	18.7 V	691
1991 RF28		1991	09	08.30700	23	19	44.33	-08	47	14.0		691
1991 RF28		1991	09	15.29658	23	13	40.07	-09	33	12.7	18.4 V	691
1991 RF28		1991	09	15.30724	23	13	39.64	-09	33	14.8		691
1991 RF28		1991	09	15.31787	23	13	39.01	-09	33	21.3		691
1991 RG28	*	1991	09	08.26350	23	19	58.31	-08	44	13.7		691
1991 RG28		1991	09	08.28395	23	19	57.03	-08	44	16.0		691
1991 RG28		1991	09	08.30713	23	19	55.60	-08	44	18.9	20.3 V	691
1991 RG28		1991	09	12.30715	23	15	55.81	-08	52	05.0		691
1991 RG28		1991	09	12.31751	23	15	55.18	-08	52	05.2	20.4 V	691
1991 RG28		1991	09	12.32731	23	15	54.54	-08	52	06.7		691

1991 RH28	*	1991	09	08.26353	23	20	01.28	-08	54	44.9	19.7 V	691
1991 RH28		1991	09	08.28398	23	19	59.94	-08	54	45.6		691
1991 RH28		1991	09	08.30716	23	19	58.39	-08	54	44.7		691
1991 RH28		1991	09	12.30704	23	15	45.91	-08	53	15.9		691
1991 RH28		1991	09	12.31739	23	15	45.23	-08	53	14.4		691
1991 RH28		1991	09	12.32719	23	15	44.62	-08	53	14.8	19.3 V	691
1991 RJ28	*	1991	09	08.26546	23	22	48.04	-08	22	48.4		691
1991 RJ28		1991	09	08.28591	23	22	47.12	-08	22	57.1		691
1991 RJ28		1991	09	08.30910	23	22	46.07	-08	23	10.5	20.6 V	691
1991 RJ28		1991	09	15.29922	23	17	28.74	-09	18	14.6	20.2 V	691
1991 RJ28		1991	09	15.30988	23	17	28.25	-09	18	20.5		691
1991 RJ28		1991	09	15.32051	23	17	27.78	-09	18	25.0		691
1991 RJ28		1991	09	17.30976	23	15	58.17	-09	33	34.8	20.6 V	691
1991 RJ28		1991	09	17.32470	23	15	57.39	-09	33	39.9		691
1991 RJ28		1991	09	17.33511	23	15	56.88	-09	33	45.3		691
1991 RK28	*	1991	09	08.32319	23	14	55.43	-08	18	54.5	18.7 V	691
1991 RK28		1991	09	08.34403	23	14	54.54	-08	19	05.3		691
1991 RK28		1991	09	08.36025	23	14	53.82	-08	19	13.4		691
1991 RK28		1991	09	12.30461	23	12	15.60	-08	52	18.0	18.7 V	691
1991 RK28		1991	09	12.31497	23	12	15.13	-08	52	23.3		691
1991 RK28		1991	09	12.32477	23	12	14.74	-08	52	27.7		691
1991 RK28		1991	09	15.29425	23	10	18.47	-09	16	08.8		691
1991 RK28		1991	09	15.30491	23	10	18.03	-09	16	13.8	18.8 V	691
1991 RK28		1991	09	15.31554	23	10	17.60	-09	16	18.7		691
1991 RL28	*	1991	09	08.32469	23	17	31.22	-08	18	06.0		691
1991 RL28		1991	09	08.34551	23	17	30.16	-08	18	16.3	19.6 V	691
1991 RL28		1991	09	08.36173	23	17	29.32	-08	18	24.5		691
1991 RL28		1991	09	10.24342	23	15	58.74	-08	34	01.2		691
1991 RL28		1991	09	10.25650	23	15	58.10	-08	34	06.8		691
1991 RL28		1991	09	10.26511	23	15	57.62	-08	34	11.9	20.2 V	691
1991 RL28		1991	09	12.30604	23	14	19.63	-08	50	45.0	20.0 V	691
1991 RL28		1991	09	12.31640	23	14	19.13	-08	50	50.5		691
1991 RL28		1991	09	12.32620	23	14	18.66	-08	50	55.3		691
1991 RL28		1991	09	15.29541	23	11	58.60	-09	14	09.9		691
1991 RL28		1991	09	15.30607	23	11	58.06	-09	14	15.7		691
1991 RL28		1991	09	15.31670	23	11	57.60	-09	14	19.8	20.1 V	691
1991 RM28	*	1991	09	12.30623	23	14	35.86	-09	16	45.4	20.1 V	691
1991 RM28		1991	09	12.31658	23	14	35.22	-09	16	47.2		691
1991 RM28		1991	09	12.32638	23	14	34.59	-09	16	48.9		691
1991 RM28		1991	09	15.29511	23	11	32.99	-09	27	07.7		691
1991 RM28		1991	09	15.30577	23	11	32.29	-09	27	10.1	20.3 V	691
1991 RM28		1991	09	15.31640	23	11	31.61	-09	27	12.5		691
1991 RN28	*	1991	09	12.30666	23	15	12.97	-08	56	10.0	21.2 V	691
1991 RN28		1991	09	12.31702	23	15	12.61	-08	56	17.2		691
1991 RN28		1991	09	12.32682	23	15	12.16	-08	56	23.5		691
1991 RN28		1991	09	15.29643	23	13	27.48	-09	29	51.0		691
1991 RN28		1991	09	15.30709	23	13	27.04	-09	29	58.2	21.2 V	691
1991 RN28		1991	09	15.31773	23	13	26.64	-09	30	05.3		691
1991 RO28	*	1991	09	12.30667	23	15	14.35	-09	15	40.1		691
1991 RO28		1991	09	12.31703	23	15	13.69	-09	15	43.5	20.5 V	691
1991 RO28		1991	09	12.32683	23	15	13.08	-09	15	45.8		691
1991 RO28		1991	09	15.29561	23	12	15.78	-09	28	48.0		691
1991 RO28		1991	09	15.30626	23	12	15.06	-09	28	50.3		691
1991 RO28		1991	09	15.31689	23	12	14.44	-09	28	53.2	20.3 V	691
1991 RP28	*	1991	09	15.29360	23	09	05.77	-09	39	55.1		691
1991 RP28		1991	09	15.30427	23	09	05.32	-09	39	56.9	19.8 V	691
1991 RP28		1991	09	15.31490	23	09	04.89	-09	39	59.2		691
1991 RP28		1991	09	17.30416	23	07	42.41	-09	46	17.5		691
1991 RP28		1991	09	17.31909	23	07	41.76	-09	46	20.5		691

1991 RP28		1991	09	17.32950	23	07	41.22	-09	46	22.4	20.1 V	691
1991 RQ28	*	1991	09	15.29414	23	10	09.17	-09	47	06.4	18.7 V	691
1991 RQ28		1991	09	15.30480	23	10	08.58	-09	47	04.9		691
1991 RQ28		1991	09	15.31543	23	10	08.02	-09	47	03.3		691
1991 RQ28		1991	09	17.30461	23	08	31.94	-09	41	55.4		691
1991 RQ28		1991	09	17.31955	23	08	31.19	-09	41	53.1		691
1991 RQ28		1991	09	17.32996	23	08	30.67	-09	41	51.1	19.7 V	691
1991 RR28	*	1991	09	15.29424	23	10	17.60	-09	39	22.9	18.4 V	691
1991 RR28		1991	09	15.30490	23	10	17.09	-09	39	25.7		691
1991 RR28		1991	09	15.31553	23	10	16.58	-09	39	28.5		691
1991 RR28		1991	09	17.30478	23	08	46.34	-09	48	11.8		691
1991 RR28		1991	09	17.31971	23	08	45.50	-09	48	14.9		691
1991 RR28		1991	09	17.33012	23	08	45.00	-09	48	17.7	18.6 V	691
1991 RS28	*	1991	09	15.29474	23	11	00.61	-09	39	59.3		691
1991 RS28		1991	09	15.30540	23	11	00.10	-09	40	02.3	18.2 V	691
1991 RS28		1991	09	15.31603	23	10	59.60	-09	40	05.7		691
1991 RS28		1991	09	17.32021	23	09	28.67	-09	49	59.6		691
1991 RS28		1991	09	17.33062	23	09	28.20	-09	50	02.3	18.7 V	691
1991 RT28	*	1991	09	15.29658	23	13	40.02	-09	42	41.6	19.1 V	691
1991 RT28		1991	09	15.30724	23	13	39.36	-09	42	42.1		691
1991 RT28		1991	09	15.31786	23	13	38.69	-09	42	42.4		691
1991 RT28		1991	09	17.30683	23	11	43.89	-09	43	47.2		691
1991 RT28		1991	09	17.32176	23	11	42.98	-09	43	46.6	20.1 V	691
1991 RT28		1991	09	17.33217	23	11	42.39	-09	43	46.7		691
1991 RU28	*	1991	09	15.29825	23	16	04.44	-09	27	45.8		691
1991 RU28		1991	09	15.30890	23	16	03.86	-09	27	48.4	19.0 V	691
1991 RU28		1991	09	15.31953	23	16	03.26	-09	27	50.5		691
1991 RU28		1991	09	17.30862	23	14	18.90	-09	34	57.0		691
1991 RU28		1991	09	17.32355	23	14	18.06	-09	34	59.6		691
1991 RU28		1991	09	17.33396	23	14	17.50	-09	35	02.1	19.5 V	691
1991 RV28	*	1991	09	15.29847	23	16	24.24	-09	47	13.3		691
1991 RV28		1991	09	15.30913	23	16	23.61	-09	47	17.8	20.0 V	691
1991 RV28		1991	09	15.31976	23	16	22.96	-09	47	21.7		691
1991 RV28		1991	09	17.30873	23	14	28.69	-09	59	33.4		691
1991 RV28		1991	09	17.32367	23	14	27.83	-09	59	38.2		691
1991 RV28		1991	09	17.33408	23	14	27.21	-09	59	42.3	20.3 V	691
1991 RW28	*	1991	09	15.29865	23	16	39.07	-09	31	02.9		691
1991 RW28		1991	09	15.30931	23	16	38.57	-09	31	09.4		691
1991 RW28		1991	09	15.31994	23	16	38.12	-09	31	16.3	20.6 V	691
1991 RW28		1991	09	17.32418	23	15	12.68	-09	51	37.6	20.6 V	691
1991 RW28		1991	09	17.33460	23	15	12.26	-09	51	44.1		691
1991 RX28	*	1991	09	15.29885	23	16	56.38	-09	42	34.7		691
1991 RX28		1991	09	15.30950	23	16	55.80	-09	42	37.2		691
1991 RX28		1991	09	15.32013	23	16	55.22	-09	42	38.2	20.1 V	691
1991 RX28		1991	09	17.30927	23	15	15.14	-09	47	50.9		691
1991 RX28		1991	09	17.32420	23	15	14.35	-09	47	53.0	20.5 V	691
1991 RX28		1991	09	17.33461	23	15	13.77	-09	47	55.4		691
1991 RY28	*	1991	09	15.29942	23	17	46.49	-09	46	33.1	19.5 V	691
1991 RY28		1991	09	15.31008	23	17	45.96	-09	46	35.8		691
1991 RY28		1991	09	15.32071	23	17	45.48	-09	46	38.6		691
1991 RY28		1991	09	17.30999	23	16	17.80	-09	54	38.5		691
1991 RY28		1991	09	17.32493	23	16	17.13	-09	54	41.9		691
1991 RY28		1991	09	17.33534	23	16	16.71	-09	54	44.1	20.0 V	691
1991 RZ28	*	1991	09	15.29994	23	18	30.79	-09	24	59.3	21.2 V	691
1991 RZ28		1991	09	15.31059	23	18	30.26	-09	25	02.9		691
1991 RZ28		1991	09	15.32123	23	18	29.75	-09	25	06.3		691
1991 RZ28		1991	09	17.31037	23	16	51.01	-09	33	28.9		691
1991 RZ28		1991	09	17.32531	23	16	50.21	-09	33	33.3		691
1991 RZ28		1991	09	17.33572	23	16	49.70	-09	33	35.8	20.7 V	691

1991 RA29	*	1991	09	15.30077	23	19	42.66	-09 34 16.6	20.0 V	691
1991 RA29		1991	09	15.31142	23	19	41.95	-09 34 18.9		691
1991 RA29		1991	09	15.32205	23	19	41.30	-09 34 20.7		691
1991 RA29		1991	09	17.31099	23	17	43.95	-09 40 10.6	20.9 V	691
1991 RA29		1991	09	17.32592	23	17	42.99	-09 40 12.8		691
1991 RB29	*	1991	09	15.30098	23	20	01.01	-09 34 43.7	19.1 V	691
1991 RB29		1991	09	15.31164	23	20	00.46	-09 34 47.2		691
1991 RB29		1991	09	15.32227	23	19	59.93	-09 34 51.0		691
1991 RB29		1991	09	17.31145	23	18	24.11	-09 46 12.1		691
1991 RB29		1991	09	17.32639	23	18	23.36	-09 46 17.3		691
1991 RB29		1991	09	17.33680	23	18	22.84	-09 46 20.4	19.5 V	691
1991 SL1		1992	01	02.08700	00	58	02.69	+08 38 42.5		691
1991 SL1		1992	01	02.10734	00	58	03.81	+08 38 50.0	19.0 V	691
1991 SN1		1991	10	10.31125	01	11	53.73	+08 52 10.1	16.7 V	691
1991 SN1		1991	10	10.33187	01	11	52.68	+08 51 57.2		691
1991 SN1		1991	10	10.35247	01	11	51.63	+08 51 43.8		691
1991 SU1		1991	09	09.32781	23	28	22.32	-04 43 09.5	17.5 V	691
1991 SU1		1991	09	09.34834	23	28	20.09	-04 42 56.2		691
1991 SU1		1991	09	09.37063	23	28	17.64	-04 42 42.4		691
1991 SX1		1991	09	07.32632	22	40	51.55	-07 28 39.7	17.4 V	691
1991 SX1		1991	09	07.34691	22	40	50.52	-07 28 47.7		691
1991 SE2		1991	09	07.23222	22	50	10.83	-06 52 20.9		691
1991 SE2		1991	09	07.25444	22	50	09.75	-06 52 30.6	15.9 V	691
1991 SE2		1991	09	07.27524	22	50	08.77	-06 52 39.7		691
1991 SJ2		1991	09	15.12191	22	48	23.00	+01 31 34.3		691
1991 SJ2		1991	09	15.14207	22	48	21.85	+01 31 35.5	18.0 V	691
1991 SJ2		1991	09	15.16243	22	48	20.70	+01 31 35.4		691
1991 SK2		1991	09	12.22423	22	54	33.16	-02 10 35.9		691
1991 SK2		1991	09	12.24637	22	54	32.01	-02 10 37.7	17.5 V	691
1991 SK2		1991	09	12.26870	22	54	30.85	-02 10 39.6		691
1991 SS2	*	1991	09	29.37342	00	24	25.17	-06 41 04.1		691
1991 SS2		1991	09	29.39458	00	24	24.10	-06 41 09.9	19.0 V	691
1991 SS2		1991	09	29.41576	00	24	23.02	-06 41 15.1		691
1991 SS2		1991	10	02.25991	00	22	00.86	-06 53 38.8		691
1991 SS2		1991	10	02.28121	00	21	59.73	-06 53 44.6	19.0 V	691
1991 SS2		1991	10	02.30161	00	21	58.67	-06 53 49.8		691
1991 ST2	*	1991	09	29.37760	00	30	26.98	-06 45 24.4	19.5 V	691
1991 ST2		1991	09	29.39876	00	30	25.89	-06 45 30.6		691
1991 ST2		1991	09	29.41994	00	30	24.84	-06 45 36.8		691
1991 ST2		1991	10	02.26414	00	28	07.16	-06 59 32.8		691
1991 ST2		1991	10	02.28544	00	28	06.05	-06 59 38.6		691
1991 ST2		1991	10	02.30584	00	28	05.02	-06 59 44.5	19.3 V	691
1991 SU2	*	1991	09	29.37910	00	32	36.77	-06 54 47.6		691
1991 SU2		1991	09	29.40025	00	32	35.38	-06 54 51.1	16.9 V	691
1991 SU2		1991	09	29.42143	00	32	33.99	-06 54 54.6		691
1991 SU2		1991	10	02.26514	00	29	33.40	-07 01 57.4	16.6 V	691
1991 SU2		1991	10	02.28643	00	29	31.98	-07 02 00.3		691
1991 SU2		1991	10	02.30683	00	29	30.62	-07 02 02.8		691
1991 SV2	*	1991	09	29.43453	02	01	47.80	+11 31 15.6	18.9 V	691
1991 SV2		1991	09	29.45854	02	01	46.86	+11 31 05.4		691
1991 SV2		1991	09	29.48195	02	01	45.87	+11 30 54.9		691
1991 SV2		1991	10	13.37032	01	51	25.09	+09 39 25.6	18.6 V	691
1991 SV2		1991	10	13.39060	01	51	24.06	+09 39 15.4		691
1991 SV2		1991	10	13.42034	01	51	22.45	+09 38 59.7		691
1991 SW2	*	1991	09	29.43590	02	03	47.59	+11 45 32.4	20.6 V	691
1991 SW2		1991	09	29.45991	02	03	46.74	+11 45 25.5		691
1991 SW2		1991	09	29.48332	02	03	45.92	+11 45 19.3		691
1991 SW2		1991	10	13.44454	01	54	18.04	+10 33 38.2		691
1991 SW2		1991	10	13.46687	01	54	16.74	+10 33 29.1	19.3 V	691

1991 SW2		1991	10	13.48931	01	54	15.78	+10	33	23.3		691
1991 SX2	*	1991	09	29.43747	02	06	03.73	+11	42	14.8		691
1991 SX2		1991	09	29.46148	02	06	02.87	+11	42	08.3	20.7 V	691
1991 SX2		1991	09	29.48489	02	06	02.00	+11	42	02.3		691
1991 SX2		1991	10	13.44609	01	56	31.60	+10	35	51.2		691
1991 SX2		1991	10	13.46841	01	56	30.54	+10	35	44.2	20.0 V	691
1991 SX2		1991	10	13.49086	01	56	29.51	+10	35	36.8		691
1991 SY2	*	1991	09	29.43810	02	06	58.65	+11	30	33.1	18.2 V	691
1991 SY2		1991	09	29.46212	02	06	57.90	+11	30	27.9		691
1991 SY2		1991	09	29.48552	02	06	57.13	+11	30	22.9		691
1991 SY2		1991	10	13.44724	01	58	11.58	+10	32	57.0	17.4 V	691
1991 SY2		1991	10	13.46957	01	58	10.58	+10	32	51.1		691
1991 SY2		1991	10	13.49201	01	58	09.57	+10	32	44.5		691
1991 SZ2	*	1991	09	29.44337	02	14	34.39	+11	28	19.4	21.0 V	691
1991 SZ2		1991	09	29.46738	02	14	33.44	+11	28	14.8		691
1991 SZ2		1991	09	29.49078	02	14	32.46	+11	28	09.5		691
1991 SZ2		1991	10	13.45083	02	03	22.17	+10	25	30.5		691
1991 SZ2		1991	10	13.47315	02	03	20.90	+10	25	23.3	20.0 V	691
1991 SZ2		1991	10	13.49559	02	03	19.64	+10	25	17.1		691
1991 SA3	*	1991	09	29.44365	02	14	59.33	+11	45	40.5	19.2 V	691
1991 SA3		1991	09	29.46767	02	14	58.56	+11	45	34.3		691
1991 SA3		1991	09	29.49107	02	14	57.77	+11	45	27.8		691
1991 SA3		1991	10	13.45223	02	05	23.49	+10	30	37.8		691
1991 SA3		1991	10	13.47455	02	05	22.43	+10	30	30.6	18.6 V	691
1991 SA3		1991	10	13.49700	02	05	21.29	+10	30	22.3		691
1991 SB3	*	1991	09	29.44428	02	15	53.68	+11	54	07.0	19.7 V	691
1991 SB3		1991	09	29.46830	02	15	53.05	+11	53	58.9		691
1991 SB3		1991	10	13.45401	02	07	57.78	+10	25	08.8		691
1991 SB3		1991	10	13.47633	02	07	56.85	+10	24	59.2	18.8 V	691
1991 SB3		1991	10	13.49878	02	07	55.90	+10	24	50.1		691
1991 SC3	*	1991	09	29.44445	02	16	08.82	+11	57	35.4	19.6 V	691
1991 SC3		1991	09	29.46847	02	16	08.16	+11	57	26.0		691
1991 SC3		1991	09	29.49188	02	16	07.51	+11	57	14.5		691
1991 SC3		1991	10	13.45366	02	07	28.15	+10	04	47.6		691
1991 SC3		1991	10	13.47599	02	07	27.08	+10	04	35.5		691
1991 SC3		1991	10	13.49844	02	07	26.01	+10	04	24.0	18.8 V	691
1991 SD3	*	1991	09	29.44524	02	17	16.43	+11	30	52.3		691
1991 SD3		1991	09	29.46925	02	17	15.69	+11	30	46.6	20.6 V	691
1991 SD3		1991	09	29.49266	02	17	15.01	+11	30	40.3		691
1991 SD3		1991	10	13.45420	02	08	14.35	+10	16	27.5	20.1 V	691
1991 SD3		1991	10	13.47652	02	08	13.22	+10	16	19.2		691
1991 SD3		1991	10	13.49897	02	08	12.12	+10	16	10.9		691
1991 SE3	*	1991	09	29.44626	02	18	44.92	+11	46	25.0		691
1991 SE3		1991	09	29.47027	02	18	44.23	+11	46	18.4	20.5 V	691
1991 SE3		1991	09	29.49368	02	18	43.50	+11	46	11.3		691
1991 SE3		1991	10	13.45580	02	10	33.38	+10	31	21.1		691
1991 SE3		1991	10	13.47813	02	10	32.42	+10	31	12.8		691
1991 SE3		1991	10	13.50058	02	10	31.51	+10	31	05.3	20.0 V	691
1991 SF3	*	1991	09	30.33421	00	21	20.91	-06	09	40.6	19.9 V	691
1991 SF3		1991	09	30.35477	00	21	20.22	-06	10	00.1		691
1991 SF3		1991	09	30.37525	00	21	19.55	-06	10	19.4		691
1991 SF3		1991	10	02.25915	00	20	22.04	-06	39	56.7		691
1991 SF3		1991	10	02.28045	00	20	21.33	-06	40	16.2	20.1 V	691
1991 SF3		1991	10	02.30087	00	20	20.65	-06	40	35.2		691
1991 SG3	*	1991	09	30.33702	00	25	24.78	-06	26	06.9		691
1991 SG3		1991	09	30.35758	00	25	23.63	-06	26	15.0	19.6 V	691
1991 SG3		1991	09	30.37806	00	25	22.51	-06	26	22.9		691
1991 SG3		1991	10	02.26107	00	23	41.47	-06	38	13.6		691
1991 SG3		1991	10	02.28237	00	23	40.34	-06	38	21.6	19.3 V	691

1991 SG3		1991	10	02.30277	00	23	39.19	-06	38	29.2	691
1991 SH3	*	1991	09	30.33840	00	27	24.05	-06	24	10.8	20.1 V 691
1991 SH3		1991	09	30.35896	00	27	22.99	-06	24	22.7	691
1991 SH3		1991	09	30.37944	00	27	21.91	-06	24	34.1	691
1991 SH3		1991	10	02.26256	00	25	50.48	-06	41	25.1	691
1991 SH3		1991	10	02.28386	00	25	49.42	-06	41	36.5	19.6 V 691
1991 SH3		1991	10	02.30427	00	25	48.36	-06	41	46.6	691
1991 SJ3	*	1991	09	30.33968	00	29	14.92	-06	35	50.6	691
1991 SJ3		1991	09	30.36024	00	29	13.90	-06	35	58.0	18.2 V 691
1991 SJ3		1991	09	30.38072	00	29	12.87	-06	36	05.4	691
1991 SJ3		1991	10	02.26391	00	27	46.84	-06	47	17.5	17.5 V 691
1991 SJ3		1991	10	02.28520	00	27	45.79	-06	47	25.2	691
1991 SJ3		1991	10	02.30561	00	27	44.77	-06	47	32.1	691
1991 SK3	*	1991	09	30.34220	00	32	53.21	-06	19	23.2	19.2 V 691
1991 SK3		1991	09	30.36276	00	32	52.18	-06	19	32.6	691
1991 SK3		1991	09	30.38324	00	32	51.18	-06	19	42.3	691
1991 SK3		1991	10	02.28771	00	31	23.18	-06	34	24.7	691
1991 SK3		1991	10	02.30812	00	31	22.21	-06	34	33.8	18.8 V 691
1991 SL3	*	1991	09	30.34481	00	36	39.21	-06	27	45.0	691
1991 SL3		1991	09	30.36537	00	36	38.08	-06	27	54.9	691
1991 SL3		1991	09	30.38585	00	36	37.00	-06	28	05.5	20.1 V 691
1991 SL3		1991	10	02.26893	00	35	01.87	-06	43	51.9	691
1991 SL3		1991	10	02.29023	00	35	00.76	-06	44	02.2	691
1991 SL3		1991	10	02.31063	00	34	59.64	-06	44	12.5	19.8 V 691
1991 SM3	*	1991	09	30.34576	00	38	01.99	-06	23	26.8	691
1991 SM3		1991	09	30.36633	00	38	01.04	-06	23	40.2	20.0 V 691
1991 SM3		1991	10	02.27008	00	36	41.06	-06	43	51.2	20.0 V 691
1991 SM3		1991	10	02.29137	00	36	40.15	-06	44	03.6	691
1991 SM3		1991	10	02.31178	00	36	39.22	-06	44	17.1	691
1991 SN3	*	1991	09	30.34648	00	39	03.61	-06	20	42.8	19.8 V 691
1991 SN3		1991	09	30.36703	00	39	02.19	-06	20	47.3	691
1991 SN3		1991	09	30.38751	00	39	00.79	-06	20	50.7	691
1991 SN3		1991	10	02.27026	00	36	57.26	-06	26	27.0	691
1991 SN3		1991	10	02.29155	00	36	55.79	-06	26	31.6	691
1991 SN3		1991	10	02.31196	00	36	54.43	-06	26	34.7	19.7 V 691
1991 SO3	*	1991	09	30.34745	00	40	28.05	-06	20	56.6	19.7 V 691
1991 SO3		1991	09	30.36801	00	40	27.00	-06	21	05.8	691
1991 SO3		1991	09	30.38849	00	40	25.96	-06	21	14.1	691
1991 SO3		1991	10	02.27163	00	38	55.27	-06	34	16.5	19.5 V 691
1991 SO3		1991	10	02.29292	00	38	54.23	-06	34	25.3	691
1991 SO3		1991	10	02.31333	00	38	53.18	-06	34	33.5	691
1991 SP3	*	1991	09	30.34773	00	40	52.36	-06	30	09.0	691
1991 SP3		1991	09	30.36829	00	40	50.88	-06	30	06.1	691
1991 SP3		1991	09	30.38876	00	40	49.51	-06	30	03.3	20.5 V 691
1991 SP3		1991	10	14.17313	00	26	03.65	-05	50	46.3	20.3 V 691
1991 SP3		1991	10	14.19367	00	26	02.36	-05	50	42.5	691
1991 SP3		1991	10	14.21825	00	26	00.81	-05	50	37.8	691
1991 SQ3	*	1991	09	30.40164	00	27	35.30	-05	38	04.2	20.2 V 691
1991 SQ3		1991	09	30.42233	00	27	34.13	-05	38	07.4	691
1991 SQ3		1991	10	14.16571	00	15	21.35	-05	56	12.9	19.8 V 691
1991 SQ3		1991	10	14.18626	00	15	20.33	-05	56	13.1	691
1991 SQ3		1991	10	14.21084	00	15	19.06	-05	56	13.9	691
1991 SR3	*	1991	09	30.40462	00	31	53.94	-05	51	08.5	691
1991 SR3		1991	09	30.42532	00	31	52.70	-05	51	08.0	17.6 V 691
1991 SR3		1991	10	14.23481	00	18	38.18	-05	36	29.6	691
1991 SR3		1991	10	14.25145	00	18	37.24	-05	36	27.8	17.7 V 691
1991 SR3		1991	10	14.26796	00	18	36.30	-05	36	26.0	691
1991 SS3	*	1991	09	30.40663	00	34	47.67	-05	49	59.5	691
1991 SS3		1991	09	30.42732	00	34	46.29	-05	49	58.5	19.8 V 691

1991	SS3		1991	10	14.23587	00	20	09.67	-05	20	07.1		691
1991	SS3		1991	10	14.25250	00	20	08.64	-05	20	04.0		691
1991	SS3		1991	10	14.26901	00	20	07.64	-05	20	00.3	19.9 V	691
1991	ST3	*	1991	09	30.41120	00	41	23.60	-05	41	21.7	20.9 V	691
1991	ST3		1991	09	30.43190	00	41	22.22	-05	41	20.5		691
1991	ST3		1991	10	14.24059	00	26	58.77	-05	17	14.6	20.7 V	691
1991	ST3		1991	10	14.25723	00	26	57.79	-05	17	11.7		691
1991	ST3		1991	10	14.27373	00	26	56.76	-05	17	09.2		691
1991	SU3	*	1991	09	30.45944	01	31	26.25	+09	40	56.5	21.4 V	691
1991	SU3		1991	09	30.47641	01	31	25.55	+09	40	48.3		691
1991	SU3		1991	09	30.49502	01	31	24.77	+09	40	39.3		691
1991	SU3		1991	10	10.40213	01	24	09.87	+08	12	39.3		691
1991	SU3		1991	10	10.42319	01	24	08.81	+08	12	27.5	21.0 V	691
1991	SU3		1991	10	10.44531	01	24	07.77	+08	12	15.5		691
1991	SV3	*	1991	09	30.45950	01	31	37.88	+09	42	12.7	20.7 V	691
1991	SV3		1991	09	30.47648	01	31	37.12	+09	42	03.4		691
1991	SV3		1991	09	30.49509	01	31	36.34	+09	41	54.6		691
1991	SV3		1991	10	10.40218	01	24	14.86	+08	16	00.2		691
1991	SV3		1991	10	10.42325	01	24	13.89	+08	15	49.0	20.2 V	691
1991	SV3		1991	10	10.44537	01	24	12.83	+08	15	37.4		691
1991	SW3	*	1991	09	30.45981	01	32	08.32	+09	50	09.5	20.4 V	691
1991	SW3		1991	09	30.47678	01	32	07.60	+09	50	01.9		691
1991	SW3		1991	09	30.49540	01	32	06.85	+09	49	53.3		691
1991	SW3		1991	10	10.40259	01	24	49.80	+08	30	09.3		691
1991	SW3		1991	10	10.42365	01	24	48.76	+08	29	58.6	20.0 V	691
1991	SW3		1991	10	10.44577	01	24	47.74	+08	29	47.8		691
1991	SX3	*	1991	09	30.46113	01	34	02.55	+09	53	23.4		691
1991	SX3		1991	09	30.47810	01	34	01.45	+09	53	23.1	19.9 V	691
1991	SX3		1991	09	30.49671	01	34	00.36	+09	53	22.5		691
1991	SX3		1991	10	13.24424	01	20	14.15	+09	48	28.5	18.7 V	691
1991	SX3		1991	10	13.26476	01	20	12.73	+09	48	26.1		691
1991	SX3		1991	10	13.28529	01	20	11.28	+09	48	27.3		691
1991	SY3	*	1991	09	30.46275	01	36	22.54	+09	32	36.2		691
1991	SY3		1991	09	30.47972	01	36	21.65	+09	32	36.9	18.2 V	691
1991	SY3		1991	09	30.49833	01	36	20.69	+09	32	37.9		691
1991	SY3		1991	10	13.24730	01	24	39.31	+09	36	55.1		691
1991	SY3		1991	10	13.26782	01	24	38.08	+09	36	55.4	17.7 V	691
1991	SY3		1991	10	13.28835	01	24	36.86	+09	36	55.5		691
1991	SZ3	*	1991	09	30.47113	01	48	28.75	+09	45	23.0	19.4 V	691
1991	SZ3		1991	09	30.48810	01	48	27.86	+09	45	24.2		691
1991	SZ3		1991	09	30.50671	01	48	26.96	+09	45	25.5		691
1991	SZ3		1991	10	11.37061	01	38	18.06	+09	55	13.4		691
1991	SZ3		1991	10	11.39126	01	38	16.65	+09	55	13.9		691
1991	SZ3		1991	10	11.41195	01	38	15.33	+09	55	14.0	18.9 V	691
1991	SZ3		1991	10	13.25538	01	36	19.15	+09	56	03.8	19.0 V	691
1991	SZ3		1991	10	13.27590	01	36	17.78	+09	56	04.4		691
1991	SZ3		1991	10	13.29643	01	36	16.40	+09	56	04.9		691
1991	SA4	*	1991	09	30.47214	01	49	55.97	+09	30	10.5	20.7 V	691
1991	SA4		1991	09	30.50772	01	49	54.03	+09	30	16.2		691
1991	SA4		1991	10	13.25611	01	37	22.26	+09	55	00.0	19.7 V	691
1991	SA4		1991	10	13.27663	01	37	20.94	+09	55	01.9		691
1991	SA4		1991	10	13.29716	01	37	19.66	+09	55	04.4		691
1991	TG2		1991	10	09.35793	01	53	47.26	+05	57	41.3	17.0 V	691
1991	TG2		1991	10	09.36486	01	53	46.93	+05	57	41.5		691
1991	TG2		1991	10	09.37177	01	53	46.60	+05	57	41.6		691
1991	TG2		1991	10	10.36421	01	53	01.45	+05	58	22.7	16.9 V	691
1991	TG2		1991	10	10.37118	01	53	01.11	+05	58	23.0		691
1991	TG2		1991	10	10.37883	01	53	00.73	+05	58	23.0		691
1991	TQ2		1991	10	11.23977	00	38	24.40	+09	42	41.9		691

1991 TQ2		1991	10	11.26029	00	38	23.22	+09	42	34.0	17.7 V	691
1991 TQ2		1991	10	11.28100	00	38	21.82	+09	42	25.8		691
1991 TW2		1991	10	11.24298	00	43	02.75	+09	53	21.1		691
1991 TW2		1991	10	11.26351	00	43	01.80	+09	53	13.2	16.6 V	691
1991 TW2		1991	10	11.28422	00	43	00.91	+09	53	05.1		691
1991 TY2		1991	10	11.24393	00	44	24.78	+09	36	09.4	19.3 V	691
1991 TY2		1991	10	11.26445	00	44	23.79	+09	36	02.4		691
1991 TY2		1991	10	11.28516	00	44	22.93	+09	35	55.2		691
1991 TZ2		1991	10	11.24364	00	43	59.86	+09	51	33.4		691
1991 TZ2		1991	10	11.26416	00	43	58.39	+09	51	34.0	18.2 V	691
1991 TZ2		1991	10	11.28486	00	43	57.05	+09	51	34.4		691
1991 TC3		1991	10	10.24309	00	46	42.16	+08	24	03.0	18.5 V	691
1991 TC3		1991	10	10.26440	00	46	40.80	+08	23	57.2		691
1991 TC3		1991	10	10.28580	00	46	39.37	+08	23	51.2		691
1991 TX4		1991	10	14.40532	02	04	50.04	+18	27	27.6	17.0 V	691
1991 TX4		1991	10	14.43007	02	04	48.44	+18	27	25.4		691
1991 TX4		1991	10	14.45543	02	04	46.79	+18	27	23.7		691
1991 TU5		1991	10	10.29779	00	52	28.08	+08	49	03.3		691
1991 TU5		1991	10	10.31841	00	52	26.84	+08	48	57.8	18.8 V	691
1991 TU5		1991	10	10.33901	00	52	25.58	+08	48	52.0		691
1991 TX5		1991	10	05.32668	00	59	07.26	+01	25	55.5	17.4 V	691
1991 TX5		1991	10	05.34734	00	59	05.99	+01	25	52.3		691
1991 TX5		1991	10	05.36786	00	59	04.74	+01	25	48.9		691
1991 TK6		1991	10	07.10718	00	01	14.47	+04	46	17.6		691
1991 TK6		1991	10	07.12775	00	01	13.66	+04	46	09.1	18.2 V	691
1991 TK6		1991	10	07.15154	00	01	12.64	+04	45	59.2		691
1991 TO6		1991	10	07.13172	00	06	57.64	+05	13	27.9	18.1 V	691
1991 TO6		1991	10	07.15551	00	06	56.32	+05	13	27.5		691
1991 TR6		1991	10	07.11274	00	09	16.29	+05	10	46.3	18.7 V	691
1991 TR6		1991	10	07.13331	00	09	15.07	+05	10	38.1		691
1991 TR6		1991	10	07.15709	00	09	13.68	+05	10	29.3		691
1991 TK8	*	1991	10	01.32641	00	35	55.75	-03	29	02.3		691
1991 TK8		1991	10	01.34670	00	35	54.68	-03	29	13.2	17.8 V	691
1991 TK8		1991	10	01.36707	00	35	53.63	-03	29	24.2		691
1991 TK8		1991	10	14.23956	00	25	29.84	-05	13	43.3		691
1991 TK8		1991	10	14.25620	00	25	29.06	-05	13	50.4	18.1 V	691
1991 TK8		1991	10	14.27271	00	25	28.28	-05	13	57.1		691
1991 TL8	*	1991	10	01.32646	00	36	00.42	-03	55	44.0	18.1 V	691
1991 TL8		1991	10	01.34675	00	35	59.43	-03	55	56.5		691
1991 TL8		1991	10	01.36713	00	35	58.45	-03	56	08.8		691
1991 TL8		1991	10	14.17357	00	26	41.66	-05	52	06.5	18.2 V	691
1991 TL8		1991	10	14.19412	00	26	40.81	-05	52	16.4		691
1991 TL8		1991	10	14.21870	00	26	39.80	-05	52	27.9		691
1991 TM8	*	1991	10	01.44662	01	31	57.71	+10	24	50.2	19.3 V	691
1991 TM8		1991	10	01.46760	01	31	56.67	+10	24	47.9		691
1991 TM8		1991	10	01.48856	01	31	55.65	+10	24	45.1		691
1991 TM8		1991	10	13.24529	01	21	45.22	+09	55	02.9	19.0 V	691
1991 TM8		1991	10	13.26581	01	21	44.08	+09	54	59.3		691
1991 TM8		1991	10	13.28635	01	21	42.92	+09	54	55.6		691
1991 TN8	*	1991	10	01.44726	01	32	53.81	+10	11	40.1		691
1991 TN8		1991	10	01.46825	01	32	52.86	+10	11	36.2	19.2 V	691
1991 TN8		1991	10	01.48921	01	32	51.94	+10	11	31.3		691
1991 TN8		1991	10	13.24665	01	23	43.02	+09	24	54.3		691
1991 TN8		1991	10	13.26718	01	23	42.08	+09	24	49.3	19.0 V	691
1991 TN8		1991	10	13.28771	01	23	41.02	+09	24	44.8		691
1991 TO8	*	1991	10	01.44813	01	34	08.62	+10	38	19.4		691
1991 TO8		1991	10	01.46911	01	34	07.44	+10	38	16.1	19.8 V	691
1991 TO8		1991	10	01.49007	01	34	06.31	+10	38	13.3		691
1991 TO8		1991	10	13.32846	01	22	18.32	+10	10	57.1		691

1991 TO8		1991	10	13.34971	01	22	17.00	+10	10 51.2	19.1 V 691
1991 TP8	*	1991	10	01.44822	01	34	16.36	+10	25 59.6	19.6 V 691
1991 TP8		1991	10	01.46920	01	34	15.32	+10	25 53.8	691
1991 TP8		1991	10	01.49016	01	34	14.27	+10	25 48.2	691
1991 TP8		1991	10	13.24670	01	23	47.19	+09	24 08.9	19.4 V 691
1991 TP8		1991	10	13.26722	01	23	45.99	+09	24 02.5	691
1991 TP8		1991	10	13.28775	01	23	44.76	+09	23 55.1	691
1991 TQ8	*	1991	10	01.44853	01	34	44.00	+10	15 21.3	691
1991 TQ8		1991	10	01.46952	01	34	42.93	+10	15 21.1	20.6 V 691
1991 TQ8		1991	10	01.49048	01	34	41.83	+10	15 20.6	691
1991 TQ8		1991	10	13.30882	01	23	44.12	+10	06 44.8	20.0 V 691
1991 TQ8		1991	10	13.32943	01	23	42.82	+10	06 42.3	691
1991 TQ8		1991	10	13.35069	01	23	41.53	+10	06 43.0	691
1991 TR8	*	1991	10	01.44893	01	35	18.02	+10	35 40.3	691
1991 TR8		1991	10	01.46991	01	35	16.80	+10	35 38.4	19.7 V 691
1991 TR8		1991	10	01.49087	01	35	15.58	+10	35 36.8	691
1991 TR8		1991	10	13.30831	01	23	00.40	+10	09 31.9	691
1991 TR8		1991	10	13.32893	01	22	58.98	+10	09 29.8	691
1991 TR8		1991	10	13.35018	01	22	57.52	+10	09 25.4	19.8 V 691
1991 TS8	*	1991	10	01.44934	01	35	54.15	+10	12 23.1	20.0 V 691
1991 TS8		1991	10	01.47033	01	35	53.23	+10	12 18.2	691
1991 TS8		1991	10	01.49130	01	35	52.34	+10	12 13.5	691
1991 TS8		1991	10	13.24893	01	27	00.65	+09	24 16.0	691
1991 TS8		1991	10	13.26946	01	26	59.64	+09	24 11.0	19.4 V 691
1991 TS8		1991	10	13.28999	01	26	58.69	+09	24 05.7	691
1991 TT8	*	1991	10	01.45124	01	38	38.63	+10	19 25.3	20.9 V 691
1991 TT8		1991	10	01.47223	01	38	37.69	+10	19 22.9	691
1991 TT8		1991	10	01.49319	01	38	36.65	+10	19 17.3	691
1991 TT8		1991	10	13.25012	01	28	43.64	+09	38 00.0	691
1991 TT8		1991	10	13.27064	01	28	42.55	+09	37 54.9	20.9 V 691
1991 TT8		1991	10	13.29118	01	28	41.37	+09	37 50.6	691
1991 TU8	*	1991	10	01.45196	01	39	40.89	+10	10 04.1	691
1991 TU8		1991	10	01.47295	01	39	39.86	+10	10 01.1	18.2 V 691
1991 TU8		1991	10	01.49391	01	39	38.78	+10	09 58.4	691
1991 TU8		1991	10	13.25067	01	29	31.15	+09	41 20.6	691
1991 TU8		1991	10	13.27119	01	29	30.01	+09	41 17.3	691
1991 TU8		1991	10	13.29173	01	29	28.87	+09	41 14.0	18.0 V 691
1991 TV8	*	1991	10	01.45302	01	41	12.91	+10	24 49.9	20.0 V 691
1991 TV8		1991	10	01.47401	01	41	12.06	+10	24 43.7	691
1991 TV8		1991	10	01.49498	01	41	11.23	+10	24 38.4	691
1991 TV8		1991	10	13.25289	01	32	43.96	+09	27 12.8	20.0 V 691
1991 TV8		1991	10	13.27342	01	32	43.00	+09	27 06.5	691
1991 TV8		1991	10	13.29396	01	32	42.00	+09	26 59.7	691
1991 TW8	*	1991	10	01.45419	01	42	53.74	+10	34 31.2	691
1991 TW8		1991	10	01.49613	01	42	51.43	+10	34 23.6	20.0 V 691
1991 TW8		1991	10	11.36722	01	33	24.31	+09	58 27.0	19.4 V 691
1991 TW8		1991	10	11.38787	01	33	23.08	+09	58 22.4	691
1991 TW8		1991	10	11.40856	01	33	21.78	+09	58 17.5	691
1991 TW8		1991	10	13.25205	01	31	31.23	+09	50 58.4	19.6 V 691
1991 TW8		1991	10	13.27258	01	31	29.98	+09	50 53.7	691
1991 TW8		1991	10	13.29311	01	31	28.69	+09	50 48.4	691
1991 TX8	*	1991	10	01.45487	01	43	52.63	+10	12 35.8	691
1991 TX8		1991	10	01.47585	01	43	51.69	+10	12 31.4	19.5 V 691
1991 TX8		1991	10	01.49682	01	43	50.73	+10	12 27.6	691
1991 TX8		1991	10	13.25423	01	34	39.70	+09	29 46.9	691
1991 TX8		1991	10	13.27476	01	34	38.64	+09	29 43.3	691
1991 TX8		1991	10	13.29529	01	34	37.57	+09	29 38.2	19.7 V 691
1991 TY8	*	1991	10	01.45628	01	45	55.09	+10	13 12.0	18.4 V 691
1991 TY8		1991	10	01.47727	01	45	54.17	+10	13 07.7	691

1991 TY8		1991	10	01.49823	01	45	53.25	+10	13	03.0		691
1991 TY8		1991	10	13.25562	01	36	39.82	+09	30	33.4	18.2 V	691
1991 TY8		1991	10	13.27614	01	36	38.77	+09	30	28.9		691
1991 TY8		1991	10	13.29668	01	36	37.68	+09	30	23.6		691
1991 TZ8	*	1991	10	01.45811	01	48	33.63	+10	32	05.5		691
1991 TZ8		1991	10	01.47909	01	48	32.26	+10	32	05.3	19.8 V	691
1991 TZ8		1991	10	01.50005	01	48	30.96	+10	32	05.3		691
1991 TZ8		1991	10	13.31683	01	35	18.69	+10	27	43.8	19.2 V	691
1991 TZ8		1991	10	13.33745	01	35	17.22	+10	27	43.2		691
1991 TZ8		1991	10	13.35870	01	35	15.66	+10	27	41.5		691
1991 TA9	*	1991	10	01.46292	01	55	29.87	+10	16	08.3		691
1991 TA9		1991	10	01.48391	01	55	29.12	+10	16	06.1		691
1991 TA9		1991	10	01.50487	01	55	28.38	+10	16	03.4	19.7 V	691
1991 TA9		1991	10	11.37820	01	49	15.62	+09	53	55.6		691
1991 TA9		1991	10	11.39885	01	49	14.73	+09	53	51.7		691
1991 TA9		1991	10	11.41955	01	49	13.88	+09	53	49.1	19.5 V	691
1991 TA9		1991	10	13.36789	01	47	54.65	+09	49	00.3	19.5 V	691
1991 TA9		1991	10	13.38817	01	47	53.79	+09	48	56.8		691
1991 TA9		1991	10	13.41792	01	47	52.63	+09	48	52.2		691
1991 TB9	*	1991	10	03.45421	01	50	43.81	+13	01	36.7		691
1991 TB9		1991	10	03.47532	01	50	42.98	+13	01	28.8	19.7 V	691
1991 TB9		1991	10	03.49339	01	50	42.33	+13	01	21.6		691
1991 TB9		1991	10	04.43410	01	50	07.50	+12	55	17.0	19.9 V	691
1991 TB9		1991	10	04.45557	01	50	06.66	+12	55	08.8		691
1991 TB9		1991	10	04.48146	01	50	05.66	+12	54	58.3		691
1991 TC9	*	1991	10	03.45586	01	53	07.21	+13	11	22.6	19.6 V	691
1991 TC9		1991	10	03.47697	01	53	06.31	+13	11	19.0		691
1991 TC9		1991	10	03.49505	01	53	05.54	+13	11	14.1		691
1991 TC9		1991	10	04.43541	01	52	26.99	+13	07	49.9		691
1991 TC9		1991	10	04.45688	01	52	26.07	+13	07	44.2	21.2 V	691
1991 TC9		1991	10	04.48277	01	52	25.04	+13	07	38.9		691
1991 TD9	*	1991	10	03.45614	01	53	31.01	+13	00	29.2		691
1991 TD9		1991	10	03.47725	01	53	30.15	+13	00	24.3	18.3 V	691
1991 TD9		1991	10	03.49532	01	53	29.45	+13	00	20.4		691
1991 TD9		1991	10	04.43572	01	52	53.62	+12	56	56.3		691
1991 TD9		1991	10	04.45719	01	52	52.70	+12	56	51.4	17.9 V	691
1991 TD9		1991	10	04.48307	01	52	51.63	+12	56	45.5		691
1991 TE9	*	1991	10	03.45672	01	54	21.79	+13	17	49.8		691
1991 TE9		1991	10	03.47784	01	54	20.89	+13	17	43.1	19.9 V	691
1991 TE9		1991	10	03.49591	01	54	20.14	+13	17	36.9		691
1991 TE9		1991	10	04.43626	01	53	41.19	+13	12	25.2		691
1991 TE9		1991	10	04.45774	01	53	40.25	+13	12	18.0	19.5 V	691
1991 TE9		1991	10	04.48362	01	53	39.14	+13	12	08.9		691
1991 TF9	*	1991	10	03.45753	01	55	31.60	+12	52	30.2		691
1991 TF9		1991	10	03.47864	01	55	30.24	+12	52	38.0	18.4 V	691
1991 TF9		1991	10	03.49670	01	55	29.08	+12	52	44.6		691
1991 TF9		1991	10	04.43682	01	54	29.73	+12	58	33.8	18.2 V	691
1991 TF9		1991	10	04.45829	01	54	28.33	+12	58	41.5		691
1991 TF9		1991	10	04.48417	01	54	26.60	+12	58	51.1		691
1991 TG9	*	1991	10	03.45793	01	56	05.95	+13	11	39.2	20.1 V	691
1991 TG9		1991	10	03.47904	01	56	05.14	+13	11	34.0		691
1991 TG9		1991	10	03.49711	01	56	04.40	+13	11	29.8		691
1991 TG9		1991	10	04.43750	01	55	27.93	+13	07	47.9	19.4 V	691
1991 TG9		1991	10	04.45897	01	55	27.06	+13	07	42.4		691
1991 TG9		1991	10	04.48486	01	55	26.01	+13	07	35.9		691
1991 TH9	*	1991	10	03.45818	01	56	27.92	+13	02	41.4		691
1991 TH9		1991	10	03.47929	01	56	27.00	+13	02	16.4	20.9 V	691
1991 TH9		1991	10	03.49736	01	56	26.25	+13	01	54.7		691
1991 TH9		1991	10	11.37900	01	50	24.71	+10	15	58.0		691

1991 TH9		1991	10	11.39965	01	50	23.59	+10	15	30.4	20.5 V	691
1991 TH9		1991	10	11.42034	01	50	22.46	+10	15	02.7		691
1991 TJ9	*	1991	10	03.45876	01	57	18.33	+13	10	28.4	20.0 V	691
1991 TJ9		1991	10	03.47987	01	57	17.35	+13	10	22.2		691
1991 TJ9		1991	10	03.49794	01	57	16.50	+13	10	16.7		691
1991 TJ9		1991	10	04.43825	01	56	33.24	+13	05	38.6	19.6 V	691
1991 TJ9		1991	10	04.45972	01	56	32.18	+13	05	32.2		691
1991 TJ9		1991	10	04.48560	01	56	30.97	+13	05	23.8		691
1991 TK9	*	1991	10	03.45981	01	58	49.42	+13	11	39.1		691
1991 TK9		1991	10	03.48092	01	58	48.48	+13	11	32.7	20.2 V	691
1991 TK9		1991	10	03.49900	01	58	47.69	+13	11	28.0		691
1991 TK9		1991	10	04.43934	01	58	07.69	+13	06	40.6		691
1991 TK9		1991	10	04.46081	01	58	06.65	+13	06	34.3		691
1991 TK9		1991	10	04.48670	01	58	05.47	+13	06	26.2	19.8 V	691
1991 TL9	*	1991	10	03.46126	02	00	55.12	+13	13	15.9	19.4 V	691
1991 TL9		1991	10	03.48238	02	00	54.33	+13	13	09.0		691
1991 TL9		1991	10	03.50045	02	00	53.69	+13	13	02.2		691
1991 TL9		1991	10	04.44086	02	00	19.74	+13	07	26.1		691
1991 TL9		1991	10	04.46234	02	00	18.96	+13	07	17.7	18.9 V	691
1991 TL9		1991	10	04.48823	02	00	17.97	+13	07	08.9		691
1991 TM9	*	1991	10	03.46185	02	01	45.63	+13	06	04.1		691
1991 TM9		1991	10	03.48296	02	01	44.78	+13	05	58.2	20.3 V	691
1991 TM9		1991	10	03.50103	02	01	44.09	+13	05	53.0		691
1991 TM9		1991	10	04.44140	02	01	06.24	+13	01	16.2		691
1991 TM9		1991	10	04.46287	02	01	05.32	+13	01	09.7		691
1991 TM9		1991	10	04.48876	02	01	04.18	+13	01	02.4	19.9 V	691
1991 TN9	*	1991	10	03.46193	02	01	53.15	+13	01	16.8		691
1991 TN9		1991	10	03.48305	02	01	52.30	+13	01	12.6		691
1991 TN9		1991	10	03.50112	02	01	51.59	+13	01	09.0	19.2 V	691
1991 TN9		1991	10	04.44149	02	01	14.33	+12	58	02.2		691
1991 TN9		1991	10	04.46297	02	01	13.41	+12	57	57.6	18.8 V	691
1991 TN9		1991	10	04.48885	02	01	12.38	+12	57	52.3		691
1991 TO9	*	1991	10	06.43659	01	15	02.39	+03	30	50.2	19.5 V	691
1991 TO9		1991	10	06.45713	01	15	01.33	+03	30	44.6		691
1991 TO9		1991	10	06.47757	01	15	00.34	+03	30	39.3		691
1991 TO9		1991	10	07.36207	01	14	17.34	+03	26	36.8		691
1991 TO9		1991	10	07.38275	01	14	16.27	+03	26	30.9	19.5 V	691
1991 TO9		1991	10	07.40309	01	14	15.29	+03	26	25.5		691
1991 TP9	*	1991	10	06.43724	01	16	21.43	+03	29	27.3		691
1991 TP9		1991	10	06.45778	01	16	20.53	+03	29	15.9	19.8 V	691
1991 TP9		1991	10	07.36304	01	15	42.04	+03	20	27.1		691
1991 TP9		1991	10	07.38373	01	15	41.09	+03	20	14.2	19.8 V	691
1991 TP9		1991	10	07.40407	01	15	40.18	+03	20	02.4		691
1991 TQ9	*	1991	10	06.43841	01	18	03.28	+03	23	09.5		691
1991 TQ9		1991	10	06.45896	01	18	02.05	+03	23	07.8	19.8 V	691
1991 TQ9		1991	10	06.47940	01	18	00.78	+03	23	03.9		691
1991 TQ9		1991	10	07.36404	01	17	08.21	+03	21	05.3	19.6 V	691
1991 TQ9		1991	10	07.38472	01	17	06.90	+03	21	02.2		691
1991 TQ9		1991	10	07.40505	01	17	05.63	+03	20	59.1		691
1991 TR9	*	1991	10	06.43968	01	19	52.98	+03	25	56.0		691
1991 TR9		1991	10	06.46023	01	19	51.95	+03	25	52.4		691
1991 TR9		1991	10	06.48067	01	19	50.88	+03	25	49.0	19.4 V	691
1991 TR9		1991	10	07.36541	01	19	07.26	+03	23	13.2	19.2 V	691
1991 TR9		1991	10	07.38609	01	19	06.19	+03	23	09.4		691
1991 TR9		1991	10	07.40643	01	19	05.14	+03	23	06.0		691
1991 TS9	*	1991	10	06.44097	01	21	44.76	+03	33	58.7	19.3 V	691
1991 TS9		1991	10	06.46151	01	21	43.43	+03	33	54.9		691
1991 TS9		1991	10	06.48195	01	21	42.14	+03	33	51.5		691
1991 TS9		1991	10	07.36657	01	20	47.03	+03	31	13.2		691

1991	TS9		1991	10	07.38724	01	20	45.70	+03	31	09.0	19.3 V	691
1991	TS9		1991	10	07.40758	01	20	44.39	+03	31	05.5		691
1991	TT9	*	1991	10	06.44377	01	25	47.66	+03	32	52.8	20.6 V	691
1991	TT9		1991	10	06.46432	01	25	46.65	+03	32	41.2		691
1991	TT9		1991	10	06.48476	01	25	45.62	+03	32	30.0		691
1991	TT9		1991	10	07.36952	01	25	03.04	+03	23	54.7	20.6 V	691
1991	TT9		1991	10	07.39020	01	25	01.99	+03	23	42.5		691
1991	TT9		1991	10	07.41054	01	25	00.99	+03	23	30.7		691
1991	TU9	*	1991	10	06.44409	01	26	15.16	+03	27	32.1		691
1991	TU9		1991	10	06.46464	01	26	13.99	+03	27	26.2		691
1991	TU9		1991	10	06.48508	01	26	12.85	+03	27	19.2	20.3 V	691
1991	TU9		1991	10	07.36976	01	25	23.67	+03	22	14.7	20.1 V	691
1991	TU9		1991	10	07.39044	01	25	22.48	+03	22	08.0		691
1991	TU9		1991	10	07.41077	01	25	21.33	+03	22	00.8		691
1991	TV9	*	1991	10	06.44489	01	27	24.83	+03	30	06.5		691
1991	TV9		1991	10	06.46544	01	27	23.88	+03	29	52.3		691
1991	TV9		1991	10	06.48588	01	27	22.93	+03	29	38.1	19.8 V	691
1991	TV9		1991	10	07.37069	01	26	44.46	+03	19	22.9		691
1991	TV9		1991	10	07.39137	01	26	43.49	+03	19	08.2	19.7 V	691
1991	TV9		1991	10	07.41171	01	26	42.57	+03	18	54.1		691
1991	TW9	*	1991	10	06.44502	01	27	35.42	+03	29	38.9		691
1991	TW9		1991	10	06.46556	01	27	34.27	+03	29	30.2		691
1991	TW9		1991	10	06.48600	01	27	33.10	+03	29	20.9	20.4 V	691
1991	TW9		1991	10	07.37070	01	26	45.39	+03	22	54.9	19.9 V	691
1991	TW9		1991	10	07.39138	01	26	44.18	+03	22	46.0		691
1991	TW9		1991	10	07.41172	01	26	43.04	+03	22	37.5		691
1991	TX9	*	1991	10	06.44516	01	27	48.09	+03	24	01.6	20.4 V	691
1991	TX9		1991	10	06.46571	01	27	47.19	+03	23	49.1		691
1991	TX9		1991	10	06.48615	01	27	46.20	+03	23	37.7		691
1991	TX9		1991	10	07.37095	01	27	07.19	+03	15	19.3	20.2 V	691
1991	TX9		1991	10	07.39163	01	27	06.20	+03	15	07.4		691
1991	TX9		1991	10	07.41198	01	27	05.28	+03	14	56.2		691
1991	TY9	*	1991	10	06.44582	01	28	45.13	+03	30	14.3	18.8 V	691
1991	TY9		1991	10	06.46637	01	28	43.81	+03	30	07.0		691
1991	TY9		1991	10	06.48680	01	28	42.52	+03	30	00.0		691
1991	TY9		1991	10	07.37142	01	27	47.67	+03	25	01.7	18.6 V	691
1991	TY9		1991	10	07.39210	01	27	46.47	+03	24	54.0		691
1991	TY9		1991	10	07.41243	01	27	45.04	+03	24	47.8		691
1991	TZ9	*	1991	10	09.35584	01	50	17.15	+05	48	25.5	18.1 V	691
1991	TZ9		1991	10	09.36277	01	50	16.80	+05	48	22.6		691
1991	TZ9		1991	10	09.36968	01	50	16.45	+05	48	19.6		691
1991	TZ9		1991	10	10.36195	01	49	27.17	+05	41	11.9	18.1 V	691
1991	TZ9		1991	10	10.36893	01	49	26.81	+05	41	08.9		691
1991	TZ9		1991	10	10.37658	01	49	26.41	+05	41	05.8		691
1991	TA10	*	1991	10	09.35607	01	50	55.85	+06	06	26.2	20.6 V	691
1991	TA10		1991	10	09.36300	01	50	55.50	+06	06	24.1		691
1991	TA10		1991	10	09.36991	01	50	55.14	+06	06	21.6		691
1991	TA10		1991	10	10.36217	01	50	04.88	+06	01	06.2		691
1991	TA10		1991	10	10.36915	01	50	04.49	+06	01	03.7	20.3 V	691
1991	TA10		1991	10	10.37680	01	50	04.11	+06	01	01.7		691
1991	TB10	*	1991	10	09.35608	01	50	57.91	+06	12	23.4		691
1991	TB10		1991	10	09.36301	01	50	57.54	+06	12	19.8	18.5 V	691
1991	TB10		1991	10	09.36992	01	50	57.17	+06	12	16.9		691
1991	TB10		1991	10	10.36217	01	50	05.21	+06	05	00.8	18.3 V	691
1991	TB10		1991	10	10.36915	01	50	04.83	+06	04	57.6		691
1991	TB10		1991	10	10.37680	01	50	04.40	+06	04	53.9		691
1991	TC10	*	1991	10	10.36417	01	52	58.30	+05	43	45.7	21.3 V	691
1991	TC10		1991	10	10.37115	01	52	58.03	+05	43	41.9		691
1991	TC10		1991	10	10.37880	01	52	57.72	+05	43	37.7		691

1991	TC10		1991	10	16.36171	01	48	43.71	+04	51	42.0		691
1991	TC10		1991	10	16.36917	01	48	43.39	+04	51	38.7		691
1991	TC10		1991	10	16.38004	01	48	42.86	+04	51	33.4	21.3 V	691
1991	TD10	*	1991	10	10.36484	01	53	56.63	+05	50	28.4	20.9 V	691
1991	TD10		1991	10	10.37182	01	53	56.32	+05	50	23.7		691
1991	TD10		1991	10	10.37947	01	53	55.97	+05	50	19.0		691
1991	TD10		1991	10	16.36218	01	49	24.34	+04	52	21.5	20.6 V	691
1991	TD10		1991	10	16.36964	01	49	23.99	+04	52	17.0		691
1991	TD10		1991	10	16.38051	01	49	23.48	+04	52	11.4		691
1991	TE10	*	1991	10	10.38942	01	05	49.02	+08	31	07.7		691
1991	TE10		1991	10	10.41048	01	05	47.84	+08	30	57.3		691
1991	TE10		1991	10	10.43260	01	05	46.62	+08	30	45.7	19.8 V	691
1991	TE10		1991	10	15.30743	01	01	22.13	+07	49	03.3	19.7 V	691
1991	TE10		1991	10	15.31962	01	01	21.44	+07	48	57.1		691
1991	TE10		1991	10	15.33020	01	01	20.86	+07	48	51.5		691
1991	TF10	*	1991	10	10.38973	01	06	15.99	+08	11	29.1	18.9 V	691
1991	TF10		1991	10	10.41079	01	06	14.79	+08	11	23.6		691
1991	TF10		1991	10	10.43291	01	06	13.51	+08	11	17.0		691
1991	TF10		1991	10	15.30757	01	01	46.98	+07	48	05.4		691
1991	TF10		1991	10	15.31977	01	01	46.28	+07	48	02.1	19.8 V	691
1991	TF10		1991	10	15.33034	01	01	45.70	+07	47	59.2		691
1991	TG10	*	1991	10	10.39206	01	09	37.89	+08	25	41.8	21.0 V	691
1991	TG10		1991	10	10.41312	01	09	36.79	+08	25	33.0		691
1991	TG10		1991	10	10.43524	01	09	35.65	+08	25	22.8		691
1991	TG10		1991	10	15.31000	01	05	32.45	+07	50	23.8	20.6 V	691
1991	TG10		1991	10	15.32219	01	05	31.86	+07	50	19.1		691
1991	TG10		1991	10	15.33276	01	05	31.30	+07	50	13.6		691
1991	TH10	*	1991	10	10.39291	01	10	51.64	+08	33	46.2	19.1 V	691
1991	TH10		1991	10	10.41398	01	10	50.63	+08	33	36.0		691
1991	TH10		1991	10	10.43610	01	10	49.60	+08	33	26.0		691
1991	TH10		1991	10	15.31106	01	07	04.32	+07	55	37.3	19.0 V	691
1991	TH10		1991	10	15.32326	01	07	03.77	+07	55	31.9		691
1991	TH10		1991	10	15.33383	01	07	03.24	+07	55	26.6		691
1991	TJ10	*	1991	10	10.39335	01	11	29.32	+08	24	44.6	20.2 V	691
1991	TJ10		1991	10	10.41441	01	11	28.09	+08	24	36.1		691
1991	TJ10		1991	10	10.43653	01	11	26.83	+08	24	28.0		691
1991	TJ10		1991	10	15.31094	01	06	53.92	+07	54	03.1	20.2 V	691
1991	TJ10		1991	10	15.32313	01	06	53.24	+07	53	59.2		691
1991	TJ10		1991	10	15.33370	01	06	52.64	+07	53	55.0		691
1991	TK10	*	1991	10	10.39376	01	12	05.03	+08	20	05.2	20.1 V	691
1991	TK10		1991	10	10.41482	01	12	03.99	+08	19	59.5		691
1991	TK10		1991	10	10.43694	01	12	02.92	+08	19	53.9		691
1991	TK10		1991	10	15.31183	01	08	11.63	+07	59	14.6		691
1991	TK10		1991	10	15.32403	01	08	11.07	+07	59	11.3	19.7 V	691
1991	TK10		1991	10	15.33460	01	08	10.54	+07	59	08.7		691
1991	TL10	*	1991	10	10.39392	01	12	19.02	+08	04	33.8		691
1991	TL10		1991	10	10.41498	01	12	17.81	+08	04	27.4	18.2 V	691
1991	TL10		1991	10	10.43710	01	12	16.46	+08	04	20.6		691
1991	TL10		1991	10	15.31144	01	07	37.25	+07	39	44.4	18.1 V	691
1991	TL10		1991	10	15.32363	01	07	36.55	+07	39	41.2		691
1991	TL10		1991	10	15.33420	01	07	35.85	+07	39	37.9		691
1991	TM10	*	1991	10	10.39394	01	12	21.04	+08	09	03.8	20.3 V	691
1991	TM10		1991	10	10.41501	01	12	20.03	+08	08	56.9		691
1991	TM10		1991	10	10.43713	01	12	18.95	+08	08	50.0		691
1991	TM10		1991	10	15.31203	01	08	28.58	+07	43	32.6		691
1991	TM10		1991	10	15.32423	01	08	28.01	+07	43	28.5	20.0 V	691
1991	TM10		1991	10	15.33480	01	08	27.49	+07	43	25.6		691
1991	TN10	*	1991	10	10.39424	01	12	46.54	+08	12	56.0		691
1991	TN10		1991	10	10.41530	01	12	45.40	+08	12	50.9	19.6 V	691

1991	TN10		1991	10	10.43742	01	12	44.17	+08	12 45.2	691
1991	TN10		1991	10	15.31200	01	08	26.50	+07	51 56.7	691
1991	TN10		1991	10	15.32420	01	08	25.87	+07	51 54.1 19.4 V	691
1991	TN10		1991	10	15.33477	01	08	25.29	+07	51 51.2	691
1991	TO10	*	1991	10	10.39520	01	14	09.69	+08	26 13.1 19.5 V	691
1991	TO10		1991	10	10.41626	01	14	08.77	+08	26 04.3	691
1991	TO10		1991	10	10.43838	01	14	07.83	+08	25 55.3	691
1991	TO10		1991	10	15.31357	01	10	42.42	+07	52 45.1	691
1991	TO10		1991	10	15.32577	01	10	41.92	+07	52 40.4 19.2 V	691
1991	TO10		1991	10	15.33634	01	10	41.41	+07	52 36.0	691
1991	TP10	*	1991	10	10.39526	01	14	15.10	+08	05 20.5 19.7 V	691
1991	TP10		1991	10	10.41633	01	14	14.25	+08	05 16.8	691
1991	TP10		1991	10	10.43845	01	14	13.32	+08	05 12.7	691
1991	TP10		1991	10	15.31371	01	10	53.99	+07	49 47.2 19.6 V	691
1991	TP10		1991	10	15.32591	01	10	53.50	+07	49 45.0	691
1991	TP10		1991	10	15.33648	01	10	53.07	+07	49 42.5	691
1991	TQ10	*	1991	10	10.39576	01	14	58.16	+08	19 59.2	691
1991	TQ10		1991	10	10.41682	01	14	57.20	+08	19 53.8	691
1991	TQ10		1991	10	10.43894	01	14	56.16	+08	19 48.2 20.3 V	691
1991	TQ10		1991	10	15.31393	01	11	12.95	+07	58 32.8 19.9 V	691
1991	TQ10		1991	10	15.32613	01	11	12.43	+07	58 30.6	691
1991	TQ10		1991	10	15.33670	01	11	11.91	+07	58 27.3	691
1991	TR10	*	1991	10	10.39581	01	15	02.79	+08	10 32.0	691
1991	TR10		1991	10	10.41687	01	15	01.73	+08	10 25.7 20.0 V	691
1991	TR10		1991	10	10.43899	01	15	00.55	+08	10 18.7	691
1991	TR10		1991	10	15.31373	01	10	55.53	+07	45 59.7 19.7 V	691
1991	TR10		1991	10	15.32592	01	10	54.89	+07	45 56.1	691
1991	TR10		1991	10	15.33649	01	10	54.37	+07	45 53.1	691
1991	TS10	*	1991	10	10.39596	01	15	15.98	+08	17 28.6	691
1991	TS10		1991	10	10.41703	01	15	14.87	+08	17 21.0 20.3 V	691
1991	TS10		1991	10	10.43914	01	15	13.69	+08	17 13.5	691
1991	TS10		1991	10	15.31386	01	11	07.38	+07	49 06.0	691
1991	TS10		1991	10	15.32606	01	11	06.75	+07	49 02.2	691
1991	TS10		1991	10	15.33663	01	11	06.18	+07	48 58.4 20.2 V	691
1991	TT10	*	1991	10	10.39675	01	16	24.35	+08	24 15.6	691
1991	TT10		1991	10	10.41782	01	16	23.27	+08	24 03.1	691
1991	TT10		1991	10	10.43993	01	16	22.10	+08	23 50.2 19.8 V	691
1991	TT10		1991	10	15.31471	01	12	20.45	+07	36 38.9	691
1991	TT10		1991	10	15.32690	01	12	19.83	+07	36 32.0 19.9 V	691
1991	TT10		1991	10	15.33748	01	12	19.32	+07	36 25.5	691
1991	TU10	*	1991	10	10.39766	01	17	43.18	+08	20 35.6	691
1991	TU10		1991	10	10.41872	01	17	41.82	+08	20 29.0 18.9 V	691
1991	TU10		1991	10	10.44084	01	17	40.38	+08	20 21.9	691
1991	TU10		1991	10	15.31488	01	12	35.25	+07	54 38.7	691
1991	TU10		1991	10	15.32707	01	12	34.49	+07	54 34.9 18.5 V	691
1991	TU10		1991	10	15.33764	01	12	33.82	+07	54 31.9	691
1991	TV10	*	1991	10	11.12273	00	19	52.55	+19	04 04.4	691
1991	TV10		1991	10	11.14439	00	19	51.44	+19	03 53.1 19.6 V	691
1991	TV10		1991	10	11.17344	00	19	50.00	+19	03 36.6	691
1991	TV10		1991	10	14.09233	00	17	29.70	+18	35 22.7 19.8 V	691
1991	TV10		1991	10	14.11332	00	17	28.66	+18	35 11.2	691
1991	TV10		1991	10	14.13921	00	17	27.43	+18	34 55.7	691
1991	TW10	*	1991	10	11.12938	00	29	28.21	+18	47 53.7	691
1991	TW10		1991	10	11.15103	00	29	27.06	+18	47 47.8 19.1 V	691
1991	TW10		1991	10	11.18008	00	29	25.42	+18	47 39.3	691
1991	TW10		1991	10	14.09868	00	26	51.79	+18	33 22.7 19.1 V	691
1991	TW10		1991	10	14.11967	00	26	50.73	+18	33 16.5	691
1991	TW10		1991	10	14.14555	00	26	49.37	+18	33 09.1	691
1991	TX10	*	1991	10	11.36594	01	31	16.40	+10	20 29.6	691

1991	TX10		1991	10	11.38660	01	31	15.15	+10	20	24.8		691
1991	TX10		1991	10	11.40729	01	31	13.98	+10	20	19.5	19.5 V	691
1991	TX10		1991	10	13.31280	01	29	29.40	+10	12	26.2	19.1 V	691
1991	TX10		1991	10	13.33342	01	29	28.19	+10	12	21.4		691
1991	TX10		1991	10	13.35467	01	29	27.00	+10	12	16.0		691
1991	TY10	*	1991	10	11.36597	01	31	20.37	+10	27	07.9		691
1991	TY10		1991	10	11.38662	01	31	19.57	+10	26	47.3		691
1991	TY10		1991	10	11.40732	01	31	18.79	+10	26	26.8	19.6 V	691
1991	TY10		1991	10	13.25119	01	30	16.50	+09	55	27.3	19.8 V	691
1991	TY10		1991	10	13.27172	01	30	15.69	+09	55	07.5		691
1991	TY10		1991	10	13.29226	01	30	14.94	+09	54	45.7		691
1991	TZ10	*	1991	10	11.36657	01	32	27.90	+10	17	02.2	19.8 V	691
1991	TZ10		1991	10	11.38722	01	32	26.78	+10	16	57.0		691
1991	TZ10		1991	10	11.40791	01	32	25.59	+10	16	50.9		691
1991	TZ10		1991	10	13.31367	01	30	44.43	+10	08	20.9		691
1991	TZ10		1991	10	13.33429	01	30	43.21	+10	08	15.7	19.9 V	691
1991	TZ10		1991	10	13.35554	01	30	42.00	+10	08	10.3		691
1991	TA11	*	1991	10	11.36736	01	33	36.54	+10	18	16.1	19.9 V	691
1991	TA11		1991	10	11.38801	01	33	35.49	+10	18	10.7		691
1991	TA11		1991	10	11.40870	01	33	34.43	+10	18	05.5		691
1991	TA11		1991	10	13.31453	01	31	59.07	+10	10	14.5	19.8 V	691
1991	TA11		1991	10	13.33515	01	31	57.94	+10	10	09.0		691
1991	TA11		1991	10	13.35640	01	31	56.88	+10	10	04.0		691
1991	TB11	*	1991	10	11.36831	01	34	59.25	+10	05	13.4	19.7 V	691
1991	TB11		1991	10	11.38896	01	34	57.91	+10	05	08.5		691
1991	TB11		1991	10	11.40965	01	34	56.56	+10	05	03.8		691
1991	TB11		1991	10	13.25307	01	32	59.64	+09	57	37.2		691
1991	TB11		1991	10	13.27360	01	32	58.32	+09	57	32.4		691
1991	TB11		1991	10	13.29413	01	32	56.97	+09	57	27.0	19.8 V	691
1991	TC11	*	1991	10	11.36945	01	36	37.28	+09	54	35.8		691
1991	TC11		1991	10	11.39010	01	36	36.42	+09	54	23.9	19.8 V	691
1991	TC11		1991	10	11.41079	01	36	35.48	+09	54	12.4		691
1991	TC11		1991	10	13.25470	01	35	20.53	+09	37	47.7	19.6 V	691
1991	TC11		1991	10	13.27523	01	35	19.64	+09	37	37.0		691
1991	TC11		1991	10	13.29576	01	35	18.77	+09	37	25.8		691
1991	TD11	*	1991	10	11.36955	01	36	46.36	+10	14	21.9	20.5 V	691
1991	TD11		1991	10	11.39020	01	36	45.00	+10	14	16.2		691
1991	TD11		1991	10	11.41089	01	36	43.65	+10	14	10.6		691
1991	TD11		1991	10	13.31641	01	34	41.47	+10	05	30.7		691
1991	TD11		1991	10	13.33702	01	34	40.09	+10	05	25.6	20.5 V	691
1991	TD11		1991	10	13.35827	01	34	38.65	+10	05	19.7		691
1991	TE11	*	1991	10	11.37082	01	38	36.36	+10	19	28.1		691
1991	TE11		1991	10	11.39147	01	38	35.33	+10	19	20.8	20.0 V	691
1991	TE11		1991	10	11.41217	01	38	34.32	+10	19	13.7		691
1991	TE11		1991	10	13.31802	01	37	01.61	+10	08	29.1		691
1991	TE11		1991	10	13.33864	01	37	00.53	+10	08	22.7	20.1 V	691
1991	TE11		1991	10	13.35990	01	36	59.44	+10	08	15.6		691
1991	TF11	*	1991	10	11.37512	01	44	48.83	+10	18	22.0		691
1991	TF11		1991	10	11.39578	01	44	48.13	+10	18	03.0	20.2 V	691
1991	TF11		1991	10	11.41647	01	44	47.39	+10	17	44.8		691
1991	TF11		1991	10	13.36502	01	43	41.76	+09	48	11.9		691
1991	TF11		1991	10	13.38531	01	43	41.01	+09	47	53.0		691
1991	TF11		1991	10	13.41506	01	43	39.94	+09	47	25.9	20.5 V	691
1991	TG11	*	1991	10	11.37516	01	44	52.37	+10	15	39.3		691
1991	TG11		1991	10	11.39581	01	44	51.07	+10	15	31.1	19.6 V	691
1991	TG11		1991	10	11.41650	01	44	49.74	+10	15	24.9		691
1991	TG11		1991	10	13.43692	01	42	43.30	+10	04	36.8	20.4 V	691
1991	TG11		1991	10	13.45924	01	42	41.87	+10	04	29.8		691
1991	TG11		1991	10	13.48168	01	42	40.43	+10	04	22.2		691

1991 TH11	*	1991	10	11.37570	01	45	39.23	+10 07 31.6	20.3 V	691
1991 TH11		1991	10	11.39635	01	45	38.07	+10 07 25.8		691
1991 TH11		1991	10	11.41705	01	45	36.94	+10 07 20.8		691
1991 TH11		1991	10	13.36506	01	43	48.26	+09 58 42.2		691
1991 TH11		1991	10	13.38534	01	43	47.08	+09 58 36.0	20.4 V	691
1991 TH11		1991	10	13.41509	01	43	45.44	+09 58 27.9		691
1991 TJ11	*	1991	10	11.37601	01	46	06.18	+09 56 06.6	19.6 V	691
1991 TJ11		1991	10	11.39666	01	46	05.12	+09 55 59.4		691
1991 TJ11		1991	10	11.41736	01	46	04.00	+09 55 52.9		691
1991 TJ11		1991	10	13.36548	01	44	25.71	+09 44 31.8	19.7 V	691
1991 TJ11		1991	10	13.38575	01	44	24.60	+09 44 25.1		691
1991 TJ11		1991	10	13.41550	01	44	23.09	+09 44 14.7		691
1991 TK11	*	1991	10	11.37612	01	46	15.17	+10 07 01.2		691
1991 TK11		1991	10	11.39676	01	46	13.73	+10 07 00.4	18.6 V	691
1991 TK11		1991	10	11.41745	01	46	12.37	+10 07 01.4		691
1991 TK11		1991	10	13.43741	01	44	00.35	+10 08 56.9		691
1991 TK11		1991	10	13.45974	01	43	58.85	+10 08 57.8	18.6 V	691
1991 TK11		1991	10	13.48217	01	43	57.34	+10 08 58.7		691
1991 TL11	*	1991	10	11.37647	01	46	45.98	+10 01 35.0	19.8 V	691
1991 TL11		1991	10	11.39712	01	46	44.84	+10 01 30.7		691
1991 TL11		1991	10	11.41782	01	46	43.69	+10 01 26.4		691
1991 TL11		1991	10	13.36586	01	44	58.72	+09 54 16.5	19.8 V	691
1991 TL11		1991	10	13.38613	01	44	57.60	+09 54 11.4		691
1991 TL11		1991	10	13.41588	01	44	56.00	+09 54 04.8		691
1991 TM11	*	1991	10	11.37675	01	47	09.62	+10 10 17.7		691
1991 TM11		1991	10	11.39739	01	47	08.38	+10 10 14.0	20.1 V	691
1991 TM11		1991	10	11.41809	01	47	07.13	+10 10 09.9		691
1991 TM11		1991	10	13.43820	01	45	08.51	+10 04 13.2	20.6 V	691
1991 TM11		1991	10	13.46052	01	45	07.13	+10 04 09.0		691
1991 TM11		1991	10	13.48297	01	45	05.79	+10 04 04.7		691
1991 TN11	*	1991	10	11.37693	01	47	26.07	+10 25 02.3	19.5 V	691
1991 TN11		1991	10	11.39758	01	47	24.75	+10 25 03.3		691
1991 TN11		1991	10	11.41827	01	47	23.44	+10 25 01.2		691
1991 TN11		1991	10	13.43832	01	45	18.41	+10 24 51.5		691
1991 TN11		1991	10	13.46064	01	45	17.00	+10 24 51.0	19.5 V	691
1991 TN11		1991	10	13.48308	01	45	15.56	+10 24 50.5		691
1991 TO11	*	1991	10	11.37695	01	47	27.76	+09 55 18.3	19.7 V	691
1991 TO11		1991	10	11.39761	01	47	26.62	+09 55 09.6		691
1991 TO11		1991	10	11.41830	01	47	25.41	+09 55 01.0		691
1991 TO11		1991	10	13.36631	01	45	38.11	+09 41 35.5	19.8 V	691
1991 TO11		1991	10	13.38659	01	45	36.93	+09 41 26.9		691
1991 TO11		1991	10	13.41633	01	45	35.27	+09 41 14.5		691
1991 TP11	*	1991	10	11.37699	01	47	30.88	+10 00 32.9	19.8 V	691
1991 TP11		1991	10	11.39764	01	47	29.99	+10 00 27.4		691
1991 TP11		1991	10	11.41834	01	47	29.05	+10 00 21.2		691
1991 TP11		1991	10	13.36664	01	46	05.88	+09 50 57.1		691
1991 TP11		1991	10	13.38691	01	46	04.98	+09 50 50.6	19.9 V	691
1991 TP11		1991	10	13.41666	01	46	03.79	+09 50 41.5		691
1991 TQ11	*	1991	10	11.37892	01	50	17.87	+10 01 12.9		691
1991 TQ11		1991	10	11.39957	01	50	16.58	+10 01 07.5	20.3 V	691
1991 TQ11		1991	10	11.42026	01	50	15.39	+10 01 02.5		691
1991 TQ11		1991	10	13.36821	01	48	22.20	+09 52 24.0		691
1991 TQ11		1991	10	13.38848	01	48	20.95	+09 52 17.8		691
1991 TQ11		1991	10	13.41822	01	48	19.22	+09 52 10.2	20.4 V	691
1991 TR11	*	1991	10	11.37932	01	50	52.38	+09 55 18.6	17.5 V	691
1991 TR11		1991	10	11.39997	01	50	51.24	+09 55 17.2		691
1991 TR11		1991	10	11.42066	01	50	50.12	+09 55 16.4		691
1991 TR11		1991	10	13.36873	01	49	07.21	+09 53 18.7	17.7 V	691
1991 TR11		1991	10	13.38900	01	49	06.10	+09 53 17.8		691

1991 TR11		1991	10	13.41875	01	49	04.48	+09	53	15.5	691
1991 TS11	*	1991	10	11.37940	01	50	59.52	+10	00	38.7	19.9 V 691
1991 TS11		1991	10	11.40005	01	50	58.47	+10	00	34.3	691
1991 TS11		1991	10	11.42075	01	50	57.44	+10	00	30.3	691
1991 TS11		1991	10	13.38920	01	49	23.11	+09	53	02.9	691
1991 TS11		1991	10	13.41894	01	49	21.60	+09	52	55.8	19.8 V 691
1991 TT11	*	1991	10	11.38036	01	52	22.78	+10	07	59.7	691
1991 TT11		1991	10	11.40101	01	52	21.48	+10	08	00.8	18.1 V 691
1991 TT11		1991	10	11.42170	01	52	20.16	+10	08	01.7	691
1991 TT11		1991	10	13.44172	01	50	12.92	+10	09	33.0	691
1991 TT11		1991	10	13.46404	01	50	11.44	+10	09	34.4	19.1 V 691
1991 TT11		1991	10	13.48648	01	50	09.99	+10	09	35.3	691
1991 TU11	*	1991	10	11.38074	01	52	55.95	+10	24	12.7	691
1991 TU11		1991	10	11.40139	01	52	54.91	+10	24	02.7	18.8 V 691
1991 TU11		1991	10	11.42209	01	52	53.87	+10	23	52.1	691
1991 TU11		1991	10	13.44243	01	51	14.97	+10	07	21.1	691
1991 TU11		1991	10	13.46476	01	51	13.78	+10	07	11.3	691
1991 TU11		1991	10	13.48720	01	51	12.68	+10	06	58.8	18.7 V 691
1991 TV11	*	1991	10	11.38098	01	53	16.31	+10	18	54.0	691
1991 TV11		1991	10	11.40163	01	53	15.06	+10	18	52.2	691
1991 TV11		1991	10	11.42232	01	53	13.84	+10	18	50.0	19.9 V 691
1991 TV11		1991	10	13.44247	01	51	17.91	+10	15	28.3	19.9 V 691
1991 TV11		1991	10	13.46479	01	51	16.58	+10	15	25.9	691
1991 TV11		1991	10	13.48723	01	51	15.23	+10	15	23.1	691
1991 TW11	*	1991	10	11.38137	01	53	49.94	+10	22	25.5	19.3 V 691
1991 TW11		1991	10	11.40202	01	53	48.80	+10	22	25.5	691
1991 TW11		1991	10	11.42271	01	53	47.66	+10	22	25.6	691
1991 TW11		1991	10	13.44293	01	51	58.49	+10	22	21.5	691
1991 TW11		1991	10	13.46526	01	51	57.20	+10	22	21.1	19.0 V 691
1991 TW11		1991	10	13.48770	01	51	55.98	+10	22	21.1	691
1991 TX11	*	1991	10	11.38165	01	54	14.88	+10	10	10.1	17.0 V 691
1991 TX11		1991	10	11.40231	01	54	13.77	+10	10	10.8	691
1991 TX11		1991	10	11.42300	01	54	12.64	+10	10	11.0	691
1991 TX11		1991	10	13.44328	01	52	28.27	+10	11	29.7	16.9 V 691
1991 TX11		1991	10	13.46560	01	52	27.03	+10	11	30.4	691
1991 TX11		1991	10	13.48804	01	52	25.80	+10	11	31.0	691
1991 TY11	*	1991	10	11.38177	01	54	25.08	+10	19	49.9	691
1991 TY11		1991	10	11.40242	01	54	23.99	+10	19	49.0	18.0 V 691
1991 TY11		1991	10	11.42312	01	54	22.92	+10	19	48.4	691
1991 TY11		1991	10	13.44339	01	52	38.13	+10	18	48.2	18.2 V 691
1991 TY11		1991	10	13.46572	01	52	36.92	+10	18	47.3	691
1991 TY11		1991	10	13.48816	01	52	35.73	+10	18	46.5	691
1991 TZ11	*	1991	10	11.38201	01	54	45.44	+10	16	31.6	691
1991 TZ11		1991	10	11.40266	01	54	44.32	+10	16	26.7	20.8 V 691
1991 TZ11		1991	10	11.42335	01	54	43.20	+10	16	21.7	691
1991 TZ11		1991	10	13.46588	01	52	50.76	+10	08	39.3	21.1 V 691
1991 TZ11		1991	10	13.48832	01	52	49.54	+10	08	33.7	691
1991 TA12	*	1991	10	11.38279	01	55	53.01	+09	55	07.2	17.8 V 691
1991 TA12		1991	10	11.40344	01	55	52.07	+09	55	02.5	691
1991 TA12		1991	10	11.42414	01	55	51.12	+09	54	58.0	691
1991 TA12		1991	10	13.37240	01	54	25.31	+09	47	48.3	691
1991 TA12		1991	10	13.39268	01	54	24.37	+09	47	43.8	17.9 V 691
1991 TA12		1991	10	13.42242	01	54	22.96	+09	47	37.0	691
1991 TB12	*	1991	10	11.38319	01	56	27.58	+09	58	04.4	16.7 V 691
1991 TB12		1991	10	11.40384	01	56	26.41	+09	57	56.2	691
1991 TB12		1991	10	11.42453	01	56	25.26	+09	57	48.2	691
1991 TB12		1991	10	13.37258	01	54	41.17	+09	45	06.9	17.3 V 691
1991 TB12		1991	10	13.39286	01	54	40.04	+09	44	58.8	691
1991 TB12		1991	10	13.42260	01	54	38.31	+09	44	47.2	691

1991	TC12	*	1991	10	11.43938	01	49	59.40	+18	44	31.2	18.7 V	691
1991	TC12		1991	10	11.46149	01	49	58.01	+18	44	28.5		691
1991	TC12		1991	10	11.48229	01	49	56.69	+18	44	25.9		691
1991	TC12		1991	10	14.39326	01	46	58.09	+18	37	24.5		691
1991	TC12		1991	10	14.41802	01	46	56.49	+18	37	19.7	18.9 V	691
1991	TC12		1991	10	14.44340	01	46	54.83	+18	37	15.8		691
1991	TD12	*	1991	10	11.44254	01	54	33.54	+18	55	45.2	19.1 V	691
1991	TD12		1991	10	11.46466	01	54	32.53	+18	55	37.7		691
1991	TD12		1991	10	11.48546	01	54	31.59	+18	55	29.0		691
1991	TD12		1991	10	14.39670	01	52	23.61	+18	37	05.1	18.6 V	691
1991	TD12		1991	10	14.42146	01	52	22.45	+18	36	55.3		691
1991	TD12		1991	10	14.44683	01	52	21.30	+18	36	45.1		691
1991	TE12	*	1991	10	14.09717	00	24	41.25	+18	04	36.8		691
1991	TE12		1991	10	14.11816	00	24	40.00	+18	04	30.2	17.0 V	691
1991	TE12		1991	10	14.14404	00	24	38.43	+18	04	21.3		691
1991	TE12		1991	10	15.08902	00	23	43.42	+17	58	53.3	17.2 V	691
1991	TE12		1991	10	15.11043	00	23	42.17	+17	58	47.0		691
1991	TE12		1991	10	15.13137	00	23	40.91	+17	58	39.3		691
1991	TF12	*	1991	10	14.10466	00	35	30.16	+18	08	37.7	18.8 V	691
1991	TF12		1991	10	14.12565	00	35	29.23	+18	08	24.5		691
1991	TF12		1991	10	14.15154	00	35	28.00	+18	08	09.9		691
1991	TF12		1991	10	15.09666	00	34	45.79	+17	58	43.4	19.0 V	691
1991	TF12		1991	10	15.11808	00	34	44.87	+17	58	30.5		691
1991	TF12		1991	10	15.13902	00	34	43.90	+17	58	17.7		691
1991	TG12	*	1991	10	14.47943	09	11	21.97	+18	31	31.5		691
1991	TG12		1991	10	14.49469	09	11	23.67	+18	31	28.7	19.5 V	691
1991	TG12		1991	10	14.50969	09	11	25.18	+18	31	26.5		691
1991	TG12		1991	10	15.48056	09	13	11.22	+18	28	10.7		691
1991	TG12		1991	10	15.49643	09	13	12.82	+18	28	08.4	19.8 V	691
1991	VR2		1991	10	10.46542	03	20	10.27	+08	48	08.6	17.9 V	691
1991	VR2		1991	10	10.48432	03	20	08.94	+08	48	19.0		691
1991	VR2		1991	10	10.50298	03	20	07.64	+08	48	29.6		691
1991	VR2		1991	11	04.21624	02	43	54.80	+12	42	39.7		691
1991	VR2		1991	11	04.23882	02	43	52.55	+12	42	52.0	17.2 V	691
1991	VR2		1991	11	04.26123	02	43	50.30	+12	43	04.3		691
1991	VV2		1991	09	14.43721	04	01	52.41	+27	39	45.0		691
1991	VV2		1991	09	14.45793	04	01	53.30	+27	39	57.6		691
1991	VV2		1991	09	14.48021	04	01	54.25	+27	40	11.2	17.1 V	691
1991	VP12	*	1991	11	11.49300	04	40	50.41	+20	36	07.2	19.2 V	691
1991	VP12		1991	11	11.51274	04	40	49.29	+20	36	06.7		691
1991	VP12		1991	11	11.53250	04	40	48.15	+20	36	07.8		691
1991	VP12		1991	12	14.15808	04	07	42.37	+20	25	47.3		691
1991	VP12		1991	12	14.18234	04	07	40.96	+20	25	47.2		691
1991	VP12		1991	12	14.20564	04	07	39.63	+20	25	46.4	19.8 V	691
1991	VP12		1992	01	01.15178	03	54	54.40	+20	25	07.1		691
1991	VP12		1992	01	01.17082	03	54	53.82	+20	25	07.5	20.4 V	691
1991	VP12		1992	01	01.18882	03	54	53.26	+20	25	08.0		691
1991	VQ12	*	1991	11	11.49312	04	41	01.45	+20	24	31.1	19.3 V	691
1991	VQ12		1991	11	11.51287	04	41	00.53	+20	24	29.2		691
1991	VQ12		1991	11	11.53264	04	40	59.67	+20	24	28.6		691
1991	VQ12		1991	12	07.34837	04	18	24.39	+19	49	02.0		691
1991	VQ12		1991	12	07.37145	04	18	23.12	+19	48	59.8	19.4 V	691
1991	VQ12		1991	12	07.39310	04	18	21.95	+19	48	57.4		691
1991	XD2	*	1991	12	08.29181	04	28	33.99	+21	05	37.4		691
1991	XD2		1991	12	08.31364	04	28	32.53	+21	05	35.8	17.9 V	691
1991	XD2		1991	12	08.33574	04	28	31.00	+21	05	33.9		691
1991	XD2		1992	01	01.15989	04	06	36.93	+20	39	03.8		691
1991	XD2		1992	01	01.17893	04	06	36.17	+20	39	03.2	19.7 V	691
1991	XD2		1992	01	01.19693	04	06	35.42	+20	39	02.5		691

1992	AW2	*	1992	01	01.37718	08	37	13.93	+21 20 08.8		691
1992	AW2		1992	01	01.39895	08	37	12.86	+21 20 16.9		691
1992	AW2		1992	01	01.42094	08	37	11.80	+21 20 25.5	19.2 V	691
1992	AW2		1992	01	29.19831	08	08	33.76	+24 22 16.0	19.1 V	691
1992	AW2		1992	01	29.22211	08	08	32.07	+24 22 24.3		691
1992	AW2		1992	01	30.21111	08	07	27.51	+24 27 52.6		691
1992	AW2		1992	01	30.23728	08	07	25.77	+24 28 01.3	19.5 V	691
1992	AW2		1992	01	30.26403	08	07	24.04	+24 28 10.0		691
1992	AX2	*	1992	01	02.35505	08	10	32.13	+18 32 53.3		691
1992	AX2		1992	01	02.37634	08	10	31.13	+18 32 57.3	20.1 V	691
1992	AX2		1992	01	02.39750	08	10	30.01	+18 33 00.5		691
1992	AX2		1992	02	01.10621	07	44	48.12	+20 07 46.9		691
1992	AX2		1992	02	01.13118	07	44	46.86	+20 07 51.0	19.9 V	691
1992	AX2		1992	02	01.15256	07	44	45.83	+20 07 54.7		691
1992	HD		1992	05	02.31224	14	35	50.41	-08 59 41.9	16.2 V	691
1992	HD		1992	05	02.33680	14	35	49.10	-08 59 36.4		691
1992	HD		1992	05	02.36376	14	35	47.66	-08 59 30.9		691
1992	HJ		1992	04	08.44885	15	25	09.63	-09 47 31.3	16.4 V	691
1992	HJ		1992	04	08.47153	15	25	09.08	-09 47 26.0		691
1992	HJ		1992	04	08.49468	15	25	08.55	-09 47 20.4		691
2536	P-L		1991	09	30.20113	23	57	59.00	-05 41 44.3	16.7 V	691
2536	P-L		1991	09	30.22242	23	57	57.62	-05 41 44.2		691
2536	P-L		1991	09	30.24295	23	57	56.28	-05 41 44.1		691
9521	P-L		1991	10	04.36024	00	42	38.76	+00 48 37.3	16.5 V	691
9521	P-L		1991	10	04.38136	00	42	37.53	+00 48 29.2		691
9521	P-L		1991	10	04.40444	00	42	36.18	+00 48 20.0		691
1114	T-1		1991	10	07.17154	00	24	48.79	+05 14 41.0	16.5 V	691
1114	T-1		1991	10	07.19301	00	24	47.73	+05 14 30.2		691
1114	T-1		1991	10	07.21342	00	24	46.71	+05 14 19.7		691
3105	T-1		1991	09	10.32867	23	16	23.74	-03 23 17.7	18.6 V	691
3105	T-1		1991	09	10.34913	23	16	22.57	-03 23 23.7		691
3105	T-1		1991	09	10.37316	23	16	21.19	-03 23 31.6		691
3196	T-1		1991	10	09.28967	00	43	52.07	+06 54 02.8		691
3196	T-1		1991	10	09.31022	00	43	51.06	+06 53 56.4	17.9 V	691
3196	T-1		1991	10	09.33065	00	43	50.04	+06 53 49.8		691
1266	T-2		1991	09	10.34146	23	34	51.77	-03 13 32.6	17.5 V	691
1266	T-2		1991	09	10.36192	23	34	50.49	-03 13 36.1		691
1266	T-2		1991	09	10.38595	23	34	48.98	-03 13 39.5		691
1617	T-2		1991	09	08.19054	23	07	57.83	-06 56 25.2		691
1617	T-2		1991	09	08.21156	23	07	56.55	-06 56 31.1	17.0 V	691
1617	T-2		1991	09	08.23243	23	07	55.26	-06 56 36.6		691
2087	T-2		1991	09	13.29763	23	35	18.79	-01 23 19.8	17.4 V	691
2087	T-2		1991	09	13.31977	23	35	17.60	-01 23 24.4		691
2087	T-2		1991	09	13.35599	23	35	15.63	-01 23 31.8		691
4047	T-2		1991	09	09.46690	01	11	40.96	+05 49 09.9	18.6 V	691
4047	T-2		1991	09	09.48252	01	11	40.31	+05 49 10.2		691
4047	T-2		1991	09	09.49742	01	11	39.70	+05 49 11.0		691
4047	T-2		1991	10	08.24289	00	45	58.87	+05 37 41.5		691
4047	T-2		1991	10	08.26345	00	45	57.57	+05 37 39.8	17.9 V	691
4047	T-2		1991	10	08.28391	00	45	56.28	+05 37 38.8		691
4253	T-2		1991	09	08.25628	23	09	33.09	-08 42 28.8		691
4253	T-2		1991	09	08.27673	23	09	32.23	-08 42 41.6	17.7 V	691
4253	T-2		1991	09	08.29992	23	09	31.25	-08 42 56.4		691
2041	T-3		1991	10	10.23562	00	35	55.33	+08 10 33.7	17.5 V	691
2041	T-3		1991	10	10.25694	00	35	54.30	+08 10 26.5		691
2041	T-3		1991	10	10.27835	00	35	53.26	+08 10 18.4		691
3019	T-3		1991	10	08.36726	01	06	24.94	+05 42 51.5		691
3019	T-3		1991	10	08.38850	01	06	23.96	+05 42 40.3	17.0 V	691
3019	T-3		1991	10	08.40902	01	06	22.99	+05 42 29.3		691

3395 T-3	1991 09 15.43016	00 20 54.56	+02 06 41.9				691
3395 T-3	1991 09 15.45271	00 20 53.39	+02 06 31.5	18.2	V		691
3395 T-3	1991 09 15.47464	00 20 52.29	+02 06 21.3				691
3453 T-3	1991 10 05.24023	00 13 29.44	+01 36 08.1	18.4	V		691
3453 T-3	1991 10 05.26883	00 13 27.91	+01 35 52.6				691
3453 T-3	1991 10 05.28937	00 13 26.82	+01 35 41.7				691
(271)	1991 09 13.38940	23 45 15.74	+00 17 51.9	14.0	V		691
(271)	1991 09 13.41162	23 45 14.65	+00 17 47.0				691
(271)	1991 09 13.43431	23 45 13.55	+00 17 42.2				691
(274)	1991 10 07.36714	01 21 37.19	+03 10 53.7	15.2	V		691
(274)	1991 10 07.38783	01 21 36.23	+03 10 48.2				691
(275)	1991 09 04.27802	22 40 34.39	-11 27 38.2				691
(275)	1991 09 04.29876	22 40 33.37	-11 27 45.3	14.1	V		691
(275)	1991 09 04.32049	22 40 32.32	-11 27 52.4				691
(294)	1991 10 10.46576	03 20 39.16	+08 56 17.7	15.0	V		691
(294)	1991 10 10.48467	03 20 38.55	+08 56 12.8				691
(294)	1991 10 10.50333	03 20 37.95	+08 56 08.1				691
(435)	1991 10 16.46235	09 04 36.26	+18 29 45.3				691
(435)	1991 10 16.47308	09 04 37.05	+18 29 42.8	16.3	V		691
(435)	1991 10 16.48404	09 04 37.90	+18 29 39.7				691
(452)	1991 10 15.45667	09 00 31.58	+18 05 44.8	18.0	V		691
(452)	1991 10 15.47181	09 00 32.66	+18 05 40.9				691
(452)	1991 10 15.48767	09 00 33.78	+18 05 36.9				691
(454)	1991 10 06.30296	00 58 37.77	+02 54 37.6	13.5	V		691
(454)	1991 10 06.32361	00 58 36.61	+02 54 33.1				691
(454)	1991 10 06.34681	00 58 35.31	+02 54 28.0				691
(562)	1991 10 10.46299	03 16 39.67	+09 03 12.9	15.0	V		691
(562)	1991 10 10.48190	03 16 39.01	+09 03 11.6				691
(562)	1991 10 10.50057	03 16 38.35	+09 03 10.2				691
(809)	1991 10 02.16077	23 32 22.23	-09 59 05.5	14.4	V		691
(809)	1991 10 02.17619	23 32 21.71	-09 59 13.5				691
(809)	1991 10 02.18968	23 32 21.24	-09 59 20.2				691
(830)	1991 10 10.24371	00 47 36.19	+08 28 29.3	13.7	V		691
(830)	1991 10 10.26503	00 47 35.20	+08 28 24.5				691
(830)	1991 10 10.28644	00 47 34.19	+08 28 19.8				691
(975)	1991 09 29.43558	02 03 19.93	+11 25 37.5	15.1	V		691
(975)	1991 09 29.45959	02 03 18.99	+11 25 33.5				691
(975)	1991 09 29.48300	02 03 18.05	+11 25 29.6				691
(996)	1991 10 07.18233	00 40 23.14	+04 45 36.3	15.9	V		691
(996)	1991 10 07.20380	00 40 22.14	+04 45 30.1				691
(996)	1991 10 07.22420	00 40 21.19	+04 45 24.5				691
(1026)	1991 10 10.46518	03 19 49.61	+09 07 23.6	15.8	V		691
(1026)	1991 10 10.48409	03 19 48.83	+09 07 19.4				691
(1026)	1991 10 10.50276	03 19 48.13	+09 07 15.4				691
(1092)	1991 10 11.43571	01 44 41.58	+19 11 40.5	15.3	V		691
(1092)	1991 10 11.45783	01 44 40.43	+19 11 35.5				691
(1092)	1991 10 11.47862	01 44 39.39	+19 11 31.2				691
(1239)	1991 10 03.29177	00 15 48.58	-00 58 22.2	16.0	V		691
(1239)	1991 10 03.31193	00 15 47.49	-00 58 27.8				691
(1239)	1991 10 03.33234	00 15 46.38	-00 58 35.2				691
(1257)	1991 09 15.23878	23 40 09.32	+02 16 28.5				691
(1257)	1991 09 15.25900	23 40 08.26	+02 16 20.5	16.0	V		691
(1257)	1991 09 15.27908	23 40 07.19	+02 16 12.1				691
(1286)	1991 10 09.29015	00 44 34.04	+06 51 31.3	15.4	V		691
(1286)	1991 10 09.31071	00 44 33.14	+06 51 21.4				691
(1286)	1991 10 09.33113	00 44 32.23	+06 51 11.4				691
(1351)	1991 09 09.46139	01 03 43.26	+06 00 34.4	15.0	V		691
(1351)	1991 09 09.47700	01 03 42.71	+06 00 33.7				691
(1351)	1991 09 09.49191	01 03 42.20	+06 00 33.0				691

(1453)	1991	10	04.16188	00	11	09.95	+00	53 09.0	14.7 V 691
(1453)	1991	10	04.18237	00	11	07.68	+00	53 19.8	691
(1453)	1991	10	04.20305	00	11	05.41	+00	53 30.5	691
(1545)	1991	09	08.26265	23	18	44.85	-08	39 04.8	691
(1545)	1991	09	08.28310	23	18	43.83	-08	39 10.8	16.6 V 691
(1545)	1991	09	08.30629	23	18	42.68	-08	39 17.5	691
(1545)	1991	09	15.29616	23	13	03.62	-09	12 29.5	17.1 V 691
(1545)	1991	09	15.30682	23	13	03.08	-09	12 32.3	691
(1545)	1991	09	15.31745	23	13	02.57	-09	12 35.5	691
(1570)	1991	10	05.23954	00	12	29.31	+01	32 58.5	16.1 V 691
(1570)	1991	10	05.26814	00	12	27.86	+01	32 48.8	691
(1570)	1991	10	05.28867	00	12	26.87	+01	32 41.8	691
(1628)	1991	09	15.42609	00	15	01.95	+02	17 08.3	691
(1628)	1991	09	15.44864	00	15	01.11	+02	16 55.1	15.1 V 691
(1628)	1991	09	15.47058	00	15	00.24	+02	16 42.1	691
(1662)	1991	09	07.28918	22	35	56.39	-07	35 21.1	691
(1662)	1991	09	07.32289	22	35	54.52	-07	35 27.2	15.1 V 691
(1662)	1991	09	07.34348	22	35	53.40	-07	35 31.0	691
(1874)	1991	10	08.43471	02	08	15.06	+06	36 43.8	14.7 V 691
(1874)	1991	10	08.45578	02	08	14.25	+06	36 36.0	691
(1874)	1991	10	08.47628	02	08	13.46	+06	36 28.4	691
(1973)	1991	09	05.37012	23	05	50.49	-00	14 30.5	691
(1973)	1991	09	05.39102	23	05	49.63	-00	14 40.2	691
(1973)	1991	09	05.41260	23	05	48.73	-00	14 49.9	17.8 V 691
(1973)	1991	09	13.22759	23	00	40.31	-01	16 26.9	691
(1973)	1991	09	13.24974	23	00	39.42	-01	16 37.1	16.2 V 691
(1973)	1991	09	13.27206	23	00	38.50	-01	16 48.3	691
(1974)	1991	09	09.39168	23	27	00.90	-03	46 41.1	17.7 V 691
(1974)	1991	09	09.41259	23	27	00.04	-03	46 50.2	691
(1974)	1991	09	09.43331	23	26	59.16	-03	46 59.3	691
(2026)	1991	10	10.23890	00	40	39.11	+08	09 21.5	691
(2026)	1991	10	10.26021	00	40	37.90	+08	09 14.1	17.0 V 691
(2026)	1991	10	10.28162	00	40	36.66	+08	09 07.1	691
(2087)	1991	10	06.30755	01	05	15.34	+03	13 26.7	15.7 V 691
(2087)	1991	10	06.32820	01	05	14.09	+03	13 19.5	691
(2087)	1991	10	06.35140	01	05	12.67	+03	13 11.0	691
(2098)	1991	10	07.09934	23	49	55.87	+05	04 25.9	15.5 V 691
(2098)	1991	10	07.11992	23	49	54.80	+05	04 22.7	691
(2098)	1991	10	07.14370	23	49	53.52	+05	04 18.4	691
(2232)	1991	10	13.30684	01	20	52.67	+10	30 24.6	15.4 V 691
(2232)	1991	10	13.32746	01	20	51.58	+10	30 15.9	691
(2232)	1991	10	13.34871	01	20	50.47	+10	30 07.2	691
(2328)	1991	09	14.34484	23	53	22.58	+01	14 30.7	691
(2328)	1991	09	14.38107	23	53	20.69	+01	14 10.8	17.0 V 691
(2328)	1991	09	14.40138	23	53	19.63	+01	13 59.6	691
(2330)	1991	09	30.41085	00	40	52.99	-05	33 03.0	16.7 V 691
(2330)	1991	09	30.43155	00	40	52.11	-05	33 10.5	691
(2352)	1991	10	14.10543	00	36	36.58	+18	35 40.5	15.8 V 691
(2352)	1991	10	14.12642	00	36	35.74	+18	35 27.8	691
(2352)	1991	10	14.15231	00	36	34.70	+18	35 13.2	691
(2384)	1991	10	10.29927	00	54	36.18	+08	58 46.7	691
(2384)	1991	10	10.31989	00	54	34.90	+08	58 44.3	691
(2384)	1991	10	10.34049	00	54	33.63	+08	58 41.7	16.2 V 691
(2403)	1991	09	08.13051	21	11	49.98	-12	29 25.7	16.2 V 691
(2403)	1991	09	08.15204	21	11	49.26	-12	29 28.1	691
(2403)	1991	09	08.17341	21	11	48.54	-12	29 30.6	691
(2442)	1991	10	08.36533	01	03	37.20	+05	54 41.9	16.0 V 691
(2442)	1991	10	08.38656	01	03	36.03	+05	54 31.5	691
(2442)	1991	10	08.40708	01	03	34.90	+05	54 21.3	691

(2444)	1991	09	16.30092	02	15	27.99	+36	28	12.5	16.4 V	691
(2444)	1991	09	16.31847	02	15	27.80	+36	28	18.8		691
(2444)	1991	09	16.33569	02	15	27.59	+36	28	25.0		691
(2563)	1991	10	06.30277	00	58	21.00	+03	12	09.8	16.9 V	691
(2563)	1991	10	06.32342	00	58	20.10	+03	12	04.0		691
(2563)	1991	10	06.34662	00	58	19.09	+03	11	57.9		691
(2592)	1991	10	01.45016	01	37	04.51	+10	14	07.2	17.6 V	691
(2592)	1991	10	01.47114	01	37	03.64	+10	14	01.8		691
(2592)	1991	10	01.49211	01	37	02.80	+10	13	56.7		691
(2752)	1991	09	13.13970	22	47	12.61	-01	20	06.0		691
(2752)	1991	09	13.18557	22	47	10.71	-01	20	29.1	15.7 V	691
(2752)	1991	09	13.21866	22	47	09.34	-01	20	45.6		691
(2837)	1991	10	13.45327	02	06	53.85	+10	11	11.9	16.1 V	691
(2837)	1991	10	13.47559	02	06	52.77	+10	11	06.9		691
(2837)	1991	10	13.49804	02	06	51.68	+10	11	02.4		691
(2939)	1991	09	15.42094	00	07	35.79	+01	48	50.5	17.0 V	691
(2939)	1991	09	15.44348	00	07	34.49	+01	48	44.4		691
(2939)	1991	09	15.46542	00	07	33.20	+01	48	37.6		691
(2991)	1991	10	14.47211	09	00	47.90	+18	24	47.3		691
(2991)	1991	10	14.48736	09	00	48.92	+18	24	44.2	19.8 V	691
(2991)	1991	10	14.50236	09	00	49.88	+18	24	40.9		691
(3019)	1991	09	15.29738	23	14	49.03	-09	42	37.4	16.2 V	691
(3019)	1991	09	15.30803	23	14	48.49	-09	42	40.9		691
(3019)	1991	09	15.31866	23	14	47.98	-09	42	44.4		691
(3019)	1991	09	17.30788	23	13	15.40	-09	52	53.0		691
(3019)	1991	09	17.32282	23	13	14.68	-09	52	57.3		691
(3019)	1991	09	17.33323	23	13	14.17	-09	53	00.6	16.5 V	691
(3227)	1991	10	01.23640	23	56	18.19	-03	31	44.6		691
(3227)	1991	10	01.26313	23	56	16.78	-03	31	55.5	16.3 V	691
(3227)	1991	10	01.27978	23	56	15.89	-03	32	02.3		691
(3280)	1991	09	12.23983	23	17	03.99	-02	16	45.6		691
(3280)	1991	09	12.26197	23	17	02.79	-02	16	51.6	15.0 V	691
(3280)	1991	09	12.28429	23	17	01.55	-02	16	57.5		691
(3327)	1991	10	06.29740	00	50	36.07	+03	16	38.7	16.1 V	691
(3327)	1991	10	06.31805	00	50	35.12	+03	16	33.4		691
(3327)	1991	10	06.34125	00	50	34.05	+03	16	27.0		691
(3348)	1991	10	05.24445	00	19	34.57	+01	48	52.8	17.3 V	691
(3348)	1991	10	05.27305	00	19	33.40	+01	48	40.5		691
(3348)	1991	10	05.29359	00	19	32.56	+01	48	32.2		691
(3394)	1991	09	15.35687	23	53	30.21	+02	35	38.5		691
(3394)	1991	09	15.39006	23	53	28.35	+02	35	22.8	17.6 V	691
(3394)	1991	09	15.41194	23	53	27.17	+02	35	12.7		691
(3473)	1991	09	29.44232	02	13	03.94	+11	53	13.7	18.3 V	691
(3473)	1991	09	29.46633	02	13	02.89	+11	53	07.4		691
(3525)	1991	09	13.37602	23	25	56.99	+00	07	01.4	17.4 V	691
(3525)	1991	09	13.39825	23	25	55.97	+00	06	55.2		691
(3525)	1991	09	13.42093	23	25	54.94	+00	06	49.3		691
(3716)	1991	09	04.26974	22	28	37.13	-11	19	20.5		691
(3716)	1991	09	04.29047	22	28	36.07	-11	19	28.2	16.2 V	691
(3716)	1991	09	04.31221	22	28	34.96	-11	19	36.8		691
(3774)	1991	10	15.09309	00	29	36.33	+17	39	21.2	16.4 V	691
(3774)	1991	10	15.11451	00	29	35.33	+17	39	14.6		691
(3774)	1991	10	15.13545	00	29	34.37	+17	39	07.9		691
(3781)	1991	10	05.24260	00	16	54.65	+01	38	02.6		691
(3781)	1991	10	05.27121	00	16	53.31	+01	37	52.7	16.3 V	691
(3781)	1991	10	05.29174	00	16	52.33	+01	37	45.4		691
(3821)	1991	09	08.18620	23	01	35.15	-06	55	39.8		691
(3821)	1991	09	08.20722	23	01	34.22	-06	55	47.1	17.6 V	691

(3821)	1991 09 08.22810	23 01 33.26	-06 55 52.7					691
(3823)	1991 10 14.24060	00 26 59.57	-05 20 06.3					691
(3823)	1991 10 14.25724	00 26 58.85	-05 20 10.6	18.7	V			691
(3823)	1991 10 14.27375	00 26 58.12	-05 20 14.8					691
(3848)	1991 10 08.36540	01 03 43.71	+05 41 20.1					691
(3848)	1991 10 08.38664	01 03 42.55	+05 41 11.3	17.6	V			691
(3848)	1991 10 08.40716	01 03 41.40	+05 41 02.5					691
(3856)	1991 10 08.29674	00 47 45.77	+06 10 21.9	15.9	V			691
(3856)	1991 10 08.31835	00 47 44.68	+06 10 16.4					691
(3866)	1991 10 09.18156	00 45 24.95	+07 59 05.9	15.7	V			691
(3866)	1991 10 09.20448	00 45 23.93	+07 58 57.2					691
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(4024)	1991 10 16.23968	23 42 32.35	-12 23 10.4	17.4	V			691
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(4024)	1991 10 16.27217	23 42 30.79	-12 23 10.6					691
(4123)	1991 10 01.24133	00 03 25.47	-03 25 08.2	16.8	V			691
(4123)	1991 10 01.26806	00 03 24.14	-03 25 15.0					691
(4123)	1991 10 01.28471	00 03 23.33	-03 25 19.3					691
(4234)	1991 10 11.37673	01 47 08.43	+10 13 59.5					691
(4234)	1991 10 11.39738	01 47 07.48	+10 13 54.7	17.7	V			691
(4234)	1991 10 11.41808	01 47 06.54	+10 13 49.8					691
(4234)	1991 10 13.43850	01 45 34.81	+10 05 59.8					691
(4234)	1991 10 13.46083	01 45 33.77	+10 05 54.6	17.6	V			691
(4234)	1991 10 13.48328	01 45 32.72	+10 05 49.1					691
(4250)	1991 10 14.47578	09 06 05.96	+18 41 56.0					691
(4250)	1991 10 14.49103	09 06 06.77	+18 41 52.5					691
(4250)	1991 10 14.50602	09 06 07.60	+18 41 50.0	18.5	V			691
(4250)	1991 10 15.46115	09 06 59.47	+18 38 44.1					691
(4250)	1991 10 15.47628	09 07 00.29	+18 38 41.3	19.6	V			691
(4250)	1991 10 15.49214	09 07 01.20	+18 38 38.5					691
(4250)	1991 10 16.46463	09 07 53.38	+18 35 32.4					691
(4250)	1991 10 16.47535	09 07 53.93	+18 35 29.7	19.6	V			691
(4250)	1991 10 16.48631	09 07 54.49	+18 35 28.3					691
(4466)	1991 09 15.43158	00 22 57.59	+01 52 04.8					691
(4466)	1991 09 15.45413	00 22 56.58	+01 51 57.9	17.0	V			691
(4466)	1991 09 15.47607	00 22 55.64	+01 51 50.9					691
(4753)	1992 04 27.27673	14 24 14.38	-11 18 57.0					691
(4753)	1992 04 27.30124	14 24 12.92	-11 18 52.8	16.9	V			691
(4753)	1992 04 27.32568	14 24 11.45	-11 18 48.9					691
(4758)	1991 10 14.47357	09 02 54.09	+18 10 02.4	18.8	V			691
(4758)	1991 10 14.48881	09 02 54.82	+18 09 58.9					691
(4758)	1991 10 14.50381	09 02 55.63	+18 09 56.9					691
(4758)	1991 10 15.45890	09 03 44.62	+18 06 53.1					691
(4758)	1991 10 15.47403	09 03 45.36	+18 06 49.9	19.9	V			691
(4758)	1991 10 15.48989	09 03 46.18	+18 06 47.3					691
(4985)	1991 10 06.18179	00 37 47.44	+03 58 08.0	17.2	V			691
(4985)	1991 10 06.20253	00 37 46.50	+03 58 02.3					691
(4985)	1991 10 06.22304	00 37 45.57	+03 57 56.9					691
(5000)	1991 10 02.15603	23 25 31.49	-10 08 35.7					691
(5000)	1991 10 02.17145	23 25 30.99	-10 08 42.8	17.0	V			691
(5000)	1991 10 02.18494	23 25 30.56	-10 08 48.7					691
(5013)	1991 10 02.21281	00 23 36.15	-01 34 38.5	16.5	V			691
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(5013)	1991 10 02.25367	00 23 34.01	-01 34 48.5					691
(5048)	1991 10 09.18489	00 50 13.18	+07 31 10.0	17.9	V			691
(5048)	1991 10 09.20781	00 50 11.96	+07 31 02.8					691
(5048)	1991 10 09.22923	00 50 10.83	+07 30 56.2					691
(5080)	1991 09 13.29631	23 33 24.92	-01 34 21.5					691

(5080)	1991 09 13.31845	23 33 23.44	-01 34 26.0				691
(5080)	1991 09 13.35467	23 33 21.03	-01 34 32.6	15.2	V		691
(5082)	1991 10 04.36772	00 53 26.48	+01 13 16.7	18.1	V		691
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(5082)	1991 10 04.41193	00 53 24.42	+01 12 57.9				691
(5094)	1991 09 08.18724	23 03 12.19	-06 46 37.2	17.1	V		691
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(5094)	1991 09 08.22913	23 03 10.06	-06 46 48.1				691
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(5098)	1991 09 08.30186	23 12 18.69	-08 35 54.6				691
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(5098)	1991 09 12.31287	23 09 06.68	-09 10 25.5				691
(5098)	1991 09 12.32268	23 09 06.17	-09 10 31.3				691
(5127)	1991 10 09.18491	00 50 14.48	+07 43 44.5	16.9	V		691
(5127)	1991 10 09.20782	00 50 13.29	+07 43 31.1				691
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(5194)	1991 09 08.38907	23 21 06.67	-07 26 55.1				691
(5194)	1991 09 08.41046	23 21 05.61	-07 27 03.5	18.5	V		691
(5194)	1991 09 08.43096	23 21 04.61	-07 27 11.6				691
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(5210)	1991 09 13.33022	23 50 23.01	-01 30 39.6				691
(5210)	1991 09 13.36644	23 50 20.95	-01 30 49.9				691

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E. Bowell, Lowell Observatory, 1400 West Mars Hill Road,
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Observer A. M. Heiser
Measurer M. A. Dahm
0.25-m refractor
PDS scanning microdensitometer
PPM, global solutions

1954 UQ	1954 10 22.17189	01 25 43.43	+10 45 41.7			D	760
1954 UQ	1954 10 22.21528	01 25 41.00	+10 45 41.3			D	760
1973 SR3	1954 10 22.17189	01 36 30.38	+10 02 06.1			O	760
1973 SR3	1954 10 22.21564	01 36 28.01	+10 01 55.6				760
1987 SG13	1954 10 22.17189	01 15 52.39	+08 21 13.8			O	760
1987 SG13	1954 10 22.21564	01 15 49.70	+08 21 05.8			O	760
1990 UH	1954 10 22.17189	01 12 58.33	+09 33 56.1				760
1990 UH	1954 10 22.21564	01 12 55.99	+09 33 32.2				760
1991 VM4	1954 10 22.17189	01 12 01.46	+07 11 56.6				760
1991 VM4	1954 10 22.21564	01 11 58.74	+07 11 50.2				760
(26)	1954 10 22.17189	01 30 03.12	+07 17 31.6	12.9			760
(26)	1954 10 22.21564	01 30 00.72	+07 17 21.2				760
(62)	1954 10 22.17189	01 17 12.78	+04 24 22.0	14.0			760
(62)	1954 10 22.21564	01 17 10.76	+04 24 10.3				760
(178)	1954 10 22.17189	01 26 34.72	+07 33 57.5	14.1			760
(178)	1954 10 22.21564	01 26 32.19	+07 33 45.6				760
(496)	1954 10 22.17189	01 20 14.80	+08 52 39.7	15.7			760
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(718)	1954 10 22.21564	01 21 19.83	+05 35 02.2				760
(1097)	1954 10 22.17189	01 12 12.90	+04 54 19.5	15.0			760
(1097)	1954 10 22.21564	01 12 10.79	+04 54 07.9				760
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(1696)	1954 10 22.21564	01 34 33.85	+10 53 52.6		O	760
(2190)	1954 10 22.17189	01 31 19.96	+10 44 44.3			760
(2190)	1954 10 22.21564	01 31 17.65	+10 44 29.4			760
(2518)	1954 10 22.21564	01 13 53.26	+08 19 16.0		O	760
(2527)	1954 10 22.17189	01 19 38.40	+06 46 05.6			760
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(3593)	1954 10 22.17189	01 19 44.42	+10 30 35.1		O	760
(3593)	1954 10 22.21564	01 19 41.84	+10 30 18.1		R	760

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GSC

1966 CF	1992 05 29.12163	14 33 47.45	-00 46 44.0			801
1966 CF	1992 05 29.13839	14 33 46.79	-00 46 47.3			801
1971 US1	1992 05 29.27493	19 09 06.50	-04 19 21.0			801
1971 US1	1992 05 29.29161	19 09 06.24	-04 19 10.3			801
1973 SQ1	1992 06 03.11390	14 06 03.20	-11 47 24.0		U	801
1973 SQ1	1992 06 03.14196	14 06 02.71	-11 47 18.5			801
1976 GR2	1992 05 29.13425	14 37 29.90	-08 40 06.9			801
1976 GR2	1992 05 29.15554	14 37 29.09	-08 40 05.4			801
1978 CH	1992 05 29.17438	15 38 00.45	-10 45 02.2			801
1978 CH	1992 05 29.19586	15 37 59.51	-10 45 01.1			801
1978 RR8	1992 05 30.13596	15 46 27.88	-01 50 19.2			801
1978 RR8	1992 05 30.14953	15 46 27.15	-01 50 18.2			801
1978 TA7	1992 05 29.28307	18 18 26.44	-17 15 04.0			801
1978 TA7	1992 05 29.29925	18 18 25.81	-17 15 05.4			801
1978 TA7	1992 06 04.23777	18 14 20.27	-17 22 55.6			801
1978 TA7	1992 06 04.25678	18 14 19.47	-17 22 57.2			801
1979 KG	1992 05 29.21865	17 11 35.62	-06 08 05.3			801
1979 KG	1992 05 29.23356	17 11 34.82	-06 08 05.8			801
1979 KG	1992 06 03.21493	17 07 05.95	-06 10 22.7			801
1979 KG	1992 06 03.22934	17 07 05.12	-06 10 23.3			801
1979 KR	1992 05 30.30002	19 49 27.28	-03 41 45.2			801
1979 KR	1992 05 30.32611	19 49 27.15	-03 41 34.1			801
1979 KR	1992 06 04.26794	19 48 51.33	-03 08 35.0			801
1979 KR	1992 06 04.28971	19 48 51.05	-03 08 26.7			801
1979 MF	1992 06 03.06394	11 56 39.56	+07 29 52.4			801
1979 MF	1992 06 03.08115	11 56 40.76	+07 29 43.9			801
1979 OB	1992 05 29.18293	15 44 50.27	-09 23 54.7			801
1979 OB	1992 05 29.19767	15 44 49.31	-09 23 50.1			801
1981 EX13	1987 06 24.21595	17 14 10.86	-11 08 35.3			801
1982 BA	1992 05 29.24319	17 30 09.98	-03 17 21.6			801
1982 BA	1992 05 29.26088	17 30 09.14	-03 17 21.4			801
1982 BA	1992 06 03.22037	17 25 57.93	-03 15 26.8			801
1982 BA	1992 06 03.23471	17 25 57.18	-03 15 27.1			801
1982 PR	1992 06 03.17766	15 42 35.51	-20 31 09.3			801
1982 PR	1992 06 03.19668	15 42 34.60	-20 31 06.7			801
1982 UP6	1992 05 29.32152	20 56 20.85	+14 17 20.7			801
1982 UP6	1992 05 29.33226	20 56 21.18	+14 17 32.8			801
1982 UP6	1992 06 04.29936	20 59 11.38	+16 07 36.5			801
1982 UP6	1992 06 04.31656	20 59 11.75	+16 07 55.3			801
1983 PX	1992 06 03.21774	17 13 49.41	-09 37 02.8			801
1983 PX	1992 06 03.23213	17 13 48.66	-09 36 58.3			801
1983 PX	1992 06 04.21763	17 13 00.45	-09 31 52.7			801
1983 PX	1992 06 04.23009	17 12 59.83	-09 31 48.7			801
1983 TN1	1992 05 30.08455	14 09 35.33	-13 58 28.8			801

1983	TN1	1992	05	30.10620	14	09	34.55	-13 58 21.5	801
1984	QF	1992	05	30.09087	14	39	28.78	+05 14 03.4	801
1984	QF	1992	05	30.11514	14	39	27.77	+05 14 02.4	801
1985	HG1	1992	06	03.13684	15	02	53.71	-12 36 13.6	801
1985	HG1	1992	06	03.16094	15	02	52.72	-12 36 14.1	801
1985	JN1	1992	05	30.08233	14	13	00.21	-06 45 25.1	801
1985	JN1	1992	05	30.10113	14	12	59.61	-06 45 29.6	801
1985	PZ1	1992	05	30.25597	18	57	21.01	-09 49 03.0	801
1985	PZ1	1992	05	30.28514	18	57	20.45	-09 49 03.4	801
1985	PZ1	1992	06	04.22706	18	55	31.79	-09 47 25.3	801
1985	PZ1	1992	06	04.24751	18	55	31.18	-09 47 25.1	801
1985	RL1	1992	06	03.18524	16	21	05.68	-11 24 24.9	801
1985	RL1	1992	06	03.20373	16	21	04.58	-11 24 18.0	801
1985	XB	1992	05	30.19741	16	56	12.33	-23 33 06.6	801
1985	XB	1992	06	03.19361	16	48	55.88	-24 35 01.2	801
1986	TZ1	1992	05	30.20426	17	12	04.81	-20 42 19.3	801
1986	TZ1	1992	05	30.21899	17	12	03.72	-20 42 19.5	801
1986	UU	1992	05	30.13365	15	44	25.65	-18 25 31.8	801
1986	UU	1992	05	30.14447	15	44	24.91	-18 25 27.2	801
1986	VG1	1992	05	30.09667	15	08	09.14	-03 37 10.2	801
1986	VG1	1992	05	30.12373	15	08	08.36	-03 37 10.8	801
1988	BS3	1992	05	29.27745	19	11	21.44	-12 26 42.8	801
1988	BS3	1992	05	29.32464	19	11	21.07	-12 26 37.2	801
1988	BS3	1992	05	30.26163	19	11	15.10	-12 24 32.2	801
1988	BS3	1992	05	30.31296	19	11	14.55	-12 24 24.9	801
1988	BJ4	1992	05	07.20081	13	51	54.63	-04 57 49.6	801
1988	GL	1992	05	29.10856	13	34	40.61	+02 13 13.5	801
1988	GL	1992	05	29.12456	13	34	40.36	+02 13 00.5	801
1988	KC	1992	05	30.08807	14	11	46.62	-13 06 12.2	801
1988	KC	1992	05	30.10385	14	11	46.08	-13 06 05.1	801
1988	LA	1992	03	02.42034	16	24	49.11	-06 45 13.9	801
1988	NN	1992	05	29.28019	19	15	21.68	-02 22 26.5	801
1988	NN	1992	05	29.29556	19	15	21.53	-02 22 14.9	801
1988	NN	1992	05	30.26517	19	15	13.34	-02 10 04.1	801
1988	NN	1992	05	30.28271	19	15	13.16	-02 09 51.3	801
1988	PT	1992	05	30.31654	21	07	40.60	+01 17 22.1	801
1988	PT	1992	05	30.33536	21	07	41.11	+01 17 30.7	801
1988	QD1	1992	06	03.06878	12	51	01.04	-18 25 03.9	801
1988	QD1	1992	06	03.09007	12	51	01.02	-18 24 53.9	801
1988	VT	1992	05	29.31240	20	45	11.58	-02 56 45.0	801
1988	VT	1992	05	29.32917	20	45	11.87	-02 56 35.3	801
1989	NO	1992	04	30.14538	13	27	15.76	-15 18 23.0	801
1989	NO	1992	04	30.15972	13	27	14.89	-15 18 20.6	801
1989	NO	1992	05	04.12352	13	23	36.10	-15 06 16.3	801
1989	NO	1992	05	04.14569	13	23	34.90	-15 06 12.0	801
1989	NH1	1992	05	30.09365	14	45	56.17	-05 10 21.1	801
1989	NH1	1992	05	30.11221	14	45	55.23	-05 10 21.8	801
1989	RH	1992	05	30.15921	16	10	12.75	-00 48 50.7	801
1989	RH	1992	05	30.17501	16	10	11.92	-00 48 48.4	801
1989	US	1991	04	19.14586	12	11	35.15	+02 40 25.1	801
1989	US	1991	04	19.16807	12	11	34.07	+02 40 28.4	801
1989	WE	1992	05	30.19266	17	05	50.03	-13 37 07.7	801
1989	WE	1992	05	30.20667	17	05	49.25	-13 37 05.9	801
1989	WL7	1992	05	29.25352	17	49	02.13	-09 34 14.8	801
1989	WL7	1992	05	29.26679	17	49	01.45	-09 34 16.3	801
1989	XD	1992	06	03.29642	20	30	35.52	-14 40 31.9	801
1989	XD	1992	06	03.32338	20	30	35.22	-14 40 26.8	801
1989	XM	1991	03	21.11061	10	07	08.15	+15 55 07.8	801
1989	XM	1991	03	21.14463	10	07	06.85	+15 55 10.7	801

1989	YK8		1992	05	29.18505	15	46	27.96	-10	55	07.4	801
1989	YK8		1992	05	29.20052	15	46	27.22	-10	55	06.4	801
1990	MB		1992	05	29.30572	20	47	40.09	+03	32	40.3	801
1990	MB		1992	05	29.31801	20	47	40.66	+03	33	06.2	801
1990	MB		1992	06	03.30775	20	51	40.97	+06	31	27.8	801
1990	MB		1992	06	04.30370	20	52	22.43	+07	07	36.5	801
1990	MB		1992	06	04.31301	20	52	22.83	+07	07	56.2	801
1990	TZ		1992	05	30.09940	14	38	30.52	-20	27	35.6	801
1990	TZ		1992	05	30.11754	14	38	29.75	-20	27	22.5	801
1990	WB2		1992	05	29.14539	15	21	04.56	-07	39	41.4	801
1990	WB2		1992	05	29.15817	15	21	03.86	-07	39	43.1	801
1990	WB2		1992	06	03.15273	15	17	05.54	-07	49	20.3	801
1990	WB2		1992	06	03.17073	15	17	04.69	-07	49	22.9	801
1990	WY3		1992	05	30.07250	13	10	30.73	+04	52	38.0	801
1990	WY3		1992	05	30.10938	13	10	30.39	+04	52	28.4	801
1990	XB1		1992	05	29.19046	16	05	59.92	-08	25	05.2	801
1990	XB1		1992	05	29.20465	16	05	59.10	-08	25	07.9	801
1990	YT		1992	05	30.29303	19	16	22.69	-19	16	40.5	801
1990	YT		1992	05	30.32028	19	16	22.00	-19	16	39.6	801
1990	YT		1992	06	03.28897	19	14	26.76	-19	14	44.3	801
1990	YT		1992	06	03.31520	19	14	25.76	-19	14	43.8	801
1991	BQ2		1992	05	29.27244	18	16	40.53	-14	08	45.2	801
1991	BQ2		1992	05	29.28888	18	16	39.77	-14	08	48.0	801
1991	BQ2		1992	06	03.25241	18	12	50.78	-14	21	18.7	801
1991	BQ2		1992	06	03.27119	18	12	49.80	-14	21	21.9	801
1991	BH4	*	1991	01	18.27541	08	52	41.45	+19	11	20.8	17 801
1991	BH4		1991	01	18.28971	08	52	40.66	+19	11	21.4	801
1991	DT		1992	05	30.18626	16	45	24.34	-20	17	28.0	801
1991	DT		1992	05	30.20103	16	45	23.70	-20	17	25.3	801
1991	DT		1992	06	03.19133	16	42	01.59	-20	13	33.2	I 801
1991	DT		1992	06	03.21184	16	42	00.47	-20	13	33.4	801
1991	GY9		1992	05	30.19497	17	33	21.48	-11	45	58.3	801
1991	GY9		1992	05	30.20917	17	33	20.85	-11	45	54.5	801
1991	GY9		1992	06	03.22668	17	30	20.87	-11	27	19.0	801
1991	GY9		1992	06	03.24561	17	30	19.97	-11	27	13.5	801
1991	VK		1992	04	30.09677	12	43	30.50	-20	16	55.9	801
1991	VK		1992	04	30.10822	12	43	30.47	-20	16	48.3	801
1992	AC		1992	05	29.09929	13	11	49.61	+25	10	55.5	801
1992	AC		1992	05	29.10235	13	11	49.82	+25	10	50.1	801
1992	AC		1992	05	31.09666	13	14	15.02	+24	13	14.1	801
1992	AC		1992	05	31.10082	13	14	15.29	+24	13	06.7	801
1992	AX		1992	04	29.04355	08	33	55.09	+29	44	22.3	801
1992	AX		1992	04	29.04775	08	33	55.59	+29	44	20.9	801
1992	AX		1992	06	03.05163	10	00	28.54	+24	09	40.7	801
1992	AX		1992	06	03.05520	10	00	29.10	+24	09	39.0	801
1992	EE1		1992	06	03.06038	12	08	25.18	-04	10	34.9	801
1992	EE1		1992	06	03.07832	12	08	25.53	-04	10	53.0	801
1992	JB		1992	05	29.17207	15	31	52.33	+12	32	55.1	801
1992	JB		1992	05	29.19288	15	31	52.43	+12	33	05.9	801
1992	JB		1992	06	03.14538	15	33	12.84	+13	01	19.4	801
1992	JB		1992	06	03.17345	15	33	13.11	+13	01	24.5	801
1992	JE		1992	05	29.11940	14	29	21.94	-01	57	17.1	801
1992	JE		1992	05	29.13154	14	29	21.33	-01	57	08.5	801
1992	JE		1992	06	03.12398	14	26	05.21	-00	58	54.2	I 801
1992	JE		1992	06	03.13875	14	26	04.70	-00	58	43.8	801
1992	KD		1992	06	05.07014	14	56	56.92	-06	42	43.5	801
1992	KD		1992	06	05.07339	14	56	57.27	-06	42	29.9	801
1992	KD		1992	06	05.10672	14	56	59.84	-06	40	01.8	801
1992	KD		1992	06	05.10902	14	57	00.07	-06	39	53.3	801

2532	P-L	1992	05	30.21146	17	41	35.58	-10	18	43.0	801
2532	P-L	1992	05	30.22617	17	41	34.98	-10	18	39.4	801
2532	P-L	1992	06	03.23781	17	38	44.27	-10	04	07.3	801
2532	P-L	1992	06	03.25539	17	38	43.49	-10	04	03.9	801
2548	P-L	1992	06	03.18862	16	35	12.89	-20	02	34.6	801
2548	P-L	1992	06	03.20948	16	35	11.77	-20	02	32.9	801
2570	P-L	1992	05	30.07968	14	01	46.55	-05	54	53.8	801
2570	P-L	1992	05	30.11997	14	01	45.73	-05	54	49.2	801
9546	P-L	1992	05	30.21397	17	55	26.89	-22	02	19.3	801
9546	P-L	1992	05	30.22828	17	55	26.23	-22	02	20.5	801
9546	P-L	1992	06	03.26916	17	52	24.24	-22	04	51.7	801
3129	T-2	1992	05	30.30306	20	16	58.78	+02	40	15.0	801
3129	T-2	1992	05	30.32307	20	16	59.35	+02	40	23.4	801
3129	T-2	1992	06	04.27291	20	19	11.06	+03	12	13.0	801
3129	T-2	1992	06	04.29245	20	19	11.43	+03	12	19.9	801
(348)		1992	05	29.12996	15	00	14.69	-07	57	10.2	801
(348)		1992	05	29.14988	15	00	13.82	-07	57	10.6	801
(348)		1992	06	03.12818	14	56	54.10	-08	00	24.9	801
(348)		1992	06	03.14740	14	56	53.34	-08	00	26.1	801
(3198)		1992	05	29.10450	13	43	31.68	+10	44	21.8	801
(3198)		1992	05	29.11270	13	43	31.47	+10	44	14.9	801
(4341)		1992	05	29.16251	15	36	39.31	+07	28	48.1	801
(4341)		1992	05	29.16534	15	36	38.98	+07	28	42.3	801
(4753)		1992	05	29.11690	13	59	29.54	-10	26	27.7	801
(4753)		1992	05	29.14071	13	59	28.84	-10	26	27.7	801
(4753)		1992	06	03.08762	13	57	34.44	-10	28	32.8	801
(4753)		1992	06	03.12156	13	57	33.79	-10	28	33.8	801
(4957)		1992	05	29.33737	21	51	25.16	+19	29	20.7	801
(4957)		1992	05	29.34065	21	51	25.59	+19	29	32.3	801
(4957)		1992	06	03.33833	22	01	27.27	+24	08	04.5	801
(4957)		1992	06	03.34049	22	01	27.44	+24	08	10.6	801
(5237)		1992	05	30.12714	15	29	31.26	-22	59	55.9	801
(5237)		1992	05	30.13987	15	29	30.55	-22	59	55.2	801

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1978	RN	1991	08	14.18365	21	09	39.70	-09	12	32.3	p 808
1978	RN	1991	08	14.21481	21	09	37.99	-09	12	43.2	p 808
1979	KO	1991	09	08.09259	20	53	04.00	-33	00	54.5	g 808
1982	SJ1	1991	10	04.03158	21	56	29.42	-09	53	39.9	p 808
1982	SJ1	1991	10	04.07660	21	56	28.66	-09	53	55.7	p 808
1984	JA2	1991	11	01.15701	01	35	52.86	+02	02	48.0	808
1984	JA2	1991	11	01.19233	01	35	51.16	+02	02	45.4	808
1984	JA2	1991	11	09.05379	01	29	56.25	+01	58	38.7	p 808
1984	JA2	1991	11	09.10435	01	29	54.43	+01	58	37.1	p 808
1984	JA2	1991	11	12.11139	01	27	52.61	+01	58	59.1	808
1984	JA2	1991	11	12.15710	01	27	50.90	+01	58	59.8	808
1984	SX5	1991	09	08.17321	23	28	11.27	-04	33	23.1	808
1984	SX5	1991	09	08.20923	23	28	09.46	-04	33	43.7	808
1986	QB1	1991	08	12.29195	00	02	40.86	-04	35	54.5	808
1986	QB1	1991	08	12.34181	00	02	39.77	-04	36	04.2	808
1986	QB1	1991	08	14.28303	00	01	59.43	-04	42	08.6	808
1986	QB1	1991	08	14.32216	00	01	58.67	-04	42	14.7	808
1986	TQ	1991	09	09.16286	22	59	41.75	-09	31	58.5	808
1986	TQ	1991	09	09.19264	22	59	39.89	-09	31	56.5	808
1986	TQ	1991	09	12.10966	22	56	54.87	-09	30	49.3	808

1986	TQ	1991	09	12.14567	22	56	52.80	-09	30	48.3	808
1987	SG2	1991	09	08.17321	23	33	44.60	-03	21	12.7	808
1987	SG2	1991	09	08.20923	23	33	42.93	-03	21	29.8	808
1987	SG2	1991	10	04.12023	23	13	38.62	-06	49	01.8	p 808
1987	SG2	1991	10	04.16524	23	13	36.67	-06	49	19.0	p 808
1988	TJ2	1991	09	09.16286	22	57	05.86	-11	06	44.7	808
1988	TJ2	1991	09	09.19264	22	57	03.66	-11	06	49.9	808
1988	TJ2	1991	09	12.10966	22	53	56.87	-11	14	55.8	808
1988	TJ2	1991	09	12.14567	22	53	54.48	-11	15	01.4	808
1990	RE6	1991	11	30.20075	04	59	57.67	+16	41	35.8	808
1990	RE6	1991	11	30.24646	04	59	54.75	+16	41	30.3	808
1991	NY	1991	09	03.07190	20	55	08.56	-08	43	55.1	808
1991	NY	1991	09	03.10307	20	55	08.47	-08	44	09.5	808
1991	NY	1991	09	06.06440	20	55	12.58	-09	04	17.4	808
1991	NY	1991	09	06.09626	20	55	12.58	-09	04	30.0	808
1991	NY	1991	09	12.04386	20	56	13.80	-09	41	44.8	808
1991	NY	1991	09	12.07572	20	56	14.22	-09	41	57.1	808
1991	PQ	1991	08	18.18346	21	04	08.58	-11	26	55.0	p 808
1991	PQ	1991	08	18.22778	21	04	06.56	-11	26	55.8	p 808
1991	PV8	1991	08	14.18365	21	10	56.05	-09	38	24.8	808
1991	PV8	1991	08	14.21481	21	10	54.13	-09	38	26.2	808
1991	PX10	1991	09	12.18307	23	45	01.74	+02	59	01.5	p 808
1991	PX10	1991	09	12.21042	23	45	00.44	+02	58	36.3	p 808
1991	PA11	1991	09	12.18307	23	45	25.86	+02	29	26.7	808
1991	PA11	1991	09	12.21042	23	45	24.57	+02	29	07.3	808
1991	PP11	1991	09	12.18307	23	44	43.36	+02	28	15.9	808
1991	PP11	1991	09	12.21042	23	44	42.04	+02	27	56.0	808
1991	PQ11	1991	09	12.18307	23	37	12.60	+04	37	35.1	808
1991	PQ11	1991	09	12.21042	23	37	10.80	+04	37	27.5	808
1991	PX17	1991	09	12.10966	22	49	17.92	-11	18	05.2	808
1991	PX17	1991	09	12.14567	22	49	15.70	-11	18	08.1	808
1991	RT	1991	09	12.10966	22	51	14.83	-10	10	08.0	808
1991	RT	1991	09	12.14567	22	51	13.67	-10	10	43.4	808
1991	RT5	1991	09	08.24385	00	53	55.79	-02	48	52.3	p 808
1991	RT5	1991	09	08.27155	00	53	54.58	-02	48	53.4	p 808
1991	RX17	1991	10	04.12023	23	09	43.73	-05	25	39.8	808
1991	RX17	1991	10	04.16524	23	09	42.31	-05	25	56.5	808
1991	RD19	1991	09	12.18307	23	33	57.77	+04	41	51.3	808
1991	RD19	1991	09	12.21042	23	33	56.23	+04	41	45.2	808
1991	RE19	1991	09	12.18307	23	34	36.92	+02	39	16.5	808
1991	RE19	1991	09	12.21042	23	34	34.94	+02	39	12.4	808
1991	RO19	1991	09	12.18307	23	40	35.57	+04	14	09.8	p 808
1991	RO19	1991	09	12.21042	23	40	33.58	+04	14	18.9	p 808
1991	RQ19	1991	09	12.18307	23	40	56.46	+03	51	52.8	808
1991	RQ19	1991	09	12.21042	23	40	54.77	+03	51	49.6	808
1991	RS19	1991	09	12.18307	23	43	20.43	+03	08	02.2	808
1991	RS19	1991	09	12.21042	23	43	18.76	+03	07	59.5	808
1991	RU19	1991	09	12.18307	23	44	30.58	+03	30	19.8	808
1991	RU19	1991	09	12.21042	23	44	28.59	+03	30	18.5	808
1991	RW19	1991	09	12.18307	23	44	19.00	+03	08	51.0	808
1991	RW19	1991	09	12.21042	23	44	17.22	+03	08	38.3	808
1991	RZ19	1991	09	12.18307	23	46	38.02	+03	17	51.3	808
1991	RZ19	1991	09	12.21042	23	46	36.27	+03	17	50.0	808
1991	RH25	1991	11	01.15701	01	29	43.77	-00	06	04.0	808
1991	RH25	1991	11	01.19233	01	29	41.79	-00	06	00.2	808
1991	RH25	1991	11	09.05379	01	23	32.96	+00	13	24.2	808
1991	RH25	1991	11	09.10435	01	23	31.25	+00	13	32.7	808
1991	RH25	1991	11	12.11139	01	21	37.93	+00	24	27.6	808
1991	RH25	1991	11	12.15710	01	21	36.25	+00	24	37.3	808

1991 RQ27		1991 11 01.15701	01 35 13.77	+00 52 21.7				808
1991 RQ27		1991 11 01.19233	01 35 11.88	+00 52 18.7				808
1991 RQ27		1991 11 09.05379	01 29 30.52	+00 41 31.6				808
1991 RQ27		1991 11 09.10435	01 29 28.92	+00 41 29.4				808
1991 RQ27		1991 11 12.11139	01 27 42.88	+00 41 01.4				808
1991 RQ27		1991 11 12.15710	01 27 41.37	+00 41 02.4				808
1991 VR12	*	1991 11 01.15701	01 33 54.40	+00 37 10.6			p	808
1991 VR12		1991 11 01.19233	01 33 52.93	+00 36 59.8			p	808
1991 VR12		1991 11 09.05379	01 29 23.75	+00 03 30.1			p	808
1991 VR12		1991 11 09.10435	01 29 22.55	+00 03 23.3			p	808
1991 VR12		1991 11 12.11139	01 28 02.39	-00 04 59.6				808
1991 VR12		1991 11 12.15710	01 28 01.11	-00 05 05.3				808
1991 VS12	*	1991 11 09.05379	01 25 44.30	+00 34 50.4			p	808
1991 VS12		1991 11 09.10435	01 25 42.72	+00 34 52.2			p	808
1991 VS12		1991 11 12.11139	01 24 05.55	+00 38 57.7				808
1991 VS12		1991 11 12.15710	01 24 04.05	+00 39 02.5				808
1991 VT12	*	1991 11 09.05379	01 26 25.46	+00 02 50.0			p	808
1991 VT12		1991 11 09.10435	01 26 23.59	+00 02 53.4			p	808
1991 VT12		1991 11 12.11139	01 24 14.75	+00 07 04.4				808
1991 VT12		1991 11 12.15710	01 24 12.82	+00 07 08.6				808
(1)		1991 07 04.01130	13 36 46.57	-02 15 14.8				808
(1)		1991 07 04.04039	13 36 47.35	-02 15 27.5				808
(23)		1991 07 14.19315	18 59 27.06	-32 01 18.6			g	808
(23)		1991 07 16.17079	18 57 28.43	-32 06 10.1			g	808
(23)		1991 08 10.07969	18 37 29.28	-32 31 45.4			g	808
(51)		1991 12 02.21745	05 25 55.41	+06 44 08.9				808
(51)		1991 12 02.23754	05 25 54.21	+06 44 04.5				808
(51)		1991 12 27.08478	05 01 15.50	+06 13 20.1				808
(51)		1991 12 27.11249	05 01 13.95	+06 13 21.8				808
(52)		1991 09 09.08738	20 49 53.60	-19 38 52.0				808
(52)		1991 09 09.12685	20 49 52.55	-19 38 59.3				808
(86)		1991 11 01.15701	01 25 37.92	+01 39 21.2				808
(86)		1991 11 01.19233	01 25 36.35	+01 39 17.8				808
(86)		1991 11 09.05379	01 20 42.00	+01 30 49.7				808
(86)		1991 11 09.10435	01 20 40.57	+01 30 48.9				808
(86)		1991 11 12.11139	01 19 07.04	+01 30 18.5				808
(86)		1991 11 12.15710	01 19 05.65	+01 30 18.6				808
(107)		1991 09 08.17321	23 21 00.56	-02 44 43.9				808
(107)		1991 09 08.20923	23 20 59.19	-02 44 57.1				808
(107)		1991 10 04.12023	23 05 46.21	-05 18 29.2				808
(107)		1991 10 04.16524	23 05 44.82	-05 18 43.0				808
(129)		1991 09 09.08738	20 47 55.86	-19 51 25.2				808
(129)		1991 09 09.12685	20 47 55.14	-19 51 40.9				808
(148)		1991 11 09.27610	06 01 07.79	-13 24 59.8				808
(148)		1991 11 09.30795	06 01 07.22	-13 25 12.6				808
(148)		1991 12 01.24511	05 48 44.20	-14 49 02.9				808
(148)		1991 12 01.27074	05 48 42.92	-14 49 03.9				808
(243)		1991 12 02.27078	05 43 25.80	+24 58 07.2				808
(243)		1991 12 02.29640	05 43 24.37	+24 58 06.0				808
(284)		1991 08 18.28838	00 34 55.58	+16 42 22.7				808
(284)		1991 08 18.34032	00 34 55.12	+16 42 26.3				808
(361)		1990 08 20.05198	19 27 28.89	-37 21 43.9			g	808
(387)		1991 11 02.20622	02 20 46.22	-14 53 59.3				808
(387)		1991 11 02.23946	02 20 44.44	-14 54 03.8				808
(387)		1991 11 09.14382	02 14 54.89	-15 01 49.5				808
(387)		1991 11 09.17152	02 14 53.52	-15 01 50.0				808
(387)		1991 12 01.07128	02 01 10.35	-14 01 58.8				808
(387)		1991 12 01.10383	02 01 09.48	-14 01 48.1				808
(387)		1991 12 06.06837	01 59 25.66	-13 33 06.1				808

(387)	1991	12	06.10161	01	59	25.02	-13	32	53.6	808
(420)	1991	11	02.06148	23	13	39.32	+03	10	19.1	808
(420)	1991	11	02.10303	23	13	38.95	+03	10	11.5	808
(433)	1991	08	02.00553	15	49	49.02	-29	04	07.9	808
(433)	1991	08	02.02561	15	49	50.45	-29	03	58.7	808
(505)	1991	11	30.20075	04	59	19.62	+16	15	43.5	808
(505)	1991	11	30.24646	04	59	16.89	+16	15	56.6	808
(512)	1991	12	03.17594	05	02	42.98	+12	43	14.0	808
(512)	1991	12	03.22303	05	02	39.34	+12	43	26.2	808
(519)	1991	09	08.09259	20	35	42.10	-36	23	12.4	g 808
(535)	1991	07	16.17079	19	04	02.59	-26	57	09.5	g 808
(563)	1991	07	14.19315	19	07	48.23	-28	12	08.7	g 808
(563)	1991	07	16.17079	19	05	51.31	-28	19	36.2	g 808
(563)	1991	08	10.07969	18	45	03.21	-29	24	54.8	g 808
(571)	1991	09	09.16286	22	58	06.88	-10	30	35.1	808
(571)	1991	09	09.19264	22	58	04.88	-10	30	37.0	808
(571)	1991	09	12.10966	22	55	13.43	-10	34	35.2	808
(571)	1991	09	12.14567	22	55	11.17	-10	34	38.6	808
(651)	1990	08	20.05198	19	25	21.97	-36	59	36.4	g 808
(694)	1991	06	06.04828	14	21	32.87	-14	03	23.1	808
(694)	1991	06	06.08291	14	21	31.63	-14	03	06.3	808
(857)	1991	07	14.19315	19	04	28.64	-27	05	29.6	g 808
(857)	1991	07	16.17079	19	02	22.17	-27	14	51.0	g 808
(857)	1991	08	10.07969	18	43	19.93	-28	30	26.1	g 808
(894)	1991	12	02.13504	02	25	47.26	+03	49	23.5	808
(894)	1991	12	02.18005	02	25	45.85	+03	49	16.3	808
(908)	1991	09	08.09259	20	40	56.10	-33	59	27.5	g 808
(927)	1991	07	18.20369	19	08	59.25	-42	50	30.4	808
(927)	1991	07	18.22586	19	08	57.76	-42	50	30.0	808
(990)	1991	08	12.09714	19	13	54.44	-34	17	09.7	g 808
(992)	1991	12	03.17594	04	59	06.58	+12	16	55.7	808
(992)	1991	12	03.22303	04	59	04.07	+12	16	45.2	808
(1004)	1991	08	14.09985	19	28	46.04	-19	32	01.8	808
(1004)	1991	08	14.13794	19	28	44.76	-19	32	05.7	808
(1032)	1991	08	12.09714	19	15	46.46	-31	47	12.4	g 808
(1071)	1991	07	14.19315	19	03	09.40	-29	07	54.9	g 808
(1096)	1991	09	08.09259	20	46	48.03	-32	43	36.2	g 808
(1139)	1991	07	12.13559	18	30	02.50	-01	09	32.0	808
(1139)	1991	07	12.17021	18	29	59.95	-01	09	32.7	808
(1139)	1991	09	03.00403	18	04	56.41	-05	20	30.6	808
(1139)	1991	09	03.03589	18	04	57.09	-05	20	44.0	808
(1160)	1990	08	19.12951	20	11	07.06	-40	44	03.2	g 808
(1217)	1991	11	09.05379	01	28	51.50	+01	47	26.8	p 808
(1217)	1991	11	09.10435	01	28	49.71	+01	47	17.7	p 808
(1217)	1991	11	12.11139	01	26	42.85	+01	37	12.2	808
(1217)	1991	11	12.15710	01	26	41.06	+01	37	03.3	808
(1257)	1991	09	12.18307	23	42	45.44	+02	36	58.1	808
(1257)	1991	09	12.21042	23	42	43.79	+02	36	45.2	808
(1261)	1991	11	01.06732	23	08	07.77	-08	36	00.3	808
(1261)	1991	11	01.11165	23	08	07.13	-08	36	00.9	808
(1319)	1991	06	06.04828	14	18	21.21	-15	46	35.6	808
(1319)	1991	06	06.08291	14	18	20.60	-15	46	29.4	808
(1320)	1991	07	18.20639	19	03	48.48	-43	40	01.2	808
(1320)	1991	07	18.22586	19	03	46.97	-43	40	11.0	808
(1346)	1991	11	02.14354	02	17	13.27	-06	00	40.6	808
(1346)	1991	11	02.16986	02	17	12.06	-06	00	53.6	808
(1346)	1991	11	06.09799	02	14	18.26	-06	31	17.5	808
(1346)	1991	11	06.12569	02	14	17.10	-06	31	28.6	808
(1346)	1991	11	29.10514	02	02	07.72	-07	44	41.4	808

(1346)	1991	11	29.13353	02	02	07.25	-07	44	40.1	808
(1346)	1991	12	02.06855	02	01	27.89	-07	41	13.8	808
(1346)	1991	12	02.09556	02	01	27.53	-07	41	11.0	808
(1346)	1991	12	04.09495	02	01	09.01	-07	37	20.1	808
(1346)	1991	12	04.12681	02	01	08.67	-07	37	15.9	808
(1385)	1991	11	30.20075	05	03	54.16	+15	14	04.3	808
(1385)	1991	11	30.24646	05	03	51.52	+15	14	06.0	808
(1429)	1990	08	20.05198	19	16	36.44	-37	35	52.4 g	808
(1453)	1991	09	08.24385	00	55	47.47	-02	46	27.2	808
(1453)	1991	09	08.27155	00	55	45.01	-02	46	13.9	808
(1557)	1991	07	14.07334	17	28	02.05	-38	14	20.7	808
(1557)	1991	07	14.11766	17	28	00.08	-38	14	11.4	808
(1577)	1991	11	01.15701	01	33	52.12	+00	01	48.1	808
(1577)	1991	11	01.19233	01	33	50.35	+00	01	41.8	808
(1577)	1991	11	09.05379	01	28	27.11	-00	11	57.8	808
(1577)	1991	11	09.10435	01	28	25.59	-00	11	58.4	808
(1577)	1991	11	12.11139	01	26	48.46	-00	12	32.7	808
(1577)	1991	11	12.15710	01	26	46.99	-00	12	32.3	808
(1595)	1991	11	09.05379	01	27	53.84	+02	20	08.3	808
(1595)	1991	11	09.10435	01	27	52.19	+02	20	02.8	808
(1595)	1991	11	12.11139	01	25	57.80	+02	14	10.7	808
(1595)	1991	11	12.15710	01	25	56.08	+02	14	05.9	808
(1709)	1991	07	18.25633	21	37	42.46	-11	53	11.9	808
(1709)	1991	07	18.28264	21	37	41.58	-11	53	04.2	808
(1709)	1991	08	14.18365	21	14	39.54	-10	22	46.6	808
(1709)	1991	08	14.21481	21	14	37.51	-10	22	42.2	808
(1709)	1991	08	18.18346	21	10	45.89	-10	13	56.8	808
(1709)	1991	08	18.22778	21	10	43.04	-10	13	49.2	808
(1709)	1991	09	03.07190	20	58	10.87	-09	43	57.5	808
(1709)	1991	09	03.10307	20	58	09.68	-09	43	54.3	808
(1709)	1991	09	06.06440	20	56	36.43	-09	38	38.2	808
(1709)	1991	09	06.09626	20	56	35.38	-09	38	33.7	808
(1709)	1991	09	12.04386	20	54	25.28	-09	27	35.1	808
(1709)	1991	09	12.07572	20	54	24.74	-09	27	30.9	808
(1770)	1991	08	12.29195	23	58	42.76	-05	56	30.1	808
(1770)	1991	08	12.34181	23	58	41.52	-05	56	38.2	808
(1770)	1991	08	14.28303	23	57	56.54	-06	01	03.6	808
(1770)	1991	08	14.32216	23	57	55.56	-06	01	08.9	808
(1770)	1991	11	01.06732	23	05	20.50	-08	25	12.7	808
(1770)	1991	11	01.11165	23	05	20.36	-08	25	05.2	808
(1817)	1991	09	11.29764	02	51	02.34	-19	57	14.2 S	808
(1817)	1991	09	11.32881	02	51	01.81	-19	57	29.4 S	808
(1829)	1991	07	18.15141	18	44	26.90	-24	26	25.9	808
(1829)	1991	07	18.17634	18	44	25.13	-24	26	22.1	808
(1881)	1991	11	02.06148	23	07	27.55	+02	29	16.8 p	808
(1881)	1991	11	02.10303	23	07	27.53	+02	29	05.3 p	808
(1974)	1991	09	08.17321	23	27	50.08	-03	37	35.5	808
(1974)	1991	09	08.20923	23	27	48.64	-03	37	50.6	808
(1974)	1991	10	04.12023	23	11	31.73	-06	38	10.7 p	808
(1974)	1991	10	04.16524	23	11	30.29	-06	38	28.8 p	808
(1991)	1991	09	12.18307	23	39	49.15	+03	31	00.1	808
(1991)	1991	09	12.21042	23	39	47.11	+03	30	57.7	808
(2085)	1991	11	09.05379	01	22	03.49	+02	04	16.8	808
(2085)	1991	11	09.10435	01	22	01.96	+02	04	12.3	808
(2085)	1991	11	12.11139	01	20	14.90	+01	58	10.7	808
(2085)	1991	11	12.15710	01	20	13.34	+01	58	05.7	808
(2136)	1991	09	09.16286	22	51	34.32	-11	01	13.3	808
(2136)	1991	09	09.19264	22	51	33.00	-11	01	27.2	808
(2136)	1991	09	12.10966	22	49	31.50	-11	21	54.7	808

(2136)	1991	09	12.14567	22	49	29.90	-11	22	08.3		808
(2179)	1991	07	14.07334	17	33	36.05	-37	36	37.9		808
(2179)	1991	07	14.11766	17	33	33.93	-37	36	33.0		808
(2192)	1991	12	03.17594	05	05	06.82	+11	33	23.8		808
(2192)	1991	12	03.22303	05	05	04.48	+11	33	14.1		808
(2258)	1991	07	18.15141	18	46	40.04	-23	51	59.6		808
(2258)	1991	07	18.17634	18	46	38.49	-23	52	02.7		808
(2272)	1991	11	02.28136	04	15	02.70	-20	14	23.6		808
(2272)	1991	11	02.31322	04	15	01.43	-20	15	08.3		808
(2272)	1991	11	06.22888	04	12	23.06	-21	41	26.7		808
(2272)	1991	11	06.26559	04	12	21.37	-21	42	13.0		808
(2272)	1991	11	09.20961	04	10	03.68	-22	41	38.2		808
(2272)	1991	11	09.24424	04	10	01.90	-22	42	16.7		808
(2272)	1991	11	29.17093	03	51	02.05	-26	49	52.7	p	808
(2272)	1991	11	29.20417	03	51	00.09	-26	50	02.5	p	808
(2284)	1991	08	14.09985	19	34	18.85	-18	20	26.2		808
(2284)	1991	08	14.13794	19	34	17.34	-18	20	32.8		808
(2300)	1991	09	09.16286	23	02	39.75	-09	07	22.6		808
(2300)	1991	09	09.19264	23	02	38.26	-09	07	31.5		808
(2300)	1991	09	12.10966	23	00	15.19	-09	20	01.5		808
(2300)	1991	09	12.14567	23	00	13.30	-09	20	09.3		808
(2329)	1991	11	12.26790	05	11	11.94	-27	07	58.3	s	808
(2329)	1991	11	12.30946	05	11	06.85	-27	08	09.6	s	808
(2329)	1991	12	01.14816	04	36	02.15	-26	22	31.1		808
(2329)	1991	12	01.19664	04	35	57.21	-26	22	06.3		808
(2330)	1991	09	08.24385	00	54	31.90	-03	09	29.5	p	808
(2336)	1991	09	09.16286	22	54	08.64	-11	04	40.4		808
(2336)	1991	09	09.19264	22	54	07.24	-11	04	48.2		808
(2336)	1991	09	12.10966	22	52	02.83	-11	17	23.7		808
(2336)	1991	09	12.14567	22	52	01.21	-11	17	32.5		808
(2369)	1991	09	09.08738	20	46	50.07	-21	59	05.8		808
(2369)	1991	09	09.12685	20	46	49.00	-21	59	06.9		808
(2486)	1991	07	14.07334	17	29	43.02	-36	53	07.9		808
(2486)	1991	07	14.11766	17	29	40.51	-36	52	56.0		808
(2504)	1991	09	09.16286	22	56	22.68	-09	49	27.9		808
(2504)	1991	09	09.19264	22	56	20.98	-09	49	35.2		808
(2504)	1991	09	12.10966	22	53	54.99	-10	00	44.3		808
(2504)	1991	09	12.14567	22	53	53.11	-10	00	53.2		808
(2573)	1991	09	08.09259	20	43	57.93	-36	14	05.3	g	808
(2605)	1991	12	02.13504	02	31	29.70	+03	22	56.1	p	808
(2605)	1991	12	02.18005	02	31	28.27	+03	22	53.7	p	808
(2691)	1991	08	02.05678	17	41	35.96	-26	51	57.0		808
(2691)	1991	08	02.08794	17	41	35.79	-26	51	50.2		808
(2727)	1991	08	18.18346	21	08	21.84	-11	22	59.8	p	808
(2727)	1991	08	18.22778	21	08	19.53	-11	23	11.3	p	808
(2741)	1991	09	09.16286	23	01	44.60	-10	08	25.3		808
(2741)	1991	09	09.19264	23	01	42.97	-10	08	43.2		808
(2741)	1991	09	12.10966	22	59	23.97	-10	34	10.9		808
(2741)	1991	09	12.14567	22	59	22.14	-10	34	28.4		808
(2893)	1991	12	03.22303	05	04	15.96	+12	49	24.3		808
(2911)	1991	09	08.24385	00	58	09.59	-02	16	43.1	p	808
(2911)	1991	09	08.27155	00	58	08.40	-02	16	52.3	p	808
(2996)	1991	09	08.17321	23	21	24.68	-02	41	18.3		808
(2996)	1991	09	08.20923	23	21	22.85	-02	41	28.3		808
(3128)	1991	07	18.15141	18	44	00.73	-23	19	57.5		808
(3128)	1991	07	18.17634	18	43	59.38	-23	20	03.4		808
(3216)	1991	07	18.15141	18	51	22.09	-23	07	58.9	p	808
(3216)	1991	07	18.17634	18	51	20.77	-23	08	11.6	p	808
(3217)	1991	09	09.08738	20	51	26.79	-20	56	05.5		808

(3217)	1991 09 09.12685	20 51 26.08	-20 55 46.8				808
(3330)	1990 08 20.05198	19 05 44.01	-37 16 17.6			g	808
(3502)	1991 07 18.15141	18 46 18.52	-23 05 56.2				808
(3502)	1991 07 18.17634	18 46 17.05	-23 06 02.7				808
(3515)	1991 09 08.17321	23 34 55.39	-02 22 38.0			p	808
(3515)	1991 09 08.20923	23 34 53.79	-02 22 48.3			p	808
(3532)	1991 11 01.15701	01 30 00.44	+00 57 18.6				808
(3532)	1991 11 01.19233	01 29 58.64	+00 57 18.1				808
(3532)	1991 11 09.05379	01 23 57.82	+00 58 57.6				808
(3532)	1991 11 09.10435	01 23 56.03	+00 58 59.6				808
(3532)	1991 11 12.11139	01 21 54.78	+01 01 55.2				808
(3532)	1991 11 12.15710	01 21 53.04	+01 01 59.1				808
(3637)	1991 07 04.01130	13 39 54.82	-03 14 08.4			p	808
(3637)	1991 07 04.04039	13 39 55.96	-03 14 07.2			p	808
(3779)	1990 08 20.05198	19 27 08.61	-39 19 00.6			g	808
(3969)	1991 09 08.17321	23 34 37.85	-02 25 59.8				808
(3969)	1991 09 08.20923	23 34 35.94	-02 26 15.8				808
(3969)	1991 10 04.12023	23 13 36.29	-05 27 17.7			p	808
(3969)	1991 10 04.16524	23 13 34.38	-05 27 29.9			p	808
(3985)	1991 07 14.19315	18 58 54.91	-32 40 14.0			g	808
(4074)	1991 09 12.18307	23 40 38.02	+02 12 28.6				808
(4074)	1991 09 12.21042	23 40 36.66	+02 12 15.6				808
(4082)	1991 08 14.09985	19 36 32.76	-18 31 54.3			p	808
(4082)	1991 08 14.13794	19 36 30.34	-18 31 42.2			p	808
(4153)	1991 07 18.15141	18 46 49.47	-24 29 15.5				808
(4153)	1991 07 18.17634	18 46 48.06	-24 29 16.4			p	808
(4175)	1991 10 04.03158	21 55 30.02	-11 21 29.9			p	808
(4175)	1991 10 04.07660	21 55 29.06	-11 21 41.8			p	808
(4206)	1991 10 04.03158	22 00 54.28	-10 24 18.1			p	808
(4206)	1991 10 04.07660	22 00 53.44	-10 24 24.7			p	808
(4308)	1991 09 06.06440	21 01 40.30	-09 56 24.6				808
(4308)	1991 09 06.09626	21 01 38.81	-09 56 22.6				808
(4547)	1991 08 12.18492	21 35 54.27	-35 39 54.9			g	808
(4547)	1991 08 12.23062	21 35 50.67	-35 39 53.2			g	808
(4988)	1991 09 08.17321	23 21 41.46	-02 35 51.1				808
(4988)	1991 09 08.20923	23 21 39.77	-02 36 06.0				808
(5100)	1991 11 30.20075	05 00 22.71	+15 58 52.4				808
(5100)	1991 11 30.24646	05 00 19.78	+15 58 56.4				808
(5175)	1991 12 03.17594	05 00 11.43	+12 04 12.0				808
(5175)	1991 12 03.22303	05 00 07.64	+12 03 32.5				808

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Observers H. Debehogne, E. W. Elst, G. Pizarro, O. Pizarro
Measurers H. Debehogne, E. W. Elst, J. P. Olivier
1.0-m Schmidt, GPO 0.4-m astrograph
SAOC

1990 OB4	1992 01 30.22708	08 06 56.64	+10 47 38.8	18.6	4		809
1990 OB4	1992 01 30.24028	08 06 55.82	+10 47 40.6		4		809
1990 OB4	1992 01 30.25347	08 06 54.97	+10 47 43.4		4		809
1991 DG1	1991 03 14.22396	10 18 15.83	+08 34 52.0	17.2	3		809
1991 DG1	1991 03 14.23438	10 18 15.48	+08 34 55.6		3		809
1991 DG1	1991 03 14.24479	10 18 15.13	+08 34 59.0		3		809
1991 GA9	1991 03 26.37535	13 28 39.17	-11 11 22.2	17.4	3		809
1991 GA9	1991 03 26.38715	13 28 38.60	-11 11 18.0		3		809
1991 GA9	1991 03 26.39896	13 28 38.03	-11 11 13.5		3		809

1991 GC10		1991 04 19.05347	12 56 41.48	-01 28 55.4	18.7	4	809
1991 GC10		1991 04 19.06667	12 56 40.72	-01 28 54.1		4	809
1991 GC10		1991 04 19.07986	12 56 39.90	-01 28 51.4		4	809
1991 GH11		1991 04 19.09653	13 16 05.82	-04 25 31.4	18.7	4	809
1991 GH11		1991 04 19.10972	13 16 05.02	-04 25 26.1		4	809
1991 GH11		1991 04 19.13194	13 16 04.22	-04 25 21.1		4	809
1991 GK11		1991 04 19.09653	13 16 19.86	-04 28 40.8	19.1	4	809
1991 GK11		1991 04 19.10972	13 16 18.95	-04 28 36.2		4	809
1991 GK11		1991 04 19.13194	13 16 17.72	-04 28 31.3		4	809
1991 JL4		1991 05 17.15972	16 17 15.64	-16 05 49.3	18.6	4	809
1991 JL4		1991 05 17.17292	16 17 14.78	-16 05 50.2		4	809
1991 JL4		1991 05 17.18611	16 17 13.99	-16 05 52.4		4	809
1991 LR4		1991 06 08.18611	16 35 22.52	-12 43 36.2		4	809
1991 LR4		1991 06 08.19931	16 35 21.81	-12 43 37.1		4	809
1991 LR4		1991 06 08.21250	16 35 21.08	-12 43 38.6		4	809
(1479)		1991 04 19.09653	13 03 05.70	-07 22 06.1	17.8	4	809
(1479)		1991 04 19.10972	13 03 04.77	-07 22 04.0		4	809
(1479)		1991 04 19.13194	13 03 03.71	-07 22 01.0		4	809
(2163)		1991 04 08.02361	13 11 14.10	-03 51 57.0	18.5	4	809
(2163)		1991 04 08.03681	13 11 13.61	-03 51 53.3		4	809
(2163)		1991 04 08.05000	13 11 13.13	-03 51 49.9		4	809

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

1988 SO1		1992 05 24.59514	16 03 53.65	-06 33 03.3	16.5	894
1988 SO1		1992 05 24.60903	16 03 53.01	-06 33 02.3		894
1989 NO		1992 04 05.74693	13 52 11.60	-16 11 41.0	16.5	894
1989 NO		1992 04 05.75938	13 52 10.94	-16 11 38.3		894
1990 XB1		1992 05 22.67257	16 11 52.54	-08 05 38.0	16.0	894
1990 XB1		1992 05 22.68646	16 11 51.83	-08 05 40.1		894
1990 XB1		1992 05 24.59514	16 10 08.18	-08 10 55.3		894
1990 XB1		1992 05 24.60903	16 10 07.45	-08 10 56.6		894

896 Yatsugatake South Base Observatory
O. Muramatsu, 119-1, 2-8 Sakurazutsumi, Musashino, Tokyo 180, Japan
Observer Y. Kushida
Measurer O. Muramatsu
0.25-m f/3.4 reflector

1992 HD		1992 06 02.58333	14 15 40.40	-08 07 21.8		896
1992 HH		1992 05 24.58194	14 47 27.44	-00 00 50.4		896

The following discoveries were observed on one night only:

1991 AR3	*	1991 01 15.05556	07 54 09.15	+19 04 18.4	18.0	017
1991 AS3	*	1991 01 15.05556	08 00 13.18	+20 01 01.2	17.8	017
1991 AT3	*	1991 01 15.05556	08 00 27.46	+18 24 49.8	18.0	017
1991 AU3	*	1991 01 15.05556	08 11 02.33	+20 08 30.3		017
1991 AV3	*	1991 01 15.94722	07 51 46.17	+20 48 46.1		017
1991 AV3		1991 01 15.97014	07 51 44.69	+20 48 48.2		017
1991 AV3		1991 01 15.99028	07 51 42.86	+20 48 44.3	18.0	017
1991 AV3		1991 01 16.01319	07 51 40.92	+20 48 42.1		017
1991 AW3	*	1991 01 15.94722	07 52 41.74	+21 28 12.4		017
1991 AW3		1991 01 15.97014	07 52 40.29	+21 28 03.2		017
1991 AW3		1991 01 15.99028	07 52 39.47	+21 27 57.3	18.0	017
1991 AW3		1991 01 16.01319	07 52 38.79	+21 27 52.2		017
1991 AX3	*	1991 01 15.94722	07 54 39.37	+18 50 49.8		017
1991 AX3		1991 01 15.97014	07 54 38.22	+18 50 37.9		017

1991 AX3		1991 01 15.99028	07 54 38.27	+18 50 25.6	17.7			017
1991 AX3		1991 01 16.01319	07 54 36.64	+18 50 20.1				017
1991 AY3	*	1991 01 15.94722	08 09 59.65	+20 16 25.9				017
1991 AY3		1991 01 15.97014	08 09 58.20	+20 16 23.8				017
1991 AY3		1991 01 15.99028	08 09 55.32	+20 16 23.1	18.0			017
1991 AY3		1991 01 16.01319	08 09 53.73	+20 16 20.8				017
1991 AZ3	*	1991 01 14.80833	03 16 04.86	+31 17 07.7	17.4			033
1991 AZ3		1991 01 14.85417	03 16 05.09	+31 16 53.3				033
1991 AA4	*	1991 01 14.80833	03 17 20.59	+31 12 22.4	17.8			033
1991 AA4		1991 01 14.85417	03 17 21.76	+31 12 00.5				033
1991 AB4	*	1991 01 05.77628	05 27 40.36	+15 31 08.6	17.0			046
1991 AB4		1991 01 05.79052	05 27 39.59	+15 31 08.3				046
1991 AC4	*	1991 01 05.77628	05 29 23.37	+15 23 11.1				046
1991 AC4		1991 01 05.79052	05 29 22.75	+15 23 10.9				046
1991 AD4	*	1991 01 05.77628	05 30 49.90	+13 48 50.1	17.0			046
1991 AD4		1991 01 05.79052	05 30 49.00	+13 48 53.9				046
1991 AE4	*	1991 01 05.77628	05 35 10.70	+15 59 13.9				046
1991 AE4		1991 01 05.79052	05 35 10.34	+15 59 11.9				046
1991 AF4	*	1991 01 14.85671	06 12 16.97	+29 42 06.3				046
1991 AF4		1991 01 14.87083	06 12 16.35	+29 42 09.8				046
1991 AG4	*	1991 01 14.85671	06 17 38.76	+29 43 43.0	16.9			046
1991 AG4		1991 01 14.87083	06 17 37.89	+29 43 43.5				046
1991 AH4	*	1991 01 14.90596	06 57 16.03	+22 24 26.0	16.6			046
1991 AH4		1991 01 14.92014	06 57 15.46	+22 24 31.0				046
1991 AJ4	*	1991 01 14.85021	04 08 29.97	+24 44 09.5	16.5			049
1991 AJ4		1991 01 14.87387	04 08 30.57	+24 44 05.1				049
1991 AK4	*	1991 01 13.93187	07 15 27.84	+23 14 35.0			D	071
1991 AK4		1991 01 13.98049	07 15 25.03	+23 14 56.2			D	071
1991 AL4	*	1991 01 06.52535	06 52 12.66	+32 31 59.5	19			372
1991 AL4		1991 01 06.53750	06 52 11.65	+32 32 01.2				372
1991 AM4	*	1991 01 06.52535	06 52 53.31	+32 39 17.8	18.5			372
1991 AM4		1991 01 06.53750	06 52 52.35	+32 39 26.0				372
1991 AN4	*	1991 01 06.52535	06 54 19.35	+32 07 12.4	18			372
1991 AN4		1991 01 06.53750	06 54 18.58	+32 07 16.4				372
1991 AO4	*	1991 01 07.39167	22 15 24.65	-05 22 09.3	17			372
1991 AO4		1991 01 07.41500	22 15 27.04	-05 21 56.6				372
1991 AP4	*	1991 01 12.58924	07 56 34.44	+08 05 36.4	18.5			372
1991 AQ4	*	1991 01 07.56338	06 33 08.39	+14 02 49.8	17	V	F	413
1991 AQ4		1991 01 07.62588	06 33 04.52	+14 02 51.0			F	413
1991 AR4	*	1991 01 10.44510	05 02 36.43	-09 37 52.2	16.5	V		413
1991 AR4		1991 01 10.49719	05 02 34.90	-09 37 33.6				413
1991 AS4	*	1991 01 10.44510	05 06 32.62	-12 19 18.3	18.5	V		413
1991 AS4		1991 01 10.49719	05 06 30.27	-12 18 55.7				413
1991 AU4	*	1991 01 15.41059	08 08 39.27	+24 20 42.4				675
1991 AU4		1991 01 15.43819	08 08 37.15	+24 20 42.2				675
1991 AV4	*	1991 01 14.28194	09 21 55.69	+24 22 32.9	17			801
1991 AV4		1991 01 14.30188	09 21 54.54	+24 22 33.4				801
1991 BF3	*	1991 01 18.92986	06 37 40.55	+45 29 48.5	18.5			033
1991 BF3		1991 01 18.97708	06 37 37.53	+45 29 34.5				033
1991 BF3		1991 01 19.00278	06 37 35.94	+45 29 24.3				033
1991 BG3	*	1991 01 18.92986	06 37 56.82	+43 46 20.0	18			033
1991 BG3		1991 01 18.97708	06 37 53.73	+43 46 14.3				033
1991 BG3		1991 01 19.00278	06 37 52.51	+43 46 11.8				033
1991 BH3	*	1991 01 18.92986	06 40 47.36	+43 20 11.9	17.5			033
1991 BH3		1991 01 18.97708	06 40 44.25	+43 20 11.6				033
1991 BH3		1991 01 19.00278	06 40 42.82	+43 20 11.4				033
1991 BJ3	*	1991 01 18.92986	06 43 25.93	+45 26 56.8	16.7			033
1991 BJ3		1991 01 18.97708	06 43 23.19	+45 26 42.8				033
1991 BJ3		1991 01 19.00278	06 43 21.95	+45 26 35.9				033

1991	BK3	*	1991	01	18.92986	06	50	33.42	+44	05	57.3	15.7		033
1991	BK3		1991	01	18.97708	06	50	30.08	+44	05	53.7			033
1991	BK3		1991	01	19.00278	06	50	28.54	+44	05	50.8			033
1991	BL3	*	1991	01	17.78406	07	01	15.14	+25	20	58.1	16.9		046
1991	BL3		1991	01	17.79832	07	01	14.50	+25	21	05.7			046
1991	BM3	*	1991	01	17.78406	07	01	43.17	+27	16	40.8	16.8		046
1991	BM3		1991	01	17.79832	07	01	42.35	+27	16	40.5			046
1991	BN3	*	1991	01	17.78406	07	02	32.92	+26	41	17.7	16.9		046
1991	BN3		1991	01	17.79832	07	02	32.21	+26	41	23.0			046
1991	BO3	*	1991	01	17.85451	07	56	17.65	+21	57	46.9	16.9		046
1991	BO3		1991	01	17.86748	07	56	17.04	+21	57	50.9			046
1991	BP3	*	1991	01	19.83576	08	03	58.43	+21	52	33.0	16.7		046
1991	BP3		1991	01	19.84844	08	03	57.77	+21	52	31.5			046
1991	BQ3	*	1991	01	19.83576	08	13	30.77	+20	30	00.3	16.2		046
1991	BQ3		1991	01	19.84844	08	13	30.02	+20	30	06.7			046
1991	BR3	*	1991	01	16.97914	07	12	43.90	+23	38	01.1			071
1991	BR3		1991	01	17.00368	07	12	42.54	+23	38	12.3			071
1991	BS3	*	1991	01	23.66319	07	46	41.53	+08	54	21.0	19		372
1991	BS3		1991	01	23.67361	07	46	41.04	+08	54	24.4			372
1991	BT3	*	1991	01	16.64236	07	31	36.90	+29	32	07.9	16.5		391
1991	BU3	*	1991	01	18.68472	07	29	18.07	+29	23	53.7	17.0		391
1991	BV3	*	1991	01	19.62708	07	28	09.36	+29	20	50.9	17.0		391
1991	BW3	*	1991	01	17.67458	10	50	13.73	-28	10	09.8	18 V	F	413
1991	BW3		1991	01	17.71972	10	50	13.02	-28	10	24.7		F	413
1991	BX3	*	1991	01	17.67458	11	14	11.08	-27	23	20.8	17 V		413
1991	BX3		1991	01	17.71972	11	14	09.71	-27	23	33.6			413
1991	BY3	*	1991	01	20.69895	10	55	54.77	-11	56	05.7	16.5 V		413
1991	BY3		1991	01	20.74409	10	55	54.52	-11	55	53.9			413
1991	BZ3	*	1991	01	20.69895	11	10	59.09	-08	37	49.6	17 V		413
1991	BZ3		1991	01	20.74409	11	10	58.38	-08	38	03.8			413
1991	BA4	*	1991	01	18.98472	08	05	01.56	+18	21	15.0	17.7		511
1991	BB4	*	1991	01	18.98472	08	05	45.16	+20	56	04.6	18.0		511
1991	BC4	*	1991	01	18.26944	06	47	44.85	+15	17	00.3	17.6		675
1991	BC4		1991	01	18.30174	06	47	44.00	+15	17	04.1			675
1991	BD4	*	1991	01	18.13786	07	23	14.91	+11	19	10.5	18		801
1991	BD4		1991	01	18.16089	07	23	13.17	+11	18	58.8			801
1991	BE4	*	1991	01	18.19631	07	39	59.83	+22	56	53.4	18		801
1991	BE4		1991	01	18.21506	07	39	58.46	+22	56	58.9			801
1991	BF4	*	1991	01	18.23149	07	53	49.32	+18	19	35.7	18.5		801
1991	BF4		1991	01	18.25113	07	53	48.01	+18	19	41.3			801
1991	BG4	*	1991	01	18.25890	08	22	31.48	+14	04	13.7	18.5		801
1991	BG4		1991	01	18.27259	08	22	30.47	+14	04	15.1			801
1991	BJ4	*	1991	01	20.11105	07	33	50.87	+13	34	23.9		p	808
1991	BJ4		1991	01	20.13459	07	33	49.54	+13	34	22.3		p	808
1991	CT3	*	1991	02	07.57882	09	32	23.06	+19	03	45.5	18		372
1991	CT3		1991	02	07.59236	09	32	22.47	+19	03	54.4			372
1991	CU3	*	1991	02	07.57882	09	33	19.57	+18	21	56.2	18.5		372
1991	CU3		1991	02	07.59236	09	33	18.80	+18	21	59.9			372
1991	CV3	*	1991	02	10.74653	10	32	49.74	+06	08	07.4	18		372
1991	CV3		1991	02	10.75757	10	32	49.18	+06	08	09.2			372
1991	CW3	*	1991	02	12.55056	09	45	54.41	+12	20	19.0	18		372
1991	CW3		1991	02	12.55903	09	45	54.21	+12	20	24.2			372
1991	CX3	*	1991	02	12.58333	09	50	05.19	+20	30	53.7	18.5		372
1991	CX3		1991	02	12.59861	09	50	04.62	+20	30	58.2			372
1991	CY3	*	1991	02	12.63611	10	41	46.63	+15	03	57.7	19		372
1991	CY3		1991	02	12.64444	10	41	46.16	+15	04	06.5			372
1991	CZ3	*	1991	02	12.65278	11	14	12.70	+10	35	13.8	18		372
1991	CZ3		1991	02	12.66181	11	14	12.27	+10	35	18.7			372
1991	CA4	*	1991	02	12.76840	12	11	49.56	+02	52	38.3	16.5		372

1991 CA4		1991	02	12.77951	12	11	49.13	+02	52	38.3			372
1991 CB4	*	1991	02	09.52431	08	23	44.47	+08	35	30.3	17.0		402
1991 CB4		1991	02	09.54485	08	23	43.40	+08	35	23.6			402
1991 CC4	*	1991	02	10.55433	09	15	53.17	-18	15	30.8	17	V	413
1991 CC4		1991	02	10.59600	09	15	50.96	-18	15	19.0			413
1991 CD4	*	1991	02	12.66106	11	37	50.14	-24	40	23.0	18.5	V V	413
1991 CD4		1991	02	12.70273	11	37	47.80	-24	40	46.5		V	413
1991 CE4	*	1991	02	15.80098	02	20	40.63	+12	33	50.6	18.2		493
1991 CE4		1991	02	15.82182	02	20	42.75	+12	33	59.2			493
1991 CF4	*	1991	02	15.80098	02	23	55.15	+09	34	12.9	18		493
1991 CF4		1991	02	15.82182	02	23	55.96	+09	34	18.9			493
1991 CG4	*	1991	02	15.80098	02	24	20.14	+10	32	39.1	18.2		493
1991 CG4		1991	02	15.82182	02	24	21.36	+10	32	42.4			493
1991 CH4	*	1991	02	15.80098	02	24	45.73	+13	13	10.0	17.5		493
1991 CH4		1991	02	15.82182	02	24	46.55	+13	13	12.6			493
1991 CJ4	*	1991	02	15.80098	02	25	38.71	+12	36	38.7	19		493
1991 CJ4		1991	02	15.82182	02	25	40.00	+12	36	44.7			493
1991 CK4	*	1991	02	15.80098	02	31	28.44	+10	47	13.1	18.3		493
1991 CK4		1991	02	15.82182	02	31	29.32	+10	47	18.1			493
1991 CL4	*	1991	02	12.05347	09	56	25.72	+11	01	12.5	18.0		511
1991 CL4		1991	02	12.08889	09	56	22.95	+11	01	32.8			511
1991 CM4	*	1991	02	12.05347	10	00	00.19	+09	42	03.4	17.6		511
1991 CM4		1991	02	12.08889	09	59	58.52	+09	42	18.5			511
1991 CN4	*	1991	02	12.05347	10	03	01.01	+08	45	49.4	18.0		511
1991 CN4		1991	02	12.08889	10	02	57.82	+08	45	40.4			511
1991 CO4	*	1991	02	12.05347	10	06	43.13	+10	31	29.9	17.8		511
1991 CO4		1991	02	12.08889	10	06	41.07	+10	31	48.8			511
1991 CP4	*	1991	02	12.05347	10	07	33.82	+08	09	54.5	17.7		511
1991 CP4		1991	02	12.08889	10	07	30.68	+08	09	45.5			511
1991 CQ4	*	1991	02	14.89722	09	15	06.50	+14	52	00.5	18.5		511
1991 CR4	*	1991	02	14.89722	09	21	15.24	+17	02	16.7	18.5		511
1991 CS4	*	1991	02	14.89722	09	29	16.92	+15	57	55.4	19.0		511
1991 CT4	*	1991	02	14.95208	09	35	36.78	+11	54	49.3	18.2		511
1991 CU4	*	1991	02	09.24236	08	48	07.09	+15	01	28.1	17.2		675
1991 CU4		1991	02	09.27309	08	48	05.03	+15	01	38.2			675
1991 CV4	*	1991	02	09.24236	08	48	33.09	+17	14	11.7	17.5		675
1991 CV4		1991	02	09.27309	08	48	31.45	+17	14	21.5			675
1991 CW4	*	1991	02	09.24236	08	52	21.08	+15	10	22.4	18.5		675
1991 CW4		1991	02	09.27309	08	52	19.56	+15	10	29.1			675
1991 CX4	*	1991	02	09.24236	08	54	07.12	+14	32	16.6	17.0		675
1991 CX4		1991	02	09.27309	08	54	05.66	+14	32	29.3			675
1991 CY4	*	1991	02	09.24236	08	56	07.25	+21	08	43.8	16.8		675
1991 CY4		1991	02	09.27309	08	56	05.63	+21	08	56.2			675
1991 CZ4	*	1991	02	09.24236	08	56	20.13	+14	00	20.5	18.5		675
1991 CZ4		1991	02	09.27309	08	56	18.07	+14	00	31.6			675
1991 CA5	*	1991	02	09.24236	09	02	30.21	+20	35	29.1	18.0		675
1991 CA5		1991	02	09.27309	09	02	28.08	+20	35	29.0			675
1991 CB5	*	1991	02	11.20972	08	09	31.66	+17	15	36.6	16.8		675
1991 CB5		1991	02	11.23958	08	09	30.26	+17	15	42.8			675
1991 CC5	*	1991	02	11.20972	08	26	29.32	+14	18	29.4	16.8		675
1991 CC5		1991	02	11.23958	08	26	27.62	+14	18	55.5			675
1991 CD5	*	1991	02	11.20972	08	31	49.97	+19	01	19.6	16.8		675
1991 CD5		1991	02	11.23958	08	31	48.17	+19	01	20.9			675
1991 CE5	*	1991	02	11.20972	08	34	20.09	+20	48	24.4	17.2		675
1991 CE5		1991	02	11.23958	08	34	18.27	+20	48	29.6			675
1991 CF5	*	1991	02	11.20972	08	34	53.32	+20	57	59.5	17.8		675
1991 CF5		1991	02	11.23958	08	34	51.55	+20	57	57.7			675
1991 CG5	*	1991	02	12.27575	11	37	02.62	-15	30	40.4		p	808
1991 CG5		1991	02	12.31661	11	37	01.81	-15	30	08.6		p	808

1991 CH5	*	1991	02	12.64063	09	54	28.60	+20	45	43.2	17		875
1991 CH5		1991	02	12.66019	09	54	27.44	+20	45	50.0			875
1991 CJ5	*	1991	02	12.58368	10	03	00.85	+17	25	17.1	16.5		877
1991 CJ5		1991	02	12.60174	10	02	59.57	+17	25	18.3			877
1991 CK5	*	1991	02	08.62292	07	38	22.50	+16	54	33.6	16.5		889
1991 CK5		1991	02	08.64479	07	38	21.68	+16	54	42.9			889
1991 CL5	*	1991	02	07.71806	10	36	13.00	+13	26	58.0	17		896
1991 CL5		1991	02	07.75524	10	36	11.1	+13	26	50		W	896
1991 DP1	*	1991	02	17.91361	09	58	28.48	+07	32	20.6	16.9		046
1991 DP1		1991	02	17.92796	09	58	27.81	+07	32	29.0			046
1991 DQ1	*	1991	02	19.93177	09	52	15.34	+09	36	20.0			046
1991 DQ1		1991	02	19.94450	09	52	14.92	+09	36	34.9			046
1991 DR1	*	1991	02	22.17708	10	13	14.25	-01	42	44.0			304
1991 DR1		1991	02	22.18542	10	13	13.80	-01	42	41.4			304
1991 DR1		1991	02	22.25278	10	13	09.89	-01	42	15.8			304
1991 DS1	*	1991	02	22.17708	10	13	16.66	-01	47	04.9			304
1991 DS1		1991	02	22.18542	10	13	16.27	-01	47	03.0			304
1991 DS1		1991	02	22.25278	10	13	13.00	-01	46	08.4			304
1991 DT1	*	1991	02	23.23889	10	13	34.71	-01	44	17.6			304
1991 DT1		1991	02	23.24653	10	13	34.24	-01	44	16.0			304
1991 DT1		1991	02	23.25625	10	13	33.70	-01	44	14.8			304
1991 DU1	*	1991	02	16.59236	09	56	16.44	+18	45	56.5	17.5		372
1991 DU1		1991	02	16.60191	09	56	15.70	+18	46	03.1			372
1991 DV1	*	1991	02	19.64375	10	36	37.24	+06	41	34.9	16.5		372
1991 DV1		1991	02	19.65347	10	36	36.95	+06	41	39.8			372
1991 DW1	*	1991	02	17.61753	10	43	15.3	+18	50	45	16.0		403
1991 DW1		1991	02	17.62830	10	43	14.7	+18	50	48			403
1991 DX1	*	1991	02	20.71801	10	53	12.37	+08	17	09.3			413
1991 DY1	*	1991	02	20.71801	11	08	24.61	+08	28	12.1			413
1991 DZ1	*	1991	02	22.66216	11	30	40.24	-33	00	42.3	17.5 V		413
1991 DZ1		1991	02	22.71078	11	30	44.04	-32	59	22.0			413
1991 DA2	*	1991	02	24.54589	10	12	11.73	+00	59	12.5	16.5 V		413
1991 DA2		1991	02	24.67089	10	12	04.66	+00	59	40.5			413
1991 DB2	*	1991	02	24.54589	10	30	17.43	+00	47	51.9	17 V	V	413
1991 DB2		1991	02	24.67089	10	30	12.63	+00	48	13.0		V	413
1991 DC2	*	1991	02	24.54589	10	32	27.68	-00	12	26.5	16.5 V	F	413
1991 DC2		1991	02	24.67089	10	32	20.06	-00	12	24.7		F	413
1991 DD2	*	1991	02	23.17616	13	52	53.95	+01	25	03.9	18.5		493
1991 DD2		1991	02	23.19282	13	52	53.90	+01	25	08.2			493
1991 DD2		1991	02	23.20949	13	52	53.84	+01	25	12.5			493
1991 DE2	*	1991	02	23.17616	13	52	59.37	+02	56	29.7	19.0		493
1991 DE2		1991	02	23.19282	13	52	59.26	+02	56	33.5			493
1991 DE2		1991	02	23.20949	13	52	59.10	+02	56	38.4			493
1991 DF2	*	1991	02	23.17616	14	00	10.01	+01	15	53.5	16.0		493
1991 DF2		1991	02	23.19282	14	00	09.43	+01	15	50.1			493
1991 DF2		1991	02	23.20949	14	00	08.91	+01	15	45.9			493
1991 DG2	*	1991	02	23.17616	14	03	23.17	+03	04	29.3	18.0		493
1991 DG2		1991	02	23.19282	14	03	23.06	+03	04	31.8			493
1991 DG2		1991	02	23.20949	14	03	22.95	+03	04	35.3			493
1991 DH2	*	1991	02	23.17616	14	05	19.81	+00	21	33.6	18.0		493
1991 DH2		1991	02	23.19282	14	05	19.69	+00	21	35.3			493
1991 DH2		1991	02	23.20949	14	05	19.58	+00	21	37.0			493
1991 DJ2	*	1991	02	22.06007	09	48	53.50	+11	21	16.8			511
1991 DK2	*	1991	02	22.06007	10	00	26.20	+12	06	55.2			511
1991 DL2	*	1991	02	22.06007	10	00	55.50	+11	30	07.8	17.8		511
1991 DM2	*	1991	02	22.09998	08	54	35.72	+27	20	24.5	17.9 V		691
1991 DM2		1991	02	22.11399	08	54	34.91	+27	20	22.3			691
1991 DM2		1991	02	22.12785	08	54	34.10	+27	20	20.1			691
1991 DN2	*	1991	02	17.55174	10	17	10.79	+19	27	45.0	17		881

1991 DN2		1991 02 17.57535	10 17 09.47	+19 27 43.1					881
1991 DO2	*	1991 02 23.58854	10 36 01.42	+19 47 42.8		16.0			886
1991 DO2		1991 02 23.59931	10 36 00.70	+19 47 45.9					886
1991 DP2	*	1991 02 23.79063	12 22 43.61	+02 02 28.0		17			889
1991 DP2		1991 02 23.81007	12 22 43.06	+02 02 28.6					889
1991 DQ2	*	1991 02 20.66561	10 09 27.77	+12 23 04.4		17			898
1991 DQ2		1991 02 20.68728	10 09 26.54	+12 23 15.2					898
1991 EU5	*	1991 03 07.90417	10 28 15.61	+11 40 54.8		16.8			046
1991 EU5		1991 03 07.91840	10 28 14.87	+11 40 59.7					046
1991 EV5	*	1991 03 07.90417	10 30 22.09	+09 25 25.1		16.9			046
1991 EV5		1991 03 07.91840	10 30 21.33	+09 25 27.6					046
1991 EW5	*	1991 03 07.90417	10 31 21.39	+07 59 53.8		16.8			046
1991 EW5		1991 03 07.91840	10 31 20.98	+07 59 48.3					046
1991 EX5	*	1991 03 07.90417	10 31 43.80	+08 49 23.8		16.8			046
1991 EX5		1991 03 07.91840	10 31 43.35	+08 49 22.7					046
1991 EY5	*	1991 03 07.90417	10 32 50.05	+09 11 21.9		16.9			046
1991 EY5		1991 03 07.91840	10 32 49.49	+09 11 23.8					046
1991 EZ5	*	1991 03 14.85182	11 23 04.17	+06 57 23.7					046
1991 EZ5		1991 03 14.86594	11 23 03.48	+06 55 34.3					046
1991 EA6	*	1991 03 14.92138	11 39 27.65	+08 43 32.2		16.7			046
1991 EA6		1991 03 14.93405	11 39 26.88	+08 43 45.1					046
1991 EB6	*	1991 03 14.92138	11 39 59.17	+10 01 12.1		17.0			046
1991 EB6		1991 03 14.93405	11 39 58.58	+10 01 17.2					046
1991 EC6	*	1991 03 14.92138	11 45 02.14	+08 42 51.6		16.8			046
1991 EC6		1991 03 14.93405	11 45 01.40	+08 43 06.8					046
1991 ED6	*	1991 03 14.92138	11 47 26.38	+09 43 15.0		17.0			046
1991 ED6		1991 03 14.93405	11 47 26.13	+09 43 16.8					046
1991 EE6	*	1991 03 05.77083	09 06 34.54	+17 37 21.0					071
1991 EE6		1991 03 05.79653	09 06 32.72	+17 37 10.3					071
1991 EF6	*	1991 03 05.79653	09 06 40.92	+17 24 12.1					071
1991 EG6	*	1991 03 05.82153	10 09 32.52	+13 59 10.4					071
1991 EG6		1991 03 05.84861	10 09 31.43	+13 59 19.8					071
1991 EH6	*	1991 03 05.82153	10 10 21.11	+11 47 00.0					071
1991 EH6		1991 03 05.84861	10 10 20.11	+11 47 12.8					071
1991 EJ6	*	1991 03 05.82153	10 22 47.39	+11 18 24.2					071
1991 EJ6		1991 03 05.84861	10 22 46.19	+11 18 31.9					071
1991 EK6	*	1991 03 05.82153	10 25 38.80	+12 50 53.9					071
1991 EK6		1991 03 05.84861	10 25 37.10	+12 51 02.5					071
1991 EL6	*	1991 03 05.87292	11 24 55.07	+08 01 37.6					071
1991 EL6		1991 03 05.89462	11 24 53.98	+08 01 47.6					071
1991 EM6	*	1991 03 06.55382	09 03 34.36	+19 04 19.7		18.5			372
1991 EM6		1991 03 06.56736	09 03 33.66	+19 04 17.1					372
1991 EN6	*	1991 03 06.57795	10 20 28.51	+19 04 59.9		18			372
1991 EN6		1991 03 06.58924	10 20 27.67	+19 05 05.8					372
1991 EO6	*	1991 03 06.57795	10 20 57.07	+18 26 10.8		17			372
1991 EO6		1991 03 06.58924	10 20 56.54	+18 26 13.5					372
1991 EP6	*	1991 03 06.57795	10 21 46.73	+18 39 49.1		17.5			372
1991 EP6		1991 03 06.58924	10 21 46.19	+18 39 55.8					372
1991 EQ6	*	1991 03 06.57795	10 22 45.11	+18 39 46.1		18			372
1991 EQ6		1991 03 06.58924	10 22 44.70	+18 39 51.4					372
1991 ER6	*	1991 03 06.57795	10 24 04.59	+18 43 42.8		17.5			372
1991 ER6		1991 03 06.58924	10 24 04.28	+18 43 47.5					372
1991 ES6	*	1991 03 06.64375	10 31 29.66	+07 13 40.9		17.5			372
1991 ES6		1991 03 06.65521	10 31 28.89	+07 13 41.4					372
1991 ET6	*	1991 03 06.64375	10 32 02.02	+07 43 57.9		18			372
1991 ET6		1991 03 06.65521	10 32 01.58	+07 44 01.1					372
1991 EU6	*	1991 03 06.72569	11 15 07.31	+15 10 20.3		17.5			372
1991 EU6		1991 03 06.73646	11 15 06.97	+15 10 21.2					372
1991 EV6	*	1991 03 06.74514	11 46 22.67	+06 50 31.0		17			372

1991 EV6		1991	03	06.75590	11	46	22.37	+06	50	30.8		372
1991 EW6	*	1991	03	09.65868	15	01	33.05	+01	17	17.2	17.5	372
1991 EW6		1991	03	09.67083	15	01	33.18	+01	17	17.9		372
1991 EX6	*	1991	03	09.75764	11	22	07.16	+15	05	03.4	17	372
1991 EX6		1991	03	09.76840	11	22	06.41	+15	05	09.1		372
1991 EY6	*	1991	03	14.62674	11	09	24.40	+12	33	17.3	17	372
1991 EY6		1991	03	14.63819	11	09	24.06	+12	33	20.6		372
1991 EY6		1991	03	14.63819	11	09	24.06	+12	33	20.6		372
1991 EZ6	*	1991	03	14.69549	11	15	56.56	+16	09	14.4	17.5	372
1991 EZ6		1991	03	14.70590	11	15	56.07	+16	09	16.7		372
1991 EA7	*	1991	03	05.57118	11	07	58.87	+10	29	08.8	16.0	400
1991 EA7		1991	03	05.58646	11	07	58.19	+10	29	09.3		400
1991 EB7	*	1991	03	10.02014	08	37	08.65	+17	54	31.0	17.5	809
1991 EB7		1991	03	10.03958	08	37	08.22	+17	54	33.5		809
1991 EB7		1991	03	10.05903	08	37	07.78	+17	54	36.1		809
1991 EC7	*	1991	03	10.19236	12	41	24.50	-05	34	08.7	17.3	809
1991 EC7		1991	03	10.20486	12	41	24.05	-05	34	06.7		809
1991 EC7		1991	03	10.21736	12	41	23.57	-05	34	04.7		809
1991 ED7	*	1991	03	11.05868	10	33	20.80	+07	13	51.7	17.4	809
1991 ED7		1991	03	11.06910	10	33	20.46	+07	13	56.1		809
1991 ED7		1991	03	11.07951	10	33	20.11	+07	14	00.7		809
1991 EE7	*	1991	03	11.12396	10	40	30.96	+09	47	20.1	17.6	809
1991 EE7		1991	03	11.13438	10	40	30.47	+09	47	21.1		809
1991 EE7		1991	03	11.14479	10	40	29.95	+09	47	22.1		809
1991 EF7	*	1991	03	12.01285	09	35	25.24	+12	50	37.0	17.5	809
1991 EF7		1991	03	12.02604	09	35	24.74	+12	50	38.4		809
1991 EF7		1991	03	12.03924	09	35	24.23	+12	50	39.9		809
1991 EG7	*	1991	03	12.05451	09	46	40.51	+13	47	29.2	17.5	809
1991 EG7		1991	03	12.06910	09	46	39.98	+13	47	33.7		809
1991 EG7		1991	03	12.08368	09	46	39.45	+13	47	38.3		809
1991 EH7	*	1991	03	12.13368	10	44	58.75	+08	15	18.6	17.6	809
1991 EH7		1991	03	12.14410	10	44	58.19	+08	15	22.7		809
1991 EH7		1991	03	12.15451	10	44	57.63	+08	15	26.9		809
1991 EJ7	*	1991	03	12.20521	11	40	06.59	-01	07	05.0	17.8	809
1991 EJ7		1991	03	12.21562	11	40	06.20	-01	06	58.9		809
1991 EJ7		1991	03	12.22604	11	40	05.82	-01	06	52.7		809
1991 EK7	*	1991	03	12.20521	11	42	33.73	-01	45	37.5	17.7	809
1991 EK7		1991	03	12.21562	11	42	33.23	-01	45	33.8		809
1991 EK7		1991	03	12.22604	11	42	32.73	-01	45	30.0		809
1991 EL7	*	1991	03	12.20521	11	43	03.30	-00	29	41.5	17.6	809
1991 EL7		1991	03	12.21562	11	43	02.65	-00	29	39.3		809
1991 EL7		1991	03	12.22604	11	43	02.00	-00	29	37.4		809
1991 EM7	*	1991	03	13.06076	09	50	24.25	+13	03	48.2	17.8	809
1991 EM7		1991	03	13.07535	09	50	23.99	+13	03	50.8		809
1991 EM7		1991	03	13.08993	09	50	23.71	+13	03	53.4		809
1991 EN7	*	1991	03	13.15868	10	35	28.73	+11	07	06.4	17.5	809
1991 EN7		1991	03	13.16910	10	35	28.18	+11	07	10.9		809
1991 EN7		1991	03	13.17951	10	35	27.64	+11	07	15.3		809
1991 EO7	*	1991	03	13.22743	11	51	40.29	+02	21	52.0	17.2	809
1991 EO7		1991	03	13.23785	11	51	39.71	+02	22	02.0		809
1991 EO7		1991	03	13.24826	11	51	39.14	+02	22	12.1		809
1991 EP7	*	1991	03	13.33576	12	12	14.31	-01	06	31.3	17.5	809
1991 EP7		1991	03	13.34618	12	12	13.80	-01	06	26.1		809
1991 EP7		1991	03	13.35660	12	12	13.29	-01	06	20.8		809
1991 EQ7	*	1991	03	13.33576	12	12	57.08	-01	16	52.2	17.5	809
1991 EQ7		1991	03	13.34618	12	12	56.56	-01	16	46.2		809
1991 EQ7		1991	03	13.35660	12	12	56.02	-01	16	39.2		809
1991 ER7	*	1991	03	14.06632	09	30	15.44	+15	49	48.9	17.8	809

1991 ER7		1991	03	14.08090	09	30	14.91	+15	49	55.0			809
1991 ER7		1991	03	14.09549	09	30	14.37	+15	50	01.1			809
1991 ES7	*	1991	03	14.06632	09	35	38.13	+15	59	30.0	17.6		809
1991 ES7		1991	03	14.08090	09	35	37.65	+15	59	34.4			809
1991 ES7		1991	03	14.09549	09	35	37.20	+15	59	38.8			809
1991 ET7	*	1991	03	14.18993	10	52	01.09	+06	57	03.0	17.7		809
1991 ET7		1991	03	14.20035	10	52	00.60	+06	57	04.3			809
1991 ET7		1991	03	14.21076	10	52	00.10	+06	57	05.6			809
1991 EU7	*	1991	03	15.01354	09	23	53.02	+18	16	58.8	17.3		809
1991 EU7		1991	03	15.02812	09	23	52.50	+18	17	02.2			809
1991 EU7		1991	03	15.04271	09	23	51.98	+18	17	05.6			809
1991 EV7	*	1991	03	15.05868	09	41	32.48	+14	26	11.7	17.5		809
1991 EV7		1991	03	15.07327	09	41	32.02	+14	26	15.7			809
1991 EV7		1991	03	15.08784	09	41	31.56	+14	26	19.6			809
1991 EW7	*	1991	03	15.10452	09	55	48.91	+14	26	25.5	17.6		809
1991 EW7		1991	03	15.11909	09	55	48.23	+14	26	27.7			809
1991 EW7		1991	03	15.13368	09	55	47.57	+14	26	29.9			809
1991 EX7	*	1991	03	15.29826	11	50	43.20	-01	23	22.3	16.9		809
1991 EX7		1991	03	15.30868	11	50	42.77	-01	23	16.1			809
1991 EX7		1991	03	15.31910	11	50	42.33	-01	23	09.8			809
1991 EY7	*	1991	03	09.61227	11	52	25.82	+13	44	07.8	17		875
1991 EY7		1991	03	09.63299	11	52	25.06	+13	44	17.3			875
1991 EZ7	*	1991	03	06.60069	11	57	06.41	+08	38	24.7	16.5		877
1991 EZ7		1991	03	06.61979	11	57	05.22	+08	38	29.1			877
1991 FR4	*	1991	03	16.87851	11	20	37.16	+09	52	17.5	16.7		046
1991 FR4		1991	03	16.89257	11	20	36.40	+09	52	22.8			046
1991 FS4	*	1991	03	16.95628	12	43	27.41	-02	01	18.1	16.6		046
1991 FS4		1991	03	16.97052	12	43	26.70	-02	01	09.4			046
1991 FT4	*	1991	03	16.57187	11	43	08.44	+06	42	34.6	18		372
1991 FT4		1991	03	16.58229	11	43	07.86	+06	42	37.3			372
1991 FU4	*	1991	03	23.72257	12	48	55.79	+01	29	43.7	17.5		372
1991 FU4		1991	03	23.73438	12	48	55.34	+01	29	48.8			372
1991 FV4	*	1991	03	18.48229	11	12	35.70	+13	49	21.2	16.0		400
1991 FV4		1991	03	18.49826	11	12	34.49	+13	49	21.3			400
1991 FW4	*	1991	03	18.48229	11	17	50.33	+15	44	33.5	16.5		400
1991 FW4		1991	03	18.49826	11	17	49.60	+15	44	36.1			400
1991 FX4	*	1991	03	18.61875	12	01	03.45	-06	43	36.6	17.0		402
1991 FX4		1991	03	18.63403	12	01	01.78	-06	43	53.3			402
1991 FY4	*	1991	03	18.58486	12	12	23.88	-12	54	56.1	18.5	V	413
1991 FY4		1991	03	18.63347	12	12	22.48	-12	54	48.6			413
1991 FZ4	*	1991	03	18.58486	12	14	18.74	-15	28	42.3	19	V	413
1991 FZ4		1991	03	18.63347	12	14	17.40	-15	28	33.1			413
1991 FA5	*	1991	03	18.58486	12	16	29.32	-13	50	51.0	19	V	413
1991 FA5		1991	03	18.63347	12	16	27.70	-13	50	44.1			413
1991 FB5	*	1991	03	21.69370	13	57	01.25	-08	07	31.4	18.5	V F	413
1991 FB5		1991	03	21.74579	13	56	59.58	-08	07	16.8		F	413
1991 FC5	*	1991	03	18.34618	12	04	43.70	+03	42	42.5	15.8		675
1991 FC5		1991	03	18.37274	12	04	42.18	+03	42	43.7			675
1991 FE5	*	1991	03	19.21412	12	40	53.08	-02	35	40.1		G	808
1991 FE5		1991	03	19.26260	12	40	50.79	-02	35	16.4		G	808
1991 FF5	*	1991	03	21.24086	12	34	59.90	-03	24	18.8		p	808
1991 FF5		1991	03	21.27549	12	34	57.54	-03	24	08.1		p	808
1991 FG5	*	1991	03	21.24086	12	38	44.44	-03	17	09.6		p	808
1991 FG5		1991	03	21.27549	12	38	42.76	-03	16	57.4		p	808
1991 FH5	*	1991	03	21.24086	12	42	13.00	-02	38	18.7		p	808
1991 FH5		1991	03	21.27549	12	42	11.75	-02	38	12.2		p	808
1991 FJ5	*	1991	03	21.24086	12	43	29.26	-03	54	00.5			808
1991 FJ5		1991	03	21.27549	12	43	27.12	-03	53	50.2			808
1991 FK5	*	1991	03	21.24086	12	43	34.16	-03	31	05.0		p	808

1991 FK5		1991	03	21.27549	12	43	32.00	-03	31	05.2	p 808
1991 FL5	*	1991	03	21.24086	12	44	08.58	-04	15	27.6	p 808
1991 FL5		1991	03	21.27549	12	44	06.93	-04	15	13.6	p 808
1991 FM5	*	1991	03	21.24086	12	44	13.97	-03	57	47.1	808
1991 FM5		1991	03	21.27549	12	44	11.79	-03	57	32.2	808
1991 FN5	*	1991	03	16.22569	12	25	37.41	-02	01	30.7	17.5 809
1991 FN5		1991	03	16.23819	12	25	36.75	-02	01	26.1	809
1991 FN5		1991	03	16.25069	12	25	36.09	-02	01	21.4	809
1991 FO5	*	1991	03	16.22569	12	26	19.42	-02	41	35.8	17.5 809
1991 FO5		1991	03	16.23819	12	26	18.79	-02	41	31.3	809
1991 FO5		1991	03	16.25069	12	26	18.13	-02	41	26.8	809
1991 FP5	*	1991	03	16.30486	12	33	36.66	-07	37	23.0	16.8 809
1991 FP5		1991	03	16.31736	12	33	35.95	-07	37	20.7	809
1991 FP5		1991	03	16.32987	12	33	35.24	-07	37	18.3	809
1991 FQ5	*	1991	03	18.21840	10	53	56.06	+10	30	21.9	17.1 809
1991 FQ5		1991	03	18.22882	10	53	55.67	+10	30	23.4	809
1991 FQ5		1991	03	18.23923	10	53	55.27	+10	30	24.7	809
1991 FR5	*	1991	03	18.36909	13	34	13.81	-08	58	58.5	17.6 809
1991 FR5		1991	03	18.37952	13	34	13.72	-08	59	01.0	809
1991 FR5		1991	03	18.38993	13	34	13.59	-08	59	03.5	809
1991 FS5	*	1991	03	20.01041	09	38	25.21	+09	40	10.0	16.9 809
1991 FS5		1991	03	20.02292	09	38	24.80	+09	40	14.5	809
1991 FS5		1991	03	20.03542	09	38	24.40	+09	40	19.3	809
1991 FT5	*	1991	03	20.24375	13	05	46.06	-06	30	13.3	17.8 809
1991 FT5		1991	03	20.25625	13	05	45.38	-06	30	09.0	809
1991 FT5		1991	03	20.26875	13	05	44.70	-06	30	04.6	809
1991 FU5	*	1991	03	20.32638	13	14	01.26	-05	16	54.8	17.6 809
1991 FU5		1991	03	20.33889	13	14	00.84	-05	16	48.6	809
1991 FU5		1991	03	20.35139	13	14	00.43	-05	16	42.3	809
1991 FV5	*	1991	03	21.15173	11	07	22.63	+05	13	25.4	17.7 809
1991 FV5		1991	03	21.16216	11	07	22.11	+05	13	27.4	809
1991 FV5		1991	03	21.17257	11	07	21.58	+05	13	29.0	809
1991 FW5	*	1991	03	22.09688	11	28	10.05	+04	51	06.1	18.0 809
1991 FW5		1991	03	22.10729	11	28	09.46	+04	51	04.5	809
1991 FW5		1991	03	22.11771	11	28	08.87	+04	51	03.2	809
1991 FX5	*	1991	03	22.16493	11	26	17.06	+07	36	22.2	17.7 809
1991 FX5		1991	03	22.17535	11	26	16.34	+07	36	28.8	809
1991 FX5		1991	03	22.18576	11	26	15.63	+07	36	35.6	809
1991 FY5	*	1991	03	23.17326	11	12	53.92	+04	33	09.8	17.6 809
1991 FY5		1991	03	23.18369	11	12	53.33	+04	33	14.7	809
1991 FY5		1991	03	23.19410	11	12	52.74	+04	33	19.6	809
1991 FZ5	*	1991	03	23.24340	11	30	40.78	+06	36	48.0	17.5 809
1991 FZ5		1991	03	23.25381	11	30	40.27	+06	36	50.5	809
1991 FZ5		1991	03	23.26424	11	30	39.74	+06	36	53.2	809
1991 FA6	*	1991	03	25.30833	12	54	13.25	-10	17	38.7	17.1 809
1991 FA6		1991	03	25.31528	12	54	12.88	-10	17	35.9	809
1991 FA6		1991	03	25.32222	12	54	12.54	-10	17	33.2	809
1991 FB6	*	1991	03	25.30833	12	58	05.84	-08	54	02.9	17.8 809
1991 FB6		1991	03	25.31528	12	58	05.48	-08	53	58.8	809
1991 FB6		1991	03	25.32222	12	58	05.12	-08	53	55.1	809
1991 FC6	*	1991	03	27.33681	13	03	04.97	-02	36	10.6	17.7 809
1991 FC6		1991	03	27.34930	13	03	04.35	-02	36	09.6	809
1991 FC6		1991	03	27.36180	13	03	03.70	-02	36	08.5	809
1991 FD6	*	1991	03	27.33681	13	03	09.95	-00	49	16.8	17.0 809
1991 FD6		1991	03	27.34930	13	03	09.44	-00	49	11.4	809
1991 FD6		1991	03	27.36180	13	03	08.93	-00	49	05.9	809
1991 FE6	*	1991	03	27.33681	13	04	40.47	-02	31	17.8	17.7 809
1991 FE6		1991	03	27.34930	13	04	39.87	-02	31	14.4	809
1991 FE6		1991	03	27.36180	13	04	39.30	-02	31	11.0	809

1991 FF6	*	1991	03	17.61250	11	41	16.79	+11	43	09.2	17	887
1991 FF6		1991	03	17.63090	11	41	15.82	+11	43	09.6		887
1991 FG6	*	1991	03	17.70725	12	48	38.07	+03	55	55.9	16.5	887
1991 FG6		1991	03	17.75752	12	48	34.97	+03	56	01.3		887
1991 GP11	*	1991	04	11.83090	10	52	17.52	+00	20	30.5		033
1991 GP11		1991	04	11.93715	10	52	15.49	+00	20	58.5	18.5	033
1991 GQ11	*	1991	04	11.83090	10	54	19.76	+03	07	15.4		033
1991 GQ11		1991	04	11.93715	10	54	16.97	+03	07	36.7	18.3	033
1991 GR11	*	1991	04	11.83090	10	58	41.73	+02	24	46.8		033
1991 GR11		1991	04	11.93715	10	58	40.47	+02	25	47.3	17.6	033
1991 GS11	*	1991	04	11.83090	11	01	48.10	+02	38	20.4		033
1991 GS11		1991	04	11.93715	11	01	44.22	+02	38	25.8	18.4	033
1991 GT11	*	1991	04	11.83090	11	02	11.48	+02	00	14.6		033
1991 GT11		1991	04	11.93715	11	02	07.53	+02	00	21.7	18.7	033
1991 GU11	*	1991	04	11.83090	11	03	51.14	+02	47	10.0		033
1991 GU11		1991	04	11.93715	11	03	47.91	+02	47	28.3	18.2	033
1991 GV11	*	1991	04	12.97639	14	06	19.07	-19	24	30.5	17.5	033
1991 GV11		1991	04	13.02083	14	06	16.84	-19	24	18.5		033
1991 GW11	*	1991	04	08.94655	12	46	22.60	-01	37	16.6		046
1991 GW11		1991	04	08.96275	12	46	21.84	-01	37	07.4		046
1991 GX11	*	1991	04	09.91586	12	40	44.45	-01	38	42.7	U	046
1991 GX11		1991	04	09.93090	12	40	43.50	-01	38	30.2	U	046
1991 GY11	*	1991	04	09.91586	12	45	23.64	-01	29	27.9	16.9	046
1991 GY11		1991	04	09.93090	12	45	22.93	-01	29	15.4		046
1991 GZ11	*	1991	04	09.95278	14	12	36.29	-15	49	03.6	16.8	046
1991 GZ11		1991	04	09.96701	14	12	35.61	-15	48	52.8		046
1991 GA12	*	1991	04	09.95278	14	15	54.10	-15	11	59.7	16.8	046
1991 GA12		1991	04	09.96701	14	15	53.20	-15	11	51.6		046
1991 GB12	*	1991	04	09.95278	14	17	48.11	-15	49	06.3	16.7	046
1991 GB12		1991	04	09.96701	14	17	47.17	-15	48	59.5		046
1991 GC12	*	1991	04	15.91800	14	04	33.73	-15	36	56.6		046
1991 GC12		1991	04	15.93385	14	04	32.92	-15	36	39.5		046
1991 GD12	*	1991	04	02.49062	10	51	07.44	+16	21	45.0	17	372
1991 GD12		1991	04	02.50243	10	51	07.18	+16	21	48.6		372
1991 GE12	*	1991	04	09.70694	13	46	24.68	-04	49	41.6	18	372
1991 GE12		1991	04	09.71910	13	46	24.23	-04	49	33.8		372
1991 GF12	*	1991	04	14.55903	13	33	27.02	-03	45	48.5	16.5	399
1991 GF12		1991	04	14.57396	13	33	26.17	-03	45	41.0		399
1991 GG12	*	1991	04	14.47882	12	59	11.98	+08	51	22.9	16.5	400
1991 GG12		1991	04	14.49826	12	59	10.94	+08	51	31.4		400
1991 GH12	*	1991	04	14.47882	13	01	49.07	+05	44	40.2	16.0	400
1991 GH12		1991	04	14.49826	13	01	48.18	+05	44	45.3		400
1991 GJ12	*	1991	04	14.57187	13	46	48.34	+06	32	18.2	16.0	400
1991 GJ12		1991	04	14.58993	13	46	47.41	+06	32	21.3		400
1991 GK12	*	1991	04	12.54236	11	38	49.26	-02	36	22.6	17.5	402
1991 GK12		1991	04	12.55556	11	38	48.74	-02	36	19.3		402
1991 GL12	*	1991	04	10.43620	10	12	26.03	-07	58	15.6	17.5 V	413
1991 GL12		1991	04	10.47787	10	12	25.17	-07	58	04.4		413
1991 GM12	*	1991	04	10.43620	10	14	30.20	-09	03	07.4	17.5 V	413
1991 GM12		1991	04	10.47787	10	14	29.68	-09	03	58.7		413
1991 GN12	*	1991	04	12.42796	10	49	08.34	-06	48	49.6	17 V	413
1991 GN12		1991	04	12.46963	10	49	08.05	-06	47	52.7		413
1991 GO12	*	1991	04	13.49519	11	37	42.76	-13	46	31.4	17.5 V	413
1991 GO12		1991	04	13.53685	11	37	41.54	-13	45	33.0		413
1991 GQ12	*	1991	04	08.02361	12	52	26.59	-07	10	32.7		809
1991 GQ12		1991	04	08.03681	12	52	25.64	-07	10	33.1		809
1991 GQ12		1991	04	08.05000	12	52	24.61	-07	10	32.1		809
1991 GR12	*	1991	04	08.02361	12	57	14.47	-04	23	49.4		809
1991 GR12		1991	04	08.03681	12	57	13.49	-04	23	45.9		809

1991 GR12		1991	04	08.05000	12	57	12.58	-04	23	40.5		809
1991 GS12	*	1991	04	08.06667	13	16	34.45	-09	37	28.4		809
1991 GS12		1991	04	08.07986	13	16	33.71	-09	37	24.3		809
1991 GS12		1991	04	08.09306	13	16	33.03	-09	37	20.8		809
1991 GT12	*	1991	04	08.06667	13	18	09.96	-10	19	50.4	18.6	809
1991 GT12		1991	04	08.07986	13	18	09.21	-10	19	49.5		809
1991 GT12		1991	04	08.09306	13	18	08.43	-10	19	49.1		809
1991 GU12	*	1991	04	08.10903	13	39	24.64	-12	48	48.0		809
1991 GU12		1991	04	08.12222	13	39	23.83	-12	48	47.0		809
1991 GU12		1991	04	08.13542	13	39	23.22	-12	48	46.7		809
1991 GV12	*	1991	04	08.15278	13	36	01.77	-14	42	41.0	19.5	809
1991 GV12		1991	04	08.16597	13	36	01.03	-14	42	36.7		809
1991 GV12		1991	04	08.17917	13	36	00.22	-14	42	28.2		809
1991 GW12	*	1991	04	08.15278	13	36	29.66	-17	05	58.0		809
1991 GW12		1991	04	08.16597	13	36	28.83	-17	05	54.2		809
1991 GW12		1991	04	08.17917	13	36	28.08	-17	05	50.4		809
1991 GX12	*	1991	04	08.15278	13	42	47.47	-14	48	14.6		809
1991 GX12		1991	04	08.16597	13	42	46.90	-14	48	10.5		809
1991 GX12		1991	04	08.17917	13	42	46.27	-14	48	08.7		809
1991 GY12	*	1991	04	08.15278	13	49	28.72	-17	29	24.6	20.0	809
1991 GY12		1991	04	08.16597	13	49	27.90	-17	29	25.9		809
1991 GY12		1991	04	08.17917	13	49	27.08	-17	29	23.8		809
1991 GZ12	*	1991	04	08.15278	13	54	12.84	-16	28	01.8		809
1991 GZ12		1991	04	08.16597	13	54	11.97	-16	28	05.9		809
1991 GZ12		1991	04	08.17917	13	54	11.09	-16	28	10.2		809
1991 GA13	*	1991	04	08.15278	13	55	27.16	-16	42	07.8		809
1991 GA13		1991	04	08.16597	13	55	26.43	-16	42	07.8		809
1991 GA13		1991	04	08.17917	13	55	25.71	-16	42	07.8		809
1991 GB13	*	1991	04	10.07569	12	48	49.94	-04	13	25.9	20.0	809
1991 GB13		1991	04	10.08889	12	48	49.27	-04	13	20.6		809
1991 GB13		1991	04	10.10208	12	48	48.64	-04	13	17.7		809
1991 GC13	*	1991	04	10.07569	12	49	27.06	-05	44	20.3	19.4	809
1991 GC13		1991	04	10.08889	12	49	26.34	-05	44	16.4		809
1991 GC13		1991	04	10.10208	12	49	25.60	-05	44	12.4		809
1991 GD13	*	1991	04	10.07569	12	49	31.76	-03	05	21.0	19.2	809
1991 GD13		1991	04	10.08889	12	49	31.09	-03	05	13.8		809
1991 GD13		1991	04	10.10208	12	49	30.30	-03	05	09.1		809
1991 GE13	*	1991	04	10.07569	12	50	02.31	-05	42	18.9	18.8	809
1991 GE13		1991	04	10.08889	12	50	01.37	-05	42	15.2		809
1991 GE13		1991	04	10.10208	12	50	00.38	-05	42	11.0		809
1991 GF13	*	1991	04	10.07569	12	51	22.09	-04	01	14.6	18.8	809
1991 GF13		1991	04	10.08889	12	51	21.25	-04	01	10.9		809
1991 GF13		1991	04	10.10208	12	51	20.58	-04	01	08.8		809
1991 GG13	*	1991	04	10.07569	12	53	36.69	-02	32	06.2	19.0	809
1991 GG13		1991	04	10.08889	12	53	35.97	-02	32	00.9		809
1991 GG13		1991	04	10.10208	12	53	35.25	-02	31	57.0		809
1991 GH13	*	1991	04	10.07569	12	54	06.64	-03	09	30.5	19.5	809
1991 GH13		1991	04	10.08889	12	54	05.85	-03	09	29.8		809
1991 GH13		1991	04	10.10208	12	54	04.97	-03	09	27.9		809
1991 GJ13	*	1991	04	10.07569	12	55	55.36	-04	17	02.5	19.6	809
1991 GJ13		1991	04	10.08889	12	55	54.71	-04	16	59.4		809
1991 GJ13		1991	04	10.10208	12	55	53.82	-04	16	57.6		809
1991 GK13	*	1991	04	10.07569	12	58	47.84	-04	15	44.5	19.1	809
1991 GK13		1991	04	10.08889	12	58	47.17	-04	15	36.8		809
1991 GK13		1991	04	10.10208	12	58	46.55	-04	15	28.4		809
1991 GL13	*	1991	04	10.07569	13	01	00.54	-05	23	44.3	19.5	809
1991 GL13		1991	04	10.08889	13	01	00.34	-05	23	40.2		809
1991 GL13		1991	04	10.10208	13	00	59.91	-05	23	36.1		809
1991 GM13	*	1991	04	10.07569	13	01	07.47	-05	41	17.1	19.6	809

1991 GM13		1991	04	10.08889	13	01	06.73	-05	41	12.5		809
1991 GM13		1991	04	10.10208	13	01	05.87	-05	41	10.0		809
1991 GN13	*	1991	04	10.07569	13	06	28.68	-03	16	55.4	18.6	809
1991 GN13		1991	04	10.08889	13	06	27.83	-03	16	47.9		809
1991 GN13		1991	04	10.10208	13	06	27.08	-03	16	42.1		809
1991 GO13	*	1991	04	10.12153	13	06	06.76	-07	17	35.8	18.9	809
1991 GO13		1991	04	10.13472	13	06	05.91	-07	17	37.2		809
1991 GO13		1991	04	10.14792	13	06	04.96	-07	17	39.4		809
1991 GP13	*	1991	04	10.12153	13	06	19.31	-09	33	03.0	20.0	809
1991 GP13		1991	04	10.13472	13	06	18.68	-09	32	59.3		809
1991 GP13		1991	04	10.14792	13	06	17.95	-09	32	54.6		809
1991 GQ13	*	1991	04	10.12153	13	07	18.28	-10	09	47.6	19.0	809
1991 GQ13		1991	04	10.13472	13	07	17.73	-10	09	51.1		809
1991 GQ13		1991	04	10.14792	13	07	17.11	-10	09	55.1		809
1991 GR13	*	1991	04	10.12153	13	08	14.07	-07	25	49.1	19.2	809
1991 GR13		1991	04	10.13472	13	08	13.50	-07	25	41.4		809
1991 GR13		1991	04	10.14792	13	08	13.00	-07	25	35.3		809
1991 GS13	*	1991	04	10.12153	13	08	59.60	-09	34	49.6	20.0	809
1991 GS13		1991	04	10.13472	13	08	58.85	-09	34	52.2		809
1991 GS13		1991	04	10.14792	13	08	57.97	-09	34	53.6		809
1991 GT13	*	1991	04	10.12153	13	11	15.58	-08	16	03.5	18.9	809
1991 GT13		1991	04	10.13472	13	11	14.98	-08	15	58.1		809
1991 GT13		1991	04	10.14792	13	11	14.40	-08	15	51.7		809
1991 GU13	*	1991	04	10.12153	13	12	31.20	-07	54	11.1	19.0	809
1991 GU13		1991	04	10.13472	13	12	30.58	-07	54	05.2		809
1991 GU13		1991	04	10.14792	13	12	29.78	-07	53	56.8		809
1991 GV13	*	1991	04	10.12153	13	13	11.10	-09	57	08.9	19.2	809
1991 GV13		1991	04	10.13472	13	13	10.67	-09	57	03.6		809
1991 GV13		1991	04	10.14792	13	13	09.88	-09	56	58.3		809
1991 GW13	*	1991	04	10.12153	13	14	26.74	-09	36	04.4	19.4	809
1991 GW13		1991	04	10.13472	13	14	26.00	-09	35	58.3		809
1991 GW13		1991	04	10.14792	13	14	25.21	-09	35	52.1		809
1991 GX13	*	1991	04	10.12153	13	14	46.77	-05	58	10.3	20.0	809
1991 GX13		1991	04	10.13472	13	14	45.99	-05	58	19.0		809
1991 GX13		1991	04	10.14792	13	14	44.89	-05	58	26.5		809
1991 GY13	*	1991	04	10.12153	13	17	15.20	-05	54	54.9	19.3	809
1991 GY13		1991	04	10.13472	13	17	14.42	-05	54	52.0		809
1991 GY13		1991	04	10.14792	13	17	13.52	-05	54	50.1		809
1991 GZ13	*	1991	04	10.12153	13	17	16.12	-08	47	33.6	19.8	809
1991 GZ13		1991	04	10.13472	13	17	15.44	-08	47	29.2		809
1991 GZ13		1991	04	10.14792	13	17	14.79	-08	47	25.4		809
1991 GA14	*	1991	04	10.12153	13	20	36.36	-08	25	52.6	19.5	809
1991 GA14		1991	04	10.13472	13	20	35.55	-08	25	51.0		809
1991 GA14		1991	04	10.14792	13	20	34.77	-08	25	48.3		809
1991 GB14	*	1991	04	10.16736	13	22	43.26	-11	21	58.9	19.4	809
1991 GB14		1991	04	10.18056	13	22	42.64	-11	21	54.6		809
1991 GB14		1991	04	10.19375	13	22	41.97	-11	21	49.0		809
1991 GC14	*	1991	04	10.16736	13	28	05.62	-12	27	56.6	20.0	809
1991 GC14		1991	04	10.18056	13	28	04.56	-12	27	57.0		809
1991 GC14		1991	04	10.19375	13	28	03.69	-12	27	57.4		809
1991 GD14	*	1991	04	10.16736	13	29	04.05	-13	08	47.0	18.7	809
1991 GD14		1991	04	10.18056	13	29	03.15	-13	08	41.3		809
1991 GD14		1991	04	10.19375	13	29	02.28	-13	08	36.0		809
1991 GE14	*	1991	04	10.16736	13	32	17.93	-10	39	26.5	20.0	809
1991 GE14		1991	04	10.18056	13	32	17.17	-10	39	27.5		809
1991 GE14		1991	04	10.19375	13	32	16.42	-10	39	28.1		809
1991 GF14	*	1991	04	10.16736	13	36	05.73	-12	26	20.2	20.0	809
1991 GF14		1991	04	10.18056	13	36	05.07	-12	26	14.1		809
1991 GF14		1991	04	10.19375	13	36	04.42	-12	26	09.1		809

1991 GG14	*	1991	04	10.24722	13	32	46.67	-14 17 38.6	19.3			809
1991 GG14		1991	04	10.26042	13	32	45.86	-14 17 32.2				809
1991 GG14		1991	04	10.27361	13	32	45.13	-14 17 28.3				809
1991 GH14	*	1991	04	10.24722	13	36	04.49	-16 50 43.0	19.5			809
1991 GH14		1991	04	10.26042	13	36	03.74	-16 50 39.7				809
1991 GH14		1991	04	10.27361	13	36	02.85	-16 50 36.3				809
1991 GJ14	*	1991	04	10.24722	13	42	31.55	-13 06 48.3	19.8			809
1991 GJ14		1991	04	10.26042	13	42	30.83	-13 06 47.6				809
1991 GJ14		1991	04	10.27361	13	42	30.14	-13 06 46.7				809
1991 GK14	*	1991	04	10.24722	13	44	52.11	-14 48 09.2	19.7			809
1991 GK14		1991	04	10.26042	13	44	51.38	-14 48 04.5				809
1991 GK14		1991	04	10.27361	13	44	50.70	-14 48 00.9				809
1991 GL14	*	1991	04	10.24722	13	45	15.04	-15 10 44.3	19.2			809
1991 GL14		1991	04	10.26042	13	45	14.41	-15 10 42.8				809
1991 GL14		1991	04	10.27361	13	45	13.93	-15 10 42.2				809
1991 GM14	*	1991	04	13.27917	16	26	07.90	-23 59 33.0				809
1991 HR	*	1991	04	20.01233	14	18	01.16	+15 07 34.1	16			010
1991 HR		1991	04	20.07483	14	17	58.63	+15 08 44.1				010
1991 HS	*	1991	04	17.02257	14	02	48.03	-08 48 22.6				071
1991 HS		1991	04	17.04757	14	02	46.83	-08 48 14.6				071
1991 HT	*	1991	04	17.02257	14	03	51.50	-09 20 11.3				071
1991 HT		1991	04	17.04757	14	03	50.40	-09 20 01.3				071
1991 HU	*	1991	04	16.65555	13	51	30.42	-05 26 29.3	17.5			372
1991 HU		1991	04	16.66615	13	51	29.80	-05 26 26.6				372
1991 HV	*	1991	04	18.54722	13	24	18.40	-04 45 11.9	16.5			399
1991 HV		1991	04	18.56181	13	24	17.40	-04 45 07.5				399
1991 HW	*	1991	04	16.56910	13	02	10.78	-11 09 57.3	16.5			400
1991 HW		1991	04	16.58299	13	02	09.97	-11 09 53.8				400
1991 HX	*	1991	04	20.47425	12	05	52.40	-33 33 38.6	16.5	V	G	413
1991 HX		1991	04	20.53675	12	05	49.78	-33 33 15.7			G	413
1991 HY	*	1991	04	20.47425	12	10	07.61	-34 29 36.6	16.5	V	G	413
1991 HY		1991	04	20.53675	12	10	05.55	-34 29 07.0			G	413
1991 HZ	*	1991	04	17.15903	11	24	50.71	+03 03 30.3	18.2			675
1991 HZ		1991	04	17.19045	11	24	49.70	+03 03 32.9				675
1991 HA1	*	1991	04	19.17449	13	44	11.21	+03 30 36.2			F	808
1991 HA1		1991	04	19.21605	13	44	09.05	+03 30 49.7			F	808
1991 HB1	*	1991	04	19.17449	13	54	32.60	-00 49 21.8			F	808
1991 HB1		1991	04	19.21605	13	54	30.30	-00 49 12.7			F	808
1991 HC1	*	1991	04	20.18215	13	03	37.94	+16 49 59.3				808
1991 HC1		1991	04	20.22301	13	03	34.22	+16 50 08.6				808
1991 HD1	*	1991	04	20.18215	13	06	40.10	+16 30 41.5				808
1991 HD1		1991	04	20.22301	13	06	36.76	+16 30 39.9				808
1991 HE1	*	1991	04	20.18215	13	08	47.50	+14 39 00.2				808
1991 HE1		1991	04	20.22301	13	08	48.76	+14 38 53.1				808
1991 HF1	*	1991	04	20.29607	16	10	41.38	-10 20 53.4			p	808
1991 HF1		1991	04	20.34109	16	10	40.91	-10 20 51.6				808
1991 HG1	*	1991	04	22.30620	17	00	29.84	-49 08 26.8				808
1991 HG1		1991	04	22.33390	17	00	30.11	-49 08 21.6				808
1991 HH1	*	1991	04	19.05347	12	41	25.80	-01 33 29.0	19.6			809
1991 HH1		1991	04	19.06667	12	41	25.22	-01 33 28.2				809
1991 HH1		1991	04	19.07986	12	41	24.69	-01 33 29.1				809
1991 HJ1	*	1991	04	19.05347	12	42	13.61	-04 23 29.9	19.8			809
1991 HJ1		1991	04	19.06667	12	42	12.85	-04 23 26.9				809
1991 HJ1		1991	04	19.07986	12	42	12.17	-04 23 24.5				809
1991 HK1	*	1991	04	19.05347	12	42	39.48	-05 03 32.3	19.4			809
1991 HK1		1991	04	19.06667	12	42	38.72	-05 03 29.3				809
1991 HK1		1991	04	19.07986	12	42	38.07	-05 03 26.6				809
1991 HL1	*	1991	04	19.05347	12	42	40.95	-01 31 08.0	19.5			809
1991 HL1		1991	04	19.06667	12	42	40.44	-01 31 04.6				809

1991 HL1		1991 04 19.07986	12 42 39.85	-01 31 01.8			809
1991 HM1	*	1991 04 19.05347	12 43 20.76	-01 45 13.2		19.8	809
1991 HM1		1991 04 19.06667	12 43 19.70	-01 45 13.6			809
1991 HM1		1991 04 19.07986	12 43 18.78	-01 45 14.4			809
1991 HN1	*	1991 04 19.05347	12 43 37.34	-04 03 35.0		19.6	809
1991 HN1		1991 04 19.06667	12 43 36.76	-04 03 37.3			809
1991 HN1		1991 04 19.07986	12 43 36.01	-04 03 40.4			809
1991 HO1	*	1991 04 19.05347	12 44 45.30	-01 21 08.8		18.6	809
1991 HO1		1991 04 19.06667	12 44 44.74	-01 21 07.2			809
1991 HO1		1991 04 19.07986	12 44 44.30	-01 21 05.6			809
1991 HP1	*	1991 04 19.05347	12 45 00.33	-04 11 04.3		20.0	809
1991 HP1		1991 04 19.06667	12 44 59.54	-04 11 11.0			809
1991 HP1		1991 04 19.07986	12 44 58.67	-04 11 18.9			809
1991 HQ1	*	1991 04 19.05347	12 45 07.95	-01 06 55.8		19.2	809
1991 HQ1		1991 04 19.06667	12 45 07.33	-01 06 49.7			809
1991 HQ1		1991 04 19.07986	12 45 06.72	-01 06 44.3			809
1991 HR1	*	1991 04 19.05347	12 45 13.99	-04 10 57.3		20.0	809
1991 HR1		1991 04 19.06667	12 45 13.45	-04 11 05.6			809
1991 HR1		1991 04 19.07986	12 45 13.02	-04 11 12.0			809
1991 HS1	*	1991 04 19.05347	12 45 48.87	-01 43 10.5		20.0	809
1991 HS1		1991 04 19.06667	12 45 48.04	-01 43 16.1			809
1991 HS1		1991 04 19.07986	12 45 47.14	-01 43 21.0			809
1991 HT1	*	1991 04 19.05347	12 47 07.92	-04 19 01.0		19.6	809
1991 HT1		1991 04 19.06667	12 47 06.96	-04 19 01.0			809
1991 HT1		1991 04 19.07986	12 47 06.12	-04 19 00.8			809
1991 HU1	*	1991 04 19.05347	12 49 16.46	-02 13 29.9		20.0	809
1991 HU1		1991 04 19.06667	12 49 15.68	-02 13 34.2			809
1991 HU1		1991 04 19.07986	12 49 14.95	-02 13 34.6			809
1991 HV1	*	1991 04 19.05347	12 49 19.03	-01 04 16.2		18.4	809
1991 HV1		1991 04 19.06667	12 49 18.43	-01 04 12.5			809
1991 HV1		1991 04 19.07986	12 49 17.77	-01 04 07.9			809
1991 HW1	*	1991 04 19.05347	12 49 35.60	-03 10 49.3		19.6	809
1991 HW1		1991 04 19.06667	12 49 34.86	-03 10 45.8			809
1991 HW1		1991 04 19.07986	12 49 34.31	-03 10 40.1			809
1991 HX1	*	1991 04 19.05347	12 49 37.79	-00 34 46.5		18.7	809
1991 HX1		1991 04 19.06667	12 49 37.22	-00 34 44.1			809
1991 HX1		1991 04 19.07986	12 49 36.52	-00 34 40.5			809
1991 HY1	*	1991 04 19.05347	12 50 58.90	-02 41 46.2		19.3	809
1991 HY1		1991 04 19.06667	12 50 58.02	-02 41 45.2			809
1991 HY1		1991 04 19.07986	12 50 57.18	-02 41 45.5			809
1991 HZ1	*	1991 04 19.05347	12 51 43.64	-01 13 04.2		20.0	809
1991 HZ1		1991 04 19.06667	12 51 43.05	-01 12 59.9			809
1991 HZ1		1991 04 19.07986	12 51 42.43	-01 12 54.9			809
1991 HA2	*	1991 04 19.05347	12 52 13.21	-01 55 31.9		19.6	809
1991 HA2		1991 04 19.06667	12 52 12.57	-01 55 27.7			809
1991 HA2		1991 04 19.07986	12 52 11.88	-01 55 25.1			809
1991 HB2	*	1991 04 19.05347	12 53 37.27	-02 25 04.7		19.2	809
1991 HB2		1991 04 19.06667	12 53 36.45	-02 25 00.1			809
1991 HB2		1991 04 19.07986	12 53 35.59	-02 24 56.9			809
1991 HC2	*	1991 04 19.05347	12 54 02.85	-04 35 30.4		19.5	809
1991 HC2		1991 04 19.05347	12 54 02.84	-04 35 30.7		19.5	809
1991 HC2		1991 04 19.06667	12 54 02.36	-04 35 28.0			809
1991 HC2		1991 04 19.06667	12 54 02.27	-04 35 26.9			809
1991 HC2		1991 04 19.07986	12 54 01.66	-04 35 22.0			809
1991 HC2		1991 04 19.07986	12 54 01.69	-04 35 21.8			809
1991 HD2	*	1991 04 19.05347	12 55 44.29	-00 24 47.9		18.6	809
1991 HD2		1991 04 19.06667	12 55 43.52	-00 24 47.5			809
1991 HD2		1991 04 19.07986	12 55 42.69	-00 24 47.3			809
1991 HE2	*	1991 04 19.05347	12 56 00.30	-01 37 26.3		19.8	809

1991 HE2		1991 04 19.06667	12 55 59.59	-01 37 21.1			809
1991 HE2		1991 04 19.07986	12 55 58.96	-01 37 18.0			809
1991 HF2	*	1991 04 19.05347	12 57 52.45	-00 27 57.2		18.6	809
1991 HF2		1991 04 19.06667	12 57 51.85	-00 27 54.1			809
1991 HF2		1991 04 19.07986	12 57 51.30	-00 27 51.9			809
1991 HG2	*	1991 04 19.05347	12 58 30.67	-04 11 29.1		20.0	809
1991 HG2		1991 04 19.06667	12 58 30.14	-04 11 30.4			809
1991 HG2		1991 04 19.07986	12 58 29.40	-04 11 32.0			809
1991 HH2	*	1991 04 19.05347	12 59 06.86	-03 03 46.5		19.4	809
1991 HH2		1991 04 19.06667	12 59 06.26	-03 03 40.5			809
1991 HH2		1991 04 19.07986	12 59 05.69	-03 03 36.9			809
1991 HJ2	*	1991 04 19.05347	12 59 26.35	-02 53 42.9		19.2	809
1991 HJ2		1991 04 19.06667	12 59 25.57	-02 53 36.2			809
1991 HJ2		1991 04 19.07986	12 59 24.92	-02 53 31.9			809
1991 HK2	*	1991 04 19.05347	12 59 53.87	-00 46 42.3		19.4	809
1991 HK2		1991 04 19.06667	12 59 53.15	-00 46 36.9			809
1991 HK2		1991 04 19.07986	12 59 52.45	-00 46 32.4			809
1991 HL2	*	1991 04 19.05347	13 01 42.12	-04 00 40.9		18.7	809
1991 HL2		1991 04 19.06667	13 01 41.50	-04 00 40.3			809
1991 HL2		1991 04 19.07986	13 01 40.81	-04 00 37.6			809
1991 HL2		1991 04 19.09653	13 01 40.00	-04 00 37.5		18.5	809
1991 HL2		1991 04 19.10972	13 01 39.19	-04 00 35.8			809
1991 HL2		1991 04 19.13194	13 01 38.24	-04 00 33.7			809
1991 HM2	*	1991 04 19.09653	13 01 32.38	-04 10 12.8		19.3	809
1991 HM2		1991 04 19.10972	13 01 31.81	-04 10 07.2			809
1991 HM2		1991 04 19.13194	13 01 31.41	-04 09 59.8			809
1991 HN2	*	1991 04 19.09653	13 02 01.47	-07 29 51.7		19.0	809
1991 HN2		1991 04 19.10972	13 02 01.03	-07 29 53.5			809
1991 HN2		1991 04 19.13194	13 02 00.54	-07 29 54.8			809
1991 HO2	*	1991 04 19.09653	13 04 39.72	-06 29 41.1		19.0	809
1991 HO2		1991 04 19.10972	13 04 39.29	-06 29 36.4			809
1991 HO2		1991 04 19.13194	13 04 38.71	-06 29 31.1			809
1991 HP2	*	1991 04 19.09653	13 06 19.57	-04 23 34.6		19.6	809
1991 HP2		1991 04 19.10972	13 06 18.73	-04 23 29.3			809
1991 HP2		1991 04 19.13194	13 06 17.78	-04 23 22.4			809
1991 HQ2	*	1991 04 19.09653	13 07 40.76	-05 32 25.9		20.0	809
1991 HQ2		1991 04 19.10972	13 07 39.96	-05 32 31.9			809
1991 HQ2		1991 04 19.13194	13 07 39.15	-05 32 38.0			809
1991 HR2	*	1991 04 19.09653	13 11 44.95	-06 00 43.1		19.3	809
1991 HR2		1991 04 19.10972	13 11 44.11	-06 00 35.9			809
1991 HS2	*	1991 04 19.09653	13 13 26.68	-05 30 49.8		19.3	809
1991 HS2		1991 04 19.10972	13 13 25.77	-05 30 42.6			809
1991 HS2		1991 04 19.13194	13 13 24.77	-05 30 35.5			809
1991 HT2	*	1991 04 19.09653	13 13 28.92	-05 06 34.1		19.6	809
1991 HT2		1991 04 19.10972	13 13 28.01	-05 06 26.1			809
1991 HT2		1991 04 19.13194	13 13 27.21	-05 06 19.3			809
1991 HU2	*	1991 04 19.09653	13 13 57.60	-04 23 53.0		19.5	809
1991 HU2		1991 04 19.10972	13 13 56.68	-04 23 48.2			809
1991 HU2		1991 04 19.13194	13 13 55.80	-04 23 45.1			809
1991 HV2	*	1991 04 19.09653	13 13 59.20	-07 11 18.2		19.4	809
1991 HV2		1991 04 19.10972	13 13 58.69	-07 11 15.8			809
1991 HV2		1991 04 19.13194	13 13 58.06	-07 11 12.8			809
1991 HW2	*	1991 04 19.09653	13 14 35.38	-08 25 25.1		19.4	809
1991 HW2		1991 04 19.10972	13 14 34.75	-08 25 25.4			809
1991 HW2		1991 04 19.13194	13 14 34.17	-08 25 24.8			809
1991 HX2	*	1991 04 19.14792	13 14 22.82	-09 03 27.4		18.7	809
1991 HX2		1991 04 19.16111	13 14 22.35	-09 03 24.3			809
1991 HX2		1991 04 19.17431	13 14 22.00	-09 03 21.5			809
1991 HY2	*	1991 04 19.14792	13 14 32.88	-09 08 38.0		19.7	809

1991 HY2		1991 04 19.16111	13 14 32.02	-09 08 34.3					809
1991 HY2		1991 04 19.17431	13 14 31.28	-09 08 31.6					809
1991 HZ2	*	1991 04 19.14792	13 17 48.11	-08 54 59.7				19.5	809
1991 HZ2		1991 04 19.16111	13 17 47.43	-08 54 51.7					809
1991 HZ2		1991 04 19.17431	13 17 46.80	-08 54 46.8					809
1991 HA3	*	1991 04 19.14792	13 18 51.34	-06 30 41.6				18.7	809
1991 HA3		1991 04 19.16111	13 18 50.67	-06 30 38.5					809
1991 HA3		1991 04 19.17431	13 18 49.85	-06 30 35.9					809
1991 HB3	*	1991 04 19.14792	13 19 11.67	-10 00 22.8				19.2	809
1991 HB3		1991 04 19.16111	13 19 11.00	-10 00 17.6					809
1991 HB3		1991 04 19.17431	13 19 10.33	-10 00 13.7					809
1991 HC3	*	1991 04 19.14792	13 20 50.28	-07 10 06.8				18.6	809
1991 HC3		1991 04 19.16111	13 20 49.62	-07 10 03.8					809
1991 HC3		1991 04 19.17431	13 20 48.98	-07 10 00.4					809
1991 HD3	*	1991 04 19.14792	13 21 19.68	-10 23 22.7				19.5	809
1991 HD3		1991 04 19.16111	13 21 19.00	-10 23 17.9					809
1991 HD3		1991 04 19.17431	13 21 18.36	-10 23 12.9					809
1991 HE3	*	1991 04 19.14792	13 21 38.84	-11 30 52.9				19.0	809
1991 HE3		1991 04 19.16111	13 21 38.33	-11 30 48.4					809
1991 HE3		1991 04 19.17431	13 21 37.99	-11 30 45.7					809
1991 HF3	*	1991 04 19.14792	13 22 07.82	-09 33 40.9				18.5	809
1991 HF3		1991 04 19.16111	13 22 06.40	-09 33 42.8					809
1991 HF3		1991 04 19.17431	13 22 05.23	-09 33 43.7					809
1991 HG3	*	1991 04 19.14792	13 23 52.43	-10 15 29.1				19.2	809
1991 HG3		1991 04 19.16111	13 23 51.72	-10 15 23.5					809
1991 HG3		1991 04 19.17431	13 23 50.91	-10 15 19.3					809
1991 HH3	*	1991 04 19.14792	13 24 28.98	-11 16 37.9				19.1	809
1991 HH3		1991 04 19.16111	13 24 28.28	-11 16 30.0					809
1991 HH3		1991 04 19.17431	13 24 27.57	-11 16 23.8					809
1991 HJ3	*	1991 04 19.14792	13 24 48.68	-10 00 13.1				19.6	809
1991 HJ3		1991 04 19.16111	13 24 47.94	-10 00 08.5					809
1991 HJ3		1991 04 19.17431	13 24 47.21	-10 00 04.8					809
1991 HK3	*	1991 04 19.14792	13 25 07.89	-09 23 24.2				19.6	809
1991 HK3		1991 04 19.16111	13 25 07.03	-09 23 20.7					809
1991 HK3		1991 04 19.17431	13 25 06.09	-09 23 17.7					809
1991 HL3	*	1991 04 19.14792	13 25 50.80	-07 14 51.6				18.6	809
1991 HL3		1991 04 19.16111	13 25 50.02	-07 14 46.6					809
1991 HL3		1991 04 19.17431	13 25 49.22	-07 14 42.4					809
1991 HM3	*	1991 04 19.14792	13 26 26.77	-08 46 52.7				20.0	809
1991 HM3		1991 04 19.16111	13 26 25.81	-08 46 48.9					809
1991 HM3		1991 04 19.17431	13 26 24.95	-08 46 46.4					809
1991 HN3	*	1991 04 19.14792	13 26 49.89	-06 57 58.2				18.7	809
1991 HN3		1991 04 19.16111	13 26 49.20	-06 57 53.2					809
1991 HN3		1991 04 19.17431	13 26 48.55	-06 57 48.1					809
1991 HO3	*	1991 04 19.14792	13 27 19.26	-10 00 53.0				19.6	809
1991 HO3		1991 04 19.16111	13 27 18.56	-10 00 46.6					809
1991 HO3		1991 04 19.17431	13 27 17.76	-10 00 43.8					809
1991 HP3	*	1991 04 19.14792	13 28 39.95	-06 26 56.0				19.0	809
1991 HP3		1991 04 19.16111	13 28 39.19	-06 26 53.7					809
1991 HP3		1991 04 19.17431	13 28 38.39	-06 26 53.0					809
1991 HQ3	*	1991 04 19.14792	13 30 04.12	-07 17 10.5				18.7	809
1991 HQ3		1991 04 19.16111	13 30 03.15	-07 17 09.4					809
1991 HQ3		1991 04 19.17431	13 30 02.22	-07 17 08.7					809
1991 HR3	*	1991 04 19.14792	13 30 40.40	-07 15 18.7				18.7	809
1991 HR3		1991 04 19.16111	13 30 39.68	-07 15 12.0					809
1991 HR3		1991 04 19.17431	13 30 38.94	-07 15 06.5					809
1991 HS3	*	1991 04 19.14792	13 30 57.59	-08 14 21.8				19.8	809
1991 HS3		1991 04 19.16111	13 30 56.85	-08 14 19.9					809
1991 HS3		1991 04 19.17431	13 30 56.11	-08 14 17.7					809

1991 HT3	*	1991 04 19.14792	13 31 40.12	-08 56 22.0	19.4	809
1991 HT3		1991 04 19.16111	13 31 39.27	-08 56 20.5		809
1991 HT3		1991 04 19.17431	13 31 38.34	-08 56 18.8		809
1991 HU3	*	1991 04 19.14792	13 32 22.12	-09 10 23.6	18.7	809
1991 HU3		1991 04 19.16111	13 32 21.27	-09 10 21.0		809
1991 HU3		1991 04 19.17431	13 32 20.50	-09 10 17.3		809
1991 HV3	*	1991 04 19.19028	13 28 35.86	-14 13 55.1	18.6	809
1991 HV3		1991 04 19.20347	13 28 34.79	-14 13 58.3		809
1991 HV3		1991 04 19.21667	13 28 33.60	-14 14 03.8		809
1991 HW3	*	1991 04 19.19028	13 28 39.77	-14 29 59.4	19.2	809
1991 HW3		1991 04 19.20347	13 28 39.00	-14 29 54.2		809
1991 HW3		1991 04 19.21667	13 28 38.03	-14 29 46.4		809
1991 HX3	*	1991 04 19.19028	13 29 39.99	-13 24 05.1	19.7	809
1991 HX3		1991 04 19.20347	13 29 39.39	-13 24 00.9		809
1991 HX3		1991 04 19.21667	13 29 38.75	-13 23 54.5		809
1991 HY3	*	1991 04 19.19028	13 33 41.45	-11 04 50.0	19.2	809
1991 HY3		1991 04 19.20347	13 33 40.90	-11 04 45.6		809
1991 HY3		1991 04 19.21667	13 33 40.28	-11 04 39.6		809
1991 HZ3	*	1991 04 19.19028	13 33 51.43	-10 43 45.3	19.2	809
1991 HZ3		1991 04 19.20347	13 33 50.64	-10 43 39.1		809
1991 HZ3		1991 04 19.21667	13 33 49.79	-10 43 33.1		809
1991 HA4	*	1991 04 19.19028	13 34 43.50	-10 45 15.4	19.0	809
1991 HA4		1991 04 19.20347	13 34 42.80	-10 45 12.7		809
1991 HA4		1991 04 19.21667	13 34 42.17	-10 45 09.8		809
1991 HB4	*	1991 04 19.19028	13 35 47.33	-11 01 35.4	18.6	809
1991 HB4		1991 04 19.20347	13 35 46.62	-11 01 29.4		809
1991 HB4		1991 04 19.21667	13 35 45.97	-11 01 24.7		809
1991 HC4	*	1991 04 19.19028	13 35 49.54	-15 24 00.9	19.3	809
1991 HC4		1991 04 19.20347	13 35 48.85	-15 23 49.9		809
1991 HC4		1991 04 19.21667	13 35 48.15	-15 23 39.9		809
1991 HD4	*	1991 04 19.19028	13 38 40.78	-14 58 40.3	19.4	809
1991 HD4		1991 04 19.20347	13 38 40.08	-14 58 33.5		809
1991 HD4		1991 04 19.21667	13 38 39.33	-14 58 28.5		809
1991 HE4	*	1991 04 19.19028	13 39 05.42	-11 10 20.8	18.1	809
1991 HE4		1991 04 19.20347	13 39 04.62	-11 10 21.9		809
1991 HE4		1991 04 19.21667	13 39 03.78	-11 10 23.0		809
1991 HF4	*	1991 04 19.19028	13 39 26.14	-10 35 08.7	19.2	809
1991 HF4		1991 04 19.20347	13 39 25.44	-10 35 02.5		809
1991 HF4		1991 04 19.21667	13 39 24.70	-10 34 56.4		809
1991 HG4	*	1991 04 19.19028	13 39 58.33	-13 27 28.6	19.5	809
1991 HG4		1991 04 19.20347	13 39 57.54	-13 27 25.3		809
1991 HG4		1991 04 19.21667	13 39 56.78	-13 27 22.9		809
1991 HH4	*	1991 04 19.19028	13 40 01.46	-11 27 42.2	19.7	809
1991 HH4		1991 04 19.20347	13 40 00.89	-11 27 38.3		809
1991 HH4		1991 04 19.21667	13 40 00.20	-11 27 34.5		809
1991 HJ4	*	1991 04 19.19028	13 40 04.00	-11 17 20.9	19.0	809
1991 HJ4		1991 04 19.20347	13 40 03.33	-11 17 19.1		809
1991 HJ4		1991 04 19.21667	13 40 02.66	-11 17 17.6		809
1991 HK4	*	1991 04 19.19028	13 40 10.99	-10 52 14.6	18.7	809
1991 HK4		1991 04 19.20347	13 40 10.40	-10 52 11.2		809
1991 HK4		1991 04 19.21667	13 40 09.79	-10 52 08.1		809
1991 HL4	*	1991 04 19.19028	13 40 39.89	-11 00 29.7	18.8	809
1991 HL4		1991 04 19.20347	13 40 39.09	-11 00 28.4		809
1991 HL4		1991 04 19.21667	13 40 38.25	-11 00 26.8		809
1991 HM4	*	1991 04 19.19028	13 41 48.17	-10 31 16.7	18.7	809
1991 HM4		1991 04 19.20347	13 41 47.35	-10 31 11.0		809
1991 HM4		1991 04 19.21667	13 41 46.69	-10 31 07.9		809
1991 HN4	*	1991 04 19.19028	13 42 49.18	-12 34 44.7	19.8	809
1991 HN4		1991 04 19.20347	13 42 48.65	-12 34 39.1		809

1991 HN4		1991	04	19.21667	13	42	47.85	-12	34	32.6	809
1991 HO4	*	1991	04	19.19028	13	42	53.46	-11	32	06.0	19.5	809
1991 HO4		1991	04	19.20347	13	42	52.65	-11	32	02.1	809
1991 HO4		1991	04	19.21667	13	42	51.83	-11	31	59.4	809
1991 HP4	*	1991	04	19.19028	13	43	10.38	-11	04	54.6	18.8	809
1991 HP4		1991	04	19.20347	13	43	09.74	-11	04	51.8	809
1991 HP4		1991	04	19.21667	13	43	08.99	-11	04	48.4	809
1991 HQ4	*	1991	04	19.19028	13	43	47.22	-14	01	25.9	19.6	809
1991 HQ4		1991	04	19.20347	13	43	46.65	-14	01	17.3	809
1991 HQ4		1991	04	19.21667	13	43	46.07	-14	01	10.8	809
1991 HR4	*	1991	04	19.19028	13	43	56.08	-11	25	34.2	19.8	809
1991 HR4		1991	04	19.20347	13	43	55.37	-11	25	32.4	809
1991 HR4		1991	04	19.21667	13	43	54.45	-11	25	31.1	809
1991 HS4	*	1991	04	19.19028	13	44	10.70	-15	04	03.4	19.5	809
1991 HS4		1991	04	19.20347	13	44	09.98	-15	03	54.4	809
1991 HS4		1991	04	19.21667	13	44	09.31	-15	03	47.5	809
1991 HT4	*	1991	04	19.19028	13	44	41.03	-11	39	18.5	18.5	809
1991 HT4		1991	04	19.20347	13	44	40.24	-11	39	16.4	809
1991 HT4		1991	04	19.21667	13	44	39.53	-11	39	13.9	809
1991 HU4	*	1991	04	19.19028	13	44	54.06	-11	18	50.6	19.0	809
1991 HU4		1991	04	19.20347	13	44	53.31	-11	18	47.2	809
1991 HU4		1991	04	19.21667	13	44	52.54	-11	18	43.7	809
1991 HV4	*	1991	04	19.19028	13	45	09.06	-12	38	39.4	18.7	809
1991 HV4		1991	04	19.20347	13	45	08.73	-12	38	38.3	809
1991 HV4		1991	04	19.21667	13	45	08.42	-12	38	38.6	809
1991 HW4	*	1991	04	19.19028	13	45	18.58	-11	29	23.9	18.6	809
1991 HW4		1991	04	19.20347	13	45	17.75	-11	29	21.5	809
1991 HW4		1991	04	19.21667	13	45	16.91	-11	29	18.4	809
1991 HX4	*	1991	04	19.19028	13	45	20.89	-13	51	56.7	19.0	809
1991 HX4		1991	04	19.20347	13	45	20.08	-13	51	53.1	809
1991 HX4		1991	04	19.21667	13	45	19.27	-13	51	49.0	809
1991 HY4	*	1991	04	19.19028	13	45	32.23	-11	10	04.7	18.5	809
1991 HY4		1991	04	19.20347	13	45	31.47	-11	09	57.2	809
1991 HY4		1991	04	19.21667	13	45	30.66	-11	09	50.4	809
1991 HZ4	*	1991	04	19.19028	13	45	34.77	-13	59	25.8	19.5	809
1991 HZ4		1991	04	19.20347	13	45	33.94	-13	59	24.1	809
1991 HZ4		1991	04	19.21667	13	45	33.08	-13	59	22.7	809
1991 HA5	*	1991	04	19.19028	13	45	39.88	-11	01	51.0	18.5	809
1991 HA5		1991	04	19.20347	13	45	39.05	-11	01	48.9	809
1991 HA5		1991	04	19.21667	13	45	38.13	-11	01	47.9	809
1991 HB5	*	1991	04	19.19028	13	45	55.33	-14	04	22.3	19.2	809
1991 HB5		1991	04	19.20347	13	45	54.60	-14	04	16.9	809
1991 HB5		1991	04	19.21667	13	45	53.91	-14	04	10.5	809
1991 HC5	*	1991	04	19.19028	13	45	55.91	-12	33	21.7	18.6	809
1991 HC5		1991	04	19.20347	13	45	55.11	-12	33	18.8	809
1991 HC5		1991	04	19.21667	13	45	54.29	-12	33	16.6	809
1991 HD5	*	1991	04	19.19028	13	46	01.20	-11	58	27.1	19.4	809
1991 HD5		1991	04	19.20347	13	46	00.61	-11	58	21.1	809
1991 HD5		1991	04	19.21667	13	45	59.92	-11	58	14.9	809
1991 HE5	*	1991	04	19.19028	13	46	27.73	-12	39	41.8	18.5	809
1991 HE5		1991	04	19.20347	13	46	26.89	-12	39	35.5	809
1991 HE5		1991	04	19.21667	13	46	26.08	-12	39	29.9	809
1991 HF5	*	1991	04	19.19028	13	46	46.28	-13	57	14.6	18.7	809
1991 HF5		1991	04	19.20347	13	46	45.44	-13	57	13.8	809
1991 HF5		1991	04	19.21667	13	46	44.68	-13	57	13.7	809
1991 JN5	*	1991	05	13.95694	15	25	21.19	-15	29	23.3	18.0	N	033
1991 JN5		1991	05	13.98056	15	25	20.20	-15	29	18.9	N	033
1991 JO5	*	1991	05	15.89062	13	43	23.93	+13	26	34.5	U	046
1991 JO5		1991	05	15.90480	13	43	23.21	+13	26	41.6	U	046

1991 JP5	*	1991	05	15.92755	14	32	03.80	-08	18	50.7	17.4			046
1991 JP5		1991	05	15.94207	14	32	03.16	-08	18	51.3				046
1991 JQ5	*	1991	05	15.92755	14	34	23.06	-07	12	39.9	17.6			046
1991 JQ5		1991	05	15.94207	14	34	22.64	-07	12	22.3				046
1991 JR5	*	1991	05	15.92755	14	35	37.25	-06	08	10.5	16.8			046
1991 JR5		1991	05	15.94207	14	35	36.61	-06	08	05.3				046
1991 JS5	*	1991	05	15.92755	14	35	39.96	-08	54	12.2	16.9			046
1991 JS5		1991	05	15.94207	14	35	39.64	-08	54	06.0				046
1991 JT5	*	1991	05	15.96580	15	42	43.02	-06	08	41.5	16.9			046
1991 JT5		1991	05	15.97998	15	42	42.59	-06	08	35.4				046
1991 JU5	*	1991	05	15.96580	15	42	43.68	-06	12	40.7	16.7			046
1991 JU5		1991	05	15.97998	15	42	42.89	-06	12	42.1				046
1991 JV5	*	1991	05	15.96580	15	43	59.53	-07	02	40.9	16.8			046
1991 JV5		1991	05	15.97998	15	43	58.76	-07	02	43.7				046
1991 JW5	*	1991	05	03.55017	11	30	25.51	-10	34	25.5	18.5			372
1991 JW5		1991	05	03.56163	11	30	25.82	-10	34	24.9				372
1991 JX5	*	1991	05	05.54965	13	54	06.15	-09	25	05.4	18.5			372
1991 JX5		1991	05	05.56167	13	54	05.75	-09	25	07.3				372
1991 JY5	*	1991	05	05.54965	13	54	08.84	-08	51	38.9	18			372
1991 JY5		1991	05	05.56167	13	54	08.45	-08	51	31.2				372
1991 JZ5	*	1991	05	05.57378	13	26	58.66	-20	26	22.5	18			372
1991 JZ5		1991	05	05.58507	13	26	57.80	-20	26	23.6				372
1991 JA6	*	1991	05	05.59618	13	50	21.37	-08	18	35.2	18			372
1991 JA6		1991	05	05.60660	13	50	20.73	-08	18	29.5				372
1991 JB6	*	1991	05	05.63750	15	08	37.31	-15	32	17.2	18			372
1991 JB6		1991	05	05.64889	15	08	36.73	-15	32	14.9				372
1991 JC6	*	1991	05	13.54833	15	09	33.40	-14	28	56.9	17			372
1991 JC6		1991	05	13.55833	15	09	33.09	-14	28	55.5				372
1991 JD6	*	1991	05	13.54883	15	09	44.06	-15	04	32.2	17			372
1991 JD6		1991	05	13.55833	15	09	43.43	-15	04	29.1				372
1991 JE6	*	1991	05	07.63368	14	46	08.8	-03	47	46	17			376
1991 JE6		1991	05	07.65938	14	46	07.3	-03	47	36				376
1991 JF6	*	1991	05	05.55764	14	19	41.20	-07	21	51.2	16.5			402
1991 JF6		1991	05	05.57309	14	19	40.42	-07	21	45.8				402
1991 JG6	*	1991	05	05.55764	14	26	19.12	-04	52	40.8	17.5			402
1991 JG6		1991	05	05.57309	14	26	18.43	-04	52	40.4				402
1991 JH6	*	1991	05	05.55764	14	27	03.28	-04	27	40.7	16.5			402
1991 JH6		1991	05	05.57309	14	27	02.31	-04	27	39.4				402
1991 JJ6	*	1991	05	07.36179	09	41	30.43	-18	47	50.3	17.5	V		413
1991 JJ6		1991	05	07.40346	09	41	33.99	-18	47	49.8				413
1991 JK6	*	1991	05	07.36179	09	44	11.32	-17	19	09.6	18	V	F	413
1991 JK6		1991	05	07.40346	09	44	12.69	-17	18	47.8			F	413
1991 JL6	*	1991	05	08.55367	15	35	47.31	+00	21	05.9	18	V	V	413
1991 JL6		1991	05	08.61169	15	35	45.79	+00	23	26.5			V	413
1991 JM6	*	1991	05	08.28507	13	37	40.41	-18	55	10.1				675
1991 JM6		1991	05	08.31128	13	37	40.73	-18	54	53.4				675
1991 JN6	*	1991	05	12.35242	13	48	48.4	-03	52	26	17.5			675
1991 JN6		1991	05	12.36141	13	48	48.2	-03	52	23				675
1991 JO6	*	1991	05	15.30486	14	31	43.29	-16	51	48.5				675
1991 JO6		1991	05	15.35747	14	31	40.30	-16	51	38.8				675
1991 JP6	*	1991	05	12.21458	16	03	50.06	-14	24	36.8	18.7			809
1991 JP6		1991	05	12.22778	16	03	49.24	-14	24	35.4				809
1991 JP6		1991	05	12.24097	16	03	48.51	-14	24	34.4				809
1991 JQ6	*	1991	05	12.21458	16	05	47.72	-14	19	59.2	18.5			809
1991 JQ6		1991	05	12.22778	16	05	46.96	-14	19	56.5				809
1991 JQ6		1991	05	12.24097	16	05	46.16	-14	19	54.2				809
1991 JR6	*	1991	05	12.21458	16	11	13.24	-17	02	36.2	19.5			809
1991 JR6		1991	05	12.22778	16	11	12.40	-17	02	35.5				809
1991 JR6		1991	05	12.24097	16	11	11.64	-17	02	32.7				809

1991 JS6	*	1991	05	12.21458	16	12	54.85	-15	42	37.9	19.5		809
1991 JS6		1991	05	12.22778	16	12	54.18	-15	42	38.9			809
1991 JS6		1991	05	12.24097	16	12	53.55	-15	42	40.6			809
1991 JT6	*	1991	05	12.21458	16	13	08.40	-16	40	07.7	18.7		809
1991 JT6		1991	05	12.22778	16	13	07.58	-16	40	07.9			809
1991 JT6		1991	05	12.24097	16	13	06.89	-16	40	07.6			809
1991 JU6	*	1991	05	12.21458	16	14	55.52	-16	48	48.3	18.8		809
1991 JU6		1991	05	12.22778	16	14	54.72	-16	48	49.9			809
1991 JU6		1991	05	12.24097	16	14	53.95	-16	48	52.8			809
1991 JV6	*	1991	05	12.21458	16	16	55.13	-14	30	20.4	19.2		809
1991 JV6		1991	05	12.22778	16	16	54.40	-14	30	21.6			809
1991 JV6		1991	05	12.24097	16	16	53.82	-14	30	20.5			809
1991 JW6	*	1991	05	12.25903	16	17	29.19	-19	51	52.1			809
1991 JW6		1991	05	12.27222	16	17	28.31	-19	51	49.7			809
1991 JW6		1991	05	12.28542	16	17	27.18	-19	51	46.3			809
1991 JX6	*	1991	05	12.25903	16	21	27.64	-21	52	11.9	19.5		809
1991 JX6		1991	05	12.27222	16	21	26.78	-21	52	09.6			809
1991 JX6		1991	05	12.28542	16	21	26.06	-21	52	08.1			809
1991 JY6	*	1991	05	12.25903	16	28	10.23	-19	30	51.9	19.4		809
1991 JY6		1991	05	12.27222	16	28	09.53	-19	30	50.7			809
1991 JY6		1991	05	12.28542	16	28	08.99	-19	30	50.8			809
1991 JZ6	*	1991	05	12.25903	16	32	12.02	-17	07	56.3	18.5		809
1991 JZ6		1991	05	12.27222	16	32	11.21	-17	07	40.4			809
1991 JZ6		1991	05	12.28542	16	32	10.50	-17	07	28.0			809
1991 JA7	*	1991	05	13.16111	15	46	59.52	-09	28	10.2	18.5		809
1991 JA7		1991	05	13.17431	15	46	58.77	-09	28	10.9			809
1991 JA7		1991	05	13.18750	15	46	58.00	-09	28	10.2			809
1991 JB7	*	1991	05	13.16111	15	47	13.44	-10	16	18.2	19.2		809
1991 JB7		1991	05	13.17431	15	47	12.67	-10	16	16.2			809
1991 JB7		1991	05	13.18750	15	47	11.77	-10	16	13.7			809
1991 JC7	*	1991	05	13.16111	15	47	45.33	-10	51	55.3	19.6		809
1991 JC7		1991	05	13.17431	15	47	44.60	-10	51	51.9			809
1991 JC7		1991	05	13.18750	15	47	43.89	-10	51	47.6			809
1991 JD7	*	1991	05	13.16111	15	48	47.11	-10	46	42.0	18.5		809
1991 JD7		1991	05	13.17431	15	48	46.23	-10	46	38.5			809
1991 JD7		1991	05	13.18750	15	48	45.41	-10	46	35.3			809
1991 JE7	*	1991	05	13.16111	15	49	39.48	-07	15	55.0	19.5		809
1991 JE7		1991	05	13.17431	15	49	38.99	-07	15	55.7			809
1991 JE7		1991	05	13.18750	15	49	38.52	-07	15	57.0			809
1991 JF7	*	1991	05	13.16111	15	53	32.48	-08	56	04.7	19.2		809
1991 JF7		1991	05	13.17431	15	53	32.05	-08	56	01.7			809
1991 JF7		1991	05	13.18750	15	53	31.74	-08	56	00.2			809
1991 JG7	*	1991	05	13.16111	15	58	06.87	-10	47	45.8	19.3		809
1991 JG7		1991	05	13.17431	15	58	06.29	-10	47	41.4			809
1991 JG7		1991	05	13.18750	15	58	05.51	-10	47	37.5			809
1991 KG	*	1991	05	16.58917	12	13	00.56	-03	34	53.1	17.5		372
1991 KG		1991	05	16.59958	12	12	59.99	-03	34	51.1			372
1991 KH	*	1991	05	16.70427	18	41	47.88	-62	44	10.7	18	V a	413
1991 KH		1991	05	16.74247	18	41	47.42	-62	44	33.3		a	413
1991 KJ	*	1991	05	18.43703	12	09	41.83	-30	47	09.4	16.5	V a	413
1991 KJ		1991	05	18.47869	12	09	39.87	-30	47	54.3		a	413
1991 KK	*	1991	05	18.55961	15	25	33.68	-03	12	55.6	17	V	413
1991 KK		1991	05	18.61169	15	25	31.18	-03	12	53.0			413
1991 KK		1991	05	18.64692	15	25	29.50	-03	12	50.0			413
1991 KL	*	1991	05	18.55961	15	40	30.10	-03	09	59.9	17.5	V	413
1991 KL		1991	05	18.61169	15	40	27.64	-03	09	52.0			413
1991 KM	*	1991	05	18.55961	15	42	48.49	-03	16	08.5	17.5	V	413
1991 KM		1991	05	18.61169	15	42	43.02	-03	17	00.4			413
1991 KN	*	1991	05	17.20747	12	56	37.47	-04	11	07.0	18.8		675

1991 KN		1991	05	17.23802	12	56	36.68	-04	11	02.2		675
1991 KO	*	1991	05	17.07014	15	55	03.78	-09	55	11.6	19.7	809
1991 KO		1991	05	17.08333	15	55	02.81	-09	55	09.6		809
1991 KO		1991	05	17.09653	15	55	01.94	-09	55	07.3		809
1991 KP	*	1991	05	17.07014	15	57	53.25	-06	46	26.2	19.6	809
1991 KP		1991	05	17.08333	15	57	52.71	-06	46	26.8		809
1991 KP		1991	05	17.09653	15	57	52.01	-06	46	28.6		809
1991 KQ	*	1991	05	17.07014	16	01	49.54	-07	13	01.1	19.0	809
1991 KQ		1991	05	17.08333	16	01	48.84	-07	13	02.4		809
1991 KQ		1991	05	17.09653	16	01	47.90	-07	13	04.8		809
1991 KR	*	1991	05	17.07014	16	04	48.39	-09	24	29.3	18.7	809
1991 KR		1991	05	17.08333	16	04	47.62	-09	24	28.7		809
1991 KR		1991	05	17.09653	16	04	46.88	-09	24	26.9		809
1991 KS	*	1991	05	17.11389	16	00	19.75	-15	08	47.4	18.8	809
1991 KS		1991	05	17.12708	16	00	18.85	-15	08	43.9		809
1991 KS		1991	05	17.14028	16	00	18.06	-15	08	42.1		809
1991 KT	*	1991	05	17.11389	16	02	08.92	-11	39	53.3		809
1991 KT		1991	05	17.12708	16	02	08.02	-11	39	56.2		809
1991 KT		1991	05	17.14028	16	02	07.22	-11	39	59.0		809
1991 KU	*	1991	05	17.11389	16	05	16.08	-14	03	52.7	19.5	809
1991 KU		1991	05	17.12708	16	05	15.13	-14	03	53.7		809
1991 KU		1991	05	17.14028	16	05	14.27	-14	03	53.5		809
1991 KV	*	1991	05	17.11389	16	06	00.74	-12	12	59.9	19.2	809
1991 KV		1991	05	17.12708	16	06	00.01	-12	13	01.0		809
1991 KV		1991	05	17.14028	16	05	59.32	-12	13	00.9		809
1991 KW	*	1991	05	17.11389	16	06	31.30	-14	23	33.2	18.5	809
1991 KW		1991	05	17.12708	16	06	30.52	-14	23	30.3		809
1991 KW		1991	05	17.14028	16	06	29.75	-14	23	28.0		809
1991 KX	*	1991	05	17.11389	16	07	44.97	-11	05	53.9	18.5	809
1991 KX		1991	05	17.12708	16	07	44.30	-11	05	53.7		809
1991 KX		1991	05	17.14028	16	07	43.62	-11	05	51.8		809
1991 KY	*	1991	05	17.11389	16	08	19.57	-11	26	34.5	18.4	809
1991 KY		1991	05	17.12708	16	08	18.93	-11	26	31.3		809
1991 KY		1991	05	17.14028	16	08	18.28	-11	26	29.4		809
1991 KZ	*	1991	05	17.11389	16	08	51.75	-13	27	10.4	19.2	809
1991 KZ		1991	05	17.12708	16	08	51.06	-13	27	10.6		809
1991 KZ		1991	05	17.14028	16	08	50.42	-13	27	10.2		809
1991 KA1	*	1991	05	17.11389	16	09	13.77	-15	12	18.8	19.2	809
1991 KA1		1991	05	17.12708	16	09	13.03	-15	12	14.9		809
1991 KA1		1991	05	17.14028	16	09	12.50	-15	12	12.0		809
1991 KB1	*	1991	05	17.11389	16	09	18.16	-11	18	08.3	18.7	809
1991 KB1		1991	05	17.12708	16	09	17.43	-11	18	07.6		809
1991 KB1		1991	05	17.14028	16	09	16.71	-11	18	05.3		809
1991 KC1	*	1991	05	17.11389	16	12	12.04	-12	15	18.6	18.4	809
1991 KC1		1991	05	17.12708	16	12	11.11	-12	15	23.0		809
1991 KC1		1991	05	17.14028	16	12	10.24	-12	15	26.1		809
1991 KD1	*	1991	05	17.11389	16	13	13.08	-15	52	26.6	19.5	809
1991 KD1		1991	05	17.12708	16	13	12.31	-15	52	25.3		809
1991 KD1		1991	05	17.14028	16	13	11.64	-15	52	24.4		809
1991 KE1	*	1991	05	17.11389	16	14	19.58	-12	50	13.9	19.0	809
1991 KE1		1991	05	17.12708	16	14	18.96	-12	50	07.8		809
1991 KE1		1991	05	17.14028	16	14	18.34	-12	49	58.9		809
1991 KF1	*	1991	05	17.11389	16	15	11.54	-12	50	03.3	19.3	809
1991 KF1		1991	05	17.12708	16	15	10.78	-12	50	02.5		809
1991 KF1		1991	05	17.14028	16	15	09.88	-12	50	02.9		809
1991 KG1	*	1991	05	17.11389	16	16	41.02	-13	24	11.5	18.7	809
1991 KG1		1991	05	17.12708	16	16	40.24	-13	24	10.1		809
1991 KG1		1991	05	17.14028	16	16	39.51	-13	24	09.3		809
1991 KH1	*	1991	05	17.11389	16	18	14.81	-14	40	27.1	19.0	809

1991 KH1		1991	05	17.12708	16	18	14.10	-14	40	24.4		809
1991 KH1		1991	05	17.14028	16	18	13.45	-14	40	20.9		809
1991 KJ1	*	1991	05	17.11389	16	19	24.64	-13	00	44.2	19.2	809
1991 KJ1		1991	05	17.12708	16	19	24.04	-13	00	42.8		809
1991 KJ1		1991	05	17.14028	16	19	23.37	-13	00	42.5		809
1991 KK1	*	1991	05	17.11389	16	19	38.33	-12	39	34.0	18.7	809
1991 KK1		1991	05	17.12708	16	19	37.71	-12	39	30.4		809
1991 KK1		1991	05	17.14028	16	19	37.00	-12	39	26.8		809
1991 KL1	*	1991	05	17.11389	16	19	39.37	-11	47	00.1	18.7	809
1991 KL1		1991	05	17.12708	16	19	38.29	-11	46	58.7		809
1991 KL1		1991	05	17.14028	16	19	37.72	-11	46	57.0		809
1991 KM1	*	1991	05	17.11389	16	19	46.09	-12	30	07.6		809
1991 KM1		1991	05	17.12708	16	19	45.37	-12	30	08.3		809
1991 KM1		1991	05	17.14028	16	19	44.65	-12	30	08.4		809
1991 KN1	*	1991	05	17.15972	16	14	53.88	-19	23	27.8	19.4	809
1991 KN1		1991	05	17.17292	16	14	53.17	-19	23	27.6		809
1991 KN1		1991	05	17.18611	16	14	52.46	-19	23	27.4		809
1991 KO1	*	1991	05	17.15972	16	15	36.71	-17	36	10.5	18.7	809
1991 KO1		1991	05	17.17292	16	15	36.02	-17	36	08.5		809
1991 KO1		1991	05	17.18611	16	15	35.34	-17	36	07.0		809
1991 KP1	*	1991	05	17.15972	16	15	52.00	-19	24	00.8	19.5	809
1991 KP1		1991	05	17.17292	16	15	51.36	-19	24	02.7		809
1991 KP1		1991	05	17.18611	16	15	50.79	-19	24	04.3		809
1991 KQ1	*	1991	05	17.15972	16	16	08.60	-17	55	31.1	18.7	809
1991 KQ1		1991	05	17.17292	16	16	07.63	-17	55	30.6		809
1991 KQ1		1991	05	17.18611	16	16	06.82	-17	55	30.9		809
1991 KR1	*	1991	05	17.15972	16	16	14.32	-20	12	12.0	18.5	809
1991 KR1		1991	05	17.17292	16	16	13.60	-20	11	55.0		809
1991 KR1		1991	05	17.18611	16	16	12.78	-20	11	32.7		809
1991 KS1	*	1991	05	17.15972	16	18	29.00	-16	34	15.7	18.7	809
1991 KS1		1991	05	17.17292	16	18	28.34	-16	34	16.1		809
1991 KS1		1991	05	17.18611	16	18	27.69	-16	34	17.5		809
1991 KT1	*	1991	05	17.15972	16	18	41.94	-18	22	00.3	19.4	809
1991 KT1		1991	05	17.17292	16	18	41.09	-18	22	00.2		809
1991 KT1		1991	05	17.18611	16	18	40.47	-18	21	59.6		809
1991 KU1	*	1991	05	17.15972	16	18	44.33	-19	44	23.0	18.7	809
1991 KU1		1991	05	17.17292	16	18	43.60	-19	44	21.3		809
1991 KU1		1991	05	17.18611	16	18	42.82	-19	44	19.1		809
1991 KV1	*	1991	05	17.15972	16	20	19.44	-20	46	57.2	19.0	809
1991 KV1		1991	05	17.17292	16	20	18.66	-20	46	56.5		809
1991 KV1		1991	05	17.18611	16	20	17.81	-20	46	56.7		809
1991 KW1	*	1991	05	17.15972	16	22	33.94	-20	13	42.4	19.5	809
1991 KW1		1991	05	17.17292	16	22	33.31	-20	13	39.5		809
1991 KW1		1991	05	17.18611	16	22	32.50	-20	13	38.1		809
1991 KX1	*	1991	05	17.15972	16	22	59.71	-16	26	43.6	18.8	809
1991 KX1		1991	05	17.17292	16	22	58.94	-16	26	41.7		809
1991 KX1		1991	05	17.18611	16	22	58.41	-16	26	38.3		809
1991 KY1	*	1991	05	17.15972	16	24	55.00	-19	45	20.6	19.0	809
1991 KY1		1991	05	17.17292	16	24	54.24	-19	45	23.6		809
1991 KY1		1991	05	17.18611	16	24	53.48	-19	45	24.8		809
1991 KZ1	*	1991	05	17.15972	16	26	08.86	-20	18	08.2	19.5	809
1991 KZ1		1991	05	17.17292	16	26	08.08	-20	18	07.5		809
1991 KZ1		1991	05	17.18611	16	26	07.25	-20	18	06.0		809
1991 KA2	*	1991	05	17.15972	16	26	35.92	-18	52	53.3	19.2	809
1991 KA2		1991	05	17.17292	16	26	35.30	-18	52	48.4		809
1991 KA2		1991	05	17.18611	16	26	34.58	-18	52	40.3		809
1991 KB2	*	1991	05	17.15972	16	28	44.09	-17	08	47.1	19.0	809
1991 KB2		1991	05	17.17292	16	28	43.18	-17	08	46.1		809
1991 KB2		1991	05	17.18611	16	28	42.40	-17	08	45.4		809

1991 KC2	*	1991	05	17.15972	16	28	53.81	-21	12	46.5	19.3	809
1991 KC2		1991	05	17.17292	16	28	52.84	-21	12	41.4		809
1991 KC2		1991	05	17.18611	16	28	52.03	-21	12	38.8		809
1991 KD2	*	1991	05	17.15972	16	31	02.04	-16	03	48.4	18.6	809
1991 KD2		1991	05	17.17292	16	31	01.40	-16	03	48.6		809
1991 KD2		1991	05	17.18611	16	31	00.84	-16	03	48.1		809
1991 KE2	*	1991	05	17.15972	16	31	11.26	-18	43	13.0	19.2	809
1991 KE2		1991	05	17.17292	16	31	10.56	-18	43	12.6		809
1991 KE2		1991	05	17.18611	16	31	09.86	-18	43	12.4		809
1991 KF2	*	1991	05	17.15972	16	31	21.70	-20	43	39.5	19.0	809
1991 KF2		1991	05	17.17292	16	31	20.90	-20	43	39.6		809
1991 KF2		1991	05	17.18611	16	31	20.20	-20	43	39.6		809
1991 KG2	*	1991	05	17.15972	16	31	42.18	-16	11	30.7	18.5	809
1991 KG2		1991	05	17.17292	16	31	41.50	-16	11	28.2		809
1991 KG2		1991	05	17.18611	16	31	40.75	-16	11	26.6		809
1991 KH2	*	1991	05	17.15972	16	32	08.79	-17	08	30.9	18.6	809
1991 KH2		1991	05	17.17292	16	32	07.95	-17	08	27.2		809
1991 KH2		1991	05	17.18611	16	32	07.23	-17	08	23.8		809
1991 KJ2	*	1991	05	17.15972	16	32	46.34	-19	19	58.2	19.0	809
1991 KJ2		1991	05	17.17292	16	32	45.74	-19	19	56.9		809
1991 KJ2		1991	05	17.18611	16	32	45.14	-19	19	55.9		809
1991 KK2	*	1991	05	17.15972	16	32	50.33	-19	27	19.8	19.4	809
1991 KK2		1991	05	17.17292	16	32	49.49	-19	27	17.9		809
1991 KK2		1991	05	17.18611	16	32	48.62	-19	27	17.1		809
1991 KL2	*	1991	05	17.15972	16	34	44.38	-19	52	09.1	18.6	809
1991 KL2		1991	05	17.17292	16	34	43.50	-19	52	11.5		809
1991 KL2		1991	05	17.18611	16	34	42.71	-19	52	16.5		809
1991 KM2	*	1991	05	18.13819	16	36	12.86	-18	44	43.8	19.3	809
1991 KM2		1991	05	18.15139	16	36	12.16	-18	44	42.3		809
1991 KM2		1991	05	18.16458	16	36	11.50	-18	44	40.0		809
1991 KN2	*	1991	05	18.13819	16	36	39.60	-18	17	08.1	19.0	809
1991 KN2		1991	05	18.15139	16	36	38.84	-18	17	07.6		809
1991 KN2		1991	05	18.16458	16	36	37.96	-18	17	06.8		809
1991 KO2	*	1991	05	18.13819	16	37	09.02	-20	53	20.6	18.6	809
1991 KO2		1991	05	18.15139	16	37	08.22	-20	53	17.2		809
1991 KO2		1991	05	18.16458	16	37	07.54	-20	53	13.9		809
1991 KP2	*	1991	05	18.13819	16	37	17.20	-20	09	23.4	18.6	809
1991 KP2		1991	05	18.15139	16	37	16.39	-20	09	23.4		809
1991 KP2		1991	05	18.16458	16	37	15.62	-20	09	22.3		809
1991 KQ2	*	1991	05	18.13819	16	37	21.81	-20	02	43.2	19.2	809
1991 KQ2		1991	05	18.15139	16	37	20.91	-20	02	44.9		809
1991 KQ2		1991	05	18.16458	16	37	20.00	-20	02	47.5		809
1991 KR2	*	1991	05	18.13819	16	38	15.99	-18	36	12.6	18.5	809
1991 KR2		1991	05	18.15139	16	38	15.28	-18	36	08.4		809
1991 KR2		1991	05	18.16458	16	38	14.52	-18	36	04.3		809
1991 KS2	*	1991	05	18.13819	16	38	43.23	-20	06	32.3	18.6	809
1991 KS2		1991	05	18.15139	16	38	42.55	-20	06	31.1		809
1991 KS2		1991	05	18.16458	16	38	41.96	-20	06	29.2		809
1991 KT2	*	1991	05	18.13819	16	38	45.77	-21	25	23.0	18.6	809
1991 KT2		1991	05	18.15139	16	38	45.01	-21	25	26.2		809
1991 KT2		1991	05	18.16458	16	38	44.24	-21	25	29.2		809
1991 KU2	*	1991	05	18.13819	16	38	46.44	-20	03	12.4	18.7	809
1991 KU2		1991	05	18.15139	16	38	45.65	-20	03	10.8		809
1991 KU2		1991	05	18.16458	16	38	44.88	-20	03	10.3		809
1991 KV2	*	1991	05	18.13819	16	39	15.66	-22	33	41.5	18.7	809
1991 KV2		1991	05	18.15139	16	39	15.05	-22	33	39.8		809
1991 KV2		1991	05	18.16458	16	39	14.29	-22	33	37.4		809
1991 KW2	*	1991	05	18.13819	16	40	23.26	-19	02	49.5	18.6	809
1991 KW2		1991	05	18.15139	16	40	22.34	-19	02	49.2		809

1991 KW2		1991	05	18.16458	16	40	21.53	-19	02	48.6		809
1991 KX2	*	1991	05	18.13819	16	42	10.74	-20	31	33.7	18.7	809
1991 KX2		1991	05	18.15139	16	42	10.04	-20	31	31.6		809
1991 KX2		1991	05	18.16458	16	42	09.17	-20	31	30.1		809
1991 KY2	*	1991	05	18.13819	16	44	34.96	-20	18	45.3	19.4	809
1991 KY2		1991	05	18.15139	16	44	34.32	-20	18	47.8		809
1991 KY2		1991	05	18.16458	16	44	33.84	-20	18	50.0		809
1991 KZ2	*	1991	05	18.13819	16	45	03.00	-21	29	44.5	18.8	809
1991 KZ2		1991	05	18.15139	16	45	02.36	-21	29	41.5		809
1991 KZ2		1991	05	18.16458	16	45	01.76	-21	29	37.6		809
1991 KA3	*	1991	05	18.13819	16	47	58.41	-20	56	02.8	19.4	809
1991 KA3		1991	05	18.15139	16	47	57.59	-20	55	59.9		809
1991 KA3		1991	05	18.16458	16	47	56.94	-20	55	58.0		809
1991 KB3	*	1991	05	18.13819	16	49	29.03	-18	53	03.3	18.5	809
1991 KB3		1991	05	18.15139	16	49	28.39	-18	52	53.1		809
1991 KB3		1991	05	18.16458	16	49	27.67	-18	52	43.5		809
1991 KC3	*	1991	05	18.13819	16	53	17.52	-21	40	45.4	18.8	809
1991 KC3		1991	05	18.15139	16	53	16.65	-21	40	49.0		809
1991 KC3		1991	05	18.16458	16	53	16.03	-21	40	52.2		809
1991 KD3	*	1991	05	18.13819	16	54	52.68	-18	59	08.9	18.7	809
1991 KD3		1991	05	18.15139	16	54	52.11	-18	59	05.6		809
1991 KD3		1991	05	18.16458	16	54	51.54	-18	59	02.5		809
1991 KE3	*	1991	05	18.13819	16	55	37.91	-22	06	13.8	18.6	809
1991 KE3		1991	05	18.15139	16	55	37.25	-22	06	15.5		809
1991 KE3		1991	05	18.16458	16	55	36.65	-22	06	16.6		809
1991 KF3	*	1991	05	18.13819	16	57	04.20	-19	36	18.4	19.2	809
1991 KF3		1991	05	18.15139	16	57	03.81	-19	36	16.3		809
1991 KF3		1991	05	18.16458	16	57	03.41	-19	36	15.0		809
1991 LY5	*	1991	06	01.91146	15	26	30.32	-05	15	16.2	16.8	046
1991 LY5		1991	06	01.92297	15	26	29.64	-05	15	07.0		046
1991 LZ5	*	1991	06	01.91146	15	28	22.70	-05	56	25.8	16.6	046
1991 LZ5		1991	06	01.92297	15	28	21.88	-05	56	18.3		046
1991 LA6	*	1991	06	02.91667	16	05	33.79	-10	04	12.7	16.8	046
1991 LA6		1991	06	02.92813	16	05	33.02	-10	04	09.3		046
1991 LB6	*	1991	06	02.91667	16	08	42.73	-12	18	03.9		046
1991 LB6		1991	06	02.92813	16	08	42.38	-12	17	56.4		046
1991 LC6	*	1991	06	06.12153	16	20	19.19	-16	11	06.0	19.4	809
1991 LC6		1991	06	06.13472	16	20	18.29	-16	11	05.1		809
1991 LC6		1991	06	06.14792	16	20	17.47	-16	11	03.6		809
1991 LD6	*	1991	06	06.12153	16	22	28.54	-14	11	35.8	19.2	809
1991 LD6		1991	06	06.13472	16	22	27.49	-14	11	34.9		809
1991 LD6		1991	06	06.14792	16	22	26.74	-14	11	34.4		809
1991 LE6	*	1991	06	06.12153	16	23	36.43	-14	28	49.3	19.3	809
1991 LE6		1991	06	06.13472	16	23	35.77	-14	28	46.2		809
1991 LE6		1991	06	06.14792	16	23	35.20	-14	28	43.7		809
1991 LF6	*	1991	06	06.12153	16	26	55.96	-13	29	44.9	19.0	809
1991 LF6		1991	06	06.13472	16	26	54.94	-13	29	44.9		809
1991 LF6		1991	06	06.14792	16	26	54.18	-13	29	46.5		809
1991 LG6	*	1991	06	06.12153	16	27	12.11	-17	11	18.4	19.2	809
1991 LG6		1991	06	06.13472	16	27	11.41	-17	11	17.3		809
1991 LG6		1991	06	06.14792	16	27	10.64	-17	11	15.8		809
1991 LH6	*	1991	06	06.12153	16	31	19.19	-16	04	29.6	18.7	809
1991 LH6		1991	06	06.13472	16	31	18.34	-16	04	30.5		809
1991 LH6		1991	06	06.14792	16	31	17.29	-16	04	32.3		809
1991 LJ6	*	1991	06	06.12153	16	32	10.08	-17	13	47.3	19.0	809
1991 LJ6		1991	06	06.13472	16	32	09.24	-17	13	44.6		809
1991 LJ6		1991	06	06.14792	16	32	08.52	-17	13	41.9		809
1991 LK6	*	1991	06	06.12153	16	36	22.57	-16	20	46.3	19.3	809
1991 LK6		1991	06	06.13472	16	36	21.78	-16	20	42.5		809

1991	LK6		1991	06	06.14792	16	36	20.90	-16 20 36.9	809
1991	LL6	*	1991	06	06.12153	16	39	19.59	-16 22 47.6	18.6 809
1991	LL6		1991	06	06.13472	16	39	18.71	-16 22 45.4	809
1991	LL6		1991	06	06.14792	16	39	17.78	-16 22 42.0	809
1991	LM6	*	1991	06	06.12153	16	39	51.90	-16 26 19.2	19.0 809
1991	LM6		1991	06	06.13472	16	39	51.02	-16 26 20.9	809
1991	LM6		1991	06	06.14792	16	39	50.13	-16 26 23.5	809
1991	LN6	*	1991	06	06.16528	16	22	59.09	-19 30 29.4	19.5 809
1991	LN6		1991	06	06.17847	16	22	58.15	-19 30 30.8	809
1991	LN6		1991	06	06.19167	16	22	57.18	-19 30 32.3	809
1991	LO6	*	1991	06	06.16528	16	23	11.63	-19 32 54.5	19.0 809
1991	LO6		1991	06	06.17847	16	23	10.88	-19 32 52.8	809
1991	LO6		1991	06	06.19167	16	23	10.18	-19 32 51.0	809
1991	LP6	*	1991	06	06.16528	16	23	28.05	-19 31 00.4	19.5 809
1991	LP6		1991	06	06.17847	16	23	27.17	-19 30 57.2	809
1991	LP6		1991	06	06.19167	16	23	26.28	-19 30 54.4	809
1991	LQ6	*	1991	06	06.16528	16	35	23.35	-22 07 14.7	18.6 809
1991	LQ6		1991	06	06.17847	16	35	22.40	-22 07 10.6	809
1991	LQ6		1991	06	06.19167	16	35	21.49	-22 07 06.4	809
1991	LR6	*	1991	06	06.16528	16	37	32.82	-22 04 18.8	18.7 809
1991	LR6		1991	06	06.17847	16	37	31.88	-22 04 17.5	809
1991	LR6		1991	06	06.19167	16	37	31.03	-22 04 16.7	809
1991	LS6	*	1991	06	06.20972	16	46	54.82	-14 10 54.4	19.4 809
1991	LS6		1991	06	06.22292	16	46	54.00	-14 10 53.9	809
1991	LS6		1991	06	06.23611	16	46	53.29	-14 10 54.2	809
1991	LT6	*	1991	06	06.20972	16	50	59.91	-13 39 27.9	19.6 809
1991	LT6		1991	06	06.22292	16	50	59.15	-13 39 27.3	809
1991	LT6		1991	06	06.23611	16	50	58.42	-13 39 25.9	809
1991	LU6	*	1991	06	06.20972	16	56	44.27	-14 13 40.4	18.6 809
1991	LU6		1991	06	06.22292	16	56	43.48	-14 13 42.0	809
1991	LU6		1991	06	06.23611	16	56	42.63	-14 13 42.5	809
1991	LV6	*	1991	06	06.20972	16	56	58.87	-14 09 03.2	18.8 809
1991	LV6		1991	06	06.22292	16	56	57.89	-14 09 06.1	809
1991	LV6		1991	06	06.23611	16	56	57.01	-14 09 08.2	809
1991	LW6	*	1991	06	08.09722	16	19	38.54	-12 52 04.2	809
1991	LW6		1991	06	08.11042	16	19	37.82	-12 52 05.5	809
1991	LW6		1991	06	08.12361	16	19	37.14	-12 52 08.2	809
1991	LX6	*	1991	06	08.09722	16	25	26.41	-15 16 01.9	19.4 809
1991	LX6		1991	06	08.11042	16	25	25.73	-15 16 02.4	809
1991	LX6		1991	06	08.12361	16	25	24.98	-15 16 00.2	809
1991	LY6	*	1991	06	08.09722	16	27	31.68	-12 15 46.7	18.6 809
1991	LY6		1991	06	08.11042	16	27	30.83	-12 15 46.4	809
1991	LY6		1991	06	08.12361	16	27	30.02	-12 15 45.2	809
1991	LZ6	*	1991	06	08.09722	16	31	39.39	-12 19 35.2	809
1991	LZ6		1991	06	08.11042	16	31	38.45	-12 19 33.8	809
1991	LZ6		1991	06	08.12361	16	31	37.61	-12 19 32.6	809
1991	LA7	*	1991	06	08.14167	16	21	41.37	-19 49 17.0	809
1991	LA7		1991	06	08.15486	16	21	40.47	-19 49 14.9	809
1991	LA7		1991	06	08.16806	16	21	39.56	-19 49 14.0	809
1991	LB7	*	1991	06	08.14167	16	39	45.73	-21 26 56.5	809
1991	LB7		1991	06	08.15486	16	39	45.03	-21 26 55.7	809
1991	LB7		1991	06	08.16806	16	39	44.34	-21 26 55.1	809
1991	LC7	*	1991	06	08.18611	16	33	27.69	-15 01 54.3	19.5 809
1991	LC7		1991	06	08.19931	16	33	26.96	-15 01 54.8	809
1991	LC7		1991	06	08.21250	16	33	26.10	-15 01 54.5	809
1991	LD7	*	1991	06	08.18611	16	44	28.51	-14 07 50.2	809
1991	LD7		1991	06	08.19931	16	44	27.80	-14 07 49.0	809
1991	LD7		1991	06	08.21250	16	44	27.13	-14 07 48.2	809
1991	LE7	*	1991	06	08.18611	16	47	09.99	-17 17 23.5	19.2 809

1991 LE7		1991 06 08.19931	16 47 09.19	-17 17 24.2		809
1991 LE7		1991 06 08.21250	16 47 08.45	-17 17 25.1		809
1991 LF7	*	1991 06 08.18611	16 47 44.74	-16 51 24.8		809
1991 LF7		1991 06 08.19931	16 47 44.12	-16 51 24.4		809
1991 LF7		1991 06 08.21250	16 47 43.41	-16 51 24.6		809
1991 LG7	*	1991 06 08.18611	16 48 45.86	-13 39 13.0		809
1991 LG7		1991 06 08.19931	16 48 44.99	-13 39 12.0		809
1991 LG7		1991 06 08.21250	16 48 44.22	-13 39 10.3		809

* * * * *

ORBITAL ELEMENTS.

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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 Cernis-Petrauskas (1980 IV)

T 1980 June 22.44938 TT				Marsden
q 0.5227437		(2000.0)	P	Q
	Peri.	337.76949	-0.79111548	-0.55801925
	Node	160.63559	+0.60984821	-0.68802588
e 1.0	Incl.	49.06805	-0.04713235	+0.46393416

From 13 observations 1980 Aug. 2-Sept.12.

Comet Sorrells (1987 II)
Epoch 1987 Mar. 26.0 TT = JDT 2446880.5
T 1987 Mar. 9.65452 TT Nakano

q	1.7211555	(2000.0)	P	Q
z	0.0000529	Peri. 70.23285	+0.94514979	+0.06113884
+/-	0.0000014	Node 74.80459	-0.03845779	-0.95466472
e	0.9999090	Incl. 160.58008	+0.32436533	-0.29133712

From 270 observations 1986 Nov. 2-1987 Sept. 19, mean residual 1".00.

Periodic Comet Mueller 4 (1992g)
T 1992 Feb. 16.20424 TT Nakano

q	2.6372559	(2000.0)	P	Q
n	0.10986637	Peri. 43.56214	-0.93601112	+0.21048674
a	4.3174388	Node 145.41795	-0.21060682	-0.97710234
e	0.3891619	Incl. 29.80248	+0.28200699	-0.03108606
P	8.97			

From 16 observations 1992 Apr. 9-June 3.

Comet Bradfield (1992i)
T 1992 May 25.79398 TT Marsden

q	0.5923045	(2000.0)	P	Q
		Peri. 299.71697	-0.74233271	-0.65826749
		Node 159.99812	-0.41514433	+0.59830560
e	1.0	Incl. 158.56442	-0.52592521	+0.45685263

From 10 observations 1992 May 4-June 4.

One-opposition minor planets

Planet	H	Epoch	M	Peri.	Node	Incl.	e	a	Arc	O	N	C
1971 FD	12.0	710330	233.00	323.81	4.83	16.09	0.2127	3.8565	23	7		W
1980 DO	13.5	800211	326.23	62.53	123.34	4.55	0.2051	2.7437	7	0		W
1981 UW11	14.5	811023	1.84	299.39	92.61	3.06	0.1780	2.3199	6	4		W
1981 UK21	12.7	811023	318.23	353.80	97.05	2.60	0.1000	3.2079	2	3	E	E
1981 UM21	13.4	811023	78.13	140.66	161.68	5.27	0.1563	2.2539	2	3		E
1981 UP21	15.5	811023	331.24	36.44	43.56	27.71	0.2000	2.3659	2	3	E	E
1981 UQ21	16.2	811023	25.23	202.88	153.85	4.03	0.2276	2.1911	2	3		E
1981 UR21	14.2	811023	29.72	309.09	49.54	15.71	0.1500	2.4727	2	3	E	E
1981 US21	15.1	811023	315.91	255.87	211.79	21.47	0.2500	2.3270	2	3	E	E
1981 UT21	14.2	811023	308.67	275.37	191.12	7.27	0.1629	2.2599	2	3		E
1981 UU21	12.7	811023	37.52	303.68	55.07	10.52	0.0500	2.5713	2	3	E	E
1981 UV21	13.8	811023	337.95	329.58	95.98	2.66	0.1000	2.2262	2	3	E	E
1981 UW21	12.0	811023	246.10	33.82	125.92	5.66	0.0541	2.7822	3	4	D	W
1981 UY21	13.5	811023	341.32	329.23	91.91	5.46	0.1000	2.2641	2	3	E	E
1981 UZ21	15.4	811023	300.05	21.46	97.42	3.33	0.1784	2.3219	2	3		E
1981 UA22	13.6	811023	252.42	91.79	69.98	9.07	0.1384	2.3563	2	3		E
1981 UB22	14.1	811023	34.74	174.59	177.56	6.16	0.1519	2.2238	2	3		E
1981 UC22	15.4	811023	9.89	241.33	145.94	5.11	0.0832	2.3291	2	3		E
1981 UD22	13.8	811023	33.98	195.28	161.30	5.84	0.1154	2.2869	2	3		E
1981 UE22	14.7	811023	70.01	207.89	101.45	4.02	0.1821	2.2850	2	3		E
1981 UF22	14.3	811023	38.27	234.92	120.95	3.58	0.0830	2.4043	2	3		E
1981 UG22	14.0	811023	16.91	284.91	93.50	7.30	0.1500	3.2211	2	3	E	M
1981 UH22	14.3	811023	264.68	335.50	175.32	4.05	0.1259	2.3228	2	3		E
1981 UJ22	15.0	811023	358.53	327.53	76.03	5.41	0.2767	3.1427	32	5	D	W
1981 UK22	13.4	811023	33.26	146.85	207.67	11.42	0.1684	2.3639	2	3		E
1981 UN22	15.2	811023	278.84	36.65	108.69	2.76	0.2000	2.2167	2	3	E	E
1981 UO22	13.9	811023	331.46	241.47	196.08	7.51	0.1000	2.9522	2	3	E	E
1981 UP22	14.7	811023	27.27	304.77	55.02	11.86	0.1956	2.4351	2	3		E

1981	UQ22	14.8	811023	139.56	130.37	128.76	3.66	0.0451	2.3033	2	3		E
1981	US22	13.8	811023	345.03	344.47	73.53	7.28	0.0874	2.2388	2	3		E
1981	UT22	14.0	811023	312.30	265.83	199.60	8.68	0.1449	3.1388	2	3		E
1981	UU22	12.0	811023	128.24	191.45	71.27	12.10	0.1663	3.1699	2	3	E	M
1981	UW22	15.6	811023	50.26	217.11	106.69	5.30	0.2440	2.2196	2	3		E
1981	UX22	14.0	811023	9.82	323.97	66.11	9.86	0.1182	2.9517	32	5	D	W
1981	UY22	13.1	811023	169.34	18.08	213.61	16.36	0.2500	2.5419	2	5	E	E
1981	UZ22	13.8	811023	15.16	226.58	153.05	5.36	0.2000	3.1960	2	3	E	E
1981	UA23	15.0	811023	338.37	336.98	93.35	3.07	0.1606	2.2554	32	7	D	W
1981	UC23	13.0	811023	131.96	48.61	211.64	13.31	0.1927	3.2287	2	5		E
1981	UW23	13.0	811023	45.70	279.87	59.70	15.08	0.1844	2.6133	31	4	D	W
1981	UA25	14.0	811023	12.46	204.71	173.80	3.02	0.1631	2.8733	3	3	D	W
1981	UP25	13.0	811003	191.03	5.41	201.68	7.67	0.1857	2.5475	32	4	D	W
1981	US25	14.0	811023	44.01	139.13	202.79	11.42	0.1224	2.3901	3	3	D	W
1981	UC26	13.5	811003	8.97	221.31	159.93	3.80	0.1343	3.0615	32	4	D	W
1981	UY26	14.0	811023	18.62	260.02	107.36	3.98	0.2138	2.3145	3	3	D	W
1981	UC27	14.5	811023	17.67	174.88	198.62	6.47	0.1675	2.5522	2	3		E
1981	UE27	16.0	811023	18.87	214.93	151.48	2.30	0.2336	2.3208	2	4		E
1981	UF27	16.1	811023	324.40	15.70	68.52	5.52	0.1463	2.1579	2	4		E
1981	WE9	14.0	811112	36.94	175.32	179.75	2.84	0.1776	2.2187	38	7		W
1981	WJ9	14.5	811112	333.52	252.22	192.73	5.27	0.1845	2.6166	38	7		W
1984	WQ	11.5	841116	283.56	272.02	245.63	14.98	0.1749	3.2094	6	6	E	M
1984	WR	14.5	841116	33.72	305.21	64.57	5.91	0.2065	2.2147	6	6	E	M
1984	WC2	13.5	841027	356.59	139.48	271.55	7.72	0.1479	2.7893	21	3		M
1988	RN5	14.2	880916	351.65	109.85	247.68	2.31	0.1601	2.7278	14	0		E
1988	RO5	13.6	880916	294.78	103.17	328.12	10.58	0.1802	2.6659	14	0		E
1990	YC	13.5	901215	28.72	335.87	82.25	2.78	0.1601	2.2206	31	0		W
1991	DB1	14.0	910213	336.49	4.85	169.33	5.20	0.0694	2.3575	8	6		W
1991	DG1	12.5	910213	49.28	274.67	174.43	4.94	0.1576	3.0901	30	0		W
1991	ED2	14.0	910213	358.73	345.51	162.32	4.68	0.0969	2.2656	30	0	D	W
1991	GA9	14.0	910325	65.23	275.78	206.69	5.71	0.0763	2.3605	24	9		W
1991	GC10	15.0	910414	89.57	49.04	45.51	5.67	0.1269	2.2976	9	6		W
1991	GH11	14.5	910414	36.73	0.45	144.22	2.43	0.2320	3.0945	8	6		W
1991	GK11	15.5	910414	292.27	205.98	82.33	2.17	0.1649	2.3598	8	6		W
1991	JP	13.5	910504	329.73	57.55	210.26	9.70	0.2415	2.3497	40	8		W
1991	PQ	10.5	910812	215.55	158.11	308.06	20.90	0.0659	3.4757	13	0		W
1991	PV8	13.5	910723	329.34	67.82	287.11	6.23	0.1759	2.4983	9	9		W
1991	PD10	14.0	910901	255.23	118.67	332.31	7.31	0.0402	2.3707	54	0		W
1991	PE11	13.5	910812	347.48	8.71	341.10	4.77	0.1730	2.7272	42	0		W
1991	PM15	14.0	910812	27.21	343.47	305.65	3.68	0.2372	2.5997	37	8		W
1991	PH16	14.5	910901	14.61	354.67	335.39	6.61	0.1250	2.2114	59	9		W
1991	RV	15.0	910901	355.39	228.73	127.97	2.93	0.2373	2.3627	23	0		W
1991	RB1	13.0	910921	5.70	97.77	253.53	6.18	0.1719	2.8112	32	9		W
1991	RC2	14.0	910901	301.69	82.75	333.34	7.38	0.1272	2.3205	11	0		W
1991	RD2	13.5	910901	287.85	106.61	315.53	1.42	0.0355	2.8818	4	6	E	W
1991	RN4	14.5	910901	332.69	226.17	159.31	6.30	0.2309	2.3830	22	0		W
1991	RR4	15.0	910921	341.89	56.03	336.65	3.61	0.1592	2.2599	31	0		W
1991	RS4	16.5	910921	12.25	24.17	322.56	1.74	0.2360	2.3869	27	0		W
1991	RU4	13.5	910921	351.11	176.18	205.14	8.36	0.0681	3.0428	26	0		W
1991	RV4	15.0	910921	356.23	141.14	233.25	2.61	0.1128	2.6190	27	0		W
1991	RK5	12.5	910921	22.29	325.12	13.26	11.16	0.1051	3.0242	24	0		W
1991	RN5	13.0	910921	14.50	185.96	162.45	5.65	0.0749	2.7298	22	9		W
1991	RO5	15.5	910921	26.29	291.71	33.00	6.29	0.1767	2.3111	18	9		W
1991	RP5	12.5	910921	76.84	96.34	177.07	21.84	0.1298	3.1924	18	8		W
1991	RA6	14.0	910921	51.18	236.04	54.82	5.51	0.2021	2.3500	32	0		W
1991	RE6	13.5	910921	50.13	271.32	33.22	9.96	0.1265	3.0264	19	7		W
1991	RF6	14.5	910921	0.24	250.43	112.45	2.96	0.2093	2.2417	18	7		W
1991	RL8	15.0	910921	6.33	336.61	21.69	7.36	0.1924	2.2973	25	7		W
1991	RU8	14.5	910921	41.59	299.98	4.05	1.88	0.2015	2.3975	25	9		W

1991	RY8	14.0	910921	349.29	9.89	8.63	3.75	0.1384	2.2899	25	9	D	W
1991	RB9	13.5	910921	286.98	273.15	179.01	2.11	0.1041	2.8751	25	7		W
1991	RC9	14.5	910921	5.17	339.71	18.92	4.09	0.0958	2.2920	24	7		W
1991	RG9	14.0	910921	55.93	89.56	203.41	2.91	0.1649	2.2243	26	7		W
1991	RL9	14.5	910921	6.97	143.99	212.93	1.94	0.1858	2.4320	27	6		W
1991	RR10	15.0	910921	346.84	21.76	5.13	6.82	0.1221	2.3121	30	7		W
1991	RV10	13.0	910921	321.71	20.20	38.92	4.79	0.1045	3.1253	27	7		W
1991	RD13	16.0	910921	357.74	63.16	300.08	2.55	0.2759	2.6350	23	7		W
1991	RL13	15.5	910921	23.37	32.02	294.19	2.39	0.1755	2.2064	23	7		W
1991	RN13	15.0	910921	29.38	43.52	273.92	4.25	0.1951	2.2035	26	0	D	W
1991	RV13	14.0	910921	337.20	173.12	216.45	5.91	0.1188	2.3802	24	9		W
1991	RA14	13.0	910921	349.48	40.85	339.33	7.98	0.2625	3.9675	24	9		W
1991	RG14	14.5	910921	346.09	37.27	342.09	13.12	0.1900	2.5543	25	0		W
1991	RB16	15.0	910921	20.57	285.39	43.08	3.13	0.1813	2.1613	16	0		W
1991	RD16	15.5	910901	346.09	216.26	154.52	4.71	0.1999	2.2105	23	0		W
1991	RH16	14.5	910921	352.75	208.43	160.51	4.92	0.1243	2.4075	20	8		W
1991	RO16	16.5	910921	358.33	295.89	66.09	3.21	0.2240	2.2519	15	7		W
1991	RQ16	14.5	910921	21.31	257.84	72.62	4.07	0.1612	2.6758	15	7		W
1991	RU16	15.5	910921	9.43	316.43	31.21	6.55	0.1300	2.2751	15	7		W
1991	RA17	14.5	910921	16.07	301.54	36.03	7.12	0.1645	2.2926	17	8		W
1991	RQ17	14.0	910921	326.18	72.11	351.38	22.43	0.3533	3.1650	24	9		W
1991	RT17	12.5	910901	33.39	46.16	258.59	1.57	0.1216	3.0820	5	0		W
1991	RW17	15.0	910901	27.36	119.47	195.43	3.29	0.0713	2.2796	4	0		W
1991	RX17	14.5	910901	14.61	148.46	177.76	4.37	0.1438	2.3188	58	9	D	W
1991	RC19	15.0	910921	342.01	86.02	301.01	3.73	0.2656	2.6044	21	0		W
1991	RD19	15.5	910901	345.84	100.37	270.19	2.93	0.2482	2.2756	5	6		W
1991	RE19	14.5	910901	10.98	6.45	327.09	5.95	0.1433	2.3777	5	0		W
1991	RK19	13.0	910901	28.90	69.72	247.77	2.78	0.0736	3.0123	3	7	E	W
1991	RO19	15.0	910901	345.51	36.54	338.13	10.51	0.2805	2.5497	5	6		W
1991	RQ19	15.5	910921	11.57	30.65	306.34	3.41	0.2477	2.4196	23	9		W
1991	RS19	15.0	910921	352.21	43.05	326.50	5.07	0.2332	2.6146	23	9		W
1991	RU19	15.0	910901	340.65	42.41	333.23	6.57	0.1604	2.2380	5	6		W
1991	RW19	14.5	910901	36.81	48.39	247.84	2.35	0.1946	2.3410	5	9		W
1991	RZ19	13.5	910901	358.53	15.38	337.81	8.71	0.1632	2.7811	5	6	E	W
1991	RC20	14.0	910901	85.35	39.27	207.85	4.07	0.1654	2.2263	3	7		W
1991	RE20	13.5	910921	277.19	104.87	344.38	11.25	0.0763	2.7688	21	0		W
1991	RJ20	15.5	910921	358.62	227.94	131.88	3.04	0.2287	2.4025	16	7		W
1991	RK23	15.0	910921	24.79	232.35	91.99	3.26	0.0969	2.1998	17	0		W
1991	RP23	14.0	910921	66.98	265.85	9.91	15.05	0.0928	2.5930	31	0		W
1991	RX23	12.9	910901	308.41	45.49	356.17	9.26	0.0705	3.0341	8	9		W
1991	RB24	15.5	910901	17.50	180.98	136.88	2.89	0.1634	2.1323	4	0		W
1991	RG25	13.5	910921	39.80	223.02	92.25	9.12	0.2219	2.8031	26	6		W
1991	RH25	13.0	911011	17.12	288.55	68.56	7.10	0.1654	2.3005	62	8		W
1991	RR26	15.1	910921	31.26	332.17	349.47	4.12	0.2597	2.3502	4	9		E
1991	RZ26	13.0	910921	185.27	156.94	33.78	10.83	0.1133	2.8325	23	6		W
1991	RC27	13.5	910921	1.41	341.20	28.33	13.60	0.1796	2.6378	24	0		W
1991	RH27	14.5	910921	39.55	167.78	149.68	4.85	0.1795	2.2356	25	8	D	N
1991	RQ27	14.5	911011	38.71	212.51	111.24	4.62	0.2243	2.4309	61	9		W
1991	RC28	14.0	910901	127.65	54.20	155.88	13.01	0.0908	2.9909	9	0		W
1991	RJ28	16.0	910901	196.71	359.49	152.66	10.52	0.0936	2.7386	9	9		W
1991	RK28	17.0	910901	12.55	173.45	147.35	4.76	0.2624	2.5412	7	9		W
1991	RL28	17.5	910901	40.21	135.91	146.83	5.65	0.2285	2.5845	7	0		W
1991	SU1	16.0	910901	16.98	334.67	349.73	18.72	0.0829	1.8942	7	6		W
1991	SX1	13.5	910901	158.74	209.68	328.43	2.12	0.0711	2.2405	9	6	E	W
1991	SE2	14.5	910901	17.44	143.45	168.24	2.46	0.2355	2.3803	9	7		W
1991	SJ2	15.0	910901	8.30	8.71	320.41	8.63	0.2287	2.4622	2	7	E	W
1991	SK2	11.5	910901	79.04	266.72	333.62	14.30	0.2156	3.1704	5	7	E	W
1991	TG2	14.5	911011	346.79	2.44	45.61	6.11	0.3077	2.6035	6	9		W
1991	TQ2	15.5	910921	311.60	172.39	269.38	2.84	0.2416	2.4798	3	6		W

1991	TW2	16.0	910921	346.69	136.48	252.26	2.29	0.2594	2.2088	3	7		W
1991	TY2	15.5	910921	7.21	112.06	248.69	3.48	0.1394	3.1004	7	0		W
1991	TZ2	15.5	910921	43.70	304.07	4.70	14.23	0.1870	2.6090	3	7		W
1991	TC3	15.5	910921	258.43	142.50	348.49	4.08	0.1811	2.2905	2	7		W
1991	TX4	14.5	910921	283.23	117.50	358.39	5.88	0.1532	2.2178	9	9		W
1991	TU5	16.0	910921	280.93	116.90	345.93	3.45	0.1118	2.4519	6	6		W
1991	UA	12.0	910921	359.38	30.57	352.57	2.37	0.2496	3.9828	48	0		W
1991	UL	12.5	911031	183.80	354.08	214.63	9.93	0.2637	2.1869	13	0		N
1991	UP	14.4	911011	325.06	175.31	262.81	2.30	0.2111	2.3577	46	0		E
1991	UV1	14.4	911031	334.07	41.27	32.33	6.98	0.1713	2.3039	22	0		N
1991	UA3	12.9	911031	15.20	325.15	51.51	9.05	0.1929	3.0154	22	0		N
1991	UP3	14.6	911031	355.21	318.96	87.32	3.20	0.2014	2.3501	22	0		N
1991	VT1	13.7	911210	18.57	143.78	262.62	2.95	0.1159	2.1858	39	0		N
1991	VR2	14.0	911011	45.72	274.79	45.56	23.47	0.2643	2.3008	25	0		W
1991	VH9	16.3	911031	117.08	75.91	193.75	4.21	0.1787	2.2491	4	0	D	N
1991	VP12	15.5	911120	98.96	238.61	73.66	5.50	0.1256	2.5470	51	9		W
1991	YM	15.5	911230	6.42	17.96	66.22	8.11	0.2080	2.7053	7	6		M
1991	YV	13.5	911230	346.97	3.51	110.13	13.09	0.1163	2.5902	7	6		M
1991	YW	14.5	911230	59.35	260.75	127.31	6.25	0.1008	2.4420	7	6		M
1991	YB1	15.0	911230	25.04	91.61	326.90	3.35	0.1610	2.2953	7	7		M
1991	YC1	14.0	911230	291.63	220.42	315.17	4.88	0.1240	2.2580	4	5		M
1992	AW2	16.0	911230	66.18	304.36	97.97	5.34	0.0530	2.2276	29	8		W
1992	GA	14.0	920408	4.64	247.52	310.02	11.67	0.1183	2.6347	28	0		W
1992	HM	14.0	920428	339.18	181.85	50.56	26.07	0.1554	2.4041	40	6		W
1992	HK1	15.0	920428	328.91	218.10	44.71	1.66	0.2559	3.0575	9	0	D	N
1992	JA	13.5	920518	20.64	326.75	234.89	24.06	0.2013	2.3427	35	0		W
1992	JN1	13.0	920518	310.66	218.11	90.82	13.55	0.1746	2.5907	33	0		W
1992	KC	15.0	920518	356.00	62.02	180.88	3.72	0.1283	2.2314	13	0		W
1992	KE	12.8	920607	328.08	180.12	106.71	7.57	0.1201	2.4429	8	6		N
1992	KS	12.5	920518	294.80	84.36	246.80	9.47	0.1265	2.5273	3	4		W
1992	LE	13.3	920607	342.36	139.10	152.79	15.15	0.3033	2.9926	5	6		E
1992	LG	12.9	920607	88.12	30.36	100.28	3.94	0.2040	2.3387	3	6		E
1992	LJ	13.6	920607	15.86	77.45	145.57	4.21	0.1297	2.4976	3	6		E
1992	LK	14.1	920607	323.76	224.46	75.30	6.62	0.2103	2.2815	3	5		E
1992	LL	15.1	920607	335.70	195.69	88.20	5.66	0.2160	2.2675	3	6		E
1992	LM	13.2	920607	317.88	228.22	76.58	5.69	0.2000	2.8469	3	6	E	E
1992	LN	13.3	920607	27.82	125.59	87.79	7.78	0.0562	2.4109	3	6		E
1992	LO	14.7	920607	46.28	319.68	208.87	7.18	0.2959	2.4323	3	5		E
1992	LP	14.7	920607	316.63	210.27	108.60	2.29	0.2823	2.3003	3	6		E
1992	LQ	12.6	920607	12.19	155.69	75.41	11.75	0.0325	2.9652	3	6		E
1992	LS	14.1	920607	322.21	99.97	201.59	3.76	0.2000	2.5244	3	5	E	E
1992	MC	12.5	920627	292.48	194.66	165.38	15.66	0.1853	2.6489	3	6		W

1981 UW21 = 1981 UW19 (G. V. Williams)
1981 UJ22 = 1981 WQ2 (G. V. Williams)
1981 UX22 = 1981 WZ2 (G. V. Williams)
1981 UA23 = 1981 WX2 (G. V. Williams)
1981 UW23 = 1981 WS3 (G. V. Williams)
1981 UA25 = 1981 UO20 (G. V. Williams)
1981 UP25 = 1981 ST8 (G. V. Williams)
1981 US25 = 1981 UP20 (G. V. Williams)
1981 UC26 = 1981 SU8 (G. V. Williams)
1981 UY26 = 1981 UA12 (G. V. Williams)
1991 ED2 = 1991 CY2 (G. V. Williams)
1991 RY8 = 1991 SK1 (S. Nakano, MPC 19822)
1991 RN13 = 1991 SO1 (S. Nakano, MPC 19822)
1991 RX17 = 1991 PV10 (G. V. Williams)
1991 RH27 = 1991 TA6 (S. Nakano)
1991 VH9 = 1991 VU12 (S. Nakano)
1992 HK1 = 1992 HE4 (S. Nakano, A. Lowe)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(382) Dodona Obs. 122 M 227.48494 Peri. 272.26291
H 8.77 G 0.15 Opp. 36 n 0.17937965 Node 313.79999
rms res. 1".03 (M-N) 1894-1990 e 0.1787178 Incl. 7.41060

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(407) Arachne Obs. 166 M 276.15488 Peri. 81.23194
H 8.88 G 0.15 Opp. 39 n 0.23187144 Node 294.97713
rms res. 0".99 (M-N) 1895-1991 e 0.0712640 Incl. 7.54302

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(431) Nephele Obs. 175 M 112.04239 Peri. 212.45844
H 8.72 G 0.15 Opp. 45 n 0.17838976 Node 117.54457
rms res. 0".97 (M-N) 1897-1990 e 0.1838397 Incl. 1.82699

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(492) Gismonda Obs. 127 M 140.32937 Peri. 290.20283
H 9.8 G 0.15 Opp. 34 n 0.17945403 Node 46.90378
rms res. 0".98 (M-N) 1902-1990 e 0.1774839 Incl. 1.63358

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(656) Beagle Obs. 152 M 338.45543 Peri. 335.01342
H 10.0 G 0.15 Opp. 35 n 0.17636098 Node 184.60733
rms res. 0".98 (M-N) 1908-1992 e 0.1355044 Incl. 0.50817

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(1054) Forsytia Obs. 46 M 147.24407 Peri. 295.11248
H 10.3 G 0.15 Opp. 21 n 0.19693424 Node 86.26986
rms res. 1".08 (M-N) 1907-1991 e 0.1345755 Incl. 10.84522

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(1063) Aquilegia Obs. 63 M 188.32340 Peri. 106.86661
H 11.38 G 0.15 Opp. 23 n 0.27996462 Node 95.56184
rms res. 1".01 (M-N) 1906-1991 e 0.0392675 Incl. 5.97536

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(1364) Safara Obs. 61 M 71.03681 Peri. 222.95435
H 10.6 G 0.15 Opp. 22 n 0.18859881 Node 64.43053
rms res. 1".05 (M-N) 1932-1991 e 0.0733513 Incl. 11.50055

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(1433) Geramtina Obs. 28 M 240.69577 Peri. 93.75216
H 11.4 G 0.15 Opp. 9 n 0.21091215 Node 321.99941
rms res. 0".70 (M-C) 1937-1990 e 0.1722517 Incl. 8.24972

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(1642) Hill Obs. 61 M 206.74892 Peri. 147.01629
H 10.5 G 0.15 Opp. 19 n 0.21585173 Node 339.56963
rms res. 0".91 (M-C) 1908-1990 e 0.0656241 Incl. 10.81669

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(1928) Summa Obs. 36 M 293.33617 Peri. 157.14123
H 12.68 G 0.15 Opp. 9 n 0.25279019 Node 180.88539
rms res. 0".93 (M-C) 1938-1992 e 0.2001676 Incl. 4.55966

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(1960) Guisan Obs. 40 M 335.94378 Peri. 263.20113
H 11.93 G 0.15 Opp. 9 n 0.24565396 Node 22.62334
rms res. 0".82 (M-C) 1961-1992 e 0.1248535 Incl. 8.46626

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(2050) Francis Obs. 40 M 31.73105 Peri. 170.22239
H 12.68 G 0.15 Opp. 6 n 0.27796783 Node 72.69066
rms res. 0".86 (M-C) 1974-1992 e 0.2375756 Incl. 26.57853

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2071) Nadezhda Obs. 39 M 76.77209 Peri. 0.54225
H 13.3 G 0.15 Opp. 8 n 0.29167315 Node 302.54613
rms res. 0".74 (M-C) 1971-1990 e 0.1577147 Incl. 3.63783

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(2272) 1972 FA Obs. 21 M 53.95949 Peri. 278.17055
H 13.94 G 0.15 Opp. 5 n 0.38638217 Node 175.67973
rms res. 0".82 (M-C) 1972-1991 e 0.0900864 Incl. 24.32998

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2644) Victor Jara Obs. 56 M 353.28940 Peri. 309.09592
H 13.8 G 0.15 Opp. 10 n 0.30824751 Node 347.93470
rms res. 0".86 (M-C) 1954-1991 e 0.1649241 Incl. 2.68718

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2664) Everhart Obs. 27 M 251.68619 Peri. 206.49652
H 13.8 G 0.15 Opp. 7 n 0.26847142 Node 168.01079
rms res. 0".90 (M-C) 1934-1992 e 0.1837347 Incl. 3.25814

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2927) Alamosa Obs. 33 M 286.23628 Peri. 188.52030
H 12.1 G 0.15 Opp. 5 n 0.24472738 Node 150.66329
rms res. 0".90 (M-C) 1936-1992 e 0.1681934 Incl. 16.98268

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3491) Fridolin Obs. 33 M 198.22436 Peri. 247.84681
H 12.3 G 0.15 Opp. 5 n 0.21129699 Node 161.67928
rms res. 0".74 (M-C) 1974-1992 e 0.0972037 Incl. 4.00586

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4019) 1981 EK14 Obs. 20 M 177.32071 Peri. 145.24564
H 15.2 G 0.15 Opp. 6 n 0.27581164 Node 262.89473
rms res. 0".61 (M-C) 1954-1990 e 0.1285702 Incl. 2.48034

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4556) 1987 QW10 Obs. 12 M 150.67106 Peri. 212.93399
H 13.2 G 0.15 Opp. 4 n 0.28064437 Node 112.07117
rms res. 0".71 (M-C) 1980-1990 e 0.1451340 Incl. 4.75248

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(4753) Phidias Obs. 53 M 345.71325 Peri. 190.54257
H 12.9 G 0.15 Opp. 5 n 0.24262737 Node 59.86447
rms res. 0".83 (M-C) 1977-1992 e 0.0670466 Incl. 4.31557

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(5209) 1989 CW1 Obs. 34 M 174.87152 Peri. 105.57257
H 10.1 G 0.15 Opp. 4 n 0.08523427 Node 322.74679
rms res. 0".72 (M-C) 1955-1991 e 0.0507195 Incl. 9.09028

(5244)* 1973 SQ1 = 1989 AO2
Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.
Id. S. Nakano (MPC 14343)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	247.38384	(2000.0)	P	Q
n	0.08425433	Peri. 124.59189	+0.92398243	+0.37786704
a	5.1531712	Node 213.31783	-0.37652421	+0.87184849
e	0.0263867	Incl. 6.15906	-0.06697758	+0.31160346
P	11.70	H 9.9	G 0.15	

Residuals in seconds of arc

730929	675	0.3+	0.1+	890111	675	1.3-	0.8-	910419	675	0.2-	0.3-
730929	675	0.2-	0.1+	890130	675	1.1-	0.6+	920424	691	0.7+	0.5+
730930	675	1.0+	1.5-	890130	675	1.5+	0.8-	920424	691	1.8-	2.2+
730930	675	0.8-	0.4-	900126	675	1.3-	1.4-	920507	801	0.6+	1.7-
731004	675	1.7+	1.8-	900126	675	0.6-	0.1-	920507	801	0.5-	1.9-
731004	675	0.5-	0.4-	900128	675	0.4+	0.6+	920603	801	0.1+	2.4-
731005	675	0.6+	1.5-	900220	675	0.0	2.2-	920603	801	0.1+	0.3-
731005	675	0.4-	0.4-	900220	675	0.2-	0.2-				
890109	675	1.3+	1.3+	910414	675	0.3+	0.1-				

(5245)* 1976 GR2 = 1960 FB = 1986 OB

Discovered 1976 Apr. 1 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. E. Bowell (MPC 11341), B. G. Marsden (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	9.57780	(2000.0)	P	Q
n	0.31021348	Peri. 87.13167	-0.59540581	+0.80280741
a	2.1612032	Node 146.26307	-0.75782584	-0.54816081
e	0.1036224	Incl. 3.25133	-0.26681814	-0.23456342
P	3.18	H 13.5	G 0.15	

Residuals in seconds of arc

600323	760	0.7-	0.2-	820131	675	0.1-	0.4+	901124	400	1.3-	0.3+
600323	760	1.9-	1.6-	841220	010	1.2-	1.2+	920430	691	1.3-	0.2+
760401	095	3.3+	1.4+	841228	010	0.3-	0.5-	920430	691	1.1-	0.4+
760404	095	2.4+	3.3+	860731	688	0.6-	1.9+	920430	691	1.4-	0.4+
760502	095	0.4-	0.4-	860731	688	(8.6-	0.5+)	920529	801	1.0+	1.2-
820130	675	0.7+	0.8-	901124	400	1.9+	2.2+	920529	801	0.8+	1.0-

(5246)* 1979 OB

Discovered 1979 July 26 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	319.95275	(2000.0)	P	Q
n	0.29714807	Peri. 140.05775	+0.78032079	+0.62537588
a	2.2240989	Node 181.23831	-0.59586062	+0.74245768
e	0.2831236	Incl. 5.61526	-0.18986728	+0.24012830
P	3.32	H 14.4	G 0.15	

Residuals in seconds of arc

790726	688	0.9-	0.3+	790918	801	0.7-	0.4+	890929	801	0.3+	0.1-
790726	688	0.4-	0.8-	791017	688	(0.8+	2.2-)	910318	688	0.2-	0.4+
790730	688	(0.3+	2.8-)	791022	801	1.1-	0.4-	910318	688	0.1-	0.2+
790730	688	0.3+	0.1-	791119	801	0.7+	1.3-	920429	801	0.0	0.1-
790801	688	0.3-	0.4-	820612	675	0.8+	0.1+	920429	801	0.1+	0.1+
790816	801	(2.2-	1.1+)	820613	675	0.0	0.2-	920506	801	0.0	0.7-
790817	801	1.0+	0.1+	890929	801	0.0	0.1-	920529	801	0.2-	0.5+
790913	801	0.9+	1.1+	890929	801	0.1-	0.5+	920529	801	0.4-	0.2+

(5247)* 1982 UP6 = 1931 JL = 1988 JA

Discovered 1982 Oct. 20 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Id. B. G. Marsden (MPC 13167, unpublished)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M 33.28168	(2000.0)	P	Q	
n 0.27645054	Peri. 35.07910	-0.26334826	+0.92773384	
a 2.3337684	Node 221.52310	-0.95093981	-0.29578818	
e 0.1610952	Incl. 23.51465	-0.16236126	+0.22763846	
P 3.57	H 12.3	G 0.15		

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

310507	690	(0.03+	0.02-)X	880608	688	0.8-	2.3-	891102	403	1.8-	0.4-
310509	690	(67.8+	59.4-)X	880612	801	0.5+	2.2+	891104	403	1.5-	0.4+
821020	095	(0.5+	5.5+)	880716	801	0.7+	0.4+	891104	403	1.2+	2.4+
821025	095	0.1+	2.9-	891008	877	(3.4-	2.6-)Y	891104	095	0.8-	2.3+
821109	095	0.8-	1.3+	891008	877	0.1+	2.0- Y	891104	095	(0.1+	10.3-)
880510	675	1.2-	0.8+	891021	400	1.6+	0.5+	920429	801	0.2+	0.1-
880511	675	0.0	0.4-	891021	400	1.1-	1.2-	920429	801	0.2+	0.3-
880513	675	1.6-	0.3+	891021	400	2.7+	2.5-	920529	801	0.3+	0.0
880520	688	1.0+	0.3+	891023	095	1.7+	0.4+	920529	801	0.1+	0.0
880520	688	2.1+	1.6-	891028	801	0.6-	0.7+	920604	801	0.7-	0.1+
880608	688	0.2-	0.1+	891028	801	0.8-	0.4+	920604	801	0.7-	0.2+

(5248)* 1983 GQ = 1989 CO7 = 1990 OE1 = 1990 QJ11

Discovered 1983 Apr. 6 by H. Debehogne and G. DeSanctis at the European Southern Observatory.

Id. H. E. Holt (MPC 16869), S. Nakano (ibid.; d, MPC 19293)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M 228.43282	(2000.0)	P	Q	
n 0.29790720	Peri. 213.18032	+0.25892451	+0.96587965	
a 2.2203191	Node 71.82653	-0.88484030	+0.23963373	
e 0.1718605	Incl. 0.35477	-0.38731866	+0.09824554	
P 3.31	H 13.8	G 0.15		

Residuals in seconds of arc

830406	809	0.5+	0.7+	830418	809	0.4-	0.5+	900730	372	1.0+	0.9-
830406	809	0.3+	0.8+	830420	809	(3.3-	1.0+)	900730	372	1.4-	1.9+
830406	809	0.2+	1.0+	830420	809	1.8-	0.9+	900731	372	0.4+	1.0+
830409	809	0.1+	0.7+	830422	809	0.3+	1.4-	900731	372	1.9+	1.7+
830409	809	0.8+	0.4+	830422	809	1.4+	1.3-	900815	372	1.9-	0.3-
830409	809	0.9+	0.6+	830507	688	1.6-	1.4-	900815	372	1.1-	2.2+
830411	809	0.2+	0.3-	830507	688	0.9+	2.3-	900818	372	1.9+	0.2+
830411	809	0.2+	0.1-	830515	688	0.1-	1.1-	900818	372	0.3+	0.2-
830411	809	0.3+	0.0	841120	010	0.0	0.1-	900820	372	(3.8-	0.4+)
830412	095	(3.4+	2.7-)	890214	402	(7.9+	1.4-)	900820	372	(3.6-	0.5+)
830415	809	0.9-	0.2+	890214	402	0.0	0.0	900824	046	1.7-	1.4-
830415	809	0.1-	0.3+	900727	675	0.4-	0.1+	900824	046	0.1-	1.7-
830415	809	0.6+	0.3+	900727	675	0.2+	0.0	900914	675	0.9+	1.3-
830418	809	1.4-	0.5+	900730	675	1.1-	0.7-	900914	675	1.8+	1.3-
830418	809	0.9-	0.5+	900730	675	0.4-	0.7+				

(5249)* 1983 HJ = 1965 AZ = 1988 CF1

Discovered 1983 Apr. 18 by N. G. Thomas at the Anderson Mesa Station of the Lowell Observatory.

Id. C. M. Bardwell (MPC 12959)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 244.04410	(2000.0)	P	Q	
n 0.17437550	Peri. 59.50292	-0.99846088	+0.04555679	
a 3.1730658	Node 123.09081	-0.05415157	-0.92398216	
e 0.1383960	Incl. 2.16362	+0.01197856	-0.37971246	
P 5.65	H 12.1	G 0.15		

Residuals in seconds of arc

650110	330	0.3-	0.8-	830418	688	0.0	0.0	830506	688	0.9-	1.5-
830418	688	0.4-	0.5+	830506	688	0.8+	0.4-	830515	688	(3.0-	0.7-)

830515 688 0.9+ 0.3+ 900730 675 0.1+ 0.6+ 910914 675 0.3+ 0.8-
880213 675(10.1- 2.2+) 900914 675 1.1+ 2.0- 910914 675 (1.2- 2.6-)
880214 675 (7.7- 0.2+) 900914 675 0.1- 1.0- 910916 675 0.9+ 0.1-
880215 046 1.6- 0.4- 900915 675 0.5- 0.9- 910916 675 0.2+ 0.3+
880215 046 0.6+ 1.8- 900915 675 0.6- 1.7- 911007 691 0.4- 0.0
880216 046 0.3- 0.6- 900918 675 1.0+ 0.4- 911007 691 0.7- 0.1+
880216 046 0.4- 1.6- 900918 675 (2.8+ 2.7-) 911007 691 1.0- 0.1+
900727 675 0.5- 1.1- 910910 675 1.7+ 0.7+
900727 675 (0.4- 3.1-) 910910 675 0.0 0.1+

(5250)* 1984 QF = 1988 OE
Discovered 1984 Aug. 21 by A. Mrkos at Klet.
Id. C. M. Bardwell (MPC 13465)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 271.68677 (2000.0) P Q
n 0.22495895 Peri. 208.41703 +0.94676199 +0.27551586
a 2.6775271 Node 134.55309 -0.23294751 +0.94333439
e 0.1915955 Incl. 13.51474 -0.22220981 +0.18496281
P 4.38 H 12.9 G 0.15
Residuals in seconds of arc
820130 675 0.4- 1.5- 880613 675 0.7- 2.1- 891226 046 0.8- 0.7-
820131 675 0.1- 0.3- 880717 675 0.5+ 0.2+ 891226 046 (3.7- 1.2+)
840821 046 1.2+ 2.0+ 880718 675 0.5- 0.9- 891229 801 0.6- 0.0
840821 046 0.3+ 0.8- 891030 801 0.1- 0.1+ 891229 801 0.9+ 0.0
840822 046 0.3- 1.0- 891030 801 0.7- 0.0 920429 801 0.0 0.1+
840822 046 0.7- 1.4- 891201 046 (1.4- 2.9-) 920429 801 0.0 0.3-
840823 046 0.7- 0.2- 891201 046 0.7- 1.3- 920506 801 0.3+ 0.6-
840823 046 0.3- 0.3- 891202 801 1.4+ 0.2+ 920506 801 0.3+ 0.0
840828 046 1.2+ 1.1+ 891202 801 (0.8+ 5.2-) 920530 801 0.0 0.2-
840828 046 (3.8+ 3.4+) 891225 046 0.7+ 0.8- 920530 801 0.4- 0.4+
880613 675 0.7- 1.3- 891225 046 1.1+ 1.7-

(5251)* 1985 KA
Discovered 1985 May 18 by A. C. Gilmore and P. M. Kilmartin at the Mount John Observatory.
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 283.39418 (2000.0) P Q
n 0.27169593 Peri. 80.35487 +0.80253055 +0.47926477
a 2.3609165 Node 250.24311 -0.57584986 +0.77799129
e 0.2935217 Incl. 22.18142 +0.15601815 +0.40624478
P 3.63 H 13.6 G 0.15
Residuals in seconds of arc
810425 413 0.4- 2.0- 850530 474 1.1+ 0.5- 890804 657 (0.4- 4.6-)
850518 474 0.5- 0.5- 850616 474 0.1+ 0.9- 890805 657 0.2- 0.5+
850518 474 (2.8- 1.5+) 850616 474 1.2- 2.3+ 890805 657 1.4+ 1.8-
850521 474 (0.3+ 3.3+) 850618 474 0.4- 0.6- 890809 657 0.6- 0.6-
850521 474 1.3+ 2.3+ 850618 474 1.1- 0.5- 890826 657 0.8+ 0.5-
850523 474 0.2+ 0.7- 850814 474 0.1+ 0.9- 920404 474 0.6- 1.0+
850523 474 0.3+ 1.2- 850814 474 0.0 0.7+ 920404 474 0.1- 1.1+
850524 474 0.3+ 1.6- 890703 801 0.4+ 0.2+ 920405 474 0.4+ 0.8-
850524 474 1.6+ 1.5- 890725 657 0.9- 1.6+ 920405 474 0.9+ 0.9-
850525 474 1.8- 1.5+ 890725 657 0.0 1.2- 920502 474 0.3+ 0.5+
850525 474 1.3- 1.7+ 890729 801 0.5- 2.1+ 920502 474 0.5- 0.9+
850530 474 0.9+ 0.0 890731 801 0.1- 0.4-

(5252)* 1985 PZ1 = 1978 TF7 = 1978 TO9
Discovered 1985 Aug. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Id. B. G. Marsden (MPC 14019), T. A. Vinogradova (unpublished)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	350.71310		(2000.0)		P		Q	
n	0.26952929	Peri.	145.86601		+0.34646660		+0.93397986	
a	2.3735520	Node	144.18045		-0.89055456		+0.35677033	
e	0.1467732	Incl.	8.59091		-0.29474306		+0.01991359	
P	3.66	H	13.3	G	0.15			

Residuals in seconds of arc

781002 095	0.4+	1.2-	850911 095	1.1-	0.6-	920507 801	0.9+	0.4-
781008 095	0.8-	2.1+	850919 095	0.1+	0.3+	920530 801	0.5-	2.0+
850813 095	0.5-	1.6+	850920 095	0.9-	0.6-	920530 801	0.3-	0.3+
850815 095	0.6-	0.8+	891028 807	0.2+	0.6-	920604 801	0.1-	1.1-
850817 095	0.9+	0.4+	920430 801	0.3+	0.3-	920604 801	0.4-	0.7-
850819 095	0.3+	1.5-	920430 801	0.3+	0.3+			
850824 095	1.8+	0.6-	920507 801	0.0	0.0			

(5253)* 1985 XB

Discovered 1985 Dec. 15 by S. Singer-Brewster at Palomar.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	96.45403		(2000.0)		P		Q	
n	0.35544128	Peri.	69.08743		-0.66276220		-0.59366794	
a	1.9737439	Node	71.45844		+0.37049449		-0.78962903	
e	0.2248032	Incl.	28.77632		+0.65075348		-0.15506251	
P	2.77	H	13.7	G	0.15			

Residuals in seconds of arc

780504 675	(6.5-	3.8-)	860107 675	0.7+	1.8+	890311 801	0.7+	0.7-
780504 675	1.0-	1.2-	860108 675	1.8-	0.5+	890405 675	1.3-	0.3+
851215 675	0.6+	0.3-	860108 675	1.3-	0.6-	890405 675	1.1-	0.4-
851215 675	(2.8+	0.2+)	860108 675	1.7-	0.6+	890407 675	0.0	1.1-
851217 675	(8.2-	1.3-)	860112 675	0.3+	1.0-	890407 675	1.2-	1.0-
851217 675	(5.4-	1.2-)	860205 675	0.1+	0.3-	890504 675	0.2+	0.1-
851218 675	(6.0+	2.3+)	860304 675	0.3+	0.4+	890504 675	0.5+	0.9-
851218 675	(4.9+	4.1+)	860304 675	0.5+	0.2+	900918 474	0.9+	0.3+
851218 675	1.6+	1.1-	860321 675	0.1-	0.1-	900918 474	0.4+	0.3-
851218 675	1.5+	2.3+	860321 675	0.0	0.1-	920430 801	1.6-	1.8+
851218 675	0.5+	1.4-	860322 675	0.1-	0.0	920430 801	1.1-	0.0
851220 675	0.6+	0.2-	860322 675	0.2-	0.0	920506 801	0.0	0.4+
851220 675	0.4+	0.1-	860430 675	(3.7+	0.5+)	920527 675	2.4+	0.3-
860106 675	0.4-	0.2+	860430 675	(11.4+	3.4-)	920527 675	(3.9+	2.6-)
860106 675	1.0-	0.9-	890304 675	0.6+	0.2-	920530 801	0.7+	0.4+
860106 675	0.2-	0.3-	890304 675	0.8+	1.0+	920530 675	(0.4-	4.1+)
860107 675	1.5-	1.1+	890305 675	0.3-	0.6+	920530 675	0.1+	1.0+
860107 675	0.0	0.1-	890310 801	0.4+	0.5+	920603 801	1.2+	0.9+

(5254)* 1986 VG1 = 1990 FN

Discovered 1986 Nov. 7 by E. W. Elst at Haute Provence.

Id. G. V. Williams (MPC 16873)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	168.72865		(2000.0)		P		Q	
n	0.08208803	Peri.	342.16066		+0.50042545		-0.76905833	
a	5.2434382	Node	76.06834		+0.83587151		+0.30948641	
e	0.1206289	Incl.	24.18596		+0.22559518		+0.55925615	
P	12.01	H	9.1	G	0.15			

Residuals in seconds of arc

861107 511	1.2+	1.3+	861108 511	0.2+	1.4-	900325 675	1.1-	1.7-
861107 511	1.1+	0.8+	861108 511	(2.7-	0.4+)	910211 801	0.8-	1.1+
861107 511	0.1-	0.3-	900321 095	(6.0-	2.2+)	910211 801	0.7-	0.7+
861107 511	0.3-	0.5-	900323 675	0.9+	0.9+	910312 675	0.8-	0.6-
861108 511	0.0	0.0	900323 675	0.9+	0.4+	910312 675	1.0-	0.2+
861108 511	1.6-	0.6-	900325 675	0.1-	1.0+	910321 801	0.3-	1.3+

910321 801 0.2- 1.2+ 910417 675 0.0 1.1- 920430 801 0.7+ 0.4+
910415 675 0.9+ 0.0 910513 675 1.7+ 0.2+ 920430 801 0.7+ 0.3+
910415 675 0.5+ 1.5- 910513 675 0.7- 0.8- 920530 801 0.7- 0.8-
910417 675 0.0 1.3- 910515 675 (1.5- 2.2-) 920530 801 0.7- 0.2-

(5255)* 1988 KF = 1979 HF6 = 1991 AA2
Discovered 1988 May 19 by E. F. Helin at Palomar.
Id. P. Rose (k, MPC 17823), B. G. Marsden (ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	2.71287	(2000.0)	P	Q
n	0.22576766	Peri. 113.20620	-0.81819546	+0.53970506
a	2.6711292	Node 99.99930	-0.57302817	-0.73741049
e	0.0162964	Incl. 11.60919	-0.04684976	-0.40613326
P	4.37	H 12.2	G 0.15	

Residuals in seconds of arc
790428 095 0.9+ 1.9+ 910113 675 0.9+ 0.9+ 920401 801 0.7- 0.8+
880519 675 0.4+ 0.7- 910113 675 0.8- 1.3+ 920528 675 0.1+ 0.3-
880521 675 0.3- 0.1+ 920301 801 0.3- 1.4- 920528 675 0.2+ 1.6-
880615 675 0.3+ 0.8+ 920301 801 1.0+ 0.4+ 920531 675 1.3+ 1.3-
880615 675 0.7- 0.1- 920302 801 1.1- 0.1+ 920531 675 0.6+ 0.1+
910111 675 0.5+ 1.4- 920302 801 0.7- 0.4-
910111 675 0.6- 0.5- 920401 801 0.6- 1.2+

(5256)* 1988 NN = 1955 HK
Discovered 1988 July 11 by E. F. Helin, C. Mikolajczak and R. Coker at Palomar.
Id. C. M. Bardwell (MPC 13471)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	343.42158	(2000.0)	P	Q
n	0.24190666	Peri. 87.29050	+0.58342697	+0.79507215
a	2.5509631	Node 219.95014	-0.80916208	+0.55150007
e	0.2016566	Incl. 14.95913	-0.06978324	+0.25240434
P	4.07	H 12.1	G 0.15	

Residuals in seconds of arc
550427 760 0.7+ 1.2- 880808 675 0.5- 0.4- 920530 801 0.2- 0.5+
550427 760 (1.1- 37.0+) 880808 675 1.2- 0.5- 920620 589 1.4+ 0.1+
550520 760 0.9- 0.2+ 880904 675 0.3+ 0.3- 920620 589 0.2+ 0.1-
550520 760 0.2+ 1.3- 880904 675 0.1- 2.0- 920620 589 0.2+ 0.1-
840829 675 0.2+ 1.0+ 920505 801 0.0 0.1+ 920626 657 0.1+ 1.1+
840829 675 1.0+ 0.1+ 920505 801 0.1- 0.3+ 920626 657 0.0 0.9+
880711 675 0.2+ 0.1+ 920529 801 0.4- 0.1+ 920626 657 0.2+ 0.7+
880714 675(19.9+ 6.7+) 920529 801 0.5- 0.1+
880715 675 0.1- 1.5- 920530 801 0.6- 0.9+

(5257)* 1988 RS10
Discovered 1988 Sept. 14 by S. J. Bus at Cerro Tololo.
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	239.66555	(2000.0)	P	Q
n	0.08273272	Peri. 85.03260	-0.84728356	+0.52963646
a	5.2161634	Node 126.94245	-0.50497287	-0.77994238
e	0.0325523	Incl. 2.86493	-0.16466018	-0.33342931
P	11.91	H 12.4	G 0.15	

Residuals in seconds of arc
820130 675 0.8+ 1.5- 880916 807 0.8+ 0.1- 881008 807 0.1- 0.6-
820131 675 1.3- 0.4- 881004 807 0.2- 0.1+ 881008 807 0.6+ 0.4-
880914 807 0.1- 0.4- 881005 807 0.3- 0.7+ 881103 807 0.4- 0.0
880915 807 0.4+ 0.3+ 881007 807 0.2- 0.3- 881105 807 0.1- 0.5-

891001	807	0.5-	0.5-		891101	807	0.5+	0.2+		911207	691	0.1-	0.1+
891003	807	0.2+	0.0		911113	688	0.1+	0.5+		911207	691	0.2-	0.1-
891029	807	0.0	0.1-		911113	688	0.0	0.7+		911207	691	0.1-	0.0

(5258)* 1989 AU1

Discovered 1989 Jan. 1 by Y. Oshima at the Gekko Observatory.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	103.24655	(2000.0)	P	Q	
n	0.08135673	Peri.	226.62269	-0.42051589	-0.90227478
a	5.2748129	Node	248.46896	+0.85920939	-0.36232448
e	0.0807908	Incl.	5.87518	+0.29141999	-0.23371179
P	12.11	H	10.0	G 0.15	

Residuals in seconds of arc

890101	888	0.0	0.2-		890205	888	0.2+	0.1+		910414	675	1.1-	1.1+
890101	888	0.1-	0.2-		890207	888	0.2-	0.1+		910414	675	0.1+	1.1+
890103	888	0.4-	1.2+		890207	888	0.7-	0.2+		910416	675	0.4-	1.3+
890103	888	(3.5-	0.5+)		890210	888	0.3+	0.5+		920403	675	0.7-	0.2+
890109	675	0.2-	1.2-		890210	888	0.6-	1.0+		920403	675	(2.8-	0.6+)
890111	675	(1.3+ | 2.6-)		890226	888	0.4+	0.2+		920405	675	(2.6- | 0.5-)
890111	675	0.8+	0.2-		890226	888	1.6-	0.7+		920405	675	(3.6-	1.1+)
890127	888	0.3-	0.2-		900126	675	1.1-	0.3-		920424	675	0.7+	0.3+
890127	888	1.4+	0.7+		900126	675	0.6+	0.1+		920426	675	0.7-	1.0-
890129	888	0.1+	0.8-		900128	675	0.3-	0.0		920426	675	(3.2+	0.4+)
890129	888	0.3-	0.2-		900220	675	1.3-	1.2-		920429	675	0.9+	0.6+
890201	675	(0.7+ | 2.2-)		900220	675	0.3-	0.1-		920603	675	(2.8+ | 0.7-)
890201	675	1.3+	0.4-		900326	675	0.3-	0.6-		920605	675	1.1-	0.2-
890203	888	0.1+	0.1+		900326	675	1.3+	0.5-		920605	675	0.5+	0.6-
890203	888	0.1-	0.1+		910312	675	1.5+	1.0-					
890205	888	0.3+	0.1-		910312	675	1.1+	0.3-					

(5259)* 1989 BB1

Discovered 1989 Jan. 30 by C. S. Shoemaker at Palomar.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	325.13521	(2000.0)	P	Q	
n	0.08362937	Peri.	197.36506	-0.10008576	+0.96210818
a	5.1788124	Node	67.50060	-0.87718223	+0.03499342
e	0.0720179	Incl.	15.93409	-0.46961066	-0.27041323
P	11.79	H	10.3	G 0.15	

Residuals in seconds of arc

800319	413	0.1-	0.6+		900220	675	0.1+	0.8+		920405	675	1.0+	0.0
800710	413	0.7+	0.1+		900222	675	1.4-	1.4+		920424	675	(2.8+	1.0-)
890130	675	1.1-	0.5+		910410	413	0.5-	1.2+		920424	675	1.7+	0.5-
890130	675	0.8-	0.2-		910414	675	1.0-	0.7-		920426	675	1.0+	1.0-
890202	675	0.4+	0.5+		910414	675	0.3+	0.3+		920603	675	(2.8-	0.5+)
890308	675	1.2+	1.1-		910416	675	0.5-	0.8-		920603	675	0.3-	0.2+
890308	675	(4.4+	2.1-)		910416	675	0.1+	1.0-		920605	675	1.7-	1.5+
900130	675	1.3+	2.0-		920403	675	0.9-	0.8-		920605	675	1.0-	0.2-
900130	675	1.6+	0.4+		920403	675	0.3+	0.7+					

(5260)* 1989 RH = 1983 EE4

Discovered 1989 Sept. 2 by E. W. Elst at Haute Provence.

Id. S. Nakano (MPC 16235)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	121.60609	(2000.0)	P	Q	
n	0.23503932	Peri.	302.80342	-0.48200378	-0.87600622
a	2.6004132	Node	175.90165	+0.86196483	-0.47755966
e	0.1090979	Incl.	13.67459	+0.15712730	-0.06745277
P	4.19	H	13.1	G 0.15	

Residuals in seconds of arc

830315	095	0.9-	0.2-	890924	809	0.9+	1.8+	910119	801	0.0	1.6-
830318	095	0.7+	1.0-	890924	809	1.3+	1.8+	910210	801	0.1-	0.0
890902	511	0.3+	1.1-	890924	809	1.7+	1.9+	910210	801	0.1-	0.2+
890902	511	0.2+	1.7-	890925	809	1.7-	0.7-	910211	801	0.1+	0.2+
890902	511	1.6+	1.5-	890925	809	1.6-	0.6-	910211	801	0.1+	0.1+
890904	511	1.3+	1.7-	890925	809	1.3-	0.6-	920506	801	0.1-	0.2-
890904	511	0.1+	0.5+	890926	809	1.3-	0.4+	920506	801	0.5-	0.0
890923	809	0.1+	0.7-	890926	809	1.1-	0.4+	920530	801	0.1+	0.5-
890923	809	0.4+	0.7-	890926	809	0.7-	0.3+	920530	801	0.2+	0.9-
890923	809	0.4+	0.7-	910119	801	0.0	1.2-				

(5261)* 1990 MB

Discovered 1990 June 20 by H. E. Holt and D. H. Levy at Palomar.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	317.93007	(2000.0)	P	Q	
n	0.52411973	Peri.	95.39557	+0.88697162	+0.33816411
a	1.5235231	Node	245.16106	-0.41887811	+0.87587629
e	0.0648447	Incl.	20.27875	+0.19448001	+0.34421760
P	1.88	H	16.0	G 0.15	

Residuals in seconds of arc

791121	675	0.5-	0.4-	900714	675	0.6+	0.3+	900827	688	0.2-	0.4+
791121	675	0.5-	1.3+	900719	801	0.6+	0.2+	900827	688	0.0	0.3+
791124	675	0.4+	0.9-	900719	801	0.5+	0.0	900922	688	0.2-	0.6-
791124	675	0.8+	1.7+	900720	801	0.4+	0.3+	900922	688	0.0	1.4-
820126	413	0.1+	0.0	900720	801	0.4+	0.2+	900923	568	2.0-	0.2-
900620	675	0.3-	0.6+	900724	675	0.1-	0.1+	900925	688	0.6+	0.2-
900620	675	0.2-	0.6+	900724	675	0.2-	0.4-	900925	688	0.3-	0.2-
900622	675	0.2-	0.5-	900726	675	0.6+	0.9-	901014	568	0.4+	0.7-
900622	675	0.2+	0.4-	900726	675	0.1-	0.3-	920512	688	0.2-	0.1+
900623	675	0.9-	0.1+	900729	688	0.7+	0.2+	920512	688	0.7+	0.6+
900623	675	0.4-	0.2-	900729	688	0.9+	0.4+	920512	688	0.5+	0.9+
900626	675	0.4-	0.4+	900730	688	1.0+	0.1+	920529	801	0.4+	0.8+
900626	675	1.3-	1.1-	900730	688	1.2+	0.3+	920529	801	0.3-	0.7+
900629	413	(2.4+	0.0)	900816	801	0.0	0.1-	920603	801	0.0	0.4-
900629	413	0.7-	0.7+	900816	801	0.6-	1.3-	920604	801	0.6-	0.3+
900714	675	0.4+	0.3+	900817	801	0.7-	0.0	920604	801	0.3+	0.3-
900714	675	0.5+	0.3+	900817	801	0.7-	0.4+				
900714	675	0.4+	0.2+	900822	568	(0.3-	4.8+)				

(5262)* 1990 XB1 = 1926 BA = 1941 YA = 1943 GO = 1964 BC = 1973 YD
= 1976 MF = 1978 TJ8 = 1978 VK14 = 1980 BR3 = 1986 CH1

Discovered 1990 Dec. 14 by E. F. Helin at Palomar.

Id. T. Urata (MPC 17649)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Urata

M	51.12403	(2000.0)	P	Q	
n	0.18233796	Peri.	88.28871	-0.96142093	+0.01110877
a	3.0800043	Node	92.28183	-0.11709718	-0.92066209
e	0.1714228	Incl.	15.96649	+0.24891374	-0.39020240
P	5.41	H	10.6	G 0.15	

Residuals in seconds of arc

260116	094	(47.7-	14.6+)X	760620	095	(8.1+	6.3+)	901217	675	1.2+	0.6-
411223	062	0.6-	1.9+	781008	095	1.2+	2.1+	901217	675	0.6+	1.4-
411225	062	0.4+	2.2+	781101	095	0.4+	2.0-	910106	885	2.4-	0.0
430408	062	1.4-	0.4+	800122	095	1.0-	1.1-	910106	885	(3.5-	0.2-)
430408	062	0.7+	0.4-	860210	675	(7.0-	2.7+)	910108	877	0.6-	0.9+
430409	062	(5.8+	0.9-)	860210	675	(14.7-	3.3+)	910108	877	0.9-	1.5+
640118	012	0.9+	0.1-	901214	675	1.9+	0.6-	910109	877	0.5-	0.9+
731219	095	2.1-	0.1-	901214	675	1.5+	1.2-	910109	877	1.5-	0.5+

910113 675 0.0 0.2- 920522 894 0.9- 0.8+ 920604 596 (1.5+ 4.2-)
910113 675 0.2+ 1.3- 920522 894 0.1+ 0.9+ 920604 596 (0.1+ 3.2-)
910115 675 0.9+ 0.2+ 920524 894 1.4- 0.2- 920605 410 1.9+ 1.8+
910115 675 0.1+ 0.3- 920524 894 0.7- 0.8+ 920605 410 1.2+ 1.0+
910118 591 (0.8+ 3.5+) 920527 675 1.1- 0.6+ 920605 410 (2.8+ 1.0-)
910118 591 (1.8+ 3.2+) 920527 675 0.3- 0.2+ 920605 596 (1.2+ 3.9-)
920501 675 0.8+ 2.0- 920529 801 0.3- 0.5+ 920605 596 (0.9+ 2.8-)
920501 675 0.6+ 2.3- 920529 801 0.9- 0.6+ 920605 596 1.4+ 2.5-
920503 675 1.2+ 0.9- 920530 675 0.7- 2.0+
920503 675 0.9+ 2.0- 920530 675 0.5- 2.3+

(5263)* 1991 GY9 = 1980 JS = 1986 LQ = 1988 UQ
Discovered 1991 Apr. 13 by D. Steel at Siding Spring Observatory.
Id. G. V. Williams (MPC 18637)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 105.35892 (2000.0) P Q
n 0.17280247 Peri. 288.93865 -0.88821829 -0.42034919
a 3.1922931 Node 226.69589 +0.45472754 -0.86191618
e 0.0317152 Incl. 14.76015 -0.06550676 -0.28356138
P 5.70 H 11.5 G 0.15
Residuals in seconds of arc
800510 095 (3.1- 15.0+) 881016 400 0.2- 0.8- 910513 413 (0.5+ 2.4+)
800606 413 1.3- 0.4- 881016 400 1.3- 1.6+ 920429 801 0.3- 0.9-
810423 413 0.3+ 0.7- 881101 400 (2.6+ 2.1+) 920429 801 0.0 0.2-
850515 413 1.9+ 0.5+ 881101 400 (1.3+ 5.8+) 920506 801 (1.8+ 2.5-)
860601 010 1.6- 0.0 881101 400 (2.6- 6.9+) 920506 801 0.1+ 0.3-
860601 010 0.6+ 0.4- 910210 413 1.1+ 0.6+ 920530 801 0.5- 0.3+
870819 413 1.8+ 1.0+ 910413 413 0.1+ 0.8+ 920530 801 0.3- 0.0
870819 413 1.1+ 1.6+ 910413 413 0.5+ 0.2+ 920603 801 0.3- 0.6+
881016 400 0.8- 0.2+ 910507 413 0.0 0.1+ 920603 801 0.5- 1.0+

(5264)* 1991 KC = 1965 AO
Discovered 1991 May 17 by C. S. Shoemaker at Palomar.
Id. C. S. Shoemaker (1992 obs.), G. V. Williams, C. M. Bardwell
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 106.24843 (2000.0) P Q
n 0.08322995 Peri. 358.44653 -0.50920016 -0.72110556
a 5.1953677 Node 121.90835 +0.79547730 -0.60270830
e 0.1124962 Incl. 33.60319 +0.32852862 +0.34168622
P 11.84 H 9.5 G 0.15
Residuals in seconds of arc
650101 330 0.7- 1.5+ 910518 675 0.2+ 0.2- 910716 801 0.1- 1.6+
890110 675 0.4- 0.6+ 910519 675 0.5- 1.7- 910716 801 0.1+ 1.4+
890110 675 0.3+ 1.3- 910606 675 0.4+ 0.4- 920426 675 0.7- 0.5-
890114 675 0.2+ 1.0- 910606 675 0.3+ 0.2- 920427 675 0.1+ 1.1-
890114 675 0.4+ 0.4- 910608 675 0.0 0.2+ 920427 675 1.4+ 0.2+
900126 675 0.9+ 1.0+ 910611 675 0.5+ 0.3- 920603 675 1.0- 1.4-
900126 675 0.3+ 1.8- 910710 801 0.1- 0.6+ 920603 675 (0.5- 2.5-)
900128 675 (2.1+ 0.6+) 910710 801 0.1- 1.1+ 920605 675 0.6- 0.8-
900128 675 0.4- 0.2- 910712 801 0.2+ 1.3+ 920605 675 (0.3- 2.3-)
910517 675 1.0- 0.8+ 910712 801 0.1- 1.3+

(5265)* 2570 P-L = 3319 T-3
Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.
Id. S. Nakano (MPC 12698), K. Hurukawa (unpublished)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 356.51578 (2000.0) P Q
n 0.17479591 Peri. 57.50179 -0.58454566 +0.81134028
a 3.1679759 Node 176.70997 -0.77407638 -0.55553775
e 0.1150398 Incl. 5.77343 -0.24312987 -0.18194715
P 5.64 H 13.2 G 0.15
Residuals in seconds of arc

600924	675	0.0	1.7+	771016	675	0.8-	0.6-	881005	807	0.4+	0.0
600928	675	0.0	1.3+	771016	675	0.3+	0.3+	881008	807	0.8+	0.0
600929	675	0.0	1.1+	771016	675	0.4+	0.4-	881104	807	0.9-	0.5+
601017	675	1.0-	0.3-	771016	675	0.0	0.0	881105	807	0.5+	0.2-
601022	675	1.2-	0.7+	771017	675	0.6-	0.1+	881106	807	0.6-	0.1+
601025	675	0.4+	0.6+	771017	675	0.3+	1.9-	881107	807	0.2+	0.2-
601026	675	0.2-	1.5+	771021	675	0.8+	0.4+	920428	691	0.3-	0.6-
771007	675	0.8-	0.5-	771021	675	0.9-	0.1+	920428	691	0.7-	1.2+
771011	675	0.5-	0.4+	771022	675	2.3+	1.8-	920428	691	0.3+	0.0
771011	675	1.6-	1.7+	771022	675	1.3+	2.1-	920530	801	0.0	1.5-
771012	675	0.5+	1.0-	880915	675	0.5+	0.8-	920530	801	0.4+	0.7-
771012	675	1.2+	1.6-	880915	675	0.5-	0.3-				

(5266)* 4047 T-2 = 1980 GQ1
Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.
Id. H. Kaneda (MPC 18303)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 314.92910 (2000.0) P Q
n 0.22005109 Peri. 118.21978 -0.63810462 -0.76790614
a 2.7171923 Node 11.94023 +0.57662291 -0.52486298
e 0.1292848 Incl. 15.72141 +0.51022398 -0.36720431
P 4.48 H 13.5 G 0.15
Residuals in seconds of arc

710416	675	0.0	1.2-	730930	675	0.3+	0.4-	731005	675	1.3+	0.0
710416	675	0.2-	1.4-	730930	675	0.1-	1.8+	731005	675	(3.0+	1.0+)
710514	675	0.3+	0.7+	730930	675	0.9+	0.1+	731005	675	0.4-	0.1+
710514	675	1.4-	1.1+	730930	675	0.3+	0.8-	800408	675	1.2+	1.3+
730919	675	0.4+	1.7-	730930	675	0.2+	1.8+	800409	675	0.8+	0.9+
730919	675	0.9-	1.3-	730930	675	1.8+	0.3+	910909	691	0.7-	1.2+
730920	675	0.2-	1.2-	731004	675	0.2+	0.3-	910909	691	0.9-	1.0+
730924	675	0.2-	2.0+	731004	675	1.0-	0.0	910909	691	0.9-	1.3+
730924	675	0.7-	0.0	731004	675	0.3+	0.3-	911008	691	0.2-	0.6+
730925	675	0.6+	0.6-	731004	675	1.0-	0.6+	911008	691	0.4-	0.1+
730925	675	0.2-	0.2-	731005	675	0.4+	1.1-	911008	691	0.5-	0.3+
730929	675	1.4+	1.8-	731005	675	(2.8+	2.6+)				
730929	675	(2.6+	2.8+)	731005	675	0.9-	0.2-				

1976 DJ1 = 1981 UO21
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 318.87552 (2000.0) P Q
n 0.12343052 Peri. 96.96878 -0.84998900 +0.51817823
a 3.9950390 Node 114.28164 -0.51505068 -0.77958605
e 0.1376105 Incl. 5.97723 -0.11064131 -0.35176257
P 7.99 H 11.9 G 0.15
Residuals in seconds of arc

760227	033	0.1-	0.1-	760303	033	1.7-	1.0+	811025	675	0.2+	0.4+
760301	033	0.4+	0.2+	760303	033	1.5+	1.2-	811026	675	0.2-	0.1-
760302	033	0.1-	0.1+	811024	675	0.0	0.3-				

1978 SB3 = 1974 QH2 = 1982 VC13 = 1986 VS5
Id. C. M. Bardwell (MPC 15700)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	188.37008	(2000.0)	P	Q	
n	0.25371615	Peri. 38.87253	+0.98717642	-0.15539657	
a	2.4711777	Node 330.00691	+0.12204142	+0.88220005	
e	0.2120947	Incl. 4.19093	+0.10290098	+0.44449407	
P	3.88	H 13.5	G 0.15		

Residuals in seconds of arc

551023	675	0.0	0.7-	821106	808	0.7-	0.5-	901115	801	0.0	0.1+
551023	675	0.1-	0.8+	821106	808	0.5+	0.1+	901218	801	0.3-	0.1-
740826	095	0.8+	0.8-	821109	808	(4.1-	2.8-)	901218	801	0.2-	0.0
780926	095	1.0-	0.8+	821109	808	0.2+	0.0	901220	801	0.2+	0.2+
781002	095	0.0	0.1+	861105	688	0.7+	0.1+	901220	801	0.3+	0.2+
781005	095	0.1-	0.0	861105	688	0.6+	0.8-				
781008	095	0.3-	0.3+	901115	801	0.6-	0.2-				

1978 SN7 = 1989 WS1
Id. S. Nakano (MPC 15700)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	173.90765	(2000.0)	P	Q	
n	0.18765736	Peri. 209.62554	+0.34191486	-0.93307372	
a	3.0215212	Node 220.67105	+0.89236674	+0.35962805	
e	0.0934053	Incl. 9.86518	+0.29457736	-0.00641033	
P	5.25	H 12.0	G 0.15		

Residuals in seconds of arc

780926	095	0.7-	0.8+	891125	399	1.2+	0.9+	891202	033	1.7-	0.3-
781002	095	0.9+	0.7-	891128	033	(2.8-	0.2+)	891203	033	(2.8+	0.2+)
781008	095	0.1-	0.3-	891129	033	1.9+	0.1-	891203	033	0.8+	0.6-
781101	095	(4.1+	7.3+)	891201	399	0.5-	1.1-	910120	413	0.0	0.1-
891125	399	0.5-	1.6+	891201	399	1.1-	0.9-				
891125	399	2.1-	0.1-	891201	399	2.1+	0.8+				

1978 VV9 = 1991 BE2
Id. B. G. Marsden (MPC 17815)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	15.34217	(2000.0)	P	Q	
n	0.17767518	Peri. 314.94309	-0.70249545	+0.71030966	
a	3.1336576	Node 270.37344	-0.63986176	-0.65760927	
e	0.1068367	Incl. 2.53768	-0.31157194	-0.25101839	
P	5.55	H 12.5	G 0.15		

Residuals in seconds of arc

781105	675	0.0	0.1+	781130	675	0.6+	0.3-	920530	675	1.0+	0.0
781106	675	0.0	0.0	880915	675	0.9+	2.2-	920530	675	0.5-	0.0
781107	675	0.3-	0.5+	910121	511	0.1+	0.0	920602	675	1.2-	0.9-
781108	675	0.5-	0.3-	910121	511	0.4+	0.5-	920602	675	0.5+	0.2-
781129	675	0.2+	0.5+	910123	511	1.3-	1.5-				

1979 SR = 1975 XF4 = 1992 LH
Id. E. Bowell (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	289.49183	(2000.0)	P	Q	
n	0.21366662	Peri. 129.20483	+0.90847958	+0.41255365	
a	2.7710536	Node 206.62877	-0.41445411	+0.86876335	
e	0.1684199	Incl. 8.57320	-0.05378326	+0.27395206	
P	4.61	H 12.5	G 0.15		

Residuals in seconds of arc

510807	675	(3.3-	1.6+)	550522	675	0.6+	0.7+	790925	046	0.5+	0.2-
510807	675	0.7-	2.3+	550522	675	0.6-	1.9+	790926	046	0.4-	1.3-
510922	675	0.0	1.4+	751203	095	0.1+	3.1+	790926	046	0.8+	1.3-
510922	675	0.0	0.7+	790925	046	0.8-	0.7-	790927	046	(2.4-	3.9-)

790927 046 (2.7- 2.3-) 791019 046 0.2+ 0.4- 920605 675 1.1- 0.1+
791015 046 0.5- 0.6+ 920603 675 1.0+ 0.6- 920606 675 0.9+ 0.1-
791015 046 0.2- 0.3+ 920603 675 (0.6+ 2.1-) 920606 675 0.0 0.5-
791019 046 1.2+ 0.3- 920605 675 0.8- 1.4-

1981 EL4 = 1991 DP1
Id. B. A. Skiff (1988 obs.), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 46.10718 (2000.0) P Q
n 0.19050042 Peri. 250.57780 -0.93711444 +0.32904338
a 2.9913835 Node 308.45752 -0.23750099 -0.84554421
e 0.0182919 Incl. 8.54783 -0.25575340 -0.42045860
P 5.17 H 12.5 G 0.15
Residuals in seconds of arc
810202 413 0.9+ 0.8- 810310 413 1.1+ 0.7+ 810409 413 0.4- 0.3+
810214 413 0.4+ 0.5- 810312 413 0.6- 1.3+ 810409 413 0.9+ 0.2+
810302 413 0.6- 0.1- 810312 413 (2.9+ 0.4+) 810429 413 0.1- 1.8-
810302 413 1.2+ 0.5- 810407 413 1.3- 0.0 880912 675 0.1- 0.1-
810307 413 0.6- 1.0+ 810407 413 0.0 1.0- 880912 675 0.2+ 0.0
810307 413 1.2+ 0.8+ 810408 413 1.5- 0.2- 910217 046 0.4- 0.8-
810310 413 0.4- 1.6+ 810408 413 0.0 0.6- 910217 046 (1.1+ 5.7+)

1981 EA5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 275.86969 (2000.0) P Q
n 0.21742065 Peri. 166.45907 +0.44057445 -0.88555311
a 2.7390641 Node 257.23314 +0.80893511 +0.46275915
e 0.1583837 Incl. 8.68535 +0.38925331 +0.04061608
P 4.53 H 14.9 G 0.15
Residuals in seconds of arc
791126 675 0.2+ 0.3+ 810302 413 (4.4+ 0.3-) 810409 413 1.5+ 1.4-
791127 675 0.2- 0.7- 810307 413 1.5- 1.2+ 810502 413 0.1- 1.1-
810202 413 (3.3- 3.5+) 810307 413 1.2+ 0.4+ 810503 413 0.6+ 0.7-
810209 413 0.5- 0.3+ 810310 413 0.7- 1.5+ 881008 675 0.6- 0.1-
810209 413 1.2- 0.8- 810310 413 (6.3+ 1.2-) 881008 675 0.6+ 0.3+
810302 413 0.7+ 0.2+ 810409 413 (2.2- 1.3+)

1981 EX13
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 307.61424 (2000.0) P Q
n 0.19260607 Peri. 105.12836 +0.71073254 +0.69833210
a 2.9695415 Node 210.72617 -0.69218350 +0.67273646
e 0.0949403 Incl. 9.55392 -0.12546421 +0.24445434
P 5.12 H 12.5 G 0.15
Residuals in seconds of arc
781026 675 0.1- 0.5+ 810308 413 0.7- 0.7+ 810409 413 0.3- 0.9-
781027 675 0.2+ 0.9- 810308 413 0.7+ 0.1- 810409 413 0.9+ 1.1-
810209 413 0.0 0.6+ 810312 413 0.7- 1.4+ 810501 413 0.2+ 1.7-
810212 413 0.3+ 0.5- 810312 413 1.5+ 0.8- 810503 413 (1.6+ 3.4-)
810301 413 0.7- 0.2+ 810406 413 0.7- 1.5+ 870624 801 0.1+ 0.3+
810301 413 0.2+ 0.3- 810406 413 (2.2- 2.4+) 920623 413 0.9- 0.3-
810306 413 0.7- 1.4+ 810408 413 0.6- 0.2+ 920623 413 0.8+ 0.1+
810306 413 0.6+ 0.9- 810408 413 (3.2+ 2.9-)

1981 TJ = 1986 WH9
Id. T. Kobayashi (MPC 13598)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 119.31262	(2000.0)	P	Q
n 0.21110167	Peri. 124.77168	+0.99636591	+0.06115540
a 2.7934545	Node 231.79551	-0.07826076	+0.93202913
e 0.1073625	Incl. 4.32694	+0.03361878	+0.35718583
P 4.67	H 13.0	G 0.15	

Residuals in seconds of arc

810922 046 0.2- 0.5+	811006 046 (3.7+ 0.4-)	861201 381 (7.1+ 6.3+)
810922 046 1.6- 0.4+	811007 046 (3.1+ 3.1+)	861201 381 0.3- 1.5+
810925 046 0.1+ 0.9-	811007 046 0.9- 2.3+	900916 675 0.1- 0.1-
810925 046 1.3+ 0.9-	861130 381 (4.5- 3.8+)	900916 675 0.0 0.3+
811006 046 1.3+ 1.5-	861130 381 0.3+ 1.4-	

1981 UM22 = 1981 WY2 = 1981 WD6 = 1975 TD4 = 1975 VN10 = 1977 BP = 1986 RM7 = 1986 TO18 = 1990 KV2 = 1991 PF8

Id. G. V. Williams, T. Furuta (d, JAM 1946)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 204.27172	(2000.0)	P	Q
n 0.17408694	Peri. 9.27157	-0.95756465	-0.28686811
a 3.1765711	Node 154.00552	+0.26019331	-0.90199448
e 0.0507697	Incl. 3.64557	+0.12397329	-0.32266491
P 5.66	H 11.5	G 0.15	

Residuals in seconds of arc

751013 095 1.1+ 0.9-	811124 033 0.2- 0.5+	910805 809 1.2- 0.5+
751106 095 1.2- 0.7-	811124 033 0.3- 0.1-	910805 675 1.4+ 0.2-
770120 095 1.1+ 0.0	860906 095 (4.1+ 2.0+)	910805 809 1.5- 1.7+
811024 675 0.4+ 0.2-	861002 095 0.3- 0.6-	910805 675 0.9+ 0.4-
811025 675 0.3+ 0.2-	900517 095 0.9- 0.9-	910807 675 2.1+ 0.3-
811026 675 0.6- 0.8-	900517 095 0.6- 1.2-	910807 675 0.5+ 0.1-
811124 095 (3.8- 1.3-)	910805 809 0.9- 0.7+	

1981 UB23 = 1981 WO3 = 1963 UL = 1990 VG2

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 143.84360	(2000.0)	P	Q
n 0.22026266	Peri. 265.13037	+0.81940701	-0.57167965
a 2.7154520	Node 129.73030	+0.54513645	+0.75460002
e 0.1895002	Incl. 3.12218	+0.17719598	+0.32211982
P 4.47	H 13.0	G 0.15	

Residuals in seconds of arc

631018 760 1.1- 0.3+	811026 675 0.2- 0.4-	901113 400 0.7+ 0.1-
631022 760 0.4+ 1.2+	811124 095 1.0- 0.2-	901113 400 1.0- 0.5+
811024 675 0.2+ 0.2-	811124 033 0.4+ 0.1+	901211 400 0.3+ 0.5+
811024 675 0.5+ 0.6-	811124 033 0.3+ 0.1+	901211 400 0.6- 0.3+
811025 675 0.3+ 0.5-	901111 400 (3.1- 6.0-)	
811025 675 0.6+ 0.8-	901111 400 (0.9- 5.8-)	

1982 FF3 = 1987 WV3 = 1990 RW1

Id. E. Bowell (MPC 17629), B. G. Marsden (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M 139.77877	(2000.0)	P	Q
n 0.29911607	Peri. 151.05603	+0.37578808	-0.92626823
a 2.2143327	Node 276.85873	+0.84462050	+0.35498078
e 0.1206961	Incl. 1.64314	+0.38131289	+0.12655358
P 3.30	H 13.3	G 0.15	

Residuals in seconds of arc

820321 809 0.9- 1.5-	820324 809 0.2- 1.0-	820326 809 0.4+ 0.3-
820321 809 0.6- 1.5-	820324 809 0.1- 0.5-	820327 809 2.7- 0.6+
820321 809 0.4- 1.5-	820326 809 0.0 0.5+	820327 809 2.2- 0.9+
820324 809 0.2- 1.4-	820326 809 0.2+ 0.2+	820327 809 1.8- 1.2+

820328 809 1.0+ 0.2- 820331 809 0.6- 0.2- 900915 095 (1.2+ 5.0+)
820328 809 1.1+ 0.3- 820401 809 0.3- 0.4- 900915 095 (2.0+ 3.5-)
820328 809 1.5+ 0.3- 820401 809 0.5- 0.5- 900917 675 0.6+ 2.2-
820330 809 1.5+ 0.2+ 820401 809 0.3- 0.5- 900917 675 1.0+ 2.8-
820330 809 1.9+ 0.8+ 871124 688 0.5+ 0.4+ 900923 095 0.8+ 0.9-
820330 809 2.8+ 0.5+ 871124 688 0.3- 0.6- 901011 095 1.3- 0.3+
820331 809 0.4- 0.1- 900826 095 (3.4+ 1.6+) 901015 095 2.4- 0.4+
820331 809 0.3- 0.1- 900827 095 0.2- 0.3+ 901015 095 0.9- 2.6+
820331 809 0.1- 0.5- 900830 095 2.6+ 0.2+ 920323 399 0.2- 1.1+
820331 809 0.7- 0.1- 900831 095 1.0+ 1.4+ 920324 399 1.2+ 0.1+
820331 809 0.6- 0.2+ 900915 675 0.4+ 2.6- 920324 399 0.2- 0.7+

1985 RL1 = 1970 SP
Id. S. Nakano (MPC 13159)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 298.15724 (2000.0) P Q
n 0.26111834 Peri. 122.36205 +0.90637499 +0.41187166
a 2.4242522 Node 213.58627 -0.42165593 +0.86806842
e 0.1661908 Incl. 9.78900 -0.02628053 +0.27716233
P 3.77 H 13.5 G 0.15
Residuals in seconds of arc
700927 095 0.4+ 0.1- 850919 046 0.4+ 1.2- 891026 403 1.9- 0.5-
701001 095 0.2- 1.1- 890925 801 0.3+ 0.7+ 891026 046 1.9+ 0.5+
850909 046 1.2- 1.8+ 890928 801 (4.8+ 0.5+) 891026 046 0.2- 0.5-
850909 046 0.8- 1.9+ 891002 809 1.2- 0.1+ 891027 046 0.4+ 0.8-
850910 046 (3.0- 0.2-) 891002 809 0.7- 0.1- 891027 046 0.3+ 1.1-
850910 046 (3.0- 0.9-) 891002 809 0.5- 0.3- 891028 801 0.4+ 0.9+
850911 046 0.8+ 1.2+ 891003 809 0.5- 0.8- 891028 801 (2.4- 1.0+)
850911 046 1.4+ 0.2+ 891003 809 0.0 0.8- 920603 801 0.2+ 0.8-
850913 046 0.5- 0.1- 891003 809 0.7+ 0.8- 920603 801 0.2+ 0.8-
850913 046 0.5- 0.2+ 891025 046 1.5+ 0.2- 920623 413 0.7- 1.4-
850919 046 (2.2+ 0.5+) 891025 046 0.1- 1.0- 920623 413 0.1+ 1.1-

1986 RA
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 341.63616 (2000.0) P Q
n 0.16082000 Peri. 161.15737 +0.93462605 +0.35543328
a 3.3489552 Node 177.90718 -0.35352268 +0.93219871
e 0.6315662 Incl. 18.99807 -0.03867631 +0.06835749
P 6.13 H 15.5 G 0.15
Residuals in seconds of arc
860811 675 (6.9- 0.4-) 860909 474 0.5+ 0.9+ 860927 691 1.2+ 0.2-
860811 675 (9.4- 2.5+) 860911 688 0.9+ 0.1+ 860927 691 1.2+ 0.0
860902 675 0.2- 0.0 860911 688 1.9- 1.2+ 860929 046 0.1- 0.6-
860902 675 0.4- 0.7+ 860911 323 1.3+ 1.0+ 860929 046 0.3- 1.2-
860902 010 (2.1+ 0.1-) 860922 323 0.2+ 0.3- 860930 323 0.0 0.7-
860902 010 1.6+ 1.7+ 860923 046 1.6- 0.2+ 860930 323 0.0 0.7-
860902 010 (5.6+ 0.5+) 860923 046 0.8- 0.9- 860930 046 0.6+ 0.1+
860902 010 (2.3+ 3.0+) 860924 372 0.0 0.3+ 860930 046 1.0- 1.3+
860903 010 (3.0+ 2.5-) 860924 372 (2.0- 3.7+) 860930 010 (4.9- 1.9-)
860903 010 (0.3- 2.5+) 860925 691 (4.7- 0.6-) 860930 010 (5.8- 2.4+)
860903 010 (4.6+ 3.1-) 860925 691 0.1+ 0.4- 860930 010 0.3- 1.8-
860903 010 0.6+ 1.3+ 860925 691 0.2+ 0.3- 860930 010 0.2+ 0.5+
860905 688 0.2- 0.6- 860925 046 0.3- 1.5- 861001 323 (4.3+ 3.5+)
860905 688 0.1- 0.1+ 860925 046 0.1+ 1.0- 861001 046 0.7+ 1.4+
860905 688 0.9+ 1.4- 860926 323 1.7- 0.6- 861001 046 0.0 0.7+
860906 657 0.9- 1.1- 860926 046 0.3- 1.0- 861002 657 (1.8+ 2.8-)
860908 323 (3.9+ 1.4+) 860926 046 2.0- 0.3+ 861002 046 0.2- 1.5+
860909 474 0.8+ 0.9+ 860927 691 1.2+ 0.3- 861002 046 0.4- 0.1-

861003	323	0.7+	0.2+	861028	474	1.0-	0.4+	861231	688	0.3-	0.7+
861003	046	1.1+	0.8+	861028	474	(0.9-	3.8+)	861231	688	0.5-	0.7+
861003	046	0.4+	0.6+	861028	323	(4.4+	0.7+)	870125	691	0.3+	1.0-
861004	688	1.3+	0.8+	861029	801	(3.0+	0.5+)	870125	691	0.6+	0.6-
861004	688	(0.0	4.0+)	861030	691	0.2+	0.6-	870125	691	0.5+	0.9-
861004	046	0.6-	0.5-	861030	691	0.2+	0.4-	870129	691	0.9-	1.0+
861004	046	0.4-	0.4+	861031	323	(4.2-	2.1-)	870129	691	0.9-	1.2+
861006	801	0.6-	0.0	861106	323	(5.8-	0.8-)	870201	688	0.4-	1.9+
861007	323	0.6+	0.0	861107	323	0.5-	0.2+	870201	688	(0.1-	2.3+)
861008	695	(2.0+	5.1-)	861130	691	0.4-	0.2+	870301	691	0.2+	0.1+
861008	695	1.5-	2.0-	861130	691	0.1-	0.0	870301	691	0.6-	0.3-
861008	695	(5.5+	2.5-)	861204	691	0.3-	0.2-	870301	691	0.1+	0.5+
861008	695	(0.2-	5.2+)	861204	691	0.1-	0.4-	920504	658	0.7-	0.2-
861008	323	1.4-	0.1-	861204	691	0.0	0.3+	920504	658	0.0	0.8-
861009	323	(2.8-	2.7-)	861205	801	0.6-	0.1-	920504	658	0.3-	0.0
861010	323	(3.2-	2.9+)	861230	691	1.3+	0.5+	920619	413	0.4+	0.3+
861026	707	0.8-	0.6-	861230	691	1.4+	0.7+	920619	413	0.3+	0.2+
861027	323	1.6+	0.7+	861230	691	1.5+	0.7+				

1986 WC1 = 1991 RE28

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams
M 14.82146		(2000.0)	P	Q
n 0.17380951	Peri.	338.37288	+0.80736376	-0.58877260
a 3.1799505	Node	57.75597	+0.54787792	+0.72357100
e 0.1718321	Incl.	2.63383	+0.21907428	+0.36026633
P 5.67	H	14.0	G 0.15	

Residuals in seconds of arc

861125	046	0.4+	0.8+	861128	046	(2.0-	4.0+)	910910	691	0.1-	0.1-
861125	046	1.4-	0.1+	910908	691	0.4+	0.3-	910910	691	0.0	0.0
861126	046	0.8+	0.2-	910908	691	0.4+	0.5-	910912	691	0.5-	0.4+
861126	046	0.5-	1.1-	910908	691	0.2+	0.4-	910912	691	0.3-	0.4+
861128	046	0.7+	0.4+	910910	691	0.2+	0.0	910912	691	0.4-	0.7+

1987 QT1 = 1990 EY4 = 1990 EE8

Id. S. Nakano (MPC 16428), G. V. Williams (d)

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams
M 165.69463		(2000.0)	P	Q
n 0.28142899	Peri.	298.41672	-0.00713912	+0.99890739
a 2.3061638	Node	331.06290	-0.88082546	-0.02814628
e 0.2246494	Incl.	5.47741	-0.47338731	+0.03730695
P 3.50	H	14.0	G 0.15	

Residuals in seconds of arc

870818	809	2.2-	0.0	870824	809	1.7+	1.4-	900306	809	0.4-	0.2+
870818	809	0.3-	0.7-	900302	809	2.5+	0.7-	900306	809	0.0	0.0
870819	809	0.5-	1.4+	900302	809	1.3+	0.9-	900415	809	1.5+	0.8+
870819	809	0.5-	1.4+	900302	809	0.7+	0.8-	900416	809	0.1-	0.7+
870819	809	0.0	0.8+	900304	809	0.4-	1.9-	900416	809	1.1-	0.5+
870821	809	1.1+	0.9-	900304	809	0.5-	1.3-	900416	809	1.0+	0.2+
870821	809	1.7+	0.8-	900304	809	0.6-	2.0-	900417	809	0.1+	0.6+
870821	809	2.2+	0.1-	900304	809	1.5-	0.3-	900417	809	1.5-	0.1-
870822	809	1.2-	1.2-	900304	809	1.5-	0.2-	910915	675	0.3-	2.3-
870822	809	0.9-	0.9-	900304	809	1.4-	0.1-	910915	675	1.6+	1.4-
870824	809	0.1-	0.8-	900306	809	0.7-	0.4+				

1987 RT5 = 1981 UQ23 = 1981 WN3

Id. S. J. Bus, G. V. Williams (d)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 222.61517		(2000.0)	P	Q
n 0.31666809	Peri.	194.69520	+0.69743941	+0.71519193
a 2.1317348	Node	119.55098	-0.65210595	+0.65973098
e 0.1834065	Incl.	3.00433	-0.29721392	+0.23077163
P 3.11	H	15.0	G 0.15	

Residuals in seconds of arc

811024 675	0.4-	0.3-	811124 033	0.3-	0.3+	870927 095	0.1+	0.1+
811025 675	0.7+	0.1-	870904 095	0.1+	0.3-			
811124 033	0.0	0.0	870924 095	0.3-	0.3+			

1987 VB1 = 1987 WE4 = 1954 UQ = 1991 RJ26
Id. F. N. Bowman (d, MPC 13145), E. Bowell (MPC 20332, unpublished), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M 55.21334		(2000.0)	P	Q
n 0.23984721	Peri.	14.43553	+0.84209952	-0.53843779
a 2.5655448	Node	18.24238	+0.48452418	+0.73015605
e 0.2677089	Incl.	5.65997	+0.23686436	+0.42066244
P 4.11	H	14.2	G 0.15	

Residuals in seconds of arc

541022 760	0.7-	2.2+	871115 046	(0.5-	3.6-)	871125 046	(3.3+	1.8-)
541022 760	0.5+	1.4+	871115 046	1.4+	1.2-	910911 675	1.2+	0.5-
541123 675	(3.4-	2.5-)	871123 046	(4.7+	2.4-)	910911 675	0.0	0.1-
541123 675	1.7-	0.6-	871123 046	(5.1+	4.5-)	910913 675	0.2-	0.9-
871028 095	0.9-	0.1+	871125 046	0.0	0.4-	910913 675	0.1+	0.8-

1988 GD
Id. E. F. Helin (1992 obs.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 12.94183		(2000.0)	P	Q
n 0.26021711	Peri.	127.57584	-0.66439679	+0.74202252
a 2.4298464	Node	100.54053	-0.71116200	-0.59091244
e 0.1057261	Incl.	5.21315	-0.22983801	-0.31658345
P 3.79	H	13.0	G 0.15	

Residuals in seconds of arc

880312 675	(0.3+	3.8-)	920501 675	0.9+	1.2+	920530 675	0.4+	0.9+
880312 675	0.6-	0.1-	920502 675	1.3-	1.0-	920601 675	0.9-	0.8-
880408 675	1.1+	0.4-	920502 675	0.8+	0.1-	920601 675	0.1-	0.5-
880410 675	0.5-	0.4+	920503 675	0.7-	0.1+			
920501 675	1.0+	0.1+	920530 675	0.1-	0.1+			

1988 PM1 = 1989 YL3
Id. S. Nakano (MPC 15889)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M 21.42093		(2000.0)	P	Q
n 0.26992926	Peri.	164.50407	+0.87485999	+0.48427421
a 2.3712067	Node	166.51767	-0.44880712	+0.81815287
e 0.2290318	Incl.	2.43946	-0.18218715	+0.31000705
P 3.65	H	14.2	G 0.15	

Residuals in seconds of arc

811024 675	0.0	0.0	880813 511	0.9-	0.5-	880902 809	0.2-	0.3+
811025 675	0.1-	0.1+	880814 511	1.2-	0.7-	880904 809	0.9+	0.7+
880808 095	(6.2+	1.7-)	880814 511	0.0	0.7+	880904 809	1.4+	0.6+
880809 095	1.4+	0.1+	880818 511	1.1-	1.7+	880904 809	1.2+	0.5+
880809 095	(3.5+	1.6+)	880819 511	0.9-	0.5+	880905 809	0.7+	0.5+
880809 095	(1.3-	7.4+)	880819 511	1.3-	1.3-	880905 809	0.7+	0.4+
880812 511	0.7-	0.9+	880902 809	1.2-	0.3+	880905 809	0.6+	0.4+
880813 511	0.1-	0.5+	880902 809	0.7-	0.3+	880906 809	1.4+	0.1-

880906 809 1.4+ 0.2- 880914 095 1.9+ 0.4- 880920 809 0.0 0.7-
880906 809 1.8+ 0.3- 880914 511 1.4- 1.5- 880920 809 0.4+ 0.5-
880907 809 0.3- 0.5+ 880914 511 1.5- 0.2+ 880920 809 0.6+ 0.4-
880907 809 0.2- 0.1+ 880915 807 0.9+ 0.3+ 881004 807 0.4+ 0.1+
880907 809 0.3- 0.2+ 880915 809 1.1- 0.2- 881005 807 0.4+ 0.3+
880910 809 0.8- 0.4+ 880915 809 0.8- 0.5- 881007 807 0.6+ 0.1-
880910 809 0.6- 0.3+ 880915 809 0.3- 0.4- 881008 807 0.1+ 1.0-
880910 809 0.4- 0.3+ 880916 807 0.9+ 0.2+ 881008 807 0.4+ 0.1-
880913 511 (3.1- 5.1-) 880916 809 0.6- 0.5- 881104 807 0.2- 0.0
880913 511 (1.4- 3.0-) 880916 809 0.4- 0.6- 881106 807 1.6- 0.4-
880913 511 (0.9+ 2.5-) 880916 809 0.1- 0.5- 891230 413 0.6- 1.2+
880914 807 0.3+ 0.0 880916 095 (5.0+ 1.4+) 891230 413 0.4+ 1.6+
880914 809 1.1- 0.3- 880916 095 1.8+ 0.5+ 891231 413 0.9+ 1.3-
880914 809 0.9- 0.3+ 880919 809 0.3+ 0.3- 891231 413 0.0 1.1+
880914 809 0.8- 0.2+ 880919 809 0.1+ 0.5-
880914 095 0.1- 1.0+ 880919 809 0.1+ 0.6-

1988 PG2 = 1981 UR22
Id. S. J. Bus
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 355.01939 (2000.0) P Q
n 0.27392873 Peri. 254.91740 +0.87835281 -0.47646655
a 2.3480698 Node 133.52021 +0.45639834 +0.81202815
e 0.2201794 Incl. 3.03702 +0.14211580 +0.33703104
P 3.60 H 15.3 G 0.15
Residuals in seconds of arc
811024 675 0.5+ 0.5- 880910 675 0.2+ 0.2- 880916 675 0.3- 1.5+
811025 675 0.2+ 0.5- 880910 675 0.1- 1.1- 880916 675 1.1- 1.5+
811026 675 0.3- 0.3- 880911 675 0.5- 0.6+ 881007 675 0.1+ 0.5+
880813 033 0.2+ 1.3- 880911 675 0.5- 0.0 881007 675 0.7+ 1.7+
880814 033 0.4- 0.8- 880912 675 0.0 0.2-
880814 033 1.4+ 0.9- 880912 675 0.4+ 0.8-

1988 RE
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 230.24589 (2000.0) P Q
n 0.40094721 Peri. 105.49012 +0.54636434 +0.80869678
a 1.8214248 Node 202.29531 -0.79685443 +0.58203377
e 0.2523386 Incl. 35.06106 +0.25789342 +0.08512471
P 2.46 H 14.5 G 0.15
From 30 observations 1988 Sept. 11-1989 Jan. 2, mean residual 0".90.

1988 RK = 1954 SL
Id. S. Nakano (MPC 15559)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 349.08429 (2000.0) P Q
n 0.26078570 Peri. 192.95706 +0.98591595 -0.16672107
a 2.4263133 Node 176.55722 +0.16622472 +0.96819241
e 0.1872778 Incl. 12.68214 +0.01841399 +0.18656780
P 3.78 H 14.5 G 0.15
Residuals in seconds of arc
540923 760 0.4+ 0.4+ 880908 675 0.6- 0.7- 880917 095 0.9+ 1.3+
540923 760 2.0+ 2.6+ 880909 675 0.6+ 1.6- 881004 807 2.0+ 0.5-
540927 760 2.6- 0.1+ 880911 071 1.1- 0.1+ 910518 413 0.3- 0.5+
540927 760 0.2- 1.0- 880911 071 1.4- 0.5- 910518 413 0.3+ 0.2-

1988 SY1 = 1981 UR25
Id. S. J. Bus

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M 73.30965	(2000.0)	P	Q	
n 0.26675639	Peri. 226.66113	+0.11115928	+0.98887447	
a 2.3899721	Node 49.98967	-0.87038331	+0.14487859	
e 0.0789470	Incl. 7.41506	-0.47966292	-0.03372647	
P 3.69	H 13.9	G 0.15		

Residuals in seconds of arc

811025	675	0.4+	0.1+	880918	807	0.6+	0.4-	881007	807	0.0	0.2-
811026	675	0.4-	0.1-	881005	807	0.1-	0.3+				
880916	807	0.7-	0.3+	881006	807	0.1+	0.0				

1988 SZ2 = 1981 UD27
Id. S. J. Bus
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 314.58989	(2000.0)	P	Q	
n 0.12326581	Peri. 88.35092	-0.83604026	+0.54698671	
a 3.9985970	Node 124.80740	-0.52188998	-0.76865927	
e 0.0419404	Incl. 2.99646	-0.16931487	-0.33161494	
P 8.00	H 13.0	G 0.15		

Residuals in seconds of arc

811024	675	1.1-	0.2-	880918	807	0.1-	0.1-	881105	807	0.1+	0.3-
811025	675	0.6+	0.3-	881004	807	0.1+	0.5+	881107	807	0.2-	0.3+
811026	675	0.4+	0.6+	881005	807	0.2+	0.0				
880916	807	0.1-	0.5+	881008	807	0.1+	0.9-				

1988 VN7 = 1981 UJ26
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 28.79262	(2000.0)	P	Q	
n 0.28333923	Peri. 327.44657	+0.86260714	-0.48990051	
a 2.2957869	Node 62.38846	+0.48924513	+0.74451029	
e 0.1694872	Incl. 8.18273	+0.12863953	+0.45354373	
P 3.48	H 15.5	G 0.15		

Residuals in seconds of arc

811025	675	0.1-	0.2-	881103	033	0.5+	0.1+	881130	888	0.8+	0.2-
811026	675	0.1+	0.2+	881105	033	1.0-	0.6+	881130	888	0.8-	0.2+
881103	033	0.6-	0.2+	881106	033	1.1+	0.9-				

1989 EH6 = 1981 UH23
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M 98.56830	(2000.0)	P	Q	
n 0.18020318	Peri. 158.44430	+0.10176019	+0.99423563	
a 3.1042814	Node 117.38264	-0.91818736	+0.10693241	
e 0.1500197	Incl. 2.17952	-0.38285355	+0.00780877	
P 5.47	H 12.9	G 0.15		

Residuals in seconds of arc

811024	675	0.6-	0.3-	890210	033	0.1+	0.1+	890310	033	0.1+	0.0
811025	675	0.6+	0.3+	890307	033	0.3-	0.1+				
890210	033	0.1+	0.1+	890310	033	0.1+	0.3-				

1989 PT
Id. R. H. McNaught (1986, 1992 obs.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 324.55149	(2000.0)	P	Q	
n 0.28525098	Peri. 156.75911	+0.53651086	+0.84156913	
a 2.2855178	Node 145.59421	-0.79060430	+0.52718582	
e 0.1229045	Incl. 6.35963	-0.29512866	+0.11762871	
P 3.46	H 14.0	G 0.15		

Residuals in seconds of arc

860911	413	0.0	0.0	890908	675	0.1+	1.0-	891003	809	1.8+	1.2+
890809	675	1.0-	0.9+	890908	675	0.2-	0.2+	891003	809	1.3+	1.3+
890809	675	1.6+	0.4+	891002	809	1.6-	0.3+	920623	413	0.5-	0.5-
890810	675	0.5-	0.4-	891002	809	1.3-	0.4+	920623	413	0.6+	1.0+
890906	675	0.1-	2.3-	891002	809	0.8-	0.6+				
890906	675	0.4-	1.8-	891002	809	1.4+	1.0+				

1989 SP = 1972 LB1 = 1981 UW24
Id. E. Bowell (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	259.67603		(2000.0)		P		Q	
n	0.23926392	Peri.	135.23581		+0.93559584		+0.34336095	
a	2.5697127	Node	205.03155		-0.35305149		+0.90724450	
e	0.1877442	Incl.	11.20797		-0.00388214		+0.24292113	
P	4.12	H	12.5	G	0.15			

Residuals in seconds of arc

720613	095	0.0	0.1+	891003	046	0.4+	0.0	891007	403	1.5-	0.9-
811024	675	0.1+	0.4+	891004	046	(2.9+	1.7+)	891008	403	(5.4-	4.7+)Y
811025	675	0.1-	0.2-	891004	046	1.4+	0.3+	891028	807	0.8+	0.4+
890929	403	(0.6-	2.4+)	891005	046	(1.6+	3.2+)	891031	807	0.7+	0.2-
890929	403	(2.7-	0.9+)	891005	046	(0.9+	2.5+)	891120	888	(6.0-	2.0+)
891003	046	0.4-	0.1-	891007	403	1.2-	0.4+	891120	888	(6.4-	3.8+)

1989 SJ1 = 1981 SL8 = 1981 UG25
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	263.19251		(2000.0)		P		Q	
n	0.24319633	Peri.	267.05240		+0.94630016		+0.31718150	
a	2.5419366	Node	74.44873		-0.26479568		+0.87143031	
e	0.2204993	Incl.	3.72237		-0.18547038		+0.37417256	
P	4.05	H	15.5	G	0.15			

Residuals in seconds of arc

810924	033	0.4-	1.0+	890926	809	0.3+	1.1-	891007	809	0.3-	0.3+
810924	033	0.2-	0.5-	890928	809	1.8+	0.6-	891008	809	1.2-	0.7+
811025	675	0.7+	0.7-	890928	809	0.0	0.4-	891008	809	0.3+	0.8+
811026	675	0.0	0.3-	890928	809	0.5-	1.7-	891008	809	1.2-	0.6+
890926	809	0.8+	0.4+	891007	809	0.1-	0.7+				
890926	809	0.6+	0.1-	891007	809	0.6-	0.6+				

1989 SS1 = 1981 UK25
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	275.06183		(2000.0)		P		Q	
n	0.24253237	Peri.	256.94377		+0.74827694		+0.66091617	
a	2.5465737	Node	61.65435		-0.58068455		+0.69424151	
e	0.2677228	Incl.	3.72620		-0.32076016		+0.28498868	
P	4.06	H	15.4	G	0.15			

Residuals in seconds of arc

811025	675	0.4-	0.4-	890928	809	0.8-	1.2+	891007	809	0.9-	1.0+
811026	675	0.5+	0.3+	890928	809	0.8-	0.9+	891007	809	1.0-	0.9+
890926	809	0.2-	0.5-	891003	809	2.0+	1.7-	891008	809	0.2+	0.1-
890926	809	0.2+	0.6-	891003	809	1.9+	1.3-	891008	809	0.5-	0.4+
890926	809	0.3+	0.5-	891003	809	1.2+	1.5-	891008	809	0.2-	0.8-
890928	809	0.8-	1.8+	891007	809	0.6-	0.8+				

1989 SV5 = 1981 UO23
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 157.05718 (2000.0) P Q
n 0.23934509 Peri. 46.28278 -0.47126968 -0.87578881
a 2.5691317 Node 72.10399 +0.77439254 -0.46752485
e 0.1842909 Incl. 6.29835 +0.42216240 -0.12006032
P 4.12 H 15.3 G 0.15
Residuals in seconds of arc

811024	675	1.3-	0.3-	890926	809	0.0	0.6+	891008	809	0.5+	0.7-
811025	675	1.3+	0.3+	891007	809	0.6-	0.9+	891008	809	0.5+	0.4-
890926	809	0.2-	0.3-	891007	809	0.1+	0.9-	891008	809	0.7+	0.4-
890926	809	0.1+	0.2-	891007	809	1.1-	1.3+				

1989 SM8 = 1992 JO1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 267.19080 (2000.0) P Q
n 0.26276549 Peri. 318.22817 +0.98143930 +0.19108017
a 2.4141106 Node 30.76730 -0.16643208 +0.89086796
e 0.1977943 Incl. 1.82454 -0.09527470 +0.41211971
P 3.75 H 14.5 G 0.15
Residuals in seconds of arc

890909	095	0.6-	0.7-	890924	809	0.4-	1.0-	890925	809	0.4+	0.2+
890909	095	0.7+	0.7+	890924	809	0.2-	0.8-	920502	474	0.4+	0.0
890923	809	0.6-	0.6+	890924	809	0.1+	0.6-	920502	474	0.4-	0.3-
890923	809	0.1-	0.7+	890925	809	0.1+	0.1-	920504	474	0.9+	0.3+
890923	809	0.4+	1.1+	890925	809	0.2+	0.0	920504	474	0.9-	0.0

1989 SO8 = 1977 LZ
Id. S. Nakano (MPC 16877), K. Ichikawa (ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 232.47224 (2000.0) P Q
n 0.17559152 Peri. 211.13619 +0.19202894 +0.98050376
a 3.1583993 Node 69.96296 -0.89103585 +0.19199228
e 0.1445499 Incl. 2.54281 -0.41131496 +0.04184895
P 5.61 H 12.5 G 0.15
Residuals in seconds of arc

770612	675	1.6-	0.9-	890923	809	0.3-	1.0-	890926	809	0.3-	0.2-
770613	675	1.4+	0.2-	890923	809	0.8+	1.0-	890926	809	0.1-	0.6+
890909	095	1.4+	1.3-	890925	809	0.5-	0.1+	890926	809	0.2+	0.8+
890909	095	0.1+	1.7+	890925	809	1.1-	0.3+	901113	675	0.1-	1.0-
890923	809	0.6+	0.2+	890925	809	1.2-	0.2+	901113	675	0.5+	0.4-

1989 US = 1934 VK = 1973 YU1 = 1976 UD1
Id. S. Nakano (MPC 15567)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 309.52156 (2000.0) P Q
n 0.30436815 Peri. 330.40394 +0.96899308 -0.24154303
a 2.1887857 Node 43.67457 +0.23891897 +0.86221153
e 0.1544228 Incl. 4.32282 +0.06300907 +0.44525077
P 3.24 H 13.5 G 0.15
Residuals in seconds of arc

341107	094(92.6+	94.8-)X		890930	675	0.6-	0.2-	891028	364	0.6+	1.3-
731220	095	0.3+	1.7+	891021	364	1.6+	1.0+	891030	807	0.8+	0.5+
731221	095	0.3-	1.1-	891021	364	1.0+	0.5-	891030	095	0.0	0.0
761022	026	0.5-	2.0+	891023	364	0.0	0.9+	891030	095	1.3+	0.0
761024	026	1.1-	1.0+	891023	364	0.1-	0.8+	891101	807	0.1+	0.4+
890928	675	1.0-	0.1-	891026	364	1.0+	0.1-	891103	675	0.2-	0.6+
890928	675	(2.4-	2.1-)	891026	364	1.3+	0.3-	891103	675	0.5-	1.1-
890930	675	0.1+	0.4+	891028	364	0.2+	0.1-	891104	675	0.4-	0.7-

891104	675	0.1-	1.3-		891121	095	1.1-	1.7+		891124	675	1.1-	0.4-
891104	364	0.5-	1.2-		891121	095	(2.2-	0.7+)		910419	801	0.1-	0.4+
891104	364	0.4-	1.8-		891124	675	0.9-	0.4-		910419	801	0.2+	0.0

1989 UE4 = 1985 VK3
Id. S. Nakano (MPC 15568)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	177.09447		(2000.0)	P	Q
n	0.24254262	Peri.	250.79849	-0.55557742	-0.82381433
a	2.5465019	Node	233.46890	+0.80575014	-0.50004207
e	0.1400944	Incl.	8.05060	+0.20518392	-0.26699789
P	4.06	H	13.0	G 0.15	

Residuals in seconds of arc

851110	095	0.8+	0.6+		891026	033	0.3+	1.8+		910420	391	1.6+	1.4+
851120	095	0.8-	1.1-		891124	871	0.1+	1.8-		910420	391	(1.3+	3.8+)
891023	033	0.1+	1.6+		900129	033	0.5-	0.3-		910420	391	1.2-	0.6+
891023	033	0.5+	1.5+		900129	033	0.9-	0.4-					

1989 XM = 1988 RJ5
Id. H. Oishi (MPC 15898)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	269.83972		(2000.0)	P	Q
n	0.19676896	Peri.	280.90839	+0.93591026	+0.34956851
a	2.9275096	Node	58.64339	-0.30012991	+0.85573799
e	0.0340063	Incl.	2.90566	-0.18437466	+0.38146343
P	5.01	H	12.5	G 0.15	

Residuals in seconds of arc

880902	809	0.6+	0.1+		880910	809	(0.6-	3.0-)		891203	888	0.8+	0.8-
880902	809	0.6+	0.0		880910	809	(0.5-	3.3-)		891203	888	0.3+	0.9-
880902	809	0.4+	0.0		880911	809	(0.3-	3.9-)		891220	888	0.5+	0.3+
880905	809	0.6-	0.0		880911	809	(0.5-	4.2-)		891220	888	0.3-	0.1+
880905	809	1.0-	0.0		880911	809	(0.9-	4.9-)		891229	888	0.3+	0.1-
880905	809	0.8-	0.1-		891129	888	(1.4+	2.8-)		891229	888	0.4-	1.0+
880907	809	0.6+	0.7-		891129	888	(1.0+	2.5-)		910321	801	0.4+	0.1-
880907	809	0.6+	0.6-		891202	888	0.5-	0.3+		910321	801	0.9-	1.4-
880910	809	(0.4-	2.7-)		891202	888	0.7-	0.1+					

1989 YH = 1984 YF1 = 1984 YD3
Id. T. Kobayashi (MPC 15899)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	257.58931		(2000.0)	P	Q
n	0.21347217	Peri.	88.25764	+0.78759783	-0.60667152
a	2.7727361	Node	309.07507	+0.49553719	+0.72766368
e	0.1639177	Incl.	7.98828	+0.36624111	+0.32008628
P	4.62	H	12.5	G 0.15	

Residuals in seconds of arc

841217	095	1.3-	1.4+		891220	372	0.6+	0.6+		900103	372	0.9-	0.3-
841227	095	1.3+	0.8-		891224	372	0.0	0.4+		900103	372	0.9-	0.5-
880910	675	0.8+	0.5-		891224	372	1.1+	0.9+		900216	372	(2.1+	1.0-)
880910	675	0.4+	1.3-		891229	372	1.9-	0.9-		900216	372	0.8+	1.5-
880912	675	0.2+	0.7-		891229	372	0.8-	0.3-		910416	372	0.2-	0.9-
880912	675	0.3+	0.6-		891230	413	1.9-	0.5-		910416	372	1.6-	0.5-
880916	675	0.2+	1.1-		891230	413	1.1+	1.1-		910504	372	0.3-	1.0-
880916	675	0.8+	0.7-		891231	413	0.4-	0.8-		910504	372	0.2+	1.1-
891220	372	0.2+	0.6+		891231	413	1.6+	0.5-					

1990 HG = 1981 UF23
Id. S. J. Bus

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 224.30017 (2000.0) P Q
n 0.28610015 Peri. 166.35509 -0.79787318 +0.51998145
a 2.2809932 Node 49.25538 -0.58395036 -0.54106486
e 0.0752522 Incl. 23.73815 -0.14966752 -0.66095999
P 3.44 H 13.3 G 0.15
Residuals in seconds of arc
811024 675 0.6- 0.4- 900428 675 0.2+ 0.1+ 900521 675 (2.8- 1.6-)
811025 675 0.7+ 0.3+ 900428 675 0.7- 0.4+ 900521 675 0.1- 0.9+
900426 675 1.7+ 0.5+ 900518 675 0.0 0.5+
900426 675 1.2- 0.7- 900518 675 0.0 1.6-

1990 RK7 = 1981 UM26 = 1983 HC2
Id. S. J. Bus (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 32.67432 (2000.0) P Q
n 0.20628018 Peri. 357.46114 -0.22261696 -0.97427455
a 2.8368152 Node 105.39998 +0.89509872 -0.21852050
e 0.1327179 Incl. 2.08541 +0.38631588 -0.05511713
P 4.78 H 14.0 G 0.15
Residuals in seconds of arc
811025 675 0.4+ 0.6- 900816 809 1.3+ 1.9- 900913 809 0.2- 1.2+
811026 675 0.1- 0.4- 900820 809 0.3- 1.3- 900914 809 0.4- 1.3+
830416 033 0.6- 0.7- 900820 809 0.0 1.9- 900914 809 0.2- 1.0+
830416 033 0.1+ 0.5- 900820 809 0.3+ 1.3- 900914 809 0.1+ 1.1+
900816 809 1.0+ 0.4+ 900913 809 0.9- 0.7+
900816 809 0.4+ 1.0- 900913 809 0.7- 1.0+

1990 TA13 = 1969 US = 1974 TM1 = 1992 CB1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Ichikawa
M 49.25565 (2000.0) P Q
n 0.18907446 Peri. 88.86982 -0.59807905 -0.79320505
a 3.0064049 Node 38.62444 +0.64277025 -0.56013516
e 0.0437297 Incl. 10.57657 +0.47869390 -0.23890237
P 5.21 H 12.2 G 0.15
Residuals in seconds of arc
691016 095 1.2+ 2.6- 901015 033 0.1+ 0.1- 920225 376 2.0+ 1.5-
741012 808 0.9- 1.0+ 901018 033 1.0- 0.2+ 920225 376 0.2+ 0.5-
741012 808 0.6- 1.2+ 901018 033 0.7- 0.2- 920227 376 1.4- 0.8+
901014 033 0.9+ 0.1+ 920213 376 0.7- 2.2+ 920227 376 0.3+ 0.3-
901015 033 0.8+ 0.5+ 920213 376 (1.6+ 3.2+)

1991 BY2
Epoch 1991 Jan. 24.0 TT = JDT 2448280.5 Williams
M 45.74167 (2000.0) P Q
n 0.21990325 Peri. 75.52210 +0.75234712 -0.45125083
a 2.7184100 Node 308.68312 +0.02203331 +0.74537850
e 0.4636306 Incl. 37.93948 +0.65839832 +0.49069704
P 4.48 H 13.0 G 0.15
From 7 observations 1991 Jan. 16-Feb. 9.

1991 CR1 = 1984 YV6
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 158.33267 (2000.0) P Q
n 0.17639399 Peri. 314.13554 +0.41079148 -0.90275307
a 3.1488129 Node 111.21342 +0.87070599 +0.34692960
e 0.0867011 Incl. 7.86838 +0.27040977 +0.25431624
P 5.59 H 12.5 G 0.15

Residuals in seconds of arc

841220	010	0.5+	0.1+	910212	372	0.9-	0.2+	910216	372	0.1+	0.3-
841228	010	0.5-	0.1-	910212	875	0.2+	0.3-	910216	372	0.7-	0.3+
910207	875	0.2-	0.1+	910212	875	1.8+	0.2-	910217	875	0.6+	0.2-
910207	875	0.2-	0.3-	910216	372	(0.3+	2.8-)	910220	875	0.1-	0.7+
910212	372	(4.9-	1.1-)	910216	372	0.1-	0.2+	910220	875	0.4-	0.3-

1991 HM = 1981 UN26
Id. S. J. Bus
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	80.54901	(2000.0)	P	Q	
n	0.26139169	Peri.	193.36965	-0.33452400	+0.92838010
a	2.4225618	Node	57.30753	-0.84596787	-0.22014475
e	0.0972696	Incl.	11.08985	-0.41524939	-0.29941054
P	3.77	H	13.5	G 0.15	

Residuals in seconds of arc

811025	675	0.3+	0.2+	910503	894	0.7-	0.2-	910510	894	0.4+	0.5-	Y
811026	675	0.3-	0.1-	910503	894	1.0+	0.6-	910510	894	1.5-	0.2+	Y
910416	894	0.1-	1.0+	910505	894	1.1+	0.8+ Y	910517	894	0.5+	0.6+	
910416	894	0.2+	0.7-	910505	894	0.9-	0.3-	910517	894	(1.5+	2.5-)	Y

1991 PO13 = 1988 VN6
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	95.40686	(2000.0)	P	Q	
n	0.28703197	Peri.	334.72771	+0.80226546	+0.59672238
a	2.2760539	Node	348.58894	-0.53197858	+0.70163340
e	0.1843473	Incl.	4.95933	-0.27086698	+0.38940079
P	3.43	H	14.5	G 0.15	

Residuals in seconds of arc

881103	033	0.0	0.2-	910808	675	0.3+	0.4-	910904	691	0.7-	0.3-
881104	033	0.0	0.3-	910808	675	0.3-	0.2-	910912	675	0.1+	0.5+
881104	033	0.0	0.6+	910904	691	0.4-	0.3-	910912	675	1.4+	0.1-
910805	675	0.1-	0.9+	910904	691	0.3-	0.0				

1991 PJ15 = 1981 UL22
Id. S. J. Bus
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	125.19603	(2000.0)	P	Q	
n	0.28353480	Peri.	167.53164	+0.28289186	+0.95802334
a	2.2947311	Node	118.88529	-0.88450381	+0.27932470
e	0.1434106	Incl.	3.04511	-0.37097871	+0.06456770
P	3.48	H	14.7	G 0.15	

Residuals in seconds of arc

811024	675	0.1-	0.1-	910807	675	0.6+	0.0	910914	675	0.1-	0.6-
811025	675	0.5-	0.3-	910810	675	0.3-	0.0	910914	675	0.2-	1.1-
811026	675	0.6+	0.5+	910910	675	0.1-	0.5+				
910807	675	0.4-	0.1+	910910	675	0.5+	1.0+				

1991 RX4 = 1981 UC24
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	76.54068	(2000.0)	P	Q	
n	0.19023671	Peri.	140.04635	+0.95902478	+0.27687278
a	2.9941473	Node	204.08334	-0.28265396	+0.92042137
e	0.0772899	Incl.	8.47044	-0.01944733	+0.27598183
P	5.18	H	13.8	G 0.15	

Residuals in seconds of arc

811024 675	0.0	0.1+	910913 033	0.2-	0.0	910918 033	0.2+	0.1+
811025 675	0.0	0.1-	910914 033	0.2-	0.2+	911003 033	0.3+	0.1-
910913 033	0.1-	0.1-	910915 033	0.6+	0.2+	911004 033	0.1+	0.1-
910913 033	0.2+	0.3-	910915 033	0.6-	0.0	911004 033	0.4-	0.1+

1991 RA5

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	1.26856	(2000.0)		P	Q
n	0.29257031	Peri.	112.88869	-0.13228077	-0.99106316
a	2.2472388	Node	344.68289	+0.88390252	-0.11009232
e	0.0655960	Incl.	3.73183	+0.44857345	-0.07532261
P	3.37	H	15.5	G 0.15	

From 20 observations 1991 Sept. 13-1992 Jan. 2, mean residual 0".60.

1991 RT5 = 1982 BO5

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	89.18187	(2000.0)		P	Q
n	0.27281285	Peri.	312.78825	+0.96703409	+0.24469876
a	2.3544682	Node	33.23034	-0.17944822	+0.85121899
e	0.1396021	Incl.	7.38948	-0.18067484	+0.46427227
P	3.61	H	14.0	G 0.15	

Residuals in seconds of arc

820126 381	0.2-	0.3-	910908 808	0.7-	0.7+	910916 675	1.1+	0.8-
820126 381	0.4-	0.5-	910913 675	0.2-	0.4+	911001 691	0.6-	0.1+
820128 381	0.6+	0.8+	910913 675	0.2+	1.3+	911001 691	0.3-	0.0
910908 808	0.2-	0.8-	910916 675	0.6+	0.9-	911001 691	0.0	0.1+

1991 RN10 = 1991 TS5 = 1973 YW = 1979 BZ = 1982 UD10 = 1982 VW9 = 1987 WN2

Id. S. Nakano (d, MPC 19822), G. V. Williams

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	62.17352	(2000.0)		P	Q
n	0.21425401	Peri.	3.65738	+0.99162364	-0.12899434
a	2.7659866	Node	3.77300	+0.11583009	+0.86566129
e	0.1151637	Incl.	5.72033	+0.05714846	+0.48372615
P	4.60	H	13.0	G 0.15	

Residuals in seconds of arc

731220 095	0.2+	2.8+	910916 675	1.7-	2.4-	911004 033	0.3+	0.7+
790124 095	0.3-	0.6-	910916 675	0.5+	0.2+	911009 691	0.3-	0.4+
821022 095	0.7+	0.7-	911003 046	0.7+	1.1+	911009 691	0.7-	0.7+
821111 095	1.6-	0.7-	911003 046	0.9+	0.1-	911009 691	0.6-	0.6+
871126 033	0.2-	0.5-	911003 033	0.5-	1.3+	920102 691	0.4-	0.1+
871126 033	0.1+	1.0-	911004 033	0.1+	1.1+	920102 691	0.5-	0.2+
910910 675	0.6+	0.7+	911004 046	0.6+	2.3-	920102 691	1.8+	0.1-
910910 675	0.3+	0.1+	911004 046	0.0	2.1-			

1991 TQ = 1981 UG24

Id. S. J. Bus

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	102.01572	(2000.0)		P	Q
n	0.18982339	Peri.	242.35321	+0.64970578	+0.75223039
a	2.9984921	Node	68.60053	-0.64934092	+0.62419013
e	0.1232600	Incl.	6.76583	-0.39527051	+0.21103583
P	5.19	H	13.3	G 0.15	

Residuals in seconds of arc

811024 675	0.1+	0.0	910912 675	0.2-	0.1-	911002 413	1.3-	0.3+
811025 675	0.1-	0.1-	910916 675	0.5-	0.3-	911005 413	0.1-	0.0
910912 675	0.9+	0.3-	911001 413	0.4+	0.3+	911015 413	0.8+	0.2+

1991 TB1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 90.22295 (2000.0) P Q
n 0.56233493 Peri. 103.57741 -0.33083041 -0.94268526
a 1.4536929 Node 6.27643 +0.63561872 -0.25669494
e 0.3521067 Incl. 23.46953 +0.69752425 -0.21319523
P 1.75 H 17.0 G 0.15
From 18 observations 1991 Sept. 12-1992 May 24, mean residual 0".71.

1991 UF = 1977 VS1 = 1984 UZ2
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 79.26373 (2000.0) P Q
n 0.28116939 Peri. 100.70509 +0.95577292 -0.29091651
a 2.3075831 Node 276.21818 +0.24999602 +0.88097873
e 0.1334357 Incl. 2.49026 +0.15491972 +0.37315420
P 3.51 H 14.0 G 0.15
Residuals in seconds of arc

771108 330	0.2-	0.4+	910915 675	0.0	0.2-	911028 399	1.1-	0.8+
841026 688	(2.7+	1.1-)	910915 675	0.2+	0.8+	911028 399	0.7+	0.5+
841026 688	0.6+	1.4-	911018 399	1.0+	0.2+	911029 399	1.1+	0.5-
910913 675	0.1-	0.1-	911018 399	1.1+	0.6+	911029 399	1.4-	0.8-
910913 675	0.6-	0.6-	911019 399	0.2-	0.4+	911031 399	0.4+	0.6+
910914 675	0.5+	0.1-	911019 399	1.7-	0.2+	911031 399	0.3-	0.8-

1991 UQ3 = 1981 UO25 = 1990 HB5
Id. S. J. Bus (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 174.98379 (2000.0) P Q
n 0.29612385 Peri. 172.89934 +0.20733184 +0.97638233
a 2.2292244 Node 109.05255 -0.90067662 +0.21475808
e 0.1282602 Incl. 3.68523 -0.38183129 +0.02359042
P 3.33 H 13.0 G 0.15
Residuals in seconds of arc

811025 675	0.5+	0.3-	911019 399	1.9+	0.2+	911109 399	0.4-	0.9+
811026 675	0.2-	0.4-	911019 399	(2.4+	1.3+)	911109 399	1.7-	2.0+
900419 095	0.5+	0.3+	911031 399	1.3-	0.8-	911204 399	0.7-	0.1+
900419 095	0.4-	0.1-	911031 399	1.2-	0.6-	911204 399	1.7+	0.4+
911018 399	1.1+	0.1-	911104 399	1.5-	0.9-	911207 399	0.6+	1.1-
911018 399	1.1+	0.9+	911104 399	0.1-	0.1+	911207 399	0.7+	0.4-

1991 VV2 = 1972 HD1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 33.74564 (2000.0) P Q
n 0.23532960 Peri. 69.32863 +0.07610747 -0.99465543
a 2.5982744 Node 16.76685 +0.80093523 +0.01930561
e 0.1723285 Incl. 13.99662 +0.59389428 +0.10142909
P 4.19 H 12.5 G 0.15
Residuals in seconds of arc

720419 805	0.5-	0.6+	911112 894	0.5+	0.1+	911203 675	0.7-	0.9-
720419 805	1.0+	0.1+	911112 894	0.4-	0.2+	911212 894	0.6-	0.6+
910914 691	0.4-	0.6+	911130 894	0.5+	0.1+	911212 894	0.8+	1.0+
910914 691	0.5-	0.5+	911130 894	0.1+	0.1+	920104 894	0.4+	0.8-
910914 691	0.7-	0.3+	911202 675	0.3-	0.7-	920104 894	0.4-	0.7+
911104 894	0.9+	0.2-	911202 675	0.0	0.5-			
911104 894	0.1+	0.4+	911203 675	0.1+	0.4-			

1991 VL10 = 1976 UP11
Epoch 1992 June 27.0 TT = JDT 2448800.5 Ichikawa
M 94.65160 (2000.0) P Q
n 0.19893278 Peri. 181.61831 +0.97613978 +0.21694373
a 2.9062423 Node 165.84172 -0.19879522 +0.91007415
e 0.0879283 Incl. 2.17959 -0.08735894 +0.35312952
P 4.95 H 13.8 G 0.15
Residuals in seconds of arc

761022	381	0.3+	0.0	911105	691	0.0 0.1+	911106 691	0.1+ 0.1+
761022	381	0.1-	0.4-	911105	691	0.2+ 0.1+	911108 691	0.0 0.0
761024	381	0.5-	0.2+	911106	691	0.2- 0.2+	911108 691	0.3+ 0.2-
911105	691	0.2-	0.3-	911106	691	0.0 0.2+	911108 691	0.2- 0.3-

1991 XK = 1976 JT = 1989 BP
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 329.60660 (2000.0) P Q
n 0.29379765 Peri. 290.13264 -0.98310805 -0.16764916
a 2.2409758 Node 240.27841 +0.18288283 -0.91567927
e 0.1056825 Incl. 4.85050 -0.00724052 -0.36527419
P 3.35 H 13.8 G 0.15
Residuals in seconds of arc

760502	095	0.1-	0.4-	890202	875	1.3+ 0.1-	911207 691	0.0 0.0
890116	875	0.6-	1.4-	911204	399	2.2- 1.6-	911207 691	0.0 0.1+
890116	875	0.3+	1.4+	911204	399	1.1- 0.6-	911207 691	0.0 0.2+
890116	875	1.0-	0.4+	911205	399	2.1+ 0.5+	911214 399	1.0+ 0.6+
890202	875	(5.0+	0.0)	911205	399	1.4+ 0.7+	911214 399	1.1- 0.4-

1991 YG = 1980 PG1
Id. S. Nakano (MPC 19685)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 27.82440 (2000.0) P Q
n 0.28905314 Peri. 259.02170 -0.70893835 -0.70245878
a 2.2654314 Node 236.31717 +0.67300369 -0.64713349
e 0.1744872 Incl. 4.33604 +0.21088490 -0.29625987
P 3.41 H 13.5 G 0.15
Residuals in seconds of arc

800806	809	0.7+	1.4+	911216	877	0.4+ 0.3+	911231 385	0.2+ 0.4+
800807	809	0.9-	0.7-	911230	511	2.2+ 1.4+	911231 385	0.7+ 0.1-
841120	010	0.2+	0.6-	911230	511	0.4- 0.0	920102 511	1.1- 0.9-
841121	010	0.1-	0.0	911230	385	1.6+ 0.2-	920102 511	0.2+ 1.0-
911216	877	2.6-	0.9-	911230	385	1.2- 1.9+		

1992 AA
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 61.35419 (2000.0) P Q
n 0.35331552 Peri. 354.39594 -0.12667976 -0.98192787
a 1.9816528 Node 102.82435 +0.91560026 -0.17028138
e 0.3899055 Incl. 8.29111 +0.38161289 +0.08259492
P 2.79 H 16.0 G 0.15
From 37 observations 1991 Dec. 8-1992 May 24, mean residual 0".84.

1992 CJ = 1952 KN = 1973 UV
Epoch 1992 June 27.0 TT = JDT 2448800.5 Ichikawa
M 327.34965 (2000.0) P Q
n 0.29319037 Peri. 39.32633 -0.44989054 +0.89222865
a 2.2440692 Node 204.01342 -0.84168705 -0.43822067
e 0.1231995 Incl. 5.50941 -0.29859908 -0.10904440
P 3.36 H 13.5 G 0.15

Residuals in seconds of arc

```
520520 711  1.4-  1.5+ Y  920210 376  0.1+  0.7+    920224 046 (3.6+  0.9+)
520520 711 (0.4-  7.6-)Y  920210 376  0.2-  0.3-    920224 046  0.7-  0.1-
520522 711  1.3+  2.2- Y  920213 376  0.7+  0.8-    920227 376  1.7+  1.3-
731026 095  0.4+  1.2-    920213 376  1.2-  0.0     920227 376  0.7-  1.1+
```

1992 EB1

```
Epoch 1992 June 27.0 TT = JDT 2448800.5                Williams
M  10.37239             (2000.0)            P              Q
n   0.15887735     Peri.  231.11202     -0.89713704     +0.40548965
a   3.3761992      Node   331.50339     -0.19517345     -0.71979029
e   0.5714437      Incl.   21.55427     -0.39629845     -0.56345371
P   6.20           H   16.5           G   0.15
```

From 19 observations 1992 Mar. 10-June 19, mean residual 0".65.

1992 EE1

```
Epoch 1992 June 27.0 TT = JDT 2448800.5                Williams
M  23.21591             (2000.0)            P              Q
n   0.27146950     Peri.  160.17545     -0.97110159     +0.10302180
a   2.3622291      Node    28.52476     -0.22895802     -0.65678872
e   0.1834827      Incl.   26.79664     +0.06737903     -0.74700407
P   3.63           H   13.5           G   0.15
```

From 29 observations 1992 Mar. 10-June 3, mean residual 1".00.

1992 FE

```
Epoch 1992 June 27.0 TT = JDT 2448800.5                Williams
M 210.53566             (2000.0)            P              Q
n   1.10409177     Peri.   82.24079     +0.82177825     -0.56644030
a   0.9271129      Node   312.23729     +0.48431392     +0.75154200
e   0.4053993      Incl.    4.79235     +0.30020083     +0.33812720
P   0.89           H   17.0           G   0.15
```

From 21 observations 1992 Mar. 26-June 19, mean residual 0".48.

1992 FL1

```
Epoch 1992 June 27.0 TT = JDT 2448800.5                Williams
M  22.60686             (2000.0)            P              Q
n   0.24462961     Peri.  237.64185     -0.96173131     +0.26688731
a   2.5319980      Node   317.74615     -0.21003210     -0.86341293
e   0.4187887      Incl.    5.29049     -0.17595283     -0.42812297
P   4.03           H   16.5           G   0.15
```

From 16 observations 1992 Mar. 26-June 19, mean residual 0".33.

1992 HE

```
Epoch 1992 Apr. 28.0 TT = JDT 2448740.5                Williams
M 345.78707             (2000.0)            P              Q
n   0.26759484     Peri.  261.40149     +0.22774603     +0.93085092
a   2.3849772      Node    27.58335     -0.45350741     +0.36108427
e   0.5950922      Incl.   38.10477     -0.86166280     +0.05598851
P   3.68           H    14.0           G   0.15
```

From 21 observations 1992 Apr 25-May 9.

1992 HJ = 1968 HK

Id. S. Nakano (MPC 20345)

```
Epoch 1992 June 27.0 TT = JDT 2448800.5                Nakano
M 359.02540             (2000.0)            P              Q
n   0.28948258     Peri.  128.74316     -0.39746087     +0.91466867
a   2.2631904      Node   117.68830     -0.86556108     -0.34710210
e   0.1206959      Incl.    4.76301     -0.30467832     -0.20712644
P   3.40           H   13.2           G   0.15
```

Residuals in seconds of arc

680422 095	0.5-	0.3-	920408 691	0.3-	0.5-	920503 896	0.1+	0.5-
680426 095	0.9+	1.3+	920430 896	0.9+	1.4-	920505 896	1.3-	1.6+
920408 691	0.1-	0.5-	920430 896	0.7+	2.4-	920505 896	1.7-	2.7+
920408 691	0.4-	0.6-	920503 896	1.8+	0.6+			

1992 HS3 = 1991 FN4

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 195.93819		(2000.0)	P		Q
n 0.08356721	Peri.	110.97366	+0.84017650		-0.54134192
a 5.1813802	Node	281.81449	+0.48444187		+0.77606329
e 0.0765319	Incl.	1.89927	+0.24376120		+0.32353469
P 11.79	H	10.0	G	0.15	

Residuals in seconds of arc

910325 809	1.0+	0.4-	910326 809	0.9-	0.7+	920603 675	1.5+	2.3+
910325 809	0.9+	0.5-	920424 675	0.3-	2.0-	920603 675	0.4-	0.5-
910325 809	1.1+	0.5-	920426 675	1.2-	0.8-	920605 675	0.0	0.9+
910326 809	1.0-	0.5+	920426 675	1.6-	0.6-	920605 675	0.4-	0.5-
910326 809	1.0-	0.5+	920429 675	2.4+	1.1+			

1992 JE

Epoch 1992 May 18.0 TT = JDT 2448760.5 Williams

M 331.99481		(2000.0)	P		Q
n 0.30374844	Peri.	109.41507	+0.55037238		+0.83454727
a 2.1917617	Node	194.06048	-0.79934748		+0.51806896
e 0.4630406	Incl.	5.88786	-0.24110960		+0.18744441
P 3.24	H	16.0	G	0.15	

From 26 observations 1992 May 2-June 5.

1992 KD

Epoch 1992 June 7.0 TT = JDT 2448780.5 Nakano

M 4.13102		(2000.0)	P		Q
n 0.27601433	Peri.	355.33460	-0.52798908		+0.73364717
a 2.3362266	Node	242.18830	-0.76268874		-0.63117980
e 0.4326282	Incl.	28.92340	-0.37354172		+0.25174172
P 3.57	H	16.0	G	0.15	

From 25 observations 1992 May 27-June 5.

1992 KF = 1981 UY23

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 10.37358		(2000.0)	P		Q
n 0.23811495	Peri.	172.83039	-0.50768921		+0.82732504
a 2.5779725	Node	66.39284	-0.80290068		-0.35316600
e 0.1255211	Incl.	15.20892	-0.31241345		-0.43681467
P 4.14	H	13.5	G	0.15	

Residuals in seconds of arc

811024 675	0.2-	0.1+	920526 372	(0.3-	2.9-)	920530 372	0.3+	0.8-
811025 675	0.2+	0.1-	920526 372	(2.7-	2.9-)	920601 372	1.8-	1.1-
920525 372	1.9-	1.6-	920530 372	(2.9-	1.5-)	920601 372	0.7+	0.8+
920525 372	1.5+	1.5+	920530 372	1.2+	1.1+			

1992 LC

Epoch 1992 May 18.0 TT = JDT 2448760.5 Marsden

M 57.36917		(2000.0)	P		Q
n 0.85725288	Peri.	64.92686	-0.68729187		-0.71006048
a 1.0974803	Node	69.39687	+0.59349527		-0.67047206
e 0.3319213	Incl.	9.41456	+0.41879978		-0.21513097
P 1.15	H	16.5	G	0.15	

From 6 observations 1992 June 4-6.

1992 LR
Epoch 1992 June 7.0 TT = JDT 2448780.5 Marsden

M	340.73945	(2000.0)	P	Q
n	0.39817934	Peri. 67.49407	+0.51346788	+0.85763941
a	1.8298560	Node 233.43197	-0.79971450	+0.46627323
e	0.4087048	Incl. 2.02496	-0.31113896	+0.21689610
P	2.48	H 18.5	G 0.15	

From 48 observations 1992 May 21-June 29.

2196 P-L = 1989 BL1
Id. S. Nakano (MPC 14480)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	22.83044	(2000.0)	P	Q
n	0.28759815	Peri. 173.29850	-0.12845665	-0.99145418
a	2.2730657	Node 284.08012	+0.90878869	-0.10850172
e	0.1486146	Incl. 1.34389	+0.39699119	-0.07242918
P	3.43	H 14.2	G 0.15	

Residuals in seconds of arc

600924 675	0.6+	0.3-	601026 675	0.4-	1.3-	911019 399	0.7+	0.7-
600926 675	0.9+	1.4-	890129 046	0.5+	1.2-	911029 399	0.6+	0.7+
600928 675	0.2+	0.2+	890129 046	0.4-	0.6-	911029 399	0.5+	0.2+
601017 675	1.1+	0.5-	890130 046	2.0-	0.6-	911031 399	0.8-	1.3+
601022 675	0.5-	0.2-	890130 046	1.4+	0.7+	911031 399	2.3-	0.8-
601022 675	0.1+	0.1+	900429 413	0.0	1.0-			
601024 675	0.7-	0.0	911019 399	0.7+	1.5+			

2559 P-L = 1981 UF26
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	269.52899	(2000.0)	P	Q
n	0.28498020	Peri. 93.61314	-0.97797910	-0.20353458
a	2.2869654	Node 74.64721	+0.16739534	-0.89707295
e	0.0941058	Incl. 2.74357	+0.12464222	-0.39221651
P	3.46	H 14.4	G 0.15	

Residuals in seconds of arc

600924 675	0.2-	0.2+	601017 675	0.1+	0.2+	811025 675	0.2-	0.3-
600926 675	0.2-	0.4+	601022 675	0.2-	1.3-	811026 675	0.2+	0.4+
600928 675	0.0	0.0	601025 675	0.1+	0.2+			
600929 675	0.3+	0.1-	601026 675	0.1+	0.4+			

2763 P-L = 1991 VQ12
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	28.82950	(2000.0)	P	Q
n	0.19430551	Peri. 342.83398	+0.15601227	-0.98710421
a	2.9522014	Node 98.17939	+0.91044695	+0.12962992
e	0.0553919	Incl. 2.07580	+0.38307509	+0.09392208
P	5.07	H 15.0	G 0.15	

Residuals in seconds of arc

600924 675	0.8+	0.3-	601026 675	0.0	0.3-	911207 691	0.1-	0.4+
600926 675	0.8-	0.1+	911111 691	0.0	0.1-	911207 691	0.0	0.3+
600928 675	0.7-	0.6+	911111 691	0.3-	0.6-	911207 691	0.3+	0.2-
601025 675	0.7+	0.2-	911111 691	0.2+	0.3+			

4050 P-L = 1981 UL21
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	347.92644	(2000.0)	P	Q
n	0.19102021	Peri. 238.05238	+0.15102473	-0.98628155
a	2.9859544	Node 203.53657	+0.95392835	+0.16308550
e	0.0607193	Incl. 9.60562	+0.25925322	-0.02553091
P	5.16	H 13.6	G 0.15	

Residuals in seconds of arc

600924	675	0.8-	0.6-	601017	675	0.6-	0.3+	811024	675	0.1+	0.6-
600925	675	0.0	0.8+	601022	675	0.3+	1.6-	811025	675	0.1-	0.3+
600926	675	1.1+	0.1-	601024	675	0.2+	1.7+	811026	675	0.0	0.3+
600928	675	0.1+	0.0	601026	675	0.2-	0.5-				

4822 P-L = 1992 AX2

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	191.77992	(2000.0)	P	Q	
n	0.19862846	Peri.	180.44126	+0.72484814	+0.68810769
a	2.9092099	Node	136.01546	-0.63191477	+0.68330770
e	0.0293965	Incl.	2.74109	-0.27437001	+0.24412781
P	4.96	H	15.0	G 0.15	

Residuals in seconds of arc

600924	675	0.3-	0.7-	601025	675	0.3-	0.0	920201	691	0.0	0.4+
600926	675	0.4-	0.3-	601026	675	0.2+	0.0	920201	691	0.3-	0.1-
600927	675	0.8+	0.5+	920102	691	0.3+	0.0	920201	691	0.2+	0.3-
600928	675	0.5-	0.1+	920102	691	0.6+	0.2+				
601022	675	0.5+	0.5+	920102	691	0.8-	0.3-				

6568 P-L = 1986 EV

Id. T. Kobayashi (MPC 12583)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	10.21181	(2000.0)	P	Q	
n	0.28617925	Peri.	81.92808	+0.14096133	-0.99001510
a	2.2805729	Node	359.96836	+0.87676751	+0.12485592
e	0.1210935	Incl.	4.23367	+0.45979195	+0.06543009
P	3.44	H	14.5	G 0.15	

Residuals in seconds of arc

600924	675	0.5+	0.1-	601024	675	0.7-	0.8+	860315	809	0.3-	0.4-
600926	675	0.0	1.3-	601026	675	1.8-	0.1-	860315	809	0.7-	0.2+
600927	675	1.6+	0.6-	860305	688	1.8+	0.8-	910915	675	0.4+	0.4-
600928	675	1.3+	0.0	860305	688	0.5-	1.1-	910915	675	0.3+	0.7-
601017	675	0.2-	0.5+	860314	809	0.5+	0.3-				
601022	675	0.9-	0.4+	860314	809	1.6-	0.5+				

6581 P-L = 1990 DY1

Id. G. V. Williams (MPC 17219)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	158.90132	(2000.0)	P	Q	
n	0.08032629	Peri.	58.61608	+0.64504589	-0.76403103
a	5.3198276	Node	351.17875	+0.66880000	+0.57278992
e	0.0356462	Incl.	4.91148	+0.36962461	+0.29693146
P	12.27	H	10.0	G 0.15	

Residuals in seconds of arc

600926	675	1.0+	2.5-	601026	675	0.8-	1.3+	900228	809	1.2-	1.7+
600927	675	1.6+	0.7-	900227	809	0.2-	1.1-	900301	809	1.3+	0.3-
600928	675	0.6+	2.4-	900227	809	0.2+	1.1-	900301	809	1.3+	0.5-
601017	675	0.5-	0.5+	900227	809	0.5+	1.3-	900301	809	1.6+	0.9-
601022	675	0.7-	1.0+	900228	809	1.8-	1.7+	910417	675	1.0-	1.1-
601024	675	0.1+	0.4+	900228	809	1.6-	1.7+	910417	675	0.5-	1.6-

6583 P-L = 1981 UU23

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	355.87992	(2000.0)	P	Q	
n	0.28564611	Peri.	274.68922	+0.03417748	-0.99938058
a	2.2834097	Node	173.33483	+0.94321150	+0.02947950
e	0.0982827	Incl.	4.14417	+0.33042998	+0.01922012
P	3.45	H	14.7	G 0.15	

Residuals in seconds of arc

600924	675	0.2-	0.0	601017	675	0.8-	0.2+	811024	675	0.7-	0.2-
600926	675	0.4+	0.9-	601022	675	1.6-	0.6-	811025	675	0.8+	0.1+
600927	675	0.3-	0.1-	601024	675	1.0+	0.0				
600928	675	0.6+	0.6+	601026	675	0.8+	1.1+				

7075 P-L = 1981 UU17 = 1991 RG19
Id. E. Bowell (MPC 19689), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	64.52579	(2000.0)	P	Q	
n	0.19069844	Peri.	135.33467	+0.93213666	+0.35587624
a	2.9893123	Node	204.05885	-0.36080075	+0.89712178
e	0.1836939	Incl.	9.44262	-0.03072552	+0.26177206
P	5.17	H	13.6	G 0.15	

Residuals in seconds of arc

600928	675	0.3+	2.0+	601026	675	0.3+	0.6-	910914	675	0.0	0.7+
601017	675	0.1-	0.7-	811024	095	(4.4+	3.2+)	910917	675	0.3-	0.5-
601022	675	1.1-	0.2-	811025	675	0.1-	0.5+	910917	675	0.3+	0.5-
601024	675	0.1-	0.3-	811026	675	0.1-	0.1+				
601024	675	0.5+	0.8-	910914	675	0.0	0.3+				

7610 P-L = 1981 UE24
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	259.70886	(2000.0)	P	Q	
n	0.28733967	Peri.	78.61922	-0.96543794	+0.25184279
a	2.2744287	Node	115.93806	-0.25861463	-0.89366550
e	0.1362019	Incl.	4.28031	-0.03237383	-0.37139896
P	3.43	H	14.5	G 0.15	

Residuals in seconds of arc

601017	675	0.3-	0.6+	601025	675	0.5+	0.7-	811024	675	0.6-	0.1-
601022	675	0.1-	0.1+	601026	675	0.1-	0.2-	811025	675	0.6+	0.1+

9544 P-L = 1991 TZ9
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	110.86327	(2000.0)	P	Q	
n	0.25609642	Peri.	169.99053	+0.90125092	+0.43269014
a	2.4558418	Node	164.31007	-0.40317619	+0.85681408
e	0.0548791	Incl.	4.86507	-0.15873166	+0.28044407
P	3.85	H	15.0	G 0.15	

Residuals in seconds of arc

600924	675	0.0	0.1-	601026	675	0.7+	0.3+	911010	691	0.1+	0.1-
601017	675	0.8+	0.3+	911009	691	0.2-	0.0	911010	691	0.2+	0.1-
601022	675	1.7-	0.7-	911009	691	0.1-	0.1+	911010	691	0.2+	0.1+
601024	675	0.3+	0.2+	911009	691	0.0	0.0				

2291 T-1 = 1981 UX21
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	239.43596	(2000.0)	P	Q	
n	0.23066730	Peri.	246.44907	+0.74117826	+0.66808080
a	2.6331688	Node	71.56160	-0.58787665	+0.69323047
e	0.2171828	Incl.	3.97414	-0.32412317	+0.27036931
P	4.27	H	13.0	G 0.15	

Residuals in seconds of arc

710324	675	2.5-	0.0	710326	675	0.6-	0.6+	811024	675	0.2-	0.7+
710325	675	1.3+	0.9-	710327	675	1.7-	0.2+	811025	675	0.1+	0.2-
710325	675	1.6+	1.5-	710402	675	1.9+	1.7+	811026	675	0.1+	0.4-

4114 T-1 = 1976 UU17 = 1978 EP1 = 1991 XD2
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 280.36638	(2000.0)	P	Q	
n 0.27110161	Peri. 137.67591	-0.79719221	+0.60146245	
a 2.3643657	Node 79.37246	-0.56716568	-0.71646323	
e 0.1592369	Incl. 3.04596	-0.20690015	-0.35344499	
P 3.64	H 14.5	G 0.15		

Residuals in seconds of arc

710324 675	1.1+	1.3-	710416 675	0.4+	1.0-	911208 691	0.2-	0.1-
710326 675	0.1+	1.4+	710513 675	0.4-	0.2+	911208 691	0.2+	0.0
710326 675	0.3-	1.6+	710514 675	0.8-	0.6-	911208 691	0.0	0.1-
710327 675	(2.9-	0.7-)	761022 381	0.4-	0.5+	920101 691	0.1+	0.4-
710402 675	(4.4+	2.3-)	761022 381	0.1+	0.1+	920101 691	0.3+	0.3-
710416 675	0.4-	0.7-	780305 095	0.1+	0.6+	920101 691	0.0	0.4-

5141 T-2 = 1978 QK3
Id. S. Nakano (MPC 15087)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M 247.38421	(2000.0)	P	Q	
n 0.18809283	Peri. 20.87437	+0.78809853	+0.59923964	
a 3.0168558	Node 301.52360	-0.58557361	+0.65936684	
e 0.0928796	Incl. 9.50453	-0.18974787	+0.45403439	
P 5.24	H 13.0	G 0.15		

Residuals in seconds of arc

730919 675	(4.4+	0.0)	730929 675	2.0-	1.0+	731005 675	1.6+	0.6-
730920 675	0.7-	0.3+	730929 675	2.1-	0.1-	780824 414	0.8-	0.5+
730920 675	0.4+	0.4-	730930 675	1.2+	0.1-	780824 414	1.1-	0.7+
730924 675	0.4-	1.5-	730930 675	0.8+	0.7+	780826 414	0.1-	0.5+
730924 675	0.6+	0.7-	731004 675	1.6+	0.4+	780826 414	0.5+	0.8+
730925 675	0.9-	0.4-	731004 675	1.0+	0.5+	841121 010	0.3-	1.0+
730925 675	0.4+	2.1-	731005 675	0.8+	0.9-	891028 807	0.3-	1.2+

5332 T-2 = 1981 ES6
Id. S. Nakano (MPC 15088)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 147.96552	(2000.0)	P	Q	
n 0.19241350	Peri. 221.80164	-0.18148175	-0.97196165	
a 2.9715225	Node 239.16431	+0.94210921	-0.12825014	
e 0.0598104	Incl. 10.02807	+0.28194788	-0.19708488	
P 5.12	H 14.5	G 0.15		

Residuals in seconds of arc

730929 675	0.4-	1.0+	810209 413	0.3+	0.5+	810409 413	0.3-	1.9+
730929 675	0.7-	0.3+	810306 413	1.3-	0.9-	810409 413	2.2+	0.2+
730930 675	0.3-	1.3+	810308 413	1.6-	0.7+	810501 413	2.0+	2.2-
730930 675	0.1-	0.5+	810308 413	0.4-	0.2-	810503 413	1.1+	0.2-
731005 675	0.5+	1.4-	810312 413	1.8-	0.1+	910120 413	0.1+	0.1+
731005 675	0.9+	1.5-	810312 413	(4.6+	2.2-)			

5469 T-2 = 1980 RV5
Id. E. Bowell (MPC 18304)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M 358.36732	(2000.0)	P	Q	
n 0.27776651	Peri. 226.31836	-0.47417392	-0.87273952	
a 2.3263915	Node 252.32204	+0.83878249	-0.40771019	
e 0.0581322	Incl. 7.00059	+0.26758742	-0.26851094	
P 3.55	H 13.8	G 0.15		

Residuals in seconds of arc

730929	675	1.1+	1.0-	731004	675	0.9-	0.0	800913	675	0.2- 0.6+
730929	675	0.8+	0.3-	731004	675	1.2-	1.1+	800914	675	0.1- 0.1+
730930	675	0.8+	0.3+	731005	675	1.0-	0.7+	841121	010	0.0 0.2+
730930	675	1.6+	0.7-	731005	675	1.0-	0.9-			

2141 T-3 = 1981 WX6 = 1986 CW1
Id. C. M. Bardwell (MPC 12573)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	321.93815	(2000.0)	P	Q	
n	0.26439030	Peri.	147.39125	+0.70098591	-0.70936407
a	2.4042098	Node	257.98231	+0.63712877	+0.66928204
e	0.1733498	Incl.	4.31730	+0.32044607	+0.22105242
P	3.73	H	13.9	G 0.15	

Residuals in seconds of arc

771007	675	0.2-	2.0-	860209	809	0.0	0.9-	860214	809	0.1+ 0.1-
771011	675	0.8-	0.0	860209	809	0.0	0.8-	860215	809	0.1- 0.2+
771011	675	0.2-	1.0+	860209	809	0.2+	0.9-	860215	809	0.0 0.2+
771012	675	0.4-	0.8+	860210	809	0.7-	0.4+	860215	809	0.0 0.2+
771012	675	0.5+	0.6+	860210	809	0.6-	0.4+	860216	809	0.4- 0.6-
771016	675	0.1-	1.5-	860210	809	0.4-	0.3+	860216	809	0.4- 0.6-
771016	675	0.5+	1.7-	860212	809	0.4+	0.1+	860216	809	0.3- 0.6-
771017	675	0.9-	0.4+	860212	809	0.4+	0.1+	860217	809	1.5- 0.0
771017	675	0.1-	0.6+	860212	809	0.4+	0.1+	860217	809	1.3- 0.1-
771021	675	1.9+	0.8+	860213	809	0.8+	0.3-	860217	809	1.1- 0.0
771021	675	(2.9+	0.9-)	860213	809	0.7+	0.1-	880916	675	0.6+ 1.0-
771022	675	(0.0	3.1+)	860213	809	0.6+	0.2-	880916	675	0.2+ 0.6-
771022	675	(1.3-	2.7+)	860214	809	1.4+	0.1-			
811124	095	0.4+	2.2+	860214	809	0.6+	0.0			

3268 T-3 = 1991 TE10
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	292.10588	(2000.0)	P	Q	
n	0.28114669	Peri.	316.25473	-0.94907616	-0.31190824
a	2.3077073	Node	205.67018	+0.30981977	-0.89849061
e	0.0449956	Incl.	5.87739	+0.05715028	-0.30891403
P	3.51	H	16.5	G 0.15	

Residuals in seconds of arc

771007	675	0.2+	0.3+	771016	675	0.4-	0.5-	911010	691	0.4- 0.1-
771011	675	1.6-	0.5-	771017	675	0.3-	0.7+	911010	691	0.1- 0.3-
771011	675	0.7+	0.3-	771017	675	0.4-	0.0	911015	691	0.4+ 0.3+
771012	675	0.3+	1.5+	771021	675	0.0	0.1+	911015	691	0.2+ 0.3+
771012	675	1.5+	0.1-	771021	675	0.2-	0.3-	911015	691	0.4+ 0.2+
771016	675	0.3+	0.9-	911010	691	0.5-	0.5-			

3355 T-3 = 1991 TH10
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	153.86310	(2000.0)	P	Q	
n	0.21117918	Peri.	68.13578	+0.01082623	+0.99824993
a	2.7927709	Node	202.71856	-0.96400171	-0.00502785
e	0.0796863	Incl.	8.65783	-0.26567556	+0.05892200
P	4.67	H	15.0	G 0.15	

Residuals in seconds of arc

771007	675	0.7+	0.6+	771011	675	1.1+	0.7-	771016	675	0.3+ 0.2-
771007	675	1.3-	0.1-	771011	675	(2.8-	1.6+)	771016	675	0.5+ 0.3-
771011	675	0.8+	0.5+	771012	675	1.2+	0.3+	771017	675	0.1+ 1.7-
771011	675	2.0-	0.2+	771012	675	0.1-	0.2+	771017	675	0.6- 0.1+

771021 675 0.4- 0.0 911010 691 0.2- 0.4- 911015 691 0.4+ 0.4+
771021 675 0.4- 1.0+ 911010 691 0.1+ 0.1- 911015 691 0.0 0.0
911010 691 0.2- 0.0 911015 691 0.1- 0.1+

3474 T-3 = 1953 FB1
Id. H. Kaneda (MPC 16039)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 144.33138 (2000.0) P Q
n 0.26193351 Peri. 140.91773 -0.93483161 +0.35176799
a 2.4192199 Node 59.74243 -0.33824066 -0.84058715
e 0.1614781 Incl. 3.21668 -0.10808850 -0.41191325
P 3.76 H 15.0 G 0.15
Residuals in seconds of arc
530316 024 1.0+ 1.4- 771011 675 0.7- 0.7+ 771016 675 1.3- 0.1-
530320 024 0.8- 1.6+ 771012 675 1.8+ 0.4- 811025 675 0.8- 0.4-
771007 675 1.3+ 1.5+ 771012 675 1.2+ 1.5- 811026 675 0.9+ 0.2+
771011 675 1.6- 0.7+ 771016 675 0.9- 0.3-

4314 T-3 = 1981 NB1 = 1986 PO3 = 1991 RR21
Id. G. V. Williams; 1980 DO = 1986 PO3 (MPC 13685) is invalid
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 102.56938 (2000.0) P Q
n 0.20607574 Peri. 181.24388 +0.50641125 +0.86087551
a 2.8386911 Node 119.18321 -0.79064807 +0.48643918
e 0.0499930 Incl. 3.24409 -0.34412684 +0.14923233
P 4.78 H 13.0 G 0.15
Residuals in seconds of arc
771016 675 0.0 1.5+ 810702 805 0.1+ 0.3- 910911 675 0.8+ 0.4-
771016 675 0.8- 1.3+ 860801 675(53.2+ 1.6+) 910912 675 0.0 0.9-
771017 675 0.3+ 0.5- 860801 675(56.6+ 3.4+) 910912 675 2.1+ 2.0-
771017 675 0.7- 0.2+ 860802 675 0.8- 2.3+ 910915 675 1.3+ 0.5-
771021 675 0.2+ 0.7- 860802 675 0.9- 1.6+ 910915 675 0.1+ 0.3-
771021 675 0.4+ 1.0- 910908 691 1.2- 0.3- 910916 675 0.2+ 0.3-
771022 675 1.1- 1.5+ 910908 691 1.0- 0.4- 910916 675 1.3+ 0.3-
771022 675 0.1+ 1.7+ 910908 691 0.9- 0.2- 910917 675 0.4+ 1.0-
810702 805 0.1+ 1.0+ 910911 675 0.6+ 0.3- 910917 675 0.7- 0.0

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NEW NAMES OF MINOR PLANETS.

(2749) Schrutka = 1937 TD
Discovered 1937 Oct. 11 by K. Reinmuth at Heidelberg.
Named in honor of the Austrian astronomer Guntrum Schrutka von Rechtenstamm (1910-), who worked as professor of astronomy at Vienna University. In 1936 he became the first astronomer to derive the shape of minor planet (433) Eros, assuming it to be a triaxial ellipsoid. Furthermore, Schrutka is an eminent computer of cometary orbits, and he worked extensively on the difficult cases of P/Tempel 1, P/Tempel-Swift and P/Westphal. His work on positions and heights of lunar formations is also well known. Name proposed and citation prepared by H. Haupt and L. D. Schmadel.

(2806) Graz = 1953 GG
Discovered 1953 Apr. 7 by K. Reinmuth at Heidelberg.
Named for the capital city of the Austrian province of Styria. With its three universities and a population of 240 000, Graz is a center of

culture, music and the arts. The city also hosts and supports the Institute for Space Research of the Austrian Academy of Sciences. Among its distinguished past residents is Johannes Kepler, who lived there from 1594 to 1600. Name proposed and citation prepared by H. Haupt and L. D. Schmadel.

(2855) Bastian = 1931 TB2

Discovered 1931 Oct. 10 by K. Reinmuth at Heidelberg.

Named in honor of Ulrich Bastian (1951-), astronomer at the Astronomisches Rechen-Institut, Heidelberg. Together with S. Roser, Bastian produced the PPM Star Catalogue, which is a valuable practical tool for minor planet and comet work and constitutes an important aid for the transition from the FK4/B1950 to the FK5/J2000 reference system. He has also worked on other astrometric topics, such as Giotto targeting and the voluminous Hipparcos data-reduction task. Name proposed and citation prepared by L. D. Schmadel, endorsed by G. Klare and B. G. Marsden.

(2856) Roser = 1933 GB

Discovered 1933 Apr. 14 by K. Reinmuth at Heidelberg.

Named in honor of Siegfried Roser (1948-), astronomer at the Astronomisches Rechen-Institut, Heidelberg. Together with U. Bastian, Roser produced the PPM Star Catalogue. Roser has also contributed to astrometry by re-reducing all the positional data of Halley's Comet at its 1835/36 and 1909/11 apparitions. Name proposed and citation prepared by L. D. Schmadel, endorsed by G. Klare and B. G. Marsden.

(3422) Reid = 1978 OJ

Discovered 1978 July 28 by B. Stewart and C. Pratt at the Perth Observatory.

Named in honor of Gordon Reid (1923-1989) and his wife Ruth. Gordon Reid was foundation professor of politics at the University of Western Australia and became deputy vice-chancellor of the university in 1978. A Companion of the Order of Australia, he served as governor of Western Australia from 1984 until his death. Ruth Reid is well known in Western Australia for her warmth and compassion for the disadvantaged in the community. Citation prepared by M. P. Candy.

(3541) Graham = 1984 ML

Discovered 1984 June 18 by V. and M. P. Candy at the Perth Observatory.

Named in honor of Lloyd Wilson Graham (1940-), executive director of the department of state services, for his sympathetic support of the Perth Observatory in 1987, a difficult time in its history. He was also instrumental in the formation of the Perth Astronomy Research Group, which includes staff from the observatory and three local tertiary institutions.

(3861) Lorenz = A910 FA

Discovered 1910 Mar. 30 by J. Helffrich at Heidelberg.

Named in memory of Konrad Zacharias Lorenz (1903-1989), Austrian ethologist, who established the field of ethology, the basic concept of which is that animal behavior is genetically programmed. He shared the 1973 Nobel Prize for Physiology and Medicine with Nikolaas Tinbergen and Karl von Frisch for their work on animal behavior and its impact on the understanding of human nature. Name proposed by T. Urata and S. Nakano, who found the identifications involving this planet. Citation prepared by T. Hidaka.

(3926) Ramirez = 1978 VQ3

Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.

Named in honor of Abel R. Ramirez, manager and impeccable host of the California Institute of Technology's Athenaeum, on the occasion of his 50th

birthday, 1992 May 18. Fondly regarded by faculty, students and guests from all over the world, he has graciously presided over this elegant establishment since 1978, the year that this minor planet was discovered.

(4462) Vaughan = 1952 HJ2

Discovered 1952 Apr. 24 at the McDonald Observatory.

Named in honor of Curtis T. Vaughan, Jr., a lifelong resident, prominent businessman, and community leader of San Antonio, Texas. His early interests in science led to a physics degree at Harvard, but the need to direct a family enterprise precluded science as a career. Nevertheless, his interests and activities have remained strongly scientific, especially astronomical, as he built an outstanding collection of early astronomical instruments and constructed one of the finest private observatories in the United States, with now a fully computer-controlled 0.40-m reflector. For more than 20 years his uniquely strong encouragement and support, including financial, of astronomy at the University of Texas have played a major role in helping the astronomy program there grow into one of the preeminent such programs in the country. Name proposed by the late Harlan J. Smith.

(4494) Marimo = 1988 TK1

Discovered 1988 Oct. 13 by S. Ueda and H. Kaneda at Kushiro.

Named for spherically-shaped green algae that inhabit Lake Akan in Hokkaido, Japan. A protected species since 1894, Marimo can grow as big as a baby’s head: a Marimo with a diameter of 6 cm is estimated to be between 150 and 200 years old.

(4593) Reipurth = 1980 FV1

Discovered 1980 Mar. 16 by C.-I. Lagerkvist at the European Southern Observatory.

Named in honor of Bo Reipurth, staff astronomer at the European Southern Observatory in charge of the Schmidt telescope. He is mainly working on stellar formation and related problems, but he also shows a very keen interest in meteorites and has a fine collection of them.

(4607) Seilandfarm = 1987 WR

Discovered 1987 Nov. 25 by K. Endate and K. Watanabe at Kitami.

Named for a farm, established by Akio Seino in 1942, located about 10 km from Kitami. Covering an area of about 50 hectares of hilly terrain, this modern, large-scale dairy farm, with 150 cattle, is operated by four members of the Seino family.

(4771) Hayashi = 1989 RM2

Discovered 1989 Sept. 7 by M. Yanai and K. Watanabe at Kitami.

Named in honor of Kousuke Hayashi (1934-), currently serving in the Exhibit Planning and Astronomy Section of the Sapporo Youth Science Museum, and Chairman of the Japan Planetarium Research Association since 1990. He served at the Sapporo City Astronomical Observatory for 20 years and has been a central figure in providing astronomical information to the public. One of his greatest achievements was the invention of a mobile observatory.

(4773) Hayakawa = 1989 WF

Discovered 1989 Nov. 17 by K. Endate and K. Watanabe at Kitami.

Named in honor of Kazuo Hayakawa (1919-), an expert on mineralogy and petrology and professor of engineering at Hokkaigakuen University in Sapporo, Japan. His fields of interest include meteorites, craters and astroblemes. He has written a biography of William S. Clark (1826-1886)

and many astrogeological essays. Name proposed by K. Watanabe. Citation prepared by I. Hasegawa.

(4859) Fraknoi = 1986 TJ2

Discovered 1986 Oct. 7 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named for Andrew Fraknoi on the occasion of his resignation as executive director of the Astronomical Society of the Pacific.

(4934) Rhoneranger = 1985 JJ

Discovered 1985 May 15 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Randall Grahm, eclectic and irrepressible owner and winemaker of Bonny Doon Vineyard, near Santa Cruz, California. Often referred to as the Rhone Ranger, Grahm is best known as the creator of Le Cigare Volant, a Rhone-style wine that in some vintages has reached celestial heights. He is also renowned for Clos de Gilroy, a grenache wine containing not a hint of garlic; Big House Red, whose untrammeled grapes leap from the glass; and a number of fruit infusions, including Prunus, which plumbs the depths of intense flavor.

(4947) Ninkasi = 1988 TJ1

Discovered 1988 Oct. 12 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Named for the Sumerian goddess of wine and beer. She aided the god Lugalbanda in rescuing the tablets of fate from the demon Zu. In Semitic mythology, Ninkasi was also considered god of the Vine, corresponding to the Greek Dionysus. An ode to Ninkasi, inscribed in cuneiform on 4000-year old clay tablets, provides a recipe that was used successfully by Fritz Maytag and Solomon H. Katz to recreate Sumerian beer.

(4969) Lawrence = 1986 TU

Discovered 1986 Oct. 4 by E. F. Helin at Palomar.

Named in honor of Kenneth J. Lawrence, astronomer and valuable member of the Palomar Planet-Crossing Asteroid Survey team, on the occasion of his 28th birthday, 1992 May 30. Discoverer of near-earth-asteroids and comets, his congenial personality and wry wit contribute to the smooth operation of the highly-focused NEA discovery program. This recognition is heartily endorsed by his friends and coworkers, Jeff Alu, Perry Rose and Brian Roman.

(5080) Oja = 1976 EB

Discovered 1976 Mar. 2 by C.-I. Lagerkvist at Kvistaberg.

Named in honor of Tarmo Oja, professor in astronomy at Uppsala University working on galactic structure and variable stars. During the last few years he has also enthusiastically participated in photometric observations of (4) Vesta and (10) Hygiea at both Kvistaberg and La Palma.

(5127) Bruhns = 1989 CO3

Discovered 1989 Feb. 4 by E. W. Elst at the European Southern Observatory.

Named in memory of the famous organist and composer Nicolaus Bruhns (1665-1697), born at Schwabstedt, near Husum (Schleswig in the north of Germany), as a descendant of an old family of musicians. He got his first lessons at the organ from his father Paul Bruhns, a pupil of Franz Tunder. In 1681 he went to the city of Lubeck, to study the organ and composition with Dietrich Buxtehude and the violin and viola da gamba with his uncle Peter Bruhns. He was noted for his virtuosity, sometimes playing the upper parts on the violin--with accompaniment from an appropriate pedal bass part with his feet.

(5138) Gyoda = 1990 VD2
Discovered 1990 Nov. 13 by T. Hioki and S. Hayakawa at Okutama.
Named for an industrial city, home of the second discoverer, located some 60 km north of Tokyo, between the Ara and the Tone rivers. The city contains one of the the three most celebrated ancient burial grounds in Japan, and an old sword with golden Kanji characters was found there.

(5139) Rumoi = 1990 VH4
Discovered 1990 Nov. 13 by M. Mukai and M. Takeishi at the JCPM Kagoshima Station.
Named for the city of Rumoi, situated in the northwest part of Hokkaido, where one of the discoverers was born.

(5142) Okutama = 1990 YD
Discovered 1990 Nov. 13 by T. Hioki and S. Hayakawa at Okutama.
Named for the observatory at which this minor planet was discovered. Okutama is located to the west of Tokyo and is famous for its beautiful lake and its cherry blossom.

(5143) Heracles = 1991 VL
Discovered 1991 Nov. 7 by C. S. Shoemaker, E. M. Shoemaker and D. H. Levy at Palomar.
Heracles, son of Zeus and the Theban princess Alcmena, united the finest qualities of mind and heart, according to the traditions of the heroic age. His perseverance, crowned with victories, showed the triumph of the divine part of man's nature over the earthly. Through his fabled twelve labors, he achieved immortality and took his seat among the gods.

(5145) Pholus = 1992 AD
Discovered 1992 Jan. 9 by Spacewatch at Kitt Peak.
This Chiron-type object is being named by the Minor Planet Names Committee for a centaur who, like Chiron, was hospitable, charitable and shunned violence. Pholus entertained Heracles and gave him wine, the smell of which attracted and maddened the other centaurs, who were known for their brutal behavior and who began to fight with Heracles. Heracles used his poisoned arrows and killed many of them. As Pholus buried them, he wounded himself in extracting one of the arrows. Heracles tried to save him, but the poison was too deadly. Heracles buried Pholus on a mountain that he named Pholoe.

(5157) Hindemith = 1973 UB5
Discovered 1973 Oct. 27 by F. Borngen at Tautenburg.
Named in memory of the German composer Paul Hindemith (1895-1963), whose extensive creations encompassed almost all areas of music. Composer of the symphonies "Mathis der Maler" and "Harmonie der Welt", he wrote concerning the latter that "it deals with the life and work of Johannes Kepler and with the search for harmony, ruling the universe undubiously". He defined a system of free tonality, on the other side of major and minor, in contrast to twelve-tone music.

(5159) Burbine = 1977 RG
Discovered 1977 Sept. 9 at the Agassiz Station of the Harvard College Observatory.
Named in honor of Thomas Burbine in appreciation of his assistance at the Minor Planet Center during January to May 1992. He has recently drawn attention to the similarity of (387) Aquitania and (980) Anacostia, S-type minor planets that share unusual features in their near-infrared spectra and have similar mean distances and proper inclinations--but different proper eccentricities.

(5177) Hugowolf = 1989 AY6
Discovered 1989 Jan. 10 by F. Borngen at Tautenburg.
Named in memory of the Austrian composer Hugo Wolf (1860-1903), the creator of more than 200 songs from the late-romantic era. Many of these glorious songs had texts by Goethe, Morike and Eichendorff.

(5184) Cavaille-Coll = 1990 QY7
Discovered 1990 Aug. 16 by E. W. Elst at the European Southern Observatory.
Named in memory of Aristide Cavaille-Coll (1811-1899), the most famous member of a family of organ builders and considered the initiator of the orchestral style of French organ building and composing. His first large organ, that at the basilica of Saint-Denis (completed in 1841), became a model for many later French organs. Napoleon III put him in charge of rebuilding a number of important cathedral organs; more than 600 instruments bore his name, a number of them in England. He made important improvements in mechanism and pipework, aiming at making the organ as expressive as a symphony orchestra, and the typical romantic sound influenced a new school of composers, such as Cesar Franck and Charles-Marie Widor. One of the most beautiful organs by Cavaille-Coll is at Saint-Sulpice in Paris.

(5210) Saint-Saens = 1989 EL6
Discovered 1989 Mar. 7 by F. Borngen at Tautenburg.
Named in memory of the French composer Charles Camille Saint-Saens (1835-1921), whose extensive musical creations ranged from church music to neo-classicism. Among his best known works are the symphonic poem "La danse macabre", the opera "Samson and Delilah" and his third organ symphony.

* * * * *

EPHEMERIDES.

1992 LC a,e,i = 1.10, 0.33, 9 Elements MPC 20513

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992	06 27	13 55.58	-18 57.7	0.351	1.220	117.6	47.6	16.5
1992	07 07	14 21.07	-23 03.0	0.435	1.264	115.0	46.8	17.0
1992	07 17	14 44.87	-25 56.8	0.524	1.304	111.6	46.5	17.4
1992	07 27	15 08.04	-28 05.8	0.617	1.339	107.7	46.2	17.8
1992	08 06	15 31.25	-29 44.3	0.713	1.370	103.6	46.0	18.2
1992	08 16	15 54.81	-30 59.8	0.811	1.397	99.4	45.6	18.5
1992	08 26	16 18.82	-31 56.4	0.909	1.419	95.2	45.2	18.8
1992	09 05	16 43.40	-32 36.1	1.008	1.437	90.9	44.6	19.0
1992	09 15	17 08.54	-32 59.6	1.105	1.450	86.6	43.8	19.2
1992	09 25	17 34.17	-33 07.2	1.200	1.458	82.4	43.0	19.4
1992	10 05	18 00.27	-32 58.7	1.292	1.462	78.1	42.0	19.5
1992	10 15	18 26.71	-32 33.7	1.379	1.461	73.9	41.0	19.6
1992	10 25	18 53.40	-31 51.7	1.460	1.455	69.8	39.9	19.7

1992 JE a,e,i = 2.19, 0.46, 6 Elements MPC 20513

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992	06 27	14 27.54	+01 05.5	0.468	1.300	117.4	43.9	16.6
1992	07 07	14 37.76	+00 40.4	0.466	1.260	110.8	49.0	16.7
1992	07 17	14 53.78	-00 23.8	0.464	1.226	105.7	52.9	16.7
1992	07 27	15 15.39	-02 01.3	0.461	1.201	102.2	55.8	16.7
1992	08 06	15 42.57	-04 06.1	0.459	1.184	100.1	57.5	16.8
1992	08 16	16 15.16	-06 29.0	0.459	1.177	99.3	58.1	16.8
1992	08 26	16 52.79	-08 58.5	0.464	1.180	99.5	57.6	16.8
1992	09 05	17 34.73	-11 18.9	0.477	1.192	100.6	56.2	16.8
1992	09 15	18 19.51	-13 12.5	0.501	1.214	102.1	54.1	16.9

1992 09 25	19 05.10	-14 25.5	0.539	1.244	103.5	51.6	17.0
1992 10 05	19 49.54	-14 51.7	0.591	1.282	104.4	49.1	17.2
1992 10 15	20 31.27	-14 33.6	0.658	1.325	104.5	46.8	17.5
1992 10 25	21 09.48	-13 39.2	0.741	1.374	103.8	44.7	17.7
1992 11 04	21 44.13	-12 17.8	0.837	1.426	102.2	42.8	18.0
1992 11 14	22 15.50	-10 37.9	0.946	1.482	100.0	41.1	18.3
1992 11 24	22 44.06	-08 46.2	1.066	1.540	97.1	39.5	18.6
1992 12 04	23 10.37	-06 47.2	1.197	1.599	93.8	37.9	18.9
1992 12 14	23 34.87	-04 44.6	1.336	1.660	90.0	36.4	19.2
1992 12 24	23 57.94	-02 40.8	1.483	1.720	85.9	34.8	19.5
1993 01 03	00 19.93	-00 37.6	1.635	1.781	81.6	33.1	19.7
1993 01 13	00 41.06	+01 23.4	1.792	1.841	77.1	31.4	19.9

1992 LR a,e,i = 1.83, 0.41, 2 Elements MPC 20514

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 06 27	16 07.21	-09 25.8	0.127	1.122	144.3	31.9	15.6
1992 07 02	16 18.43	-07 39.0	0.116	1.110	141.5	34.8	15.5
1992 07 07	16 33.88	-05 44.5	0.105	1.099	139.6	36.8	15.3
1992 07 12	16 54.35	-03 41.6	0.097	1.091	138.8	37.8	15.1
1992 07 17	17 20.43	-01 30.7	0.089	1.086	139.3	37.6	14.9
1992 07 22	17 52.25	+00 43.5	0.084	1.083	141.0	36.2	14.8
1992 07 27	18 29.01	+02 50.9	0.081	1.082	143.7	33.8	14.6
1992 08 01	19 08.70	+04 37.3	0.082	1.084	147.0	30.6	14.6
1992 08 06	19 48.33	+05 51.1	0.085	1.089	150.5	27.3	14.6
1992 08 11	20 24.99	+06 28.9	0.091	1.096	153.8	24.1	14.6
1992 08 16	20 56.81	+06 34.5	0.101	1.106	156.7	21.3	14.8
1992 08 21	21 23.23	+06 15.9	0.113	1.118	159.3	18.7	15.0
1992 08 26	21 44.67	+05 41.3	0.127	1.132	161.7	16.3	15.2
1992 08 31	22 01.95	+04 57.8	0.143	1.148	163.7	14.3	15.4
1992 09 05	22 15.99	+04 11.3	0.162	1.165	165.1	12.9	15.6
1992 09 10	22 27.56	+03 25.4	0.183	1.185	165.6	12.2	15.9
1992 09 15	22 37.29	+02 42.4	0.206	1.206	165.1	12.4	16.2
1992 09 20	22 45.65	+02 03.7	0.232	1.228	163.5	13.4	16.6
1992 09 25	22 53.06	+01 30.4	0.260	1.252	161.2	15.0	16.9
1992 09 30	22 59.87	+01 03.4	0.291	1.277	158.3	16.9	17.2
1992 10 05	23 06.34	+00 43.2	0.325	1.302	155.1	18.8	17.6
1992 10 10	23 12.62	+00 29.8	0.362	1.328	151.8	20.8	17.9
1992 10 15	23 18.83	+00 22.9	0.401	1.355	148.4	22.7	18.3
1992 10 20	23 25.05	+00 22.1	0.443	1.382	145.0	24.4	18.6
1992 10 25	23 31.33	+00 27.1	0.489	1.410	141.6	26.0	18.9
1992 10 30	23 37.75	+00 37.7	0.537	1.438	138.1	27.4	19.2
1992 11 04	23 44.32	+00 53.3	0.588	1.467	134.8	28.7	19.4
1992 11 09	23 51.06	+01 13.4	0.642	1.495	131.5	29.8	19.7
1992 11 14	23 57.95	+01 37.5	0.698	1.523	128.2	30.7	20.0

1986 RA a,e,i = 3.35, 0.63, 19 Elements MPC 20499

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 06 27	16 13.54	+15 54.1	0.979	1.804	129.3	25.8	17.9
1992 07 07	16 06.40	+15 35.3	0.963	1.729	121.8	30.0	17.9
1992 07 17	16 02.82	+14 30.7	0.953	1.656	114.5	33.9	17.9
1992 07 27	16 03.41	+12 46.7	0.947	1.586	107.8	37.6	17.9
1992 08 06	16 08.50	+10 29.8	0.942	1.518	101.8	40.8	17.9
1992 08 16	16 18.17	+07 46.3	0.936	1.455	96.6	43.7	17.9
1992 08 26	16 32.37	+04 40.9	0.928	1.397	92.1	46.3	17.8
1992 09 05	16 51.14	+01 18.1	0.918	1.346	88.5	48.5	17.8
1992 09 15	17 14.50	-02 17.1	0.908	1.303	85.6	50.3	17.7
1992 09 25	17 42.47	-05 58.3	0.900	1.269	83.5	51.7	17.7
1992 10 05	18 15.07	-09 35.9	0.897	1.246	82.0	52.6	17.7
1992 10 15	18 52.03	-12 56.8	0.901	1.235	81.0	52.9	17.7

1992 10 25	19 32.72	-15 46.0	0.916	1.236	80.5	52.5	17.7
1992 11 04	20 16.03	-17 48.6	0.945	1.249	80.3	51.5	17.8
1992 11 14	21 00.36	-18 55.3	0.990	1.274	80.1	49.9	17.9
1992 11 24	21 44.06	-19 04.1	1.050	1.309	79.9	47.9	18.0
1992 12 04	22 25.79	-18 20.8	1.127	1.354	79.4	45.7	18.2
1992 12 14	23 04.69	-16 56.4	1.219	1.406	78.5	43.3	18.3
1992 12 24	23 40.50	-15 02.9	1.324	1.465	77.2	40.9	18.5
1993 01 03	00 13.36	-12 51.3	1.442	1.529	75.5	38.5	18.8
1993 01 13	00 43.59	-10 30.7	1.570	1.597	73.4	36.2	19.0
1993 01 23	01 11.59	-08 07.8	1.707	1.668	70.9	33.9	19.2
1993 02 02	01 37.76	-05 47.4	1.852	1.741	68.0	31.6	19.4
1993 02 12	02 02.44	-03 33.1	2.002	1.816	64.8	29.5	19.6
1993 02 22	02 25.91	-01 26.9	2.156	1.892	61.3	27.3	19.8
1993 03 04	02 48.40	+00 29.5	2.313	1.968	57.6	25.2	20.0
1993 03 14	03 10.06	+02 15.0	2.471	2.045	53.7	23.1	20.1
1993 03 24	03 31.03	+03 49.3	2.627	2.121	49.6	21.0	20.3
1993 04 03	03 51.40	+05 11.9	2.782	2.198	45.4	18.9	20.4

1992 HE a,e,i = 2.38, 0.60, 38 Elements MPC 20512

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 06 27	04 19.03	-34 22.7	0.735	0.970	65.0	71.7	15.8
1992 07 07	04 20.59	-29 29.2	0.778	0.992	65.5	68.9	15.9
1992 07 17	04 22.23	-24 54.9	0.805	1.030	67.8	65.9	15.9
1992 07 27	04 23.43	-20 35.3	0.815	1.083	71.6	62.9	16.0
1992 08 06	04 23.32	-16 26.4	0.808	1.146	77.0	59.6	16.0
1992 08 16	04 20.84	-12 22.3	0.788	1.216	84.0	55.9	15.9
1992 08 26	04 14.75	-08 15.9	0.758	1.292	92.8	51.4	15.9
1992 09 05	04 03.51	-03 59.0	0.723	1.372	103.6	45.6	15.7
1992 09 15	03 45.72	+00 35.1	0.691	1.453	116.6	38.2	15.5
1992 09 25	03 20.62	+05 23.7	0.673	1.536	131.8	29.1	15.3
1992 10 05	02 49.13	+10 08.0	0.678	1.618	148.7	18.7	15.2
1992 10 15	02 14.90	+14 16.2	0.716	1.700	165.7	8.3	15.0
1992 10 25	01 42.92	+17 23.9	0.789	1.781	173.5	3.6	15.1
1992 11 04	01 17.14	+19 31.3	0.897	1.860	160.3	10.3	15.8
1992 11 14	00 59.06	+20 55.9	1.032	1.939	147.2	16.1	16.4
1992 11 24	00 48.13	+21 56.7	1.189	2.015	135.5	20.1	16.9
1992 12 04	00 43.15	+22 47.6	1.362	2.090	125.1	22.7	17.4
1992 12 14	00 42.80	+23 36.8	1.547	2.163	115.6	24.2	17.8
1992 12 24	00 45.98	+24 28.3	1.740	2.234	106.9	24.9	18.1
1993 01 03	00 51.88	+25 24.0	1.938	2.304	98.9	24.9	18.4
1993 01 13	00 59.86	+26 24.3	2.137	2.371	91.2	24.5	18.7
1993 01 23	01 09.48	+27 29.1	2.335	2.437	84.0	23.7	18.9
1993 02 02	01 20.40	+28 37.8	2.530	2.501	77.0	22.6	19.1
1993 02 12	01 32.38	+29 49.7	2.720	2.563	70.4	21.3	19.3
1993 02 22	01 45.23	+31 04.0	2.903	2.623	63.9	19.8	19.4
1993 03 04	01 58.83	+32 20.0	3.078	2.682	57.7	18.2	19.5
1993 03 14	02 13.05	+33 36.9	3.241	2.739	51.7	16.6	19.6
1993 03 24	02 27.81	+34 54.0	3.393	2.794	46.0	14.9	19.7
1993 04 03	02 43.06	+36 10.7	3.533	2.847	40.5	13.2	19.8
1993 04 13	02 58.73	+37 26.4	3.658	2.899	35.3	11.5	19.8
1993 04 23	03 14.77	+38 40.7	3.769	2.949	30.7	10.0	19.9

(5189) 1990 UQ a,e,i = 1.55, 0.48, 4 Elements MPC 20315

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 08 06	04 30.01	+18 40.2	0.603	0.938	65.2	79.1	19.0
1992 08 16	04 48.86	+18 27.4	0.650	1.003	70.4	72.0	19.1
1992 08 26	05 05.82	+18 10.8	0.681	1.074	76.1	65.9	19.2
1992 09 05	05 19.91	+17 48.3	0.699	1.148	82.4	60.5	19.2
1992 09 15	05 30.36	+17 20.0	0.703	1.223	89.6	55.3	19.2

1992 09 25	05 36.39	+16 46.9	0.697	1.298	97.9	49.9	19.1
1992 10 05	05 37.08	+16 10.7	0.685	1.371	107.5	44.1	19.1
1992 10 15	05 31.70	+15 32.7	0.670	1.443	118.6	37.4	18.9
1992 10 25	05 19.89	+14 54.0	0.659	1.512	131.2	29.7	18.8
1992 11 04	05 02.17	+14 15.7	0.659	1.578	145.2	21.0	18.6
1992 11 14	04 40.60	+13 40.0	0.677	1.641	159.7	12.1	18.5
1992 11 24	04 18.34	+13 11.0	0.719	1.702	171.4	5.0	18.4
1992 12 04	03 58.69	+12 53.9	0.787	1.759	165.9	7.8	18.8
1992 12 14	03 43.85	+12 52.4	0.878	1.813	153.5	14.0	19.3
1992 12 24	03 34.47	+13 07.1	0.991	1.865	141.6	19.1	19.8
1992 07 27	22 38.96	-09 14.9	1.504	2.417	146.5	13.4	18.3
- 4.37 -1.27	- 65.1 - 8.8	(4881)	18607	- 8.76 0.00		- 87.4 + 2.6	
1992 08 26	22 16.93	-13 24.6	1.402	2.412	176.9	1.3	17.5
1992 09 25	00 52.58	-10 05.2	1.520	2.501	164.4	6.2	16.9
- 9.71 -0.43	- 35.3 + 6.3	1991 HM	20508	- 7.23 +1.12		+ 20.1 +10.3	
1992 10 25	00 24.32	-10 35.2	1.635	2.529	147.3	12.3	17.3
1992 09 25	01 16.32	+06 35.9	1.342	2.317	162.1	7.6	17.7
- 8.82 -0.85	- 57.2 - 4.8	(4847)	18278	- 8.26 +0.99		- 50.3 + 6.9	
1992 10 25	00 47.30	+03 33.1	1.373	2.333	160.3	8.3	17.8
1992 09 25	01 14.57	+05 08.3	2.504	3.475	162.9	4.9	17.9
- 6.64 -0.51	- 40.8 - 2.4	1989 CL1	18816	- 6.78 +0.47		- 37.0 + 3.7	
1992 10 25	00 52.64	+03 00.5	2.474	3.430	161.2	5.4	17.9
1992 09 25	01 15.56	+02 15.9	1.839	2.814	163.2	5.9	17.0
- 6.96 -0.61	- 50.4 - 1.5	1987 RG6	15558	- 6.74 +0.67		- 33.9 + 6.5	
1992 10 25	00 52.64	-00 05.2	1.873	2.826	159.5	7.1	17.1
1992 09 25	01 19.51	-02 03.0	1.448	2.422	162.0	7.4	17.3
- 8.99 -0.83	- 42.8 + 0.9	1991 JA	18441	- 8.64 +0.92		-9.4 + 9.1	
1992 10 25	00 49.82	-03 36.4	1.485	2.431	156.7	9.3	17.4
1992 09 25	01 14.80	-07 30.6	2.083	3.050	161.4	6.0	16.0
- 6.13 -0.54	- 76.1 + 2.5	(4932)	18789	- 6.00 +0.57		- 35.3 + 9.9	
1992 10 25	00 54.55	-10 31.3	2.132	3.048	152.2	8.7	16.2
1992 09 25	01 16.44	+06 24.4	1.974	2.945	162.2	6.0	16.3
- 6.77 -0.55	- 47.3 - 2.9	1986 PC1	18810	- 6.41 +0.64		- 41.5 + 4.7	
1992 10 25	00 54.49	+03 57.2	2.036	2.997	162.1	5.9	16.4
1992 09 25	01 15.09	+00 41.5	0.809	1.793	163.3	9.2	15.9
- 4.28 -1.14	-123.4 - 4.4	1985 RP	10293	- 4.57 +1.06		- 76.3 +18.1	
1992 10 25	00 57.73	-04 59.9	0.812	1.770	157.1	12.6	16.0
1992 09 25	01 21.39	+17 03.8	1.284	2.237	155.8	10.6	16.8
- 8.19 -1.13	-9.0 -10.4	1978 ST7	16422	- 9.11 +0.91		- 51.5 - 1.6	
1992 10 25	00 51.66	+15 17.0	1.224	2.195	163.3	7.5	16.5
1992 09 25	01 19.46	+03 37.7	1.642	2.614	162.0	6.8	17.2
- 6.31 -0.71	- 40.4 - 2.1	1986 QB3	12206	- 6.37 +0.68		- 27.7 + 6.1	
1992 10 25	00 57.88	+01 40.5	1.665	2.628	161.6	6.9	17.2
1992 09 25	01 23.02	+27 14.2	1.998	2.898	148.2	10.5	17.0
- 7.95 -0.82	-2.0 -11.0	1977 EX	19856	- 8.59 +0.65		- 58.8 - 5.9	
1992 10 25	00 55.48	+25 33.6	1.928	2.882	159.9	6.8	16.7

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1992 09 25    01 20.78   +10 06.2    1.623    2.587   159.8     7.7    16.4
- 6.65 -0.66  - 74.9 - 5.5    (4862)     18405   - 6.30 +0.74  - 73.9 + 5.8
1992 10 25    00 58.78   +06 02.1    1.691    2.661   163.9     5.9    16.4

1992 09 25    01 26.87   +19 05.4    0.907    1.859   153.5    13.9    15.9
- 8.69 -1.33  + 17.0 -14.0   1949 QC1     9583   - 8.66 +1.30  - 43.0 - 3.1
1992 10 25    00 55.97   +18 05.9    0.937    1.912   163.7     8.4    15.8

1992 09 25    01 26.15   -03 48.6    1.368    2.335   160.0     8.4    16.5
- 8.69 -0.89  - 56.2 + 2.0   1985 RL3    18110   - 8.52 +0.91  - 12.8 +10.9
1992 10 25    00 57.01   -05 48.5    1.423    2.368   156.3     9.7    16.7

1992 09 25    01 23.46   +07 11.5    1.441    2.409   160.3     8.1    16.3
- 7.28 -0.86  - 35.7 - 4.4   1988 VV3    17442   - 7.50 +0.79  - 34.4 + 4.9
1992 10 25    00 58.24   +05 09.2    1.455    2.424   163.4     6.7    16.2

1992 09 25    01 24.53   +09 18.7    1.719    2.681   159.3     7.6    16.5
- 6.79 -0.79  - 32.7 - 5.0    (4656)     17414   - 7.37 +0.63  - 39.6 + 3.1
1992 10 25    01 00.67   +07 15.3    1.696    2.668   164.8     5.6    16.3

1992 09 25    01 27.37   +07 13.2    1.429    2.394   159.3     8.5    16.9
- 8.13 -0.89  - 62.2 - 4.9    (4818)     18268   - 8.24 +0.84  - 56.9 + 6.6
1992 10 25    00 59.61   +03 53.4    1.461    2.430   163.1     6.8    16.9

1992 09 25    01 28.00   +00 37.0    0.885    1.859   160.1    10.6    16.3
- 7.58 -1.17  - 69.4 - 0.5   1979 QK6    10037   - 7.33 +1.17  - 26.0 +12.9
1992 10 25    01 01.30   -02 11.1    0.954    1.917   159.7    10.4    16.5

1992 09 25    01 26.21   +07 46.0    2.139    3.098   159.4     6.5    17.8
- 6.62 -0.70  - 31.5 - 3.7   6519 P-L     9302   - 7.44 +0.46  - 34.9 + 2.8
1992 10 25    01 03.00   +05 54.4    2.076    3.047   164.8     4.9    17.6

1992 09 25    01 30.82   +15 50.0    1.425    2.371   154.8    10.4    16.7
- 7.78 -1.11  - 17.2 - 9.1   1990 BF     16032   - 9.20 +0.72  - 51.9 - 0.8
1992 10 25    01 01.96   +13 51.1    1.359    2.336   166.0     5.9    16.4

1992 09 25    01 29.88   +09 44.8    2.027    2.980   157.9     7.3    18.3
- 7.36 -0.79  - 18.8 - 4.3   4232 T-1    19880   - 8.40 +0.49  - 28.2 + 1.7
1992 10 25    01 03.87   +08 23.4    1.960    2.935   165.9     4.7    18.1

1992 09 25    01 30.68   -07 40.9    1.761    2.716   157.8     8.0    17.0
- 7.15 -0.88  - 49.3 + 2.5   1983 WG      8540   - 8.32 +0.55    -6.4 +10.7
1992 10 25    01 04.83   -09 19.7    1.715    2.648   154.7     9.3    16.9

1992 09 25    01 29.72   +05 51.4    1.787    2.747   159.1     7.5    17.0
- 6.30 -0.72  - 45.3 - 3.0   1986 QP2    14787   - 6.70 +0.59  - 38.7 + 5.1
1992 10 25    01 07.83   +03 30.5    1.823    2.794   164.7     5.4    17.0

1992 09 25    01 28.98   +19 40.3    1.309    2.248   152.8    11.8    16.7
- 5.54 -1.00  - 85.1 -13.8   1988 VR5    18815   - 6.36 +0.75 -127.4 + 1.8
1992 10 25    01 07.90   +13 52.7    1.283    2.264   167.4     5.5    16.4

1992 09 25    01 34.06   +09 33.4    2.200    3.147   157.0     7.2    16.2
- 8.00 -0.75  + 13.9 - 3.1   1975 VD9    16694   - 8.92 +0.48    +4.8 + 0.5
1992 10 25    01 06.41   +09 55.0    2.168    3.144   166.9     4.1    16.0

1992 09 25    01 31.89   -02 31.4    2.206    3.162   158.8     6.6    17.2
- 6.54 -0.68  - 60.0   0.0   1990 FM1    16437   - 7.36 +0.43  - 36.1 + 7.4
1992 10 25    01 08.99   -05 09.3    2.187    3.135   158.7     6.6    17.2
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1992 09 25	01 29.95	+16 11.4	0.985	1.940	154.7	12.7	15.7	
- 4.21 -1.32	- 32.1 -13.0	1988 VH1	14026	- 6.53 +0.74	- 81.7 - 0.6			
1992 10 25	01 10.03	+12 57.7	0.891	1.875	168.0	6.3	15.1	
1992 09 25	01 31.57	+11 16.8	1.202	2.160	156.9	10.5	14.6	
- 4.78 -1.05	-107.2 -10.1	(4905)	18616	- 5.97 +0.70	-116.4 + 7.9			
1992 10 25	01 12.21	+05 08.0	1.186	2.165	166.5	6.2	14.4	
1992 09 25	01 35.00	+12 08.0	1.912	2.856	155.8	8.3	17.2	
- 6.77 -0.70	- 60.2 - 5.6	1986 JT	15711	- 7.14 +0.57	- 68.1 + 3.4			
1992 10 25	01 11.77	+08 38.9	1.958	2.938	167.9	4.1	17.1	
1992 09 25	01 39.15	+06 37.1	2.340	3.285	156.7	6.9	16.4	
- 7.84 -0.70	+5.2 - 2.0	1969 TX5	13453	- 8.75 +0.43	+3.8 + 1.7			
1992 10 25	01 12.17	+06 43.8	2.326	3.303	167.2	3.8	16.3	
1992 09 25	01 35.04	-12 43.5	2.191	3.126	154.5	7.9	16.3	
- 5.89 -0.68	- 72.2 + 4.0	(4930)	18788	- 6.75 +0.42	- 23.1 +11.1			
1992 10 25	01 14.04	-15 19.4	2.210	3.113	150.4	9.1	16.4	
1992 09 25	01 38.87	+06 37.8	1.789	2.739	156.7	8.3	18.0	
- 7.09 -0.91	- 53.0 - 4.3	1979 FD2	14013	- 8.52 +0.50	- 52.6 + 4.7			
1992 10 25	01 12.87	+03 42.7	1.738	2.713	165.8	5.2	17.8	
1992 09 25	01 37.51	+11 13.2	2.024	2.966	155.6	8.0	18.5	
- 6.60 -0.83	- 41.5 - 5.6	1981 EA26	12444	- 8.04 +0.41	- 55.2 + 1.8			
1992 10 25	01 13.28	+08 34.5	1.940	2.921	168.2	4.0	18.1	
1992 09 25	01 45.91	+13 37.3	0.971	1.918	152.7	13.9	17.1	
- 7.67 -1.44	- 25.5 - 9.9	1976 QC1	12940	- 9.21 +0.97	- 52.2 + 2.5			
1992 10 25	01 16.12	+11 17.7	0.994	1.980	169.5	5.3	16.9	
1992 09 25	01 45.64	+04 41.1	1.260	2.211	155.4	10.9	16.4	
- 6.36 -1.27	- 40.6 - 4.0	1981 UQ11	17199	- 8.93 +0.56	- 33.0 + 6.8			
1992 10 25	01 19.32	+02 30.7	1.199	2.178	166.2	6.2	16.1	
1992 09 25	01 44.18	+09 11.6	0.995	1.950	154.8	12.7	16.8	
- 5.17 -1.35	- 76.8 - 8.3	1980 FY4	14781	- 7.23 +0.74	- 78.1 + 8.4			
1992 10 25	01 21.72	+04 48.1	0.997	1.981	168.2	5.9	16.5	
1992 09 25	01 44.63	+07 52.0	0.999	1.955	155.0	12.5	16.8	
- 5.26 -1.37	- 46.0 - 6.5	1973 SB6	15873	- 7.50 +0.72	- 46.3 + 6.8			
1992 10 25	01 21.61	+05 08.9	0.991	1.976	168.4	5.8	16.5	
1992 09 25	01 48.52	+06 22.6	1.571	2.513	154.4	9.9	18.1	
- 6.86 -1.07	- 61.3 - 4.7	1987 DD6	18811	- 8.84 +0.49	- 58.8 + 5.9			
1992 10 25	01 22.10	+03 02.8	1.532	2.511	167.1	5.1	17.8	
1992 09 25	01 44.98	+06 57.4	2.366	3.303	155.2	7.3	16.5	
- 5.56 -0.70	- 43.8 - 3.2	1981 UM22	20498	- 6.92 +0.30	- 44.3 + 3.2			
1992 10 25	01 24.42	+04 33.6	2.314	3.294	168.6	3.4	16.2	
1992 09 25	01 53.15	+17 02.6	1.499	2.418	149.6	12.1	17.0	
- 6.64 -1.21	- 15.4 - 8.7	2400 T-3	15907	- 9.28 +0.46	- 52.1 - 1.8			
1992 10 25	01 26.16	+15 08.6	1.430	2.418	171.5	3.5	16.5	
1992 09 25	01 54.83	+01 09.4	0.965	1.915	153.4	13.6	15.7	
- 5.31 -1.57	- 56.6 - 2.6	1989 YS6	19026	- 8.82 +0.59	- 27.7 +11.7			
1992 10 25	01 29.63	-01 23.7	0.930	1.907	164.6	7.9	15.4	

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1992 09 25    01 56.88   +16 38.8    1.209    2.132   149.0    14.0    16.9
- 6.67 -1.38  - 29.6 -10.3   1988 MG     13458   - 9.28 +0.63  - 66.3   0.0
1992 10 25    01 29.22   +13 55.9    1.193    2.183   172.5     3.4    16.4

1992 09 25    01 54.47   +04 45.5    1.154    2.099   153.2    12.4    17.8
- 5.12 -1.41  - 42.7 - 4.5   4314 T-2    15729   - 8.65 +0.43  - 35.3 + 7.3
1992 10 25    01 30.41   +02 26.7    1.082    2.064   168.0     5.8    17.3

1992 09 25    01 56.22   +16 11.9    1.487    2.404   149.3    12.3    18.0
- 6.06 -1.22  - 46.7 - 9.6   1978 SU5    10536   - 8.93 +0.41  - 81.3 - 0.1
1992 10 25    01 30.72   +12 42.3    1.406    2.396   173.1     2.9    17.4

1992 09 25    01 57.10   +14 11.8    1.754    2.670   150.0    10.8    17.9
- 6.58 -1.12  - 27.3 - 7.0   1989 YH1    16031   - 9.39 +0.31  - 52.8 - 0.2
1992 10 25    01 30.51   +11 59.2    1.649    2.639   173.0     2.6    17.4

1992 09 25    01 55.27   +09 52.4    1.018    1.960   151.9    13.9    16.3
- 5.12 -1.50  - 49.5 - 8.1   1975 TM2    15874   - 8.41 +0.58  - 60.6 + 5.5
1992 10 25    01 31.11   +06 41.9    0.986    1.974   171.2     4.4    15.8

1992 09 25    01 59.49   +27 22.4    1.874    2.738   142.5    12.9    16.8
- 7.07 -1.19  + 15.5 -10.1   1991 NX1    18828   -10.14 +0.32  - 45.4 - 8.1
1992 10 25    01 30.87   +26 34.1    1.758    2.728   164.1     5.7    16.4

1992 09 25    01 57.49   +15 54.0    1.859    2.768   149.2    10.7    18.2
- 6.24 -1.01  - 15.0 - 6.7   6073 P-L     7943   - 8.59 +0.33  - 41.8 - 1.1
1992 10 25    01 32.76   +14 18.6    1.794    2.784   173.3     2.4    17.8

1992 09 25    01 56.51   +17 46.0    1.609    2.519   148.5    12.0    15.3
- 5.02 -1.17  - 17.8 - 8.6   1989 BT     15419   - 8.27 +0.25  - 57.0 - 2.7
1992 10 25    01 33.94   +15 42.9    1.479    2.469   172.9     2.8    14.6

1992 09 25    01 57.10   +02 07.5    1.786    2.717   152.8     9.7    18.1
- 5.15 -0.96  - 88.0 - 3.0   1981 EA22   10618   - 7.36 +0.30  - 71.9 + 8.2
1992 10 25    01 36.01   -02 13.0    1.754    2.725   164.5     5.6    17.8

1992 09 25    01 58.15   +14 26.2    2.386    3.291   149.7     8.8    16.7
- 5.54 -0.80  - 21.7 - 5.1    (4891)     18611   - 7.48 +0.22  - 39.8 - 0.3
1992 10 25    01 36.77   +12 45.2    2.309    3.300   174.5     1.6    16.2

1992 09 25    01 58.49   +26 42.0    1.328    2.213   143.1    15.8    16.2
- 4.75 -1.34  - 40.4 -15.1   1988 VH     14199   - 7.80 +0.46  -112.7 - 5.8
1992 10 25    01 36.32   +22 35.3    1.268    2.251   168.2     5.2    15.7

1992 09 25    02 01.49   +23 29.0    2.049    2.924   144.5    11.5    17.6
- 5.98 -1.05    +3.4 - 8.2   1987 RT3    18812   - 8.90 +0.21  - 42.4 - 5.5
1992 10 25    01 36.87   +22 25.6    1.918    2.899   168.4     3.9    17.1

1992 09 25    02 03.61   +08 57.7    1.442    2.366   150.2    12.2    17.2
- 6.69 -1.20  - 52.2 - 5.4   1988 RR2    18114   - 9.11 +0.48  - 55.4 + 4.8
1992 10 25    01 36.80   +05 57.3    1.445    2.433   171.7     3.4    16.9

1992 09 25    02 05.05   +11 04.5    1.678    2.591   149.3    11.4    18.1
- 6.49 -1.13  - 58.6 - 6.5   1991 JL     18442   - 9.20 +0.34  - 71.4 + 3.1
1992 10 25    01 38.80   +07 31.8    1.627    2.617   173.2     2.6    17.6

1992 09 25    02 08.09   +08 15.7    1.421    2.340   149.3    12.6    17.1
- 7.10 -1.33  - 18.1 - 4.4    (4852)     18401   -10.32 +0.41  - 23.7 + 3.1
1992 10 25    01 38.74   +06 59.1    1.383    2.373   172.8     3.0    16.6
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1992 09 25    02 04.03   -02 12.2    1.116    2.051   150.9    13.7    15.9
- 4.98 -1.56  - 64.9 - 1.5    (4951)     18797   - 9.54 +0.30  - 28.4 +13.2
1992 10 25    01 38.83   -04 59.4    1.031    2.001   162.1     8.8    15.5

1992 09 25    02 04.62   +13 58.8    1.493    2.405   148.4    12.6    18.0
- 5.35 -1.32    -1.0 - 6.4   1981 EC21   11045   - 9.39 +0.19  - 28.1 - 1.3
1992 10 25    01 39.72   +13 05.7    1.365    2.357   175.2     2.0    17.3

1992 09 25    02 05.50   -07 39.9    2.334    3.238   149.6     9.0    18.0
- 6.08 -0.88  - 69.1 + 0.9   1990 FR     16436   - 8.55 +0.15  - 37.1 + 9.2
1992 10 25    01 41.66   -10 34.4    2.253    3.191   156.9     7.0    17.8

1992 09 25    02 03.24   +11 36.2    2.632    3.533   149.6     8.3    17.1
- 5.36 -0.75  - 26.0 - 3.9   1984 HP1    19017   - 7.33 +0.15  - 36.9 + 0.7
1992 10 25    01 42.55   +09 53.5    2.545    3.537   175.4     1.3    16.7

1992 09 25    02 05.01   +12 38.6    1.784    2.693   148.8    11.1    16.6
- 5.02 -1.07  - 32.4 - 6.1   1987 SQ1    19020   - 8.02 +0.20  - 51.3 + 0.8
1992 10 25    01 43.10   +10 20.2    1.690    2.683   175.7     1.6    16.0

1992 09 25    02 06.28   +14 27.0    0.813    1.746   147.9    17.8    15.2
- 2.66 -1.88  + 70.7 - 5.7   1984 UX     13857   - 8.75 +0.26  + 32.0 - 5.6
1992 10 25    01 45.21   +17 01.4    0.738    1.730   174.1     3.4    14.4

1992 09 25    02 04.99   +00 38.8    2.287    3.200   150.8     8.8    16.4
- 4.37 -0.82  - 83.5 - 2.3   1989 ES     18816   - 6.70 +0.12  - 70.3 + 6.7
1992 10 25    01 46.65   -03 28.6    2.210    3.178   164.1     4.9    16.1

1992 09 25    02 13.12   +09 54.5    1.815    2.716   147.7    11.4    17.7
- 6.34 -1.12  - 45.8 - 5.2   1991 JH1    18444   - 9.36 +0.23  - 55.2 + 2.8
1992 10 25    01 47.09   +07 08.3    1.753    2.744   174.2     2.1    17.2

1992 09 25    02 14.48   +00 09.0    1.600    2.510   148.5    12.1    16.2
- 6.21 -1.15  - 70.2 - 1.0   1991 GV1    18440   - 8.94 +0.33  - 43.9 + 9.2
1992 10 25    01 49.03   -03 00.9    1.617    2.589   164.6     5.8    16.1

1992 09 25    02 21.40   +17 25.9    1.434    2.317   143.4    15.0    17.4
- 6.65 -1.47    -7.8 - 8.3    (4990)     19279   -10.81 +0.28  - 45.7 - 2.6
1992 10 25    01 51.97   +15 55.2    1.380    2.373   175.9     1.7    16.8

1992 09 25    02 15.32   +07 41.8    1.266    2.181   147.6    14.2    17.0
- 4.01 -1.45  - 46.6 - 5.8   1984 SH6    18625   - 8.57 +0.15  - 51.1 + 5.1
1992 10 25    01 53.51   +04 55.1    1.188    2.178   172.6     3.4    16.4

1992 09 25    02 19.33   +06 24.8    1.354    2.261   146.9    14.0    17.9
- 5.02 -1.51  - 39.3 - 4.9   1989 YG8    16879   -10.24 +0.03  - 42.1 + 4.9
1992 10 25    01 53.61   +04 04.6    1.227    2.216   171.8     3.7    17.2

1992 09 25    02 23.47   +08 35.6    1.535    2.428   145.5    13.5    17.5
- 5.98 -1.37  - 15.2 - 4.1   1988 SY1    20502   -10.25 +0.14  - 22.0 + 2.4
1992 10 25    01 56.33   +07 27.8    1.461    2.453   175.3     1.9    16.9

1992 09 25    02 19.40   +11 06.8    1.660    2.553   145.9    12.7    17.9
- 4.65 -1.26  - 37.2 - 6.0   1979 MZ2    20010   - 8.90 +0.03  - 54.2 + 1.5
1992 10 25    01 56.71   +08 36.0    1.533    2.526   176.4     1.4    17.1

1992 10 25    02 00.64   +21 04.3    1.711    2.697   171.1     3.3    17.1
-10.52 +0.02  - 30.9 - 5.6   2480 T-3    12574   - 5.85 +1.33  - 37.1 + 3.6
1992 11 24    01 33.66   +19 05.2    1.834    2.707   145.7    11.9    17.7
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1992 10 25    02 02.93   +08 34.8    1.250    2.243   176.3     1.6    17.4
- 8.98 -0.09  - 62.8 + 1.4   1986 CS1    14022   - 4.19 +1.46  - 22.5 +10.4
1992 11 24    01 40.31   +06 10.2    1.331    2.203   143.2    15.6    18.2

1992 10 25    02 03.86   +22 11.0    1.470    2.455   169.9     4.1    16.7
-11.14 -0.07  - 33.6 - 7.2   1977 EO     11999   - 6.07 +1.51  - 44.4 + 3.8
1992 11 24    01 35.16   +19 53.4    1.567    2.449   146.1    13.0    17.2

1992 10 25    02 05.41   +06 25.5    2.258    3.248   174.1     1.8    17.4
- 7.54 -0.05  - 35.1 + 1.9   1987 WT1    19021   - 4.72 +0.89    -8.9 + 6.2
1992 11 24    01 45.28   +05 11.6    2.372    3.222   143.9    10.4    17.9

1992 10 25    02 06.42   +12 07.1    1.973    2.967   178.2     0.6    16.4
- 7.89 +0.03  - 45.1 - 0.1   1986 PW4    14618   - 4.34 +1.01  - 25.5 + 5.9
1992 11 24    01 46.26   +10 10.3    2.146    3.017   146.2    10.5    17.2

1992 10 25    02 07.10   +13 55.3    1.581    2.575   177.4     1.0    15.7
- 8.00 -0.09  - 34.5 - 1.6   1976 YP1     9962   - 4.19 +1.20  - 20.1 + 5.8
1992 11 24    01 46.44   +12 19.7    1.677    2.562   147.0    12.1    16.4

1992 10 25    02 07.33   -02 46.3    1.279    2.254   164.9     6.6    15.8
-10.57 +0.11  - 21.7 +10.0   1975 TH6    13463   - 4.97 +1.48  + 43.0 + 9.8
1992 11 24    01 41.52   -02 13.9    1.462    2.301   139.2    16.3    16.5

1992 10 25    02 07.71   +11 49.6    1.291    2.285   177.9     0.9    15.0
-11.09 +0.02  + 18.2 - 0.8   1975 TQ3    14184   - 5.56 +1.54  + 28.0 + 3.7
1992 11 24    01 39.94   +12 50.5    1.452    2.335   145.7    13.8    15.9

1992 10 25    02 07.70   +02 27.1    1.480    2.465   170.1     4.0    17.2
- 9.90 -0.03  - 54.8 + 5.5   1984 EG     18624   - 5.38 +1.33    -2.1 +10.3
1992 11 24    01 42.29   +00 53.0    1.618    2.465   141.1    14.6    17.8

1992 10 25    02 07.93   -06 25.7    1.405    2.368   161.3     7.7    15.1
- 9.87 +0.10    +7.2 +10.9   1988 XH1    18430   - 4.75 +1.36  + 69.3 + 8.3
1992 11 24    01 43.71   -04 26.1    1.596    2.423   138.3    15.7    15.7

1992 10 25    02 08.23   +13 24.6    2.541    3.535   177.4     0.7    16.5
- 7.44 -0.05  - 37.5 - 0.9   1991 PW12   19311   - 4.91 +0.82  - 26.9 + 4.2
1992 11 24    01 48.11   +11 38.4    2.654    3.524   147.2     8.7    17.0

1992 10 25    02 11.19   +57 18.3    1.197    2.025   134.8    20.4    17.9
-17.83 -0.75    +3.3 -31.4   1988 BJ     18288   - 8.23 +3.12 -148.1 -13.1
1992 11 24    01 24.89   +53 06.7    1.178    2.008   136.0    20.0    17.9

1992 10 25    02 08.71   -20 16.1    2.271    3.155   147.5     9.7    15.9
- 7.33 -0.01  - 36.7 +12.7   1990 HF1    18633   - 4.30 +0.91  + 39.2 +11.2
1992 11 24    01 49.57   -20 09.4    2.450    3.158   128.3    14.2    16.2

1992 10 25    02 10.10   +09 34.4    1.638    2.631   176.3     1.4    17.9
- 8.48 -0.10  - 35.1 + 0.9   1978 VD7    12696   - 4.79 +1.17    -9.3 + 6.9
1992 11 24    01 47.87   +08 16.8    1.751    2.627   145.8    12.2    18.5

1992 10 25    02 10.88   +22 05.6    1.952    2.935   169.7     3.5    15.6
- 7.91 -0.11  - 59.4 - 5.6    (4958)     18800   - 4.71 +1.05  - 65.1 + 3.8
1992 11 24    01 49.80   +18 41.4    2.022    2.916   149.4     9.9    16.0

1992 10 25    02 12.43   +31 21.5    2.165    3.120   160.5     6.1    16.1
- 8.76 -0.05  - 42.6 - 8.7   1986 WM5    19861   - 5.22 +1.08  - 68.6 + 0.6
1992 11 24    01 49.38   +28 17.5    2.282    3.172   149.4     9.1    16.4
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1992 10 25	02 16.04	+22 54.0	1.404	2.386	168.5	4.8	16.0
-10.97 -0.20	- 45.6 - 8.0	1982 RM1	13448	- 6.34 +1.50		- 57.8 + 4.2	
1992 11 24	01 46.93	+19 56.1	1.493	2.393	148.9	12.3	16.5
1992 10 25	02 15.51	+07 12.0	2.194	3.184	173.6	2.0	16.5
- 7.71 -0.13	- 38.5 + 1.5	1991 PS6	19311	- 5.18 +0.88		- 13.2 + 6.2	
1992 11 24	01 54.31	+05 45.8	2.294	3.162	146.1	10.0	17.0
1992 10 25	02 20.93	+18 33.5	1.008	1.997	171.7	4.1	14.9
-10.86 -0.07	- 43.8 - 5.3	1985 RE2	14193	- 4.78 +1.71		- 35.8 + 7.0	
1992 11 24	01 54.21	+16 11.3	1.168	2.082	149.9	13.8	15.7
1992 10 25	02 20.22	+11 28.3	1.843	2.835	174.8	1.8	16.8
- 7.80 -0.21	- 34.8 - 0.3	1991 PO2	19310	- 5.09 +1.00		- 17.0 + 5.7	
1992 11 24	01 58.65	+09 59.4	1.925	2.817	149.0	10.4	17.3
1992 10 25	02 21.70	-10 55.4	1.134	2.083	156.3	11.1	15.6
- 9.10 -0.26	-5.6 +16.2	1990 FT1	16587	- 4.74 +1.46		+ 90.4 +13.1	
1992 11 24	01 57.78	-08 42.2	1.236	2.078	138.1	18.5	16.0
1992 10 25	02 23.02	+07 33.9	1.402	2.392	172.5	3.1	16.4
- 9.31 -0.32	- 65.8 + 1.6	1985 VE	19019	- 5.92 +1.28		- 26.5 +10.1	
1992 11 24	01 57.22	+04 59.8	1.472	2.359	146.4	13.4	17.0
1992 10 25	02 25.58	+20 26.4	1.005	1.991	169.5	5.2	15.8
- 8.44 -0.44	- 61.7 - 8.1	2141 T-3	20518	- 4.22 +1.59		- 63.9 + 7.2	
1992 11 24	02 02.82	+16 49.6	1.061	1.988	152.1	13.5	16.3
1992 10 25	02 26.11	+10 11.5	1.340	2.331	173.1	2.9	16.2
- 7.83 -0.23	- 93.4 + 1.0	1983 RT4	17202	- 4.28 +1.22		- 51.4 +11.2	
1992 11 24	02 05.28	+06 15.6	1.465	2.365	148.8	12.5	16.8
1992 10 25	02 27.46	+01 31.4	0.974	1.956	167.3	6.4	16.4
-10.15 -0.49	+3.1 + 8.3	1985 UG5	12321	- 5.89 +1.65		+ 63.7 + 9.8	
1992 11 24	01 59.46	+03 09.0	1.043	1.941	145.9	16.6	16.9
1992 10 25	02 27.85	+09 40.1	1.591	2.580	172.5	2.9	17.9
- 9.52 -0.32	- 43.1 + 0.5	4074 T-3	15908	- 6.54 +1.17		- 17.2 + 7.4	
1992 11 24	02 01.00	+07 57.0	1.672	2.567	148.6	11.5	18.4
1992 10 25	02 28.96	+36 21.8	2.009	2.940	154.9	8.3	16.3
- 9.93 -0.26	- 52.8 -12.1	(4937)	18791	- 6.65 +1.19		- 97.0 - 1.3	
1992 11 24	02 01.40	+32 16.9	2.062	2.965	151.1	9.2	16.4
1992 10 25	02 29.09	+14 59.7	1.669	2.658	172.2	2.9	16.0
- 8.02 -0.24	- 35.7 - 1.9	1981 VK	14783	- 5.12 +1.07		- 25.0 + 5.1	
1992 11 24	02 06.97	+13 15.7	1.789	2.701	152.1	9.9	16.6
1992 10 25	02 29.90	+33 41.9	2.214	3.155	157.3	7.0	17.7
- 8.51 -0.35	- 37.1 -10.0	1983 CO3	15708	- 6.36 +0.98		- 77.0 - 2.0	
1992 11 24	02 05.13	+30 35.9	2.201	3.109	152.4	8.5	17.8
1992 10 25	02 30.78	+12 57.5	2.373	3.361	172.2	2.3	16.8
- 7.61 -0.21	- 33.4 - 0.8	1991 NL1	18828	- 5.66 +0.79		- 22.5 + 4.2	
1992 11 24	02 09.04	+11 24.4	2.476	3.379	151.9	7.9	17.2
1992 10 25	02 32.75	-06 23.3	1.946	2.899	159.7	6.8	16.3
- 8.72 -0.29	- 34.8 + 8.1	1990 FD1	18820	- 6.48 +0.94		+ 24.8 +10.2	
1992 11 24	02 07.68	-06 42.1	2.042	2.879	141.2	12.4	16.6

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1992 10 25    02 31.80   -00 24.0    2.549    3.519   165.1     4.2    16.6
- 6.98 -0.19  - 71.0 + 4.2   1979 FA3    16576   - 5.27 +0.70  - 29.9 + 8.5
1992 11 24    02 11.79   -03 03.2    2.674    3.525   144.5     9.4    17.0

1992 10 25    02 37.15   +44 04.1    1.354    2.254     +2.60   +10.4  16.7
-12.01 -0.63  + 18.9 -20.2   1987 QM     15414   - 7.43 +1.83  - 73.9 - 7.4
1992 11 24    02 03.45   +42 17.6    1.439    2.332     +2.31   +13.3  16.9

1992 10 25    02 35.20   +17 42.4    2.240    3.223   169.6     3.2    16.1
- 8.95 -0.33    -5.0 - 2.9   1987 VA1    18428   - 7.11 +0.87    -9.2 + 1.8
1992 11 24    02 08.90   +17 12.5    2.304    3.218   153.6     7.8    16.4

1992 10 25    02 35.87   +15 31.7    2.514    3.498   170.4     2.7    16.5
- 7.57 -0.23  - 34.5 - 1.7   1989 BR1    19024   - 5.83 +0.74  - 29.4 + 3.4
1992 11 24    02 13.99   +13 46.5    2.616    3.529   153.8     7.1    16.8

1992 10 25    02 38.73   -26 28.6    0.964    1.841     +3.31    +7.6  15.8
- 9.78 -0.54  -128.0 +31.5   1991 CZ     18437   - 5.50 +1.65  + 57.6 +25.4
1992 11 24    02 11.78   -28 02.4    1.095    1.846     +2.90    +1.5  16.2

1992 10 25    02 39.15   +07 58.4    1.426    2.410   169.3     4.4    17.2
-10.16 -0.33  - 61.3 + 2.2   1985 PQ     18426   - 6.81 +1.26  - 22.4 + 9.4
1992 11 24    02 10.77   +05 39.7    1.559    2.462   149.6    11.7    17.7

1992 10 25    02 39.29   +06 55.8    1.307    2.290   168.8     4.8    16.3
- 9.72 -0.42  - 57.3 + 2.8   1975 VW2    18281   - 6.52 +1.30  - 14.1 +10.0
1992 11 24    02 11.77   +04 55.4    1.415    2.320   149.4    12.5    16.8

1992 10 25    02 38.59   +16 17.8    1.061    2.047   169.6     5.1    16.0
- 9.12 -0.64  - 66.0 - 5.0   1982 UT5    15882   - 5.98 +1.49  - 53.9 + 8.6
1992 11 24    02 12.01   +12 52.5    1.104    2.034   153.1    12.7    16.4

1992 10 25    02 40.11   +07 16.6    1.530    2.513   168.8     4.4    17.3
- 8.01 -0.47  - 44.5 + 1.8   3145 T-2    14968   - 5.96 +1.05  - 10.7 + 8.4
1992 11 24    02 16.35   +05 41.5    1.586    2.495   150.8    11.1    17.7

1992 10 25    02 41.63   +25 27.0    1.443    2.412   163.3     6.8    16.2
- 9.83 -0.46  - 68.5 - 9.4   1991 JD1    18639   - 6.74 +1.30  - 86.8 + 3.9
1992 11 24    02 13.51   +21 09.2    1.515    2.446   155.2     9.8    16.5

1992 10 25    02 45.05   -30 42.9    1.159    1.995   135.7    20.4    17.8
-12.43 -0.64  - 19.8 +28.1   1948 AG     13169   - 8.39 +1.69  +141.8 +21.3
1992 11 24    02 09.51   -27 26.8    1.230    1.970   125.1    24.2    18.1

1992 10 25    02 42.20   +22 51.5    2.058    3.029   165.2     4.8    16.6
- 8.97 -0.40    -6.6 - 5.3   1976 SK3    18802   - 7.11 +0.93  - 23.3 + 0.4
1992 11 24    02 15.62   +21 56.2    2.127    3.054   155.7     7.6    16.8

1992 10 25    02 44.25   +40 04.2    1.940    2.847   150.3     9.9    16.4
- 9.67 -0.48  - 15.9 -13.2   1986 PN4    14786   - 7.12 +1.18  - 74.7 - 4.5
1992 11 24    02 15.98   +37 32.2    1.997    2.905   151.8     9.2    16.4

1992 10 25    02 42.82   +04 09.2    0.982    1.962   166.5     6.8    15.9
- 7.27 -0.78  - 63.3 + 4.2   1979 MB2    14014   - 5.22 +1.36    -0.8 +14.3
1992 11 24    02 20.11   +02 14.3    0.989    1.907   149.5    15.2    16.2

1992 10 25    02 48.97   -25 52.9    1.157    2.023   140.1    18.4    15.5
-12.79 -0.55    -5.9 +25.7    (4713)     17618   - 8.53 +1.66  +136.4 +17.7
1992 11 24    02 12.92   -22 21.8    1.262    2.040   129.8    21.8    15.8
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1992 10 25	02 46.20	+00 42.4	2.313	3.279	163.6	4.9	16.2
- 7.18 -0.32	- 41.5 + 4.0	1991 NK1	19028	- 5.89 +0.70		-3.6 + 7.7	
1992 11 24	02 24.70	-00 31.9	2.404	3.287	148.6	9.0	16.5
1992 10 25	02 48.54	+21 17.3	1.653	2.626	165.0	5.6	16.4
- 8.25 -0.60	- 29.1 - 5.8	1989 AE7	15894	- 6.84 +1.01		- 42.5 + 2.1	
1992 11 24	02 22.92	+19 15.1	1.662	2.600	157.2	8.5	16.6
1992 10 25	02 49.75	+24 25.8	1.465	2.433	162.8	6.9	16.8
- 9.29 -0.73	+9.4 - 7.4	2285 T-2	15571	- 7.66 +1.19		- 19.9 - 0.9	
1992 11 24	02 20.79	+23 57.9	1.488	2.427	156.9	9.2	16.9
1992 10 25	02 49.02	+28 10.7	1.062	2.026	160.2	9.6	14.8
- 7.58 -0.90	- 48.6 -13.8	1988 VZ2	14027	- 5.68 +1.43		- 94.4 + 1.0	
1992 11 24	02 24.81	+24 08.8	1.047	1.997	157.8	10.8	14.8
1992 10 25	02 50.89	+08 49.8	1.467	2.446	166.8	5.3	17.2
- 9.85 -0.58	- 43.6 + 1.0	1991 KA	18640	- 7.80 +1.15		- 14.0 + 8.0	
1992 11 24	02 21.23	+07 10.5	1.538	2.457	152.6	10.6	17.6
1992 10 25	02 49.94	+16 05.0	1.593	2.572	167.0	5.0	16.0
- 8.20 -0.53	- 25.0 - 2.8	1982 UD2	18422	- 6.48 +1.01		- 21.3 + 4.0	
1992 11 24	02 25.07	+14 42.9	1.658	2.595	156.7	8.7	16.3
1992 10 25	02 52.02	+17 24.8	0.980	1.960	166.2	7.0	15.4
- 9.97 -0.69	-195.8 - 7.9	1986 JQ	18110	- 6.61 +1.54		-154.7 +18.9	
1992 11 24	02 23.02	+07 49.0	1.053	1.986	153.3	12.9	15.9
1992 10 25	02 54.07	+27 27.4	1.629	2.586	160.0	7.6	18.2
-10.93 -0.81	-1.1 - 9.1	1980 EF	18804	- 9.64 +1.17		- 40.1 - 2.0	
1992 11 24	02 19.54	+26 12.5	1.623	2.558	156.3	8.9	18.2
1992 10 25	02 51.66	+12 38.1	1.755	2.734	167.1	4.6	16.7
- 7.92 -0.51	- 54.6 - 1.3	(5087)	19827	- 6.52 +0.90		- 38.3 + 6.3	
1992 11 24	02 27.42	+10 04.6	1.808	2.736	155.4	8.6	17.0
1992 10 25	02 53.91	+23 04.6	1.699	2.665	163.0	6.3	18.3
- 8.59 -0.71	- 39.4 - 7.2	1981 ER6	10158	- 7.72 +0.96		- 60.4 + 1.3	
1992 11 24	02 26.36	+20 19.1	1.664	2.606	158.1	8.1	18.3
1992 10 25	02 53.55	+16 19.4	1.162	2.141	166.1	6.4	15.5
- 7.66 -0.63	-116.1 - 4.2	1988 VB5	14201	- 5.39 +1.22		- 90.5 +11.5	
1992 11 24	02 30.56	+10 40.2	1.245	2.186	156.4	10.4	15.8
1992 10 25	02 53.29	+11 37.9	2.167	3.143	166.7	4.2	17.3
- 7.87 -0.39	- 55.8 - 0.5	(5243)	20326	- 6.59 +0.76		- 39.0 + 5.7	
1992 11 24	02 29.48	+09 04.2	2.250	3.174	155.4	7.5	17.6
1992 10 25	02 53.44	+14 54.6	2.112	3.088	166.5	4.3	17.6
- 7.30 -0.42	- 58.8 - 2.1	2093 P-L	15726	- 6.15 +0.75		- 49.7 + 5.0	
1992 11 24	02 31.10	+11 58.9	2.170	3.103	157.1	7.1	17.8
1992 10 25	02 57.79	+19 05.0	0.915	1.891	164.3	8.2	16.1
- 9.14 -1.02	- 13.1 - 6.4	1985 RU2	11420	- 7.06 +1.55		- 22.9 + 3.9	
1992 11 24	02 28.73	+17 51.8	0.958	1.910	158.3	11.0	16.3
1992 10 25	02 57.98	+30 16.2	1.888	2.832	157.3	7.8	16.2
- 8.70 -0.71	+0.4 - 8.7	1991 PO14	19869	- 7.97 +0.93		- 40.1 - 3.1	
1992 11 24	02 29.94	+29 06.3	1.872	2.812	157.9	7.6	16.2

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1992 10 25    02 57.26   +21 29.1    1.825    2.792   163.2     5.9    16.3
- 8.06 -0.56  - 21.1 - 5.0   1986 RD5    16872   - 6.85 +0.89  - 33.5 + 1.5
1992 11 24    02 32.22   +19 55.2    1.879    2.825   159.4     7.0    16.4

1992 10 25    02 56.71   +12 20.3    2.039    3.013   165.9     4.6    16.3
- 7.70 -0.43  - 37.2 - 0.6    (5055)     19665   - 6.46 +0.78  - 23.3 + 4.9
1992 11 24    02 33.24   +10 39.5    2.131    3.064   156.9     7.3    16.6

1992 10 25    02 56.83   +14 31.6    1.046    2.024   165.7     6.9    16.1
- 7.53 -0.91  - 70.9 - 4.0   1988 SH1    16582   - 6.18 +1.27  - 53.3 + 9.4
1992 11 24    02 32.23   +11 00.3    1.060    2.006   156.9    11.1    16.3

1992 10 25    03 13.15   +42 13.0    1.075    1.979   145.9    16.4    16.5
-14.55 -2.19 +110.6 -18.2    (4898)     18613   -15.71 +2.00  - 22.1 -18.5
1992 11 24    02 19.90   +44 26.8    1.038    1.949   148.4    15.4    16.4

1992 10 25    03 02.55   +13 24.2    1.506    2.479   164.5     6.2    16.3
- 7.59 -0.69  - 51.9 - 1.7   1978 SP5    15403   - 6.64 +0.94  - 36.3 + 6.6
1992 11 24    02 38.21   +10 56.6    1.549    2.493   158.1     8.5    16.5

1992 10 25    03 18.36   +09 35.0    0.978    1.944   160.4     9.9    14.5
-15.69 -1.88 +115.0 + 6.8   1957 VA     18279   -16.66 +1.66 +127.1 - 2.2
1992 11 24    02 23.22   +15 55.4    0.958    1.905   156.6    11.9    14.5

1992 10 25    03 09.18   +15 51.5    1.134    2.104   162.6     8.1    18.5
- 8.92 -1.04  - 19.4 - 3.3   6624 P-L     9303   - 8.22 +1.22  - 16.1 + 4.7
1992 11 24    02 39.28   +14 43.4    1.157    2.111   159.9     9.2    18.6

1992 10 25    03 09.39   +13 45.6    1.419    2.387   162.8     7.1    16.7
- 9.24 -0.75  - 69.5 - 2.1   1985 RK6    14193   - 8.03 +1.06  - 50.9 + 7.8
1992 11 24    02 40.13   +10 26.5    1.486    2.431   158.3     8.6    16.9

1992 10 25    03 07.71   +16 53.2    1.604    2.570   162.7     6.6    16.1
- 7.99 -0.71  - 42.1 - 3.4   1981 EL21   10308   - 7.25 +0.90  - 39.6 + 4.4
1992 11 24    02 41.86   +14 36.3    1.646    2.597   160.5     7.3    16.2

1992 10 25    03 20.71   +33 03.7    1.110    2.042   152.0    13.2    16.0
-14.70 -1.90 +108.8 -12.7   1991 GB1    18636   -15.57 +1.72  + 12.5 -13.5
1992 11 24    02 28.53   +36 07.4    1.110    2.046   154.7    11.9    16.0

1992 10 25    03 06.42   +09 09.2    2.227    3.192   163.2     5.2    16.7
- 6.78 -0.48  - 59.4 + 0.5   1980 PB2    14015   - 6.25 +0.63  - 37.4 + 6.4
1992 11 24    02 44.83   +06 33.2    2.289    3.221   157.0     6.9    16.9

1992 10 25    03 10.02   +20 50.5    1.097    2.063   160.9     9.1    18.2
- 8.26 -1.05  - 49.6 - 7.6   2091 P-L     9297   - 7.47 +1.23  - 61.3 + 4.6
1992 11 24    02 42.18   +17 41.4    1.120    2.080   161.4     8.7    18.2

1992 10 25    03 09.35   +24 59.1    2.093    3.043   159.0     6.7    16.7
- 7.55 -0.61  - 42.2 - 6.3   1989 CW2    18631   - 7.10 +0.73  - 61.8 + 0.6
1992 11 24    02 44.91   +22 10.3    2.105    3.061   162.5     5.6    16.7

1992 10 25    03 08.81   +15 47.3    1.575    2.542   162.7     6.7    16.0
- 7.16 -0.75  - 21.6 - 2.4   1975 SK     19855   - 6.80 +0.84  - 18.2 + 3.7
1992 11 24    02 44.91   +14 36.2    1.599    2.554   161.2     7.2    16.1

1992 10 25    03 12.23   -13 17.7    1.888    2.786   148.8    10.7    17.3
- 8.46 -0.60  - 90.6 +11.3   1987 DF     17820   - 7.76 +0.79    -4.3 +15.1
1992 11 24    02 45.33   -15 47.1    1.997    2.820   139.3    13.2    17.5
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1992 10 25	03 10.52	+00 33.1	1.055	2.014	158.8	10.3	16.8
- 6.90 -0.90	-117.3 + 7.7	1988 RK	20502	- 6.00 +1.10		- 29.8	+18.0
1992 11 24	02 47.47	-03 26.8	1.135	2.051	150.1	13.9	17.1
1992 10 25	03 16.18	+32 04.1	2.073	2.995	153.3	8.6	17.6
- 9.96 -0.86	+ 19.4 - 8.4	1986 EJ1	11855	-10.09 +0.82		- 26.7	- 5.1
1992 11 24	02 42.99	+31 46.9	2.059	3.004	159.5	6.6	17.5
1992 10 25	03 12.26	+19 01.6	1.764	2.724	161.1	6.8	16.5
- 7.86 -0.73	- 22.0 - 3.9	1977 RW6	19856	- 7.57 +0.80		- 28.9	+ 2.1
1992 11 24	02 46.28	+17 34.1	1.788	2.745	162.4	6.3	16.5
1992 10 25	03 13.39	+24 01.2	1.318	2.273	158.8	9.1	17.0
- 7.50 -1.06	- 27.2 - 8.3	1981 EO8	10614	- 7.80 +0.99		- 56.0	+ 0.4
1992 11 24	02 46.64	+21 40.3	1.282	2.244	162.9	7.4	16.8
1992 10 25	03 15.24	+25 00.6	1.833	2.779	157.9	7.7	17.6
- 9.15 -0.74	-4.4 - 6.4	1981 ED43	18420	- 8.57 +0.88		- 30.0	- 1.0
1992 11 24	02 45.68	+23 58.9	1.889	2.846	162.5	6.0	17.6
1992 10 25	03 16.89	+24 36.0	1.600	2.549	157.8	8.5	17.6
- 9.62 -0.98	+1.0 - 6.9	2390 T-3	12701	- 9.70 +0.95		- 28.9	- 1.5
1992 11 24	02 44.34	+23 44.2	1.594	2.553	162.2	6.8	17.6
1992 10 25	03 16.46	+28 59.5	1.460	2.400	155.3	10.0	16.9
- 9.31 -0.98	- 25.0 -10.3	1142 T-3	15907	- 8.86 +1.08		- 67.1	- 1.6
1992 11 24	02 45.38	+26 25.2	1.475	2.433	162.0	7.2	16.8
1992 10 25	03 17.46	+28 26.4	1.100	2.047	155.5	11.6	17.0
- 9.70 -1.16	- 21.3 -12.1	1985 SL3	14194	- 8.69 +1.38		- 67.2	- 0.8
1992 11 24	02 45.16	+25 52.6	1.148	2.109	162.1	8.3	17.0
1992 10 25	03 14.24	+05 37.2	1.203	2.165	160.3	8.9	16.2
- 7.26 -1.03	- 66.6 + 2.2	1982 BS1	10832	- 7.52 +0.96		- 19.1	+12.2
1992 11 24	02 48.39	+03 10.2	1.194	2.132	155.4	11.1	16.2
1992 10 25	03 13.38	+15 09.8	1.753	2.715	161.7	6.6	16.4
- 7.38 -0.67	- 32.9 - 1.9	1981 UT7	14473	- 6.93 +0.78		- 26.2	+ 4.2
1992 11 24	02 49.24	+13 29.8	1.814	2.769	161.7	6.4	16.5
1992 10 25	03 17.13	+21 24.5	1.524	2.479	159.2	8.2	18.5
- 8.64 -1.02	- 26.8 - 6.2	2610 T-3	17220	- 9.19 +0.88		- 46.0	+ 1.1
1992 11 24	02 46.86	+19 21.7	1.477	2.438	162.8	6.9	18.3
1992 10 25	03 15.88	-04 23.4	1.747	2.680	154.7	9.1	18.1
- 8.41 -0.65	- 33.9 + 7.8	1978 OP	11338	- 7.80 +0.81		+ 26.3	+10.6
1992 11 24	02 48.88	-04 40.0	1.834	2.730	149.3	10.6	18.3
1992 10 25	03 16.33	-04 28.4	1.813	2.744	154.6	8.9	16.6
- 8.22 -0.60	- 76.9 + 7.7	1987 KD1	18427	- 7.49 +0.78		- 10.9	+12.4
1992 11 24	02 50.22	-06 48.6	1.933	2.817	147.7	10.8	16.9
1992 10 25	03 20.26	+27 50.6	1.559	2.498	155.4	9.6	17.6
-10.05 -1.01	- 12.7 - 9.1	1985 SJ3	14194	- 9.94 +1.03		- 52.5	- 2.1
1992 11 24	02 46.50	+25 59.9	1.565	2.524	162.3	6.8	17.5
1992 10 25	03 16.22	+15 29.0	1.402	2.364	161.0	7.9	17.2
- 7.31 -0.93	- 24.2 - 2.6	1978 VK8	13603	- 7.47 +0.88		- 19.7	+ 4.3
1992 11 24	02 50.70	+14 10.5	1.406	2.366	162.3	7.3	17.1

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1992 10 25    03 19.28   +18 53.9    1.813    2.767   159.5     7.2    17.8
- 8.99 -0.86  - 18.9 - 4.0   3297 T-2    18133   - 9.31 +0.77  - 28.2 + 1.6
1992 11 24    02 48.83   +17 32.9    1.795    2.754   163.0     6.0    17.7

1992 10 25    03 17.94   +22 18.0    1.221    2.177   158.6     9.6    15.4
- 6.47 -1.03  - 59.2 - 7.9   1989 CL3    15562   - 6.55 +0.97  - 74.3 + 3.9
1992 11 24    02 54.71   +18 35.9    1.233    2.201   164.5     6.9    15.3

1992 10 25    03 20.19   +19 01.5    1.927    2.879   159.3     7.0    17.2
- 7.38 -0.76  - 30.6 - 3.8   1991 PE5    19310   - 7.73 +0.66  - 37.6 + 2.0
1992 11 24    02 54.90   +17 08.4    1.915    2.878   164.3     5.3    17.1

1992 10 25    03 20.54   +14 55.2    1.607    2.564   160.0     7.6    17.1
- 6.77 -0.83  - 27.6 - 1.9   1975 UF     12004   - 7.05 +0.74  - 21.1 + 4.2
1992 11 24    02 56.92   +13 30.8    1.626    2.588   163.4     6.3    17.1

1992 10 25    03 24.54   +18 38.1    1.797    2.746   158.4     7.7    16.5
- 7.59 -0.90  - 20.5 - 3.7   1989 AN1    14358   - 8.48 +0.65  - 28.6 + 1.7
1992 11 24    02 57.57   +17 14.5    1.752    2.717   164.9     5.4    16.3

1992 10 25    03 28.81   +22 53.4    1.852    2.790   156.1     8.3    17.1
- 8.87 -0.91    +1.5 - 5.0   1975 SF1    18281   - 9.46 +0.73  - 20.0 - 1.0
1992 11 24    02 58.28   +22 18.2    1.856    2.822   165.6     5.0    17.0

1992 10 25    03 30.20   +14 43.5    1.418    2.368   157.7     9.2    15.7
- 9.17 -1.17  + 28.9 - 0.6   1988 VP     14025   -10.35 +0.84  + 29.4 + 1.3
1992 11 24    02 57.19   +16 07.5    1.406    2.372   164.5     6.4    15.6

1992 10 25    03 30.65   +30 48.5    1.696    2.615   151.8    10.4    17.9
- 9.54 -0.94  - 88.3 -11.5   1978 VB6    18619   - 9.41 +0.93  -128.1 + 0.4
1992 11 24    02 58.76   +25 01.8    1.694    2.660   165.2     5.4    17.7

1992 10 25    03 25.82   +14 11.4    1.922    2.871   158.8     7.2    17.2
- 7.01 -0.80  - 30.8 - 1.7   1982 VY2    17433   - 7.77 +0.58  - 24.8 + 3.8
1992 11 24    03 01.10   +12 38.0    1.896    2.858   163.8     5.5    17.1

1992 10 25    03 26.21   +16 59.4    1.625    2.576   158.4     8.2    16.2
- 6.45 -0.93  - 27.6 - 3.1   1981 UB1    13152   - 7.44 +0.65  - 29.1 + 3.1
1992 11 24    03 02.46   +15 22.7    1.593    2.561   165.4     5.6    16.0

1992 10 25    03 27.80   +13 07.0    1.763    2.712   158.3     7.8    17.6
- 7.89 -0.76  - 52.8 - 1.1    (4883)     18608   - 7.90 +0.73  - 37.9 + 5.8
1992 11 24    03 01.37   +10 38.4    1.828    2.787   162.8     6.0    17.6

1992 10 25    03 31.11   +10 23.4    1.698    2.644   157.4     8.3    17.3
- 8.22 -0.94  - 37.4 - 0.1   4045 T-3    19884   - 9.12 +0.67  - 18.8 + 6.1
1992 11 24    03 02.12   +08 47.7    1.687    2.643   161.8     6.7    17.3

1992 10 25    03 34.74   +17 07.3    1.451    2.396   156.3     9.6    16.9
- 9.43 -1.13    +1.1 - 2.8   1991 JU     18442   -10.27 +0.87   - 4.7 + 1.6
1992 11 24    03 01.49   +16 53.8    1.468    2.437   165.7     5.7    16.8

1992 10 25    03 30.09   +15 32.2    1.917    2.861   157.7     7.6    16.2
- 7.29 -0.84  - 23.5 - 2.0   1991 PH8    19506   - 8.18 +0.57  - 21.6 + 3.0
1992 11 24    03 04.26   +14 15.3    1.898    2.864   165.3     5.0    16.1

1992 10 25    03 34.23   +19 36.4    1.384    2.327   156.0    10.0    16.0
- 8.83 -1.11  - 14.6 - 4.6    (4913)     18782   - 9.40 +0.91  - 25.9 + 1.7
1992 11 24    03 03.15   +18 24.1    1.420    2.391   166.5     5.5    15.9
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1992 10 25	03 33.31	+06 53.1	1.007	1.958	156.2	11.8	13.7
- 7.40 -1.25	-5.4 + 4.2	(5176)	19999	- 7.96 +1.03	+ 34.3 + 7.8		
1992 11 24	03 06.04	+07 29.9	1.070	2.031	161.5	8.9	13.8
1992 10 25	03 32.58	+09 24.8	1.595	2.540	156.9	8.8	17.2
- 7.24 -0.84	- 79.4 + 0.7	2150 T-2	16037	- 7.54 +0.72	- 47.4 + 9.1		
1992 11 24	03 07.52	+05 59.0	1.664	2.616	160.7	7.2	17.3
1992 10 25	03 38.61	+29 14.8	1.941	2.853	151.2	9.7	17.6
- 8.49 -1.07	-5.2 - 7.5	1987 QS1	16025	-10.13 +0.60	- 45.0 - 4.0		
1992 11 24	03 07.60	+27 53.1	1.870	2.838	166.0	4.8	17.2
1992 10 25	03 53.54	+52 42.0	0.944	1.781	+4.86	+17.8	16.7
-11.34 -3.58	+232.3 -20.7	1981 TK	6951	-20.63 +1.77	+ 37.2 -34.8		
1992 11 24	02 55.59	+59 53.3	0.948	1.813	+5.57	+28.3	16.7
1992 10 25	03 37.24	+15 58.2	1.697	2.636	155.9	8.9	18.4
- 7.72 -1.06	- 37.5 - 3.1	1990 DK3	18819	- 9.44 +0.57	- 38.1 + 3.5		
1992 11 24	03 08.46	+13 52.5	1.632	2.601	166.0	5.3	18.1
1992 10 25	03 41.72	+16 11.8	1.058	2.003	154.8	12.2	15.9
- 9.22 -1.44	+4.3 - 2.5	1982 VA1	18283	-10.33 +1.09	+2.1 + 2.4		
1992 11 24	03 07.69	+16 12.3	1.098	2.071	166.9	6.2	15.8
1992 10 25	03 39.76	+00 18.6	1.667	2.589	+1.22	+8.9	16.8
- 8.72 -0.93	- 29.1 + 5.5	1991 GE2	18636	- 9.46 +0.70	+ 19.9 + 9.5		
1992 11 24	03 09.48	-00 02.5	1.711	2.644	+1.23	+8.4	16.9
1992 10 25	03 42.47	+22 00.6	1.163	2.100	153.4	12.2	16.2
- 7.53 -1.37	- 25.0 - 6.6	1988 TD	13687	- 9.06 +0.90	- 44.6 + 1.4		
1992 11 24	03 13.36	+20 01.4	1.181	2.158	169.1	5.0	15.9
1992 10 25	03 44.22	-25 30.6	1.528	2.335	134.5	17.7	14.7
- 8.36 -1.13	- 33.9 +18.0	1991 LE1	20023	- 9.49 +0.77	+ 91.6 +20.3		
1992 11 24	03 13.92	-24 08.0	1.558	2.353	133.9	17.6	14.7
1992 10 25	03 40.02	+19 51.1	2.306	3.232	154.6	7.6	17.4
- 6.86 -0.75	- 18.4 - 3.0	1986 TB5	18811	- 7.87 +0.45	- 26.7 + 0.8		
1992 11 24	03 15.72	+18 36.3	2.303	3.279	169.4	3.2	17.2
1992 10 25	03 48.09	+38 19.2	2.004	2.871	144.3	11.7	16.5
- 9.69 -1.28	+ 68.2 - 9.3	1991 QE	19033	-11.93 +0.65	+1.9 -10.4		
1992 11 24	03 12.09	+40 06.5	1.998	2.937	158.0	7.2	16.4
1992 10 25	03 39.50	+16 39.9	2.456	3.385	155.3	7.1	18.0
- 6.69 -0.70	- 24.7 - 1.9	1989 EH6	20503	- 7.69 +0.40	- 25.6 + 1.9		
1992 11 24	03 15.90	+15 17.2	2.443	3.416	168.3	3.4	17.8
1992 10 25	03 45.40	+21 09.2	1.464	2.393	153.0	10.9	16.9
- 8.37 -1.17	- 45.4 - 5.7	1991 HH	18441	- 9.63 +0.78	- 58.4 + 2.4		
1992 11 24	03 14.80	+18 18.4	1.479	2.456	169.1	4.3	16.7
1992 10 25	03 40.39	+02 32.8	2.335	3.253	153.1	7.9	17.1
- 6.65 -0.74	- 66.0 + 2.1	(5010)	19287	- 7.86 +0.37	- 33.0 + 8.2		
1992 11 24	03 16.58	-00 06.8	2.309	3.239	156.8	6.9	17.0
1992 10 25	03 47.08	+12 48.1	1.466	2.398	153.6	10.6	16.6
- 8.54 -1.21	- 35.2 - 1.1	1991 HD	18302	-10.32 +0.69	- 22.4 + 5.5		
1992 11 24	03 15.26	+11 09.6	1.457	2.426	165.7	5.8	16.4

1992 10 25	03 40.81	+18 43.4	2.072	3.000	154.6	8.2	16.5
- 6.01 -0.87	- 38.0 - 3.5	1989 GB1	16877	- 7.61 +0.40		- 45.0 + 1.8	
1992 11 24	03 18.04	+16 29.0	2.001	2.977	169.3	3.5	16.2
1992 10 25	03 43.36	+06 35.4	2.124	3.048	153.7	8.3	18.1
- 7.15 -0.82	- 40.5 + 1.4	1991 NA2	18829	- 8.48 +0.43		- 15.5 + 6.5	
1992 11 24	03 17.61	+05 02.1	2.106	3.058	161.4	5.9	18.0
1992 10 25	03 41.17	+17 51.3	2.305	3.232	154.7	7.6	16.7
- 6.28 -0.74	- 50.8 - 3.0	(5022)	19488	- 7.38 +0.41		- 53.1 + 2.6	
1992 11 24	03 18.57	+15 05.1	2.282	3.256	168.7	3.4	16.5
1992 10 25	03 45.13	+18 13.1	1.308	2.243	153.7	11.3	17.0
- 6.84 -1.36	- 27.6 - 4.2	1218 T-2	17220	- 9.40 +0.64		- 35.1 + 2.7	
1992 11 24	03 17.08	+16 26.2	1.255	2.232	169.0	4.8	16.6
1992 10 25	03 44.12	+21 07.7	1.978	2.901	153.3	8.9	15.9
- 6.95 -0.96	- 13.7 - 3.9	(4863)	18405	- 8.68 +0.45		- 27.9 0.0	
1992 11 24	03 18.06	+19 58.0	1.926	2.904	170.2	3.3	15.6
1992 10 25	03 42.53	+03 23.7	1.848	2.771	152.9	9.4	15.9
- 5.91 -0.90	- 54.4 + 2.7	(4916)	18783	- 7.50 +0.43		- 16.3 + 9.2	
1992 11 24	03 19.96	+01 25.7	1.825	2.767	158.5	7.5	15.8
1992 10 25	03 44.41	+23 33.1	2.603	3.515	152.5	7.5	17.3
- 6.69 -0.77	-5.4 - 3.7	1989 EC2	19502	- 8.18 +0.33		- 22.3 - 1.2	
1992 11 24	03 20.09	+22 47.2	2.534	3.512	170.5	2.7	17.0
1992 10 25	03 47.98	+30 30.3	2.082	2.977	148.8	10.0	17.4
- 7.54 -1.00	- 30.3 - 7.8	1977 FN	19012	- 9.18 +0.51		- 68.6 - 3.3	
1992 11 24	03 20.13	+27 53.5	2.024	2.998	168.4	3.8	17.1
1992 10 25	03 48.62	+18 58.8	2.360	3.276	152.8	8.0	16.4
- 7.42 -0.84	+ 17.0 - 1.9	1990 HR	16700	- 9.00 +0.37		+8.2 - 0.5	
1992 11 24	03 21.76	+19 33.9	2.335	3.313	171.0	2.7	16.1
1992 10 25	03 48.87	+25 26.9	1.702	2.616	150.9	10.7	16.7
- 6.77 -1.15	- 20.7 - 6.4	(4944)	18794	- 8.92 +0.52		- 49.2 - 1.6	
1992 11 24	03 22.26	+23 33.1	1.652	2.631	170.8	3.4	16.3
1992 10 25	03 49.68	+15 13.9	1.332	2.264	153.0	11.5	17.1
- 5.89 -1.41	- 50.7 - 4.0	1982 FK3	16023	- 9.47 +0.42		- 50.4 + 5.0	
1992 11 24	03 23.26	+12 25.7	1.216	2.192	168.0	5.4	16.6
1992 10 25	03 47.21	+10 58.3	2.210	3.131	153.5	8.1	15.8
- 6.11 -0.84	- 22.4 + 0.1	(5006)	19286	- 7.88 +0.32		-9.8 + 4.1	
1992 11 24	03 24.10	+10 02.5	2.147	3.115	166.4	4.3	15.5
1992 10 25	03 53.60	+26 38.1	1.607	2.515	149.5	11.6	17.2
- 7.91 -1.35	- 11.4 - 7.2	1987 EV	18627	-10.81 +0.53		- 48.5 - 3.3	
1992 11 24	03 22.02	+25 01.1	1.526	2.504	170.2	3.8	16.8
1992 10 25	03 54.51	+30 16.5	1.655	2.551	147.7	12.0	18.4
- 8.29 -1.40	+ 10.0 - 7.9	1980 FU	11837	-11.36 +0.54		- 38.5 - 6.1	
1992 11 24	03 21.44	+29 30.7	1.572	2.545	167.5	4.8	17.9
1992 10 25	03 55.24	+20 40.8	1.181	2.106	150.9	13.3	16.2
- 7.85 -1.60	+ 29.0 - 3.8	1981 UB10	15410	-10.91 +0.74		+7.3 - 2.0	
1992 11 24	03 22.78	+21 32.3	1.168	2.149	171.3	4.0	15.9